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Sweet's Catalog Service

Division—F.W. Dodge Corporation

119 West 40 St., New York 18, NY

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Cincinnati Floor Co. 13J/Ci
Claiborne Sales Co., Inc. 13c/CL
Clancy, J. R., Inc. 23g/CL
Clarage Fan Co. 31a/CL
Claridge Products & Equipment, Inc. 23e/CL
Clark Div., Standard Products Co. 17b/CLa
Clark Door Co., Inc.
- *cold storage doors* 23c/CL
- *industrial doors* 16h/CL

Clark, Peter, Inc.,
–see Joseph Vasconcellos, Inc. 23g/Va
Claycraft Co. 4f/CL
Clayton Mark & Co. 32b/CL
Cleaver-Brooks Co. 31g/CL
Cleveland Range Co. 26c/CL
Cleveland Steel Specialty Co., Inc. 2i/CL
Clopay Corp., Folding Door Div. 16e/CL
Closures Sales Corp.,–see Clopay Corp., Folding Door Div. 16e/CL
Coast Line Steel Products, Inc. 16b/Co
Coco, Ronald A., Inc. 2e/Co
Cold Spring Granite Co. 4a/Co
Colonial Hand Split Shingles, Inc. 8d/Co
Colonial-Hites Co. 6f/Co
Colonial Lumber Specialties Inc.
–see Colonial Hand Split Shingles, Inc. 8d/Co
Colonial Screen Co., Inc. 19a/Co
Colorado Fuel & Iron Corp., Wickwire Spencer Steel Div. 22g/Co
Columbia Acoustics & Fireproofing Co., Sub. United States Mineral Wool Co.
- *acoustical material* 11a/Co
- *fireproofing material* 12e/Co

Columbia Electric & Mfg. Co. 33a/Co
Columbia Metal Box Co. 27d/Co
Columbus Coated Fabrics Corp.
- *canvas-backed wall covering* 13k/Co
- *vinyl wall covering* 13k/CoL

Commercial Controls Corp.–see Electromode, Div. Commercial Controls Corp. 31h/EL
Concord Paint Co., Inc. 7c/Co
Concrete Plank Co., Inc. 2d/Co
Concrete Products, Inc. 2d/Con
Concrete Reinforcing Steel Institute 2a/Co
Concrete Service Co. 9/Co
Congoleum-Nair Inc. 13i/Co
–Industrial Sales Div. 23e/Co
Connor Engineering Corp. 31f/Co
Connor Lumber & Land Co. 13J/Co
Connors Steel Div., H. K. Porter Co., Inc. 2d/Cor
Consolidated General Products, Inc.
- *dome skylights* 20a/Cn
- *folding louver doors* 16e/Co

Consoweld Corp. 14a/Co
Construction Products Co. 27f/Co
Construction Specialties, Inc.
- *louvers, louvered penthouses* 20d/Con
- *sunshades* 19e/Con
- *vent brick louvers* 20d/Co

Constructional Chemicals, Inc. 9/Con
Continental Materials Corp.,–see Calsi-Crete Inc., Sub. Continental Materials Corp. 2d/Ca
Continental Nu-Steel Metal Products Co. 16i/Co
Continental Steel Corp. 22g/Con
Contrex Co. 11a/Con
Cook, Loren, Co. 20c/Co
Cookson Co.
- *doors* 16g/Co
- *partitions* 22d/Co

Corbin, P. & F., Div. American Hardware Corp. 18e/Co
Corbin Wood Products Div., American Hardware Corp. 23b/Co
Cordley & Hayes 30d/Co
Cornell Iron Works, Inc. 16g/Cor
Cornice Temper Zinc Alloy Div., Chomes Co., Inc. 8g/Co
Corning Glass Works 29b/Co
–Lighting Sales Dept. 33b/Co
Corrulux Div., L-O-F Glass Fibers Co.
–see Johns-Manville 7d/Jo
Corry Jamestown Corp. 22a/Co
Cox Mfg. Co. 31b/Co
Crab Orchard Stone Co., Inc. 4c/Cr
Cramer Posture Chair Co., Inc. 23i/Cr
Cramer Safe Co.,–see Mosler Dropository Corp. 23b/Mo
Crane Co. 27a/Cr
Crawford Door Co. 16i/Cra
Creo-Dipt Co., Inc. 8d/Cr
Crestlyn Div., Douglas Crestlyn International, Inc. 25b/Cr
Crittall Mfg. Co., Ltd. 17b/Cr
Crooks, W. D., & Sons 16c/Cr
Crossfield Products Corp. 13i/Cr
Crown Zellerbach Corp. 27e/Cr
Cummins Engine Co., Inc. 32c/Cu
Cupples Door & Frame Corp. 16a/Cu
Cupples Products Corp.
- *commercial aluminum windows* 17a/Cu
- *curtain walls* 3a/Cu

–Alumi-Coustic Div. 11b/Cu
Curon Div., Curtiss-Wright Corp. 13k/Cu
Curtis-Allbrite Lighting, Inc. 33a/Cu
Curtis Companies, Inc. 16c/Cu
Curtis Mfg. Co., Refrigeration Div. 31a/Cu
Curtiss-Wright Corp.,–see Curon Div., Curtiss-Wright Corp. 13k/Cu
Curtition Corp. 16e/Cu
Custodis Construction Co., Inc. 31k/Cu

Customusic Div.,–see Automatic Canteen Co. of America, Customusic Div. 34a/Auo
Cutler-Hammer, Inc. 32a/Cut
Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Cutler Metal Products Co.
–Building Products Div. 22b/Cu
–Products Div. 27c/Cu
Cyanamid–see Formica Corp., Sub. Cyanamid 14a/Fo
Cyclone Fence Dept., American Steel & Wire Div., United States Steel 22g/Cy

d

Dahlstrom Metallic Door Co. 24b/Da
Dallas Ceramic Co. 13c/Da
Dalmo Continental Inc. 18b/Da
Darling, L. A., Co., Workwall Div. 22a/Da
Daryl Products Corp. 16d/Da
Davidson Enamel Products, Inc., Sub. Fenestra, Inc. 3c/Da
Davis Products Co. 25b/Da
Day-Brite Lighting, Inc. 33a/Da
Dayton Sure-Grip & Shore Co. 2i/Da
Dearborn Glass Co. 7a/De
Decatur Iron & Steel Co., Inc.
- *aluminum windows* 17a/De
- *jail equipment* 23m/De

Deer-O Paints & Chemicals, Ltd. 8a/De
Delta Faucet Corp. 27b/De
Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Desco Vitro Glaze Assn. of America, Inc. 13h/De
Designware Industries, Inc. 18g/De
Deslauriers Column Mold Co., Inc. 2i/De
Detrex Chemical Industries, Filter Div. 23k/De
Detroit Controls Div., American-Standard 31i/De
Detroit Hardware Mfg. Co.
- *exit devices* 18f/De
- *window hardware* 18b/De

Detroit Incinerator Corp.,
–see American Incinerator Corp. 28a/Am
DeVac, Inc. 17a/Dev
Devoe & Raynolds Co., Inc. 15/Dev
–see also Truscon Laboratories, Div. Devoe & Raynolds Co., Inc. 9/Tru
Dewey & Almy Chemical Div., W. R. Grace & Co. .. 9/De
De Witt Products Co. 29a/De
Dicks-Armstrong-Pontius, Inc. 7c/Di
Diebold, Inc. 23b/Di
Diffusa-Lite Co. 33a/Di
–see also Bohem Mfg. Co., Inc. 20a/Bo
Dodge Cork Co., Inc. 13i/Do
Doherty Silentaire Co. 31e/Do
Donald, J. R., Co. 23h/Do
Donley Brothers Co.
- *fireplaces* 31L/Do
- *incinerators* 28a/Do

Donn Products Co.
- *partition studs* 12a/Do
- *suspended ceilings* 11b/Do

Dorian International Inc. 4d/Do
Dor-O-Matic, Div. Republic Industries, Inc.
- *automatic door operators* 18e/Dor
- *manual door operators* 18e/Do

Douglas Aircraft Co., Inc. 14c/Do
Douglas Crestlyn International, Inc.,–see Crestlyn Div., Douglas Crestlyn International, Inc. 25b/Cr
Douglas Fir Plywood Assn. 5b/Do
Dover Corp.
–see Rotary Lift Co., Div. Dover Corp. ... 23g/Ro; 24a/Ro
–see Shepard Elevator Co., Div. Dover Corp. 24a/Sh
Dow Chemical Co.
- *comfort insulation* 10a/Do
- *flashings* 8g/Do
- *low temperature insulation* 10a/Dow

Dow Corning Corp. 9/Dw
DoxPlank Mfrs. Assn. 2d/Do
Dravo Corp. 31c/Dr
–Machinery Div. 13a/Dr
Driwood Moulding Co. 5c/Dr
Dropository Corp.,–see Mosler Dropository Corp. ... 23b/Mo
Dual-Lite Co., Inc. 33a/Du
Dubuque Products, Inc. 22d/Du
Dukane Corp. 34a/Du
Duke Mfg. Co. 26d/Du
Dunham-Bush, Inc. 31a/Dun
–Brunner Div. 31a/Du
Durable Mat Co. 23p/Du
DURAflex Co. 19b/Dur
Duralab Equipment Corp. 23L/Du
Duraloom Carpet Mills, Inc. 13L/Du
Dura-Vent Corp. 31f/Du
Durham Mfg. Corp. 23i/Du
Duriron Co. Inc. 29b/Du
Dur-O-Wal Co. 4h/Du
Dusing & Hunt, Inc.
- *aluminum and vinyl-on-steel doors* 16a/Dui
- *fire doors* 16b/Du
- *sliding doors* 16h/Dus
- *wood doors* 16c/Dus

Duvinage Corp. 6h/Duv
Dwyer Products Corp. 25b/Dw
Dyfoam Corp.
- *comfort insulation* 10a/Dy
- *plastic foam insulation* 10b/Dy

e

Eastern Products Corp.
- *ceiling suspension systems* 11b/Ea
- *drapery hardware* 19d/Eas
- *venetian blinds* 19d/Ea

–Acoustical Div. 11a/Ea

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Eastern Quarries, Inc. 4a/Ea
Eastern Steel Rack Co. 23c/Ea
Eastern Venetian Blind Co.,–see Eastern Products Corp. 19d/Eas
Eastman Chemical Products, Inc., Sub. Eastman Kodak Co. 15/Ea
Eastman Kodak Co.,–see Eastman Chemical Products, Inc., Sub. Eastman Kodak Co. 15/Ea
Ebco Mfg. Co. 30d/Eb
Eddy Stoker Corp. 31J/Ed
Edgewood Furniture Co., Inc. 23o/Ed
Educational Equipment Co. 23e/Ed
Efron, Theodore, Mfg. Co. 27c/Ef
Eggers, F., Plywood & Veneer Co. 16c/Eg
Ehret Magnesia Mfg. Co.,–see Baldwin-Ehret-Hill, Inc. 10a/Ba; 10c/Eh; 10c/BaL
Ekco Products Co.,–see Kennatrack Corp., Sub. Ekco Products Corp. 18d/Ke
Electric Aire Engineering Corp. 27e/EL
Electric Cord Co. 33a/EL
Electric Power Door Co., Inc. 16i/EL
Electric Time Co., Inc. 34b/EL
Electromode, Div. Commercial Controls Corp. 31h/EL
Elgin-Butler Brick Co. 4f/EL
Elkay Mfg. Co. 25b/ELk
Elkhart Brass Mfg. Co., Inc. 30f/EL
Elkington Mfg. Co. 26b/EL
Ellison Bronze Co., Inc. 16a/EL
Ellison Louvre Co., Inc. 20d/EL
Emerson Electric Mfg. Co.
•*fans and blowers* 31e/Em
•*fans, ventilators, chimes* 25a/Em
•*lighting equipment* 33a/Em
Emerson-Pryne Co.,–see Emerson Mfg. Co. 25a/Em; 31e/Em; 33a/Em
Empire Varnish Co.,–see Waterlox Div., Empire Varnish Co. 15/Wa
Enamel Products Co.,–see Korok Inc., Div. Enamel Products Co. 23e/Ko
Ender Monarch Corp. 33a/En
Energy Elevator Co. 24a/En
Engineered Products Co. 18g/En
Engineering Products & Specialties, Inc.,–see Alumiline Corp., Div. Engineering Products & Specialties, Inc. 16a/ALu
Engwald Corp. 31e/En
Equal-Aire Incinerator Div.,–see Sargent Building Specialties Inc., Equal-Aire Incinerator Div. 28a/Sar
Equipment Mfg. Co., Inc. 23d/Eq
Erie Enameling Co. 3c/Er
Esco Elevators, Inc. 24a/Es
Eska Products, Inc. 23J/Es
Espro Tubing, Div. Union Asbestos & Rubber Co. 2f/Es
Estey Corp. 23f/Es
Euclid Chemical Co. 9/Eu
Evans Products Co.,–see Haskelite Mfg. Corp., sub. Evans Products Co. 3e/Ha; 16c/Has
Executone, Inc. 34a/Ex
Extruded Louver Corp. 20d/Ex

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F & A Laboratories, Inc. 2a/Fa
Fabricated Products Co. 8b/Fa
Facing Tile Institute 4f/Fa
Fair, D. L., Lumber Co. 13J/Fa
Fair-Play Scoreboard Co. 23k/Fa
Fairbanks, Morse & Co.
•*generating sets* 32c/Fa
•*pumps* 30a/Fa
Fairhurst, John T., Co., Inc.
•*folding walls* 22d/Fa
•*wardrobes* 23d/Fa
Fanon Electronic Industries, Inc. 34a/Fa
Farley & Loetscher Mfg. Co.
•*wood doors* 16c/Fa
•*wood windows* 17c/Far
Fasco Industries, Inc. 31e/Fa
Federal Cement Tile Co. 2d/Fe
Federal Equipment Co.,–see Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Federal Seaboard Terra Cotta Corp. 4e/Fe
Federal Windows Mfg. Co., Inc. 17b/Fe
Felters Co.,–see Woolsuede, Div., Felters Co. 13k/Wo
Fenestra, Inc.
•*aluminum windows* 17a/Fe
•*curtain wall systems* 3a/Fe
•*floor and roof panels systems* 2c/Fe
•*hollow metal door units* 16b/Fe
•*wall panels* 3b/Fe
–see also Davidson Enamel Products, Inc., sub. Fenestra, Inc. 3c/Da
Fentron Industries, Inc. 17a/Fen
Fenwal Inc. 34a/Fe
Ferrometal Div., Milwaukee Stamping Co. 22b/Fe
Fiat Metal Mfg. Co.
•*shower stalls* 27c/Fi
•*toilet partitions* 22b/Fi
Fiberesin Plastics Co. 14b/Fi
Fibreboard Paper Products Corp.,–see Pabco Floor Covering Div., Fibreboard Paper Products Corp. 13i/Pa
Filon Plastics Corp. 7d/Fi
Filtrine Mfg. Co. 30d/Fi
Finishing Lime Assn. of Ohio 12e/Fi
Firebar Door Div., Rysdon Products Co. 16m/Fi
Fireproof Products, Inc. 2d/Fi
Fisher Scientific 23L/Fi
Fisher Skylights, Inc. 20b/Fi
Fiske, J. W., Architectural Metals, Inc. 6e/Fi
Fleet of America, Inc.
•*aluminum windows* 17a/FLA
•*monumental, commercial aluminum windows* 17a/FL
•*sliding glass doors* 16d/FL
Fleming Steel Co. 16h/FL
Fletcher, H. E., Co.
•*granite* 4a/FLe
•*granite highway products* 4a/FL
Flexicore Co., Inc. 2d/FL

Flexotile Floor Co.	13h/FL
Flintkote Co.	
–Building Materials Div.	8a/FL
–Flooring & Adhesive Div.	13i/FL
–Industrial Products Div.	9/FL
–Insulrock Div.	2d/FLi
–see also Orangeburg Mfg. Co., Div. Flintkote Co.	29a/Or; 32b/Or; 32b/Ora
–see also Van-Packer Co., Div. Flintkote Co.	31k/Va
Flintridge Corp.	17a/FLi
Flockhart Foundry Co.	
–Armored Concrete Div., Flockhart Foundry Co.	6i/FL
–Construction Castings Div., Flockhart Foundry Co.	6i/FL
Florence Mfg. Co., Inc.	34a/FL
Flour City Ornamental Iron Co.	
•*curtain walls*	3a/FLo
•*doors*	16a/FL
•*windows*	17a/FLo
Fluor Products Co.	
•*arches, trusses, lamella roofs*	2e/FL
•*cooling towers*	30b/FL
Flush-Metal Partition Corp.	22b/FL
Flynn, Michael, Mfg. Co.	
•*air conditioning*	31a/FL
•*aluminum curtain walls*	3a/FLy
•*aluminum windows*	17a/FLy
•*steel windows*	17b/FL
Follansbee Steel Corp.	8b/Fo
Folmar, R. H., Co.	17a/Fo
Food Warming Equipment Co. Inc.	26d/Foo
Formica Corp., Sub. Cyanamid	14a/Fo
Fort Howard Paper Co.	27e/Fo
Forty-Eight Insulations, Inc.	
•*acoustical ceiling board*	11a/Fo
•*insulating materials*	10a/Fo
•*panel insulations*	3f/Fo
Fourco Glass Co.	7a/Fo
Franklin Research Corp.,–see Wheeler-Fullerton Lighting Div., Franklin Research Corp.	33a/Wh
Frantz Mfg. Co.	16i/Fr
French Creek Granite Co., Inc.	4a/Fr
Frick Co.	31a/Fr
Friedrich, E. H., Co.	16b/Fr
Frigidaire Div., General Motors Corp.	25a/Fr
Frontier Fence Co.,–see Dorian International Inc.	4d/Do
Fry, Lloyd A., Roofing Co.	8a/Fr
Fuller, H. B., Co.	3f/Fu
Fyr-Fyter Co.	30f/Fy

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G R Products Inc., Steel Div.	22a/Ga
Garnett Church Furniture & Mfg. Co.	23h/Ga
Gates & Sons, Inc.	2i/Ga
Gates Rubber Co.	2i/Gas
Gateway Engineering Co.	
•*construction accessories*	2i/Gat
•*electrical underfloor duct system*	32b/Ga
Gateway Erectors, Inc., Sub. Gateway Engineering Co.	2a/Ga
Gauff Corp.–see New York Silicate Book Slate Co., Inc.	23a/Ne
General Air Conditioning Corp.	25b/Ge
General Bronze Corp.	
•*curtain walls, ornamental metalwork*	3a/Ge
•*revolving doors*	16f/Ge
•*windows*	17a/Ge
–see also Alwintite Div., General Bronze Corp.	16d/AL; 17a/ALw
General Electric Co.	
–Air Conditioning Dept.	31a/Gen
–Air Conditioning Dept., Major Appliance Div.	31a/Ge
–Appliance and Television Receiver Div.	25a/Gen
–Commercial Equipment Dept.	30d/Ge
–Laminated Products Dept.	14a/Ge
–X-Ray Dept.	23L/Ge
see also Hotpoint, Div. General Electric Co.	25a/Hot; 26c/Hot
General Foam Plastics Corp.	10a/Ge
General Lead Construction Corp.	22e/Ge
General Lighting Co.	33a/Ge
General Motors Corp.,	
–see Frigidaire Div., General Motors Corp.	25a/Fr
General Plywood Corp.	16c/Ge
General Portland Cement Co., Trinity White Dept.	4i/Ge
General Tire & Rubber Co., Building Materials Div.	
•*flooring*	13i/Ge
•*vinyl wall coverings*	13k/Ge
General Welding & Fabricating Co.	22b/Ge
General Woodcraft Co.,–see Woodco Corp. Div.	17c/Wo
Geneva Hospital Casework, Div. Acme Steel Co.	23L/Gen
Geneva Modern Kitchens, Div. Acme Steel Co.	
•*kitchen cabinets and sinks*	25b/Gev
•*steel cabinets*	23i/Ge
Georgia Granite Co.	4a/Ge
Georgia-Pacific Corp.	
•*hardboards*	14d/Geo
•*overlaid plywood*	5b/Ger
•*prefinished plywood*	5b/Geo
•*sheathing, siding*	8b/Ge
•*wood products reference guide*	5a/Ge
Gering Plastics Div., Studebaker-Packard Corp.	9/Ger
Gerwin Industries, Inc., Thermo-Base Div.	31f/Ge
Getty, H. S., & Co., Inc.	18b/Ge
Geyser, E. K., & Co.	3a/Gey
Gillespie, Robert, Co.	24d/Gi
Gillis & Geoghegan Hoist Corp.	24d/GiL
Glass Shower Door Co., Inc.	
•*shower enclosures*	27c/GL
•*sliding glass walls*	16d/GL
Glidden Co.	
•*paint*	15/GLi
•*plastic tile finish*	15/GL
Glide Windows, Inc.	
•*aluminum rolling windows*	17a/GL
•*aluminum sliding doors*	16d/GLi
Glidorama Div., Whizzer Industries, Inc.	17a/GLi
Globe Hoist Co.	24a/GL

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Globe Marble & Granite Corp. 4a/GL
Globe-Wernicke Co. 23f/GL
Glynn-Johnson Corp. 18e/GL
Goder, Joseph, Inc. 28a/Go
Goder Incinerator Corp.,
–see Brulé Incinerator Corp. 28a/Br
Goldsmith Metal Lath Co. 2c/Go
Goodrich, B. F., Co., Flooring Products 13i/Go
Goodrich, B. F., Coated Fabrics Dept. 13k/Go
–Sponge Products Div. 13L/Go
Goodyear Tire & Rubber Co. 13i/Goo
Gotham Chalkboard & Trim Co., Inc. 23e/Go
–see also Gotham Materials, sub. Gotham
Chalkboard & Trim Co., Inc. 13i/Got
Gotham Lighting Corp. 33a/Go
Gotham Materials, sub. Gotham Chalkboard &
Trim Co., Inc. 13i/Got
Gould-Mersereau Co., Inc. 19d/Go
Gow Div.,–see Raymond Concrete Pile Co., Div.
Raymond International Inc. 1a/Ra
Grace, W. R., & Co.,–see Dewey & Almy Chemical
Div., W. R. Grace & Co. 9/De
Grade-Aid Corp., sub. Maine Mfg. Co. 23i/Gr
Granco Steel Products Co., Sub. Granite City Steel Co.
• *reinforcement forms* 2c/Gr
• *roof decks* 2c/Gra
• *steel forms* 2a/Gr
• *steel roof decking* 2c/Grn
Grand Rapids Hardware Co. 18a/Gr
Grand Rapids Sectional Equipment Co. 23L/Gr
Granite City Steel Co.,–see Granco Steel Products
Co., Sub. Granite City Steel
Co. 2a/Gr; 2c/Gr; 2c/Gra; 2c/Grn
Grant Pulley & Hardware Corp. 18d/Gr
Granux Corp. 4d/Gra
–see also Modur Co., Div. Granux Corp. 4d/Mod
Great American Industries, Inc.,–see Rubatex Div.,
Great American Industries, Inc. 8b/Ru; 10b/Ru
Great Lakes Carbon Corp., Perlite Dept.
• *insulating concrete* 10a/Gr
• *plaster aggregates* 12d/Gr
Grid Flat Slab Corp. 2a/Gri
Gridwall Co. 3a/Gr
Grinnell Co., Inc. 30e/Gr
Grossman Steel Stair Corp. 6h/Gr
Guardian Chemical Co. 9/Gu
Guastavino, R., Co. 2e/Gu
Guilbert, Inc. 24c/Gu
Guild Hall Studios, Inc. 23h/Gu
Gustin-Bacon Mfg. Co.
• *acoustical ceiling board* 11a/Gu
• *duct insulation* 10a/Gu
• *pipe insulation* 10c/Gu
Guth, Edwin F., Co. 33a/Gu

h

H. & B. Enterprise Corp. 22a/Ha
Hachmeister-Inc., see Hako Building Products, Div.
Mastic Tile Corp. of America 13i/Hak
Haertel, W. J., & Co. 11b/Ha
Hako Building Products Div., Mastic Tile Corp. of
America 13i/Hak
Haldeman-Homme Mfg. Co. 23i/Ha
Hall-Mack Co. 27d/Ha
Hankins & Johann, Inc.
• *aluminum doors* 16a/Ha
• *architectural aluminum* 6e/Ha
• *curtain walls* 3a/Ha
Hanley Co. 4f/Ha
Hanna Paint Mfg. Co. Inc. 15/Ha
Hansson, Elof, Inc., Acoustical Div. 11a/Ha
Hardwood Products Corp. 16c/Ha
Harnischfeger Corp. 32c/Ha
Harper, H. M., Co.,–see Harrison-Weise Div., H. M.
Harper Co. 18c/Ha
Harrington & King Perforating Co., Inc. 31f/Ha
Harris, D. C., Co. 9/Ha
Harris Barrier, Inc. 23p/Ha
Harris Mfg. Co. 13J/Har
Harrison-Weise Div., H. M. Harper Co. 18c/Ha
Hart & Cooley Mfg. Co. 31f/Har
Harter Corp.
• *office chairs* 23o/Har
• *stack chairs* 23o/Ha
Hartmann-Sanders Co. 5c/Ha
Haskelite Mfg. Corp., sub. Evans Products Co.
• *curtain walls* 3e/Ha
• *institutional doors* 16c/Has
Hastings Pavement Co., Inc. 13i/Has
Hatco Corp. 26b/Ha
Haughton Elevator Co. 24a/Ha
Hauserman, E. F., Co. 22a/Hau
Hausman Steel Co.
–see Capitol Battens, Div. Hausman Steel Co. 22a/Ca
–see McMillan Products Div., Hausman Steel Co. 9/Mc
Haven-Busch Co. 2f/Ha
Haws Drinking Faucet Co. 30d/Ha
Hazen Metal Products, Inc. 16g/Ha
Heat-X, Inc.,–see Dunham-Bush Inc., Brunner Div. 31a/Du
Helio-Therm Control Corp. 19c/He
Hendrick Mfg. Co. 31f/He
Henges Co., Inc. 22a/He
Herrick Refrigerator Co. 26a/He
Herring-Hall-Marvin Safe Co. 23b/He
Hersey Mfg. Co. 30i/He
Hexcel Products Inc. 33a/He
Hillyard Chemical Co. 13m/Hi
Himmel Brothers Co.
• *entrances* 16a/Hi
• *store fronts* 21/Hi
Hirschman-Pohle Co., Inc. 20c/Hi
Hobart Mfg. Co. 26b/Ho
Hoe Corp. 5c/Ho
Hogan, C. T., & Co.,
–see Alumiseal Corp.
10b/AL; 10b/ALi; 10b/ALm; 10b/ALu; 10b/ALw
Hohmann & Barnard, Inc. 2i/Ho
Hohmann & Barnard of Alabama, Inc. 4h/Ho

Holcomb & Hoke Mfg. Co., Inc.
- *folding partitions, doors* 16e/Ho
- *folding partitions* 22d/Ho
- *interior decorative screens, grillework*..........22h/Ho

Hollingshead, R. M., Corp. 9/HL
Homasote Co. 10a/Ho
–see also Nova Sales Co., Sub. Homasote Co.....8d/No
Hope's Windows, Inc.
- *aluminum windows* 17a/Ho
- *steel windows* 17b/Ho

Horn, A. C., Cos., Subs. & Divs. Sun Chemical Corp. 9/Ho
Horn Div., Brunswick-Balke-Collender Co.
- *basketball backstops* 23k/Ho
- *folding gym seats* 23J/Ho
- *folding partitions* 22d/Hor
- *folding stages and steps* 23g/Ho

Horner Flooring Co. 13J/Ho
Hotpoint, Div. General Electric Co.
- *commercial cooking equipment* 26c/Hot
- *kitchen and laundry equipment* 25a/Hot

Houze Glass Corp. 7a/Ho
Hubbell, Harvey, Inc. 32b/Hu
Hubbellite Corp. 13h/Hu
Hunter Div., Robbins & Meyers, Inc. 31h/Hu
Hunter Douglas Div.,–see Bridgeport Brass Co.,
Hunter Douglas Div. 19d/Br; 19e/Bi
Huntington Furniture Corp. 23o/Hu
Huntington Laboratories, Inc. 13m/Hu
Hussey Mfg. Co., Inc. 23J/Hu
Hyde-Murphy Co. 16c/Hy
Hydrometals, Inc. 6b/Hy
–see also Illinois Zinc Co., Div. Hydrometals, Inc....8g/IL
Hydrotherm Inc. 31g/Hy

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Ickes-Braun Greenhouse Mfg. Co. 2J/Ic
Ideal Indstries, Inc. 32b/Id
Ilg Electric Ventilating Co.......................31e/IL
Illinois Zinc Co., Div. Hydrometals, Inc. 8g/IL
–see also Hydrometals, Inc. 6b/Hy
Imperial Brass Mfg. Co. 27e/Im
Impervitex Dept.,–see Chase Bag Co., Impervitex
Dept. 8a/Ch
In-Sink-Erator Mfg. Co. 25a/In
Incinerator Products Co. 28a/In
Inclinator Co. of America 24a/In
Independent Nail & Packing Co. 18a/In
Independent Register Co. 31f/In
Indiana Limestone Institute 4c/Ind
Industrial Acoustics Co., Inc. 11c/In
Industrial Chemical Laboratories, Inc. 13m/In
Industrial Corp. of America–see Atlas Overhead
Door Co., Div., Industrial Corp. of America.....16i/At
Industrial Engineering & Equipment Co. 31h/In
Industrial Engineering Works 17a/In
Ingram-Richardson Mfg. Co. 3c/Ing

Inland Steel Products Co.
- *access doors* 16J/In
- *acoustical roof deck* 11a/In
- *curtain walls* 3b/In
- *floor panels* 2b/In
- *metal lath* 12a/In
- *steel forms* 2a/In
- *steel roof decks* 2c/InL

Insinger Machine Co. 26b/In
In-Sink-Erator Mfg. Co. 25a/In
Insulite Div., Minnesota & Ontario Paper Co.
- *building products* 10a/Ins
- *construction accessories* 2i/Ins

Insulrock Div.,–see Flintkote Co., Insulrock Div......2d/FLi
Integro, Inc. 13g/In
Interior Steel Equipment Co. 23d/In
International Bronze Tablet Co., Inc. 6f/In
International Molded Plastics, Inc., Structoglas Div...7d/In
International Steel Co. 16h/Int
–Revolving Door & Entrance Div. 16f/In
International Swimming Pool Corp., Commercial
Pool Div. 23k/In
International Telephone & Telegraph Corp.,–see Kellogg
Switchboard & Supply Co., Communications Div.
International Telephone & Telegraph Corp.....34a/Ke
Ipik Door Co., Inc. 16c/Ip
Iron Fireman Mfg. Co. 31J/Ir
Irving Subway Grating Co., Inc. 13a/Ir
Isenhour Brick & Tile Co. 4f/Is

J

Jamestown Metal Products, Inc. 23L/Ja
Jamestown Veneer & Plywood Corp...............16c/Ja
Jamison Cold Storage Door Co...................23c/Ja
–Sound Reduction Door Div. 16m/Ja
Janitrol Heating & Air Conditioning Div., Surface
Combustion Corp. 31b/Ja
Jenn-Air Products Co., Inc. 20c/Je
Jennison-Wright Corp. 13J/Je
Jewett Refrigerator Co., Inc.....................23L/Je
Jiffy Join, Inc. 22c/Ji
Joanna Western Mills Co.
- *wall coverings* 13k/Jo
- *window shades* 19c/Jo

Johns-Manville
- *acoustical materials* 11a/Jo
- *asbestos-cement shingles* 8c/Jo
- *asbestos Transitop* 8b/Jo
- *asphalt-asbestos floor tile* 13i/Joh
- *building insulation* 10a/Jo
- *built-up roofing* 8a/Jo
- *cement additives* 9/Jo
- *corrugated asbestos Transite* 8b/Joh
- *fiber glass panels* 7d/Jo
- *partitions, walls* 22a/Jo
- *plastic tile flooring* 13i/Jo

Johnson Plastic Tops, Inc. 14a/Jo
Johnson Rubber Co., Special Products Div........13i/Jon

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Jordan Commercial Refrigerator Co. 26a/Jo
Josam Mfg. Co. 30g/Jo
Joy Mfg. Co. 31e/Jo
Just Mfg. Co.
•*hospital equipment* 23L/Ju
•*residential sinks* 25b/Ju

k

K-M Building Products Co. 12a/Ka
Kaiser Aluminum & Chemical Sales, Inc.
•*aluminum products* 6a/Ka
•*copings and gravel stops* 8g/Kai
•*industrial building products* 8b/Ka
•*ornamental extrusions* 6a/Kai
•*thresholds and window sills* 19b/Ka
Kaiser Mfg. Co. 13c/Ka
Kaiserhof Industries, Inc. 16d/Ka
Kalman Floor Co., Inc. 13h/Ka
Kalwall Corp.
•*plastic building panels* 3e/Ka
•*skylight* 20b/Ka
Kane Mfg. Corp. 19a/Kan
Katolight Corp. 32c/Ka
Kaustine Furnace & Tank Corp. 30h/Ka
Kawneer Co.
•*aluminum windows* 17a/Ka
•*doors and entrances* 16a/Kaw
•*store front construction* 21/Kaw
•*sun control products* 19e/Ka
•*wall facings* 6d/Ka
•*wall systems* 3a/Ka
Keasbey & Mattison Co.
•*asbestos-cement* 8c/Ke
•*asbestos insulation* 10a/Ke
Keflex Mfg. Div., U.S. Flexible Metallic Tubing Co. ..29a/Ke
Kellogg-Mann Corp. 28a/Ke
Kellogg Switchboard & Supply Co., Communications Div. International Telephone & Telegraph Corp. ..34a/Ke
Kennatrack Corp., Sub. Ekco Products Co. 18d/Ke
Kennecott Copper Corp.,
–see Chase Brass & Copper Co., Inc., Sub. Kennecott Copper Corp. 8g/Ch; 19a/Cha; 29a/Ch
Kennedy, David E., Inc.,–see Kentile, Inc. 13i/Ke
Kent-Moore Organization, Inc. 31e/Ke
Kentile, Inc. 13i/Ke
Kentucky Metal Products Co. 22f/Ke
Kerrigan Iron Works, Inc. 13a/Ker
Ketcham, G. M., Mfg. Corp.
•*bathroom equipment* 27d/Ke
•*rolling glass walls* 16d/Ke
Kewanee Boiler Div.,–see American-Standard Industrial Div. 31a/Ame
Keyless Lock Co. 23b/Ke
Keystone Shower Door Co. 27c/Ke
Keystone Steel & Wire Co.
•*masonry reinforcing* 4h/Ke
•*reinforcing lath* 12a/Ke
•*roofing reinforcing* 2d/Ke
Kiefer, Adolph & Co. 23k/Ki
Kimberly-Clark Corp. 27e/Ki
Kinnear Mfg. Co. 16g/Ki
Kirsch Co. 19d/Ki
Kitchen Maid Corp. 25b/Ki
Klemp International 6e/KL
Klemp Metal Grating Corp. 13a/KL
Klip-Lock Fastening Devices Inc. 13J/KL
Knape & Vogt Mfg. Co. 18g/Kn
Knickerbocker Steel Partition Co., Inc. 22b/Kn
Knight, H. W., & Son, Inc. 6f/Kn
Knight Mfg. Co. 6f/Kni
Knight, Stanley, Corp. 26d/Kn
Knoll Associates, Inc. 23o/Kn
Knoxville Scenic Studios Inc. 23g/Kn
Koch Refrigerators, Inc. 26a/Ko
Koffler Sales Corp. 13i/Ko
Koppers Co., Inc.
–Tar Products Div. 8a/Ko
–Wolman Preservative Dept. 5d/Kop
–Wood Preserving Div. 5d/Ko
Korok Inc., Div. Enamel Products Co. 23e/Ko
Koven, L. O., & Bro., Inc. 31g/Ko
Kraloy Plastic Pipe Co. 29a/Kr
Kuhls, H. B. Fred 9/Ku
Kurdon, Inc. 19d/Ku

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LCN Closers, Inc. 18e/La
Laclede Steel Co. 2f/La
La Crosse Cooler Co. 26a/La
Lake Shore Markers Inc. 6f/La
Lake States Engineering Corp. 1a/La
Lally Bros. Co. 2g/LaL
Lally Column Co. 2g/Lay
Lambert Corp. 9/La
Lamella Roof Associates 2e/La
Lamont & Riley Co. 8g/La
Lamson Corp. 24a/La
Landon Inc. 23k/La
Larsen Products Corp.
•*concrete bonding agent* 4i/La
•*plaster bonding agent* 12e/La
Lastik Products Div., Wampum Products Inc. 2d/La
Laverne, Inc. 23o/La
Lawrence Metal Products, Inc. 6e/La
Lawrence Steel Co. 16g/La
Lawson, F. H., Co. 27d/La
Lead Industries Assn.
•*roofing and flashing* 8b/Le
•*sheet lead for plumbing* 29a/Le
Lees, James, & Sons Co. 13L/Le
LeFebure Corp. 23b/Le
Lemlar Corp.–see Lemlar Mfg. Co., Div. Lemlar Corp. 19e/Le
Lemlar Mfg. Co., Div. Lemlar Corp. 19e/Le
Lenawee Peerless, Inc. 4h/Le
Levolor Lorentzen, Inc. 19d/Lo
Levow, David 8g/Le
Lewin-Mathes Co., Div. Cerro de Pasco Corp. 29a/Lew

- Lewis Asphalt Engineering Corp. ...9/Le
- Lexsuco Inc.
  - *built-up roofing* ...8a/Le
  - *waterstops* ...9/Lex
- Libbey-Owens-Ford Glass Co.
  - *glass* ...7a/Li
  - *glass curtain wall material* ...3e/Li
  - *glass doors* ...16d/Lib
- Lightning Protection Institute ...32d/Li
- Lightolier ...33a/Lia
- Limbach Co. ...8b/Li
- –Curtain Wall Dept. ...3a/Li
- Lincoln Mfg. Co. Inc. ...26d/Li
- Lindsay Co. ...30b/Li
- Line Material Industries, McGraw-Edison Co. ...33c/Li
- Linen Supply Assn. of America ...27e/Li
- Ling-Altec Electronics, Inc.,–see Altec Lansing Corp., sub. Ling-Altec Electronics, Inc. ...34a/AL
- Lingo, John E., & Son, Inc.
- –see Acme Flagpole Div., John E. Lingo & Son, Inc. ...6g/Ac
- Litecontrol Corp. ...33a/Lie
- Litecraft Mfg. Corp. ...33a/Lin
- Livers Bronze Co. ...6e/Li
- Lockwood Hardware Mfg. Co. ...18e/Lo
- Logan-Long Co. ...8a/Lo
- Lone Star Ceramics Co. ...13c/Lo
- Lord & Burnham, Div. Burnham Corp. ...2J/Lo
- Louisville Cement Co., Inc. ...4i/Lo
- Louver-Lite Corp.
  - *louvers* ...20d/Lo
  - *sun control devices* ...19e/Lo
- Lowell Mfg. Co. ...34a/Lo
- Loxit Systems, Inc.
  - *chalkboard mounting system* ...23e/Lo
  - *floor laying systems* ...13J/Lo
- Ludlow Papers, Inc. ...8h/Lu
- Ludowici-Celadon Co.
  - *floor tile* ...13c/Lu
  - *tile roofing* ...8f/Lu
- Luminous Ceilings Inc. ...33a/Lum
- Lund, Thor, Co. Inc. ...24a/Lu
- Lynch Asbestos Co. ...7d/Ly
- Lynn-Sign Moulded Plastic Co., Inc. ...23a/Ly
- Lyon Metal Products, Inc. ...23d/Ly

m

- MacArthur Co. ...3c/Ma
- Macomber Inc. ...2f/Ma
- Macton Machinery Co., Inc. ...23g/Ma
- Mahon, R. C., Co.
  - *acoustical and troffer forms* ...2a/Ma
  - *cellular steel sub-floors* ...2b/Mah
  - *long-span structural roof decks* ...2c/Ma
  - *metal curtain walls, fire walls* ...3a/Ma
  - *rolling steel doors* ...16g/Ma
  - *steel roof decks* ...2c/Mah
- Maine Mfg. Co., –see Grade-Aid Corp., sub. Maine Mfg. Co. ...23i/Gr
- Maintenance Inc. ...9/Ma
- Majestic Co., Inc. ...31L/Ma
- Major Industries, Inc. ...25a/MaJ
- Manhattan Terrazzo Brass Strip Co., Inc. ...13g/Ma
- Mankato Stone Co. ...4c/Ma
- Mapes Industries, Inc. ...19e/Ma
- Maple Flooring Mfrs. Assn. ...13J/Ma
- Marble Institute of America, Inc. ...13f/Ma
- Marco Co. ...20a/Ma
- Marietta Concrete Div., American-Marietta Co. ...3e/Mar
- Marker Forge Co.
  - *pressure cookers* ...26c/Ma
  - *shelving* ...23c/Ma
- –Hospital Equipment Div. ...23L/Ma
- Marley Co. ...30b/Ma
- Marlo Coil Co. ...31a/Mar
- Marmet Corp.
  - *aluminum windows* ...17a/Ma
  - *doors and entrances* ...16a/Mar
- Marsh Products Corp. ...2e/Ma
- Marsh Wall Products, Inc. Sub. Masonite Corp. ...14b/Ma
- Marshall-McMurray Co. ...19d/Ma
- Martin-Fireproofing Corp.
  - *concrete roof, floor deck* ...2d/Mar
  - *insulating roof deck* ...2d/Mat
- Martin-Senour Co. ...15/Ma
- Masonite Corp.
  - *concrete forms* ...2i/Ma
  - *panel products for exterior applications* ...8b/Ma
  - *panel products for interior applications* ...14d/Mas
  - *technical data* ...8b/Mas
- –see also Marsh Wall Products, Inc., Sub. Masonite Corp. ...14b/Ma
- Master Builders Co., Div. American-Marietta Co. ...9/Mas
- Mastic Tile Corp. of America
  - *Matico floor tile* ...13i/Ma
  - *rubber and vinyl floor tile* ...13i/Mas
- –see also Hako Building Products Div., Mastic Tile Corp. of America ...13i/Hak
- –see also Wright Mfg. Co., Div. Mastic Tile Corp. of America ...13i/Wr
- Matot, D. A., Inc. ...24a/Ma
- Matthews, Jas. H., & Co. ...6f/Ma
- Matthiessen & Hegeler Zinc Co. ...8g/Mat
- Maysteel Products, Inc. ...23L/May
- Maytag Co. ...25a/May
- McGraw-Edison Co.
- –see Line Material Industries, McGraw-Edison Co. ...33c/Li
- –see Toastmaster Div., McGraw-Edison Co. ...26c/To
- McIntire, F. N., Brass Works, Inc. ...30f/Mc
- McKee Door Co. ...16i/Mc
- McKinley, O. O., Co., Inc. ...19e/Mc
- McKinley Designs ...6e/Mc
- McKinley Iron Works
  - *abrasive castings* ...13b/Mc
  - *construction castings* ...6i/Mc
  - *grilles and ventilators* ...20d/Mc
- McMillan Products Div., Hausman Steel Co. ...9/Mc

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McNaulin Inc. 28a/Mc
McPhilben Lighting Inc. 33a/Mc
McShane Bell Foundry Co., Inc. 23h/Mc
Meadow Steel Products, Inc.
•*construction accessories* 2i/Me
•*masonry wall reinforcing* 4h/Me
Meadows, W. R., Inc. 9/Me
Medart, Fred, Products, Inc. 23J/Me
Medart Lockers, Inc. 23d/Med
Medusa Portland Cement Co. 4i/Me
Mengel Co. 16c/Me
Merchant & Evans Co. 16h/Me
Mesker Brothers
•*aluminum windows and doors* 17a/Me
•*curtain walls* 3a/Me
•*hollow metal doors* 16b/Me
•*steel windows* 17b/Me
Met-L-Wood Corp. 14a/Me
Metal Lath Mfrs. Assn. 12a/Me
Metal Roof Deck Technical Institute 2c/Me
Metpar Steel Products Corp. 22b/Me
Metropolitan Brick, Inc. 4f/Me
Miami Cabinet Div., Philip Carey Mfg. Co.
•*access doors* 16J/Mi
•*bathroom accessories* 27d/Mi
•*fans* 31e/Mi
Miami Window Corp. 17a/Mi
Michaels Art Bronze Co.
•*exhibit cases* 3a/Mi
•*metal wall systems* 3a/Mic
Michel & Pfeffer Iron Works, Inc. 6e/Mi
Mid-West Chandelier Co. 33a/Mi
Miller Co. 33a/MiL
Miller Sliding Glass Door Co., Inc. 16d/Mi
Mills Co.
•*office partitions* 22a/Mi
•*toilet partitions* 22b/Mi
Milwaukee Stamping Co. 18e/Mi
–see also Ferrometal Div., Milwaukee Stamping
Co. 22b/Fe
Minneapolis-Honeywell Regulator Co.
•*air cleaners* 31d/Mi
•*controls* 31i/Mi
•*hotel/motel master systems* 34b/Mi
Minnesota Mining & Mfg. Co.,
Adhesives, Coatings & Sealers Div.
•*adhesives, flooring and wall covering* 13i/Mi
•*curtain wall sealers* 3f/Mi
Minnesota & Ontario Paper Co.,
–see Insulite Div., Minnesota & Ontario Paper
Co. 2i/Ins; 10a/Ins
Minwax Co. Inc.
•*masonry treatments* 9/Mi
•*wood finishes* 15/Min
Miracle Adhesives Corp.
•*adhesives for tile setting* 13c/Mir
•*building insulation* 10a/Mir
Mirawal Div., Birdsboro Steel Foundry & Machine Co.
•*curtain walls* 3c/Mi
•*porcelain enamel* 6d/Mi
Mississippi Glass Co. 7a/Mi
Mitchell Engineering Co. 2J/Mi
Mitchell, Lloyd E., Inc.,–see Air Path Products Co.,
Div. Lloyd E. Mitchell, Inc. 20d/Ai
Mitchell Mfg. Corp. 23i/Mi
Mitchell Rand Mfg. Corp. 8g/Mi
Modern Venetian Blinds, Div. Rodney Metals, Inc. 19d/Mo
Modernwood Co., Div. Standard Plywoods, Inc. 13J/Mo
Modu-Wall, Inc. 3a/ML
Modur Co., Div. Granux Corp. 4d/Mod
Moe Light Div., Thomas Industries, Inc. 33a/Mo
Moeschl-Edwards Corrugating Co., Inc. 16g/Mo
Monarch Elevator & Machine Co. 24a/Mo
Monarch Tile Mfg. Co. 13c/Mo
Monsanto Chemical Co., Organic Chemicals Div. 5d/Mo
Monteath, J. H., Co. 5b/Mo
Montgomery Elevator Co. 24a/Mon
Moore, Benjamin & Co. 15/Moo
Moore, Goodloe E., Inc. 10a/Mo
Moore Brothers Co. 27e/Mo
Moore, P. O., Inc., Sub. Sunroc Corp. 18e/Moo
Morgan-Francis Co., Inc.,–see Aabec Pole Div.,
Morgan-Francis, Inc. 6g/Aa
Morrison Steel Products, Inc. 16i/Mo
Morse Boulger Inc. 28a/Mo
Mo-Sai Associates, Inc. 4d/Mos
Mosaic Tile Co. 13c/Mos
Mosher Mfg. Co., Inc. 16h/Mo
Mosler Dropository Corp. 23b/Mo
Mosler Safe Co. 23b/Mos
Moultile, Inc. 13i/Mo
Moynahan Bronze Co. 3a/Mo
Mueller Brass Co. 29a/Mu
–see also Valley Metal Products Co., Sub. Mueller
Brass Co. 3a/Va; 16a/Va; 17a/Va
Mueller Climatrol, Div. Worthington Corp. 31b/Mu
Mueller Steam Specialty Co., Inc. 29a/Mue
Muellermist Irrigation Co. 30e/Mu
Multi-Clean Products, Inc. 13m/Mu
Multi Electric Mfg., Inc. 33a/Mu
Munchhausen Soundproofing Co., Inc. 16m/Mu
Munro Waterproofings, Inc. 9/Mu
Murals Inc. 13c/Mu
Murray Tile Co. Inc. 13c/Mur
Musson, R. C., Rubber Co. 13i/Mu
Muzak Corp. 34a/Mu

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Narragansett Gymnasium Equipment Co. 23k/Na
Nash, Cadmus & Voelker Inc. 28a/Na
Natco Corp. 4f/Na
National Building Granite Quarries Assn., Inc. 4a/Na
National Chemical & Mfg. Co. 15/Na
National Cotton Council
–see Canvas Awning Institute Inc. 19e/Ca
National Dryers,–see World Dryer Corp. 27e/Wo
National Electric Div., H. K. Porter Co. 32b/Na
National Folding Wall Corp. 22d/Na

National Gypsum Co.
•*asbestos-cement roofing, shingles, siding* 8c/Na
•*gypsum plasters and lime* 12e/Na
•*gypsum roof decks* 2d/Na
•*gypsum wallboard* 12c/Nat
•*insulation products* 10a/Na
•*metal lath, gypsum lath* 12a/Na
•*paint* 15/Nat
•*panels, roofing, siding* 8b/Na
•*sound control* 11a/Na
National Lime Assn. 4i/Na
National Mfg. Co. 18d/Nat
National Metallic Sash Co. 17b/Na
National Oak Flooring Mfrs.' Assn. 13J/Na
National Plastic Products Co. 14a/Na
National Rubber Machinery Co., Plumbing Equipment Div. 26b/Na
National Slag Assn. 4i/Nat
National Steel Corp.,–see Stran-Steel Corp., Div. National Steel Corp. 2f/Str
National Steel Partition Co., Inc. 22a/Na
National Store Fronts Co. Inc. 16a/Nat
National Supply Co.,–see Spang Underfloor Duct Dept., National Supply Co. 32b/Sp
National System of Garage Ventilation, Inc. 31e/Na
National Terrazzo & Mosaic Assn., Inc. 13g/Na
National Tile & Mfg. Co. 13c/Na
National-U.S. Radiator Corp.,–see Pacific Steel Boiler Div., National-U.S. Radiator Corp. 31g/Pa
Natural Slate Blackboard Co. 23e/Na
Naturalite, Inc. Marketing Agency of Plastic Products of Texas 20a/Na
Neenah Foundry Co. 6i/Ne
Nelco Metalcraft, Inc. 6f/Ne
Nelson, A. R., Co., Inc. 23d/Ne
–Hospital Div. 22c/Ne
Nelson-Harkins Industries
–see ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
–see ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Nelson Metalcraft Co.,–see Nelco Metalcraft, Inc. 6f/Ne
Neo-Ray Products, Inc. 33a/Ne
New Castle Products, Inc.
•*doors* 16e/Ne
•*sound retardant folding partitions* 22d/Ne
–Coated Fabric Div. 13k/Ne
–see also Air Door, Inc., Div. New Castle Products, Inc. 16L/Ai
New England Lead Burning Co., Inc. 22e/Ne
New York Air Brake Co.,–see Aurora Pump Div., New York Air Brake Co. 30a/Au
New York Silicate Book Slate Co., Inc.
•*bulletin boards* 23a/Ne
•*chalkboards* 23e/Ne
Newman Brothers, Inc.
•*aluminum railings* 6e/New
•*curtain walls* 3a/Ne
•*doors* 16a/Ne
•*tablets and letters* 6f/New

Nicholson, W. H., & Co.,–see Robart Partitions, Inc. 22b/Ro
Nik-O-Lok Co. 22b/Nik
Norman Products Co. 31h/No
North American Aviation, Inc. 3a/No
North American Cement Corp. 4i/No
North American Iron & Steel Co., Inc. 6g/No
North Bangor Slate Co. 8e/No
North Carolina Granite Corp. 4a/No
Norton Co. 13g/No
Norton Door Closer Co., Div. Yale & Towne Mfg. Co.
•*interior door closers* 18e/No
•*overhead electric door operators* 18e/Nor
Norwalk Door Closer Co., Inc. 18e/Now
Notifier Corp. 34a/No
Nova Sales Co., Sub. Homasote Co. 8d/No
NuTone, Inc. 25a/Nu

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O'Connor, Thomas, & Co., Inc. 35/Oc
Octagon Ventilator Co. 20c/Oc
O'Hara Incinerator Co. 28a/Oh
Olin Mathieson Chemical Corp., Metals Div. 6a/OL
–see also Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp. ... 2i/Ram
Olson, Samuel, Mfg. Co., Inc., Div. Cherry-Burrell Corp. 26d/OL
Omark Industries, Inc. 2i/Om
Omnia Construction Corp. 2d/Om
Onan, D. W., & Sons Inc. 32c/On
Orangeburg Mfg. Co., Div. Flintkote Co.
•*conduit* 32b/Or
•*pipe and fittings* 29a/Or
•*underfloor duct system* 32b/Ora
Oregon Brass Works 6f/Or
Otis Elevator Co. 24a/Ot
Overdoors Inc. 16i/Ov
Overhead Door Corp. 16i/Ove
Overly Mfg. Co.
•*architectural metal products* 8b/Ov
•*doors and frames* 16b/Ov
Owens-Corning Fiberglas Corp.
•*built-up roofing* 8a/Ow
•*curtain wall insulation* 3f/Ow
•*fenestration fabrics* 19d/Ow
•*form board* 2d/Ow
•*high and low temperature insulations* 10c/Ow
•*insect screening* 19a/Ow
•*noise control products* 11a/Ow
•*polarized light panels* 33b/Ow
•*roof insulation* 10a/Ow
Owens-Illinois
•*curtain walls* 3e/Ow
•*glass blocks* 7b/Ow
Owens-Illinois Plywood Co.
•*flush doors* 16c/Ow
•*movable partitions* 22a/Ow

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Pabco Floor Covering Div., Fibreboard Paper Products Corp.	13i/Pa
Pacific Lumber Co.	5a/Pa
Pacific Rolling Door Co.	16g/Pa
Pacific Steel Boiler Div., National-U.S. Radiator Corp.	31g/Pa
Packard-Bell,–see Bellwood Co. of California, Div. Packard-Bell	16c/Be
Page Fence Assn.	22g/Pa
Paine Lumber Co., Ltd.	16c/Pa
Pam Co.	20a/Pa
Panaview Window Co., Inc.	17a/Pa
Panel-Matic Inc.	22a/Pan
Panel Structures, Inc.	3e/Pa
Panelfab Products, Inc.	16a/Pan
Panelfold Doors, Inc.	16e/Pa
Panelyte Div., St. Regis Paper Co.	14a/Pa
Paragon Electric Co.	32a/Pa
Paragon Swimming Pool Co., Inc.	23k/Par
Pardee, C. G., Co., Inc.	9/Pa
Parkay Div.,–see Wood-Mosaic Corp., Parkay Div.	13J/Wo
Parker, Charles, Co.	27d/Pa
Parkersburg-Aetna Corp.,–see Parkersburg Rig & Reel Co., Div. Parkersburg-Aetna Corp.	2J/Pa
Parkersburg Rig & Reel Co., Div. Parkersburg-Aetna Corp.	2J/Pa
Parkwood Laminates, Inc.	14a/Par
Parr Paint & Color Co., Compound Div.	3f/Pa
Partitions, Inc.	22a/Par
Paulding, John I., Inc.	32b/Pau
Pauly Jail Building Co.	23m/Pa
Pawling Rubber Corp.	
•*curtain wall sealants*	3f/Paw
•*rubber mats*	13i/Paw
Pecora, Inc.	
•*ceramic tile adhesives*	13c/Pe
•*products for building*	3f/Pe
Peelle Co.	
•*elevator doors*	24c/Pe
•*hangar doors*	16h/Pe
•*nuclear doors*	16m/Pee
•*pass windows, conveyor doors*	26d/Pe
–see also Richmond Fireproof Door Co.	16g/Ri
Peelle Co., Peelle Motorstair Div.	24a/Pee
Peerless Electric Co.	31e/Pe
Peerless Mfg. Div., Dover Corp.,–see Dura-Vent Corp.	31f/Du
Pellerin Milnor Corp.	27g/Pe
Penco Div., Alan Wood Steel Co.	23d/Pe
Penn Metal Co., Inc.	
•*gratings*	13a/Pe
•*metal lath*	12a/Pe
•*movable partitions*	22a/Pe
•*structural sections*	2f/Pe
Penn Ventilator Co., Inc.	20c/Pe
Pennsylvania Wire Glass Co.	7a/Pe
Penokee Veneer Co., –see Splicedwood Corp.	5b/Sp; 16c/Sp
Perlite Institute	
•*concrete aggregates*	12d/Pe
•*plaster aggregates*	12d/Pe
Perma-Top Co.	28a/Pe
Permaglas Div.,–see Smith, A. O., Corp., Permaglas Div.	30c/Sm
Perry-Briggs Co.	34a/Pe
Peterson Window Corp.	17a/Per
–see also Sapphire Div., Peterson Window Corp.	17a/Sa
Pfaff & Kendall	33c/Pf
Philipp Mfg. Co.	16b/Ph
Phillips Drill Co.	2i/Ph
Phoenix Building Products, Inc.	8g/Ph
Pinecrest, Inc.	19d/Pi
Pinnacle Products Co. Inc.	8a/Pi
Pinner, L. A., Steel Forms,–see Steel Forms, Inc.	2a/St
Pioneer Fireproof Door Corp.	
•*fire doors*	16b/Pi
•*soundproof doors*	16m/Pi
Pioneer Plastics Corp.	14a/Pi
Pioneer Products Div.,–see Witco Chemical Co. Pioneer Products Div.	10d/Wi
Pi-Plank Div., Prestressing, Inc.	2d/Pi
Pistol, A. W., Inc.	33a/Pi
Pittsburgh Corning Corp.	
•*building insulation*	10a/Pi
•*glass block curtain walls*	3e/Pi
•*glass blocks*	7b/Pi
Pittsburgh-Des Moines Steel Co.	23J/Pi
Pittsburgh Plate Glass Co.	
•*door operators*	18e/Pi
•*glass-clad curtain wall systems*	3e/Pit
•*glass doors and frame assemblies*	16d/Pi
•*glass products*	7a/Pi
•*paint*	15/Pi
•*store fronts*	21/Pi
•*structural glass*	13e/Pi
•*tubular doors*	16a/Pi
Pittsburgh Steel Co.,–see Pittsburgh Steel Products, Div. Pittsburgh Steel Co.	2a/Pi; 12a/Pi
Pittsburgh Steel Products, Div. Pittsburgh Steel Co.	
•*metal lath*	12a/Pi
•*permanent steel forms*	2a/Pi
•*reinforcing mesh*	2a/Pit
Plasteco, Inc.	20a/PLa
Plasteel Products Corp.	8b/PL
Plastic Products of Texas,–see Naturalite, Inc., Marketing Agency of Plastic Products of Texas	20a/Na
Plibrico Co.	28a/PL
Plywall Products Co., Inc.	14b/PL
Plywood Co.	5b/PL
Poblocki & Sons Co.	23e/Po
Pomeroy, S. H., Co.	
•*air conditioner, radiator enclosures*	31h/Po
•*aluminum windows*	17a/Po
•*steel windows*	17b/Po
–see also Unique Balance Div., S. H. Pomeroy Co.	18a/Un; 23e/Un

Pomona Tile	13c/Po
POrete Mfg. Co.	2d/Po
Porter Athletic Equipment Co., Div. Waco Mfg. Co.	23k/Por
Porter, H. K., Co., Inc.	
–see Connors Steel Div., H. K. Porter Co., Inc.	2d/Cor
–see National Electric Div., H. K. Porter Co.	32b/Na
Porterfield Industries Inc.	17a/Por
Portland Cement Assn.	4i/Po
Potter Fire Escape Co.	6h/Po
Potts Ash Hoist Corp.	24d/Po
Powell Steel Lath Corp.	12a/Po
Powers Regulator Co.	27b/Po
Pratt & Lambert-Inc.	15/Pr
Precision Hardware, Inc.	18f/Pr
Precision Parts Corp.	
•*electric boilers*	31g/Pr
•*electric stairway*	23n/Pr
Preco Chemical Corp., Building Products Div.	13h/Pr
Premier Panels, Inc.	3e/Pr
Premium Brand Insulation Group	10a/Pr
Prescolite Mfg. Corp.	33a/Pr
Prescon Corp.	2d/Pr
Presstite Div. American Marietta Co.	3f/Pre
Prestressing, Inc.,–see Pi-Plank Div., Prestressing, Inc.	2d/Pi
Preway, Inc.	25a/Pr
Price Brothers Co.,–see Flexicore Co., Inc.	2d/FL
Pricemetal Corp.	22b/Pri
Products Research Co.	3f/Pro
Progressive Metal Equipment Co.	26d/Pr
Providence Granite Co., Inc.	4a/Pr
Pruden Products Co.	2e/Pr
Puffer Hubbard Refrigerator Co.	26a/Pu
Pyro Incinerator & Supply Co.	28a/Py

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R.C.A. Rubber Co.	13i/Ra
R. O. W. Sales Co.	17c/Ro
Rackle, George, & Sons Co.	2d/Ra
Radio Corp. of America	34a/Ra
Rambusch	
•*design service*	23h/Ra
•*lighting fixtures*	33a/Ra
Ramset Fastening System, Winchester-Western Div., Olin Mathieson Chemical Corp.	2i/Ram
Ray Proof Corp.	22e/Ra
Raymond Concrete Pile Co., Div. Raymond International Inc.	1a/Ra
Raymond International Inc.,–see Raymond Concrete Pile Co., Div. Raymond International Inc.	1a/Ra
Raynor Mfg. Co.	16i/Ray
Rebco, Inc.	21/Re
Recreation Equipment Corp.	23k/Re
Rector Mineral Trading Corp.	10b/Re
Red Cedar Shingle Bureau	
•*handsplit red cedar shakes*	8d/Red
•*red cedar shingles and shakes*	8d/Re
Redondo Tile Co.,–see Stylon Corp.	13c/Sty
Reflectal Corp., sub. Borg-Warner Corp.	
•*reflective insulation*	10a/Re
•*sunscreen*	19e/Re
Reflecto-Barrier Sales Co., Inc.	8a/Re
Reilly Tar & Chemical Corp.	8a/Re
Reliance Steel Products Co.	13a/Re
Reliance Window Corp.	
–see Williams & Williams Products Corp.	3a/Wi; 17b/Wi
Remington Rand, Div. Sperry Rand Corp.	
•*library equipment*	23f/Re
•*office furniture*	23o/Re
Republic Industries, Inc.,–see Dor-O-Matic, Div. Republic Industries, Inc.	18e/Do; 18f/Dor
Republic Steel Corp.	
•*pipe*	29a/Rep
•*sheet metal*	6c/Re
–see also Truscon Steel Div., Republic Steel Corp.	2f/Tr; 3d/Tr; 12a/Tr; 16b/Trs; 16h/Tr; 17a/Tru; 17b/Tr
–Berger Div.	
•*gutters, leaders*	8g/Re
•*lockers*	23d/Re
–Steel & Tubes Div.	
•*conduits*	32b/Re
•*structural steel tubing*	2f/Re
Resolite Corp.	7d/Re
Restoration Co., Inc.,–see Western Waterproofing Co., Inc.	9/Wet
Reuten, Fred, Inc.	17c/Re
Reuter, M., & Sons	16b/Re
Revco Inc.	25a/Rev
Revere Copper & Brass Inc.	
•*aluminum shapes*	6a/Ra
•*gravel stops*	8g/Rea
•*pipe and tube*	29a/Rev
•*roofing and flashing*	8b/Re
Reynolds Metals Co.	
•*acoustical systems*	11a/Re
•*aluminum curtain walls*	3a/Rey
•*aluminum rigid conduit*	32b/Rey
•*aluminum wall systems*	3a/Rez
•*aluminum windows*	17a/Rey
•*architectural shapes*	6a/Re
•*commercial roof deck*	8b/Ree
•*copings, gravel stops*	8g/Rez
•*corrugated roofing and siding*	8b/Rey
•*insulated curtain wall systems*	3a/Re
•*ribbed siding*	8b/Reo
•*V-beam roofing and siding*	8b/Ren
Rez Wood-Tones, Inc.	15/Re
Reznor Mfg. Co.	31c/Rez
Rheem Mfg. Co.,–see Richmond Plumbing Fixtures Div., Rheem Mfg. Co.	27a/Ri
Rice, Chas. W., & Co., Inc.	19c/Ri
Richards, J. Merrill	7a/Ri

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Richards-Wilcox Mfg. Co.
•*folding partitions* 22d/Ri
•*hardware and doors* 16h/Ri
–School Equipment Div. 23d/Ri
Richmond Fireproof Door Co.
•*doors* 16b/Ri
•*pass windows* 16g/Ri
Richmond Plumbing Fixtures Div., Rheem Mfg. Co.. . 27a/Ri
Richmond Screw Anchor Co., Inc. 2i/Ri
Ridge Door Co. 16i/Rid
Riesner Vent Brick Corp. 20d/Ri
Rigid Metal Products Inc. 21/Ri
Rigidized Metals Corp. 6c/Ri
Rilco Laminated Products, Inc. 2e/Ri
Rising & Nelson Slate Co., Inc. 8e/Ri
Rixson, Oscar C., Co. 18e/Ri
Roanoke Iron & Bridge Works, Inc. 23m/Ro
Robart Partitions, Inc. 22b/Ro
Robberson Steel Co. 35/Ro
Robbins & Myers, Inc.
–see Hunter Div., Robbins & Myers, Inc. 31h/Hu
–see Trade Wind Div., Robbins & Myers, Inc. 31e/Tr
Robbins Floor Products, Inc. 13i/Ro
Robbins Flooring Co.
•*gymnasium floors* 13J/Rob
•*hardwood floors* 13J/Ro
Robertson, H. H., Co.
•*curtain walls, panels* 3c/Ro
•*Q-Deck, Q-Floor* 2b/Ro
Robertson Mfg. Co., Tile Div. 13c/Ro
Robinson, J. G., Inc. 4c/Ro
Rochester Germicide Co. 27e/Ro
Rockwell-Standard Corp., Grating Div. 13a/Ro
Roddis Plywood Corp.
•*doors* 16c/Ro
•*plywoods* 5b/Ro
–see also Owens-Illinois Plywood Co.. 16c/Ow; 22a/Ow
Rodney Metals, Inc.,–see Modern Venetian Blinds,
Div. Rodney Metals, Inc. 19d/Mo
Rogers Insulating & Roofing Co., Inc.,–see Aaer-Sprayed Insulations Inc., Div. Rogers Insulating & Roofing Co., Inc. 10a/Aa
Rohm & Haas Co. 7d/Roh
Rol-Fol-Table Inc. 23i/Ro
Rollform Inc. 11a/Ro
Rolscreen Co.
•*folding doors* 16e/Ro
•*windows* 17c/RoL
Roman Metal Products, Inc. 16d/Ro
Ross Heat Exchanger Div.,–see American-Standard Industrial Div. 31a/Ame
Rossbach & Sons, Inc. 17a/Ro
Rotary Lift Co., Div. Dover Corp.
•*freight and passenger elevators* 24a/Ro
•*rising stages* 23g/Ro
Rowe Mfg. Co. 16i/Ro
Royal Metal Mfg. Co.,–see Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Royal Tile Mfg. Co. 13c/Roy
Rubatex Div., Great American Industries, Inc.
•*building insulation* 10b/Ru
•*closure strips* 8b/Ru
Rubber & Plastics Compound Co., Inc. 8g/Ru
Ruberoid Co.
•*asbestos and asphalt shingles* 8c/Ru
•*built-up roofing* 8a/Ru
Rudel Floor Strip Co., Inc. 13g/Ru
Russell, Burdsall & Ward Bolt & Nut Co. 2h/Ru
Russell, F. C., Co. 17a/Ru
Rust-Oleum Corp. 15/Ru
Ruud Mfg. Co. 30c/Ru
Ryerson, Jos. T., & Son, Inc. 2d/Ry
Rysdon Products Co.,–see Firebar Door Div. Rysdon Products Co. 16m/Fi
Ryther-Purdy Lumber Co., Inc. 33c/Ry

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Safway Steel Products, Inc. 23J/Sa
Saino, F. L., Mfg. Co. 16b/Sa
St. Charles Mfg. Co.
•*hospital casework* 23L/Sa
•*kitchen cabinets* 25b/Sa
•*school storage furniture* 23i/Sa
St. Louis Fire Door Co. 16h/Sa
St. Paul & Tacoma Lumber Co. 2i/Sai
St. Regis Paper Co.,–see Panelyte Div., St. Regis Paper Co. 14a/Pa
Samson Window Corp. 3a/Sa
Sandell Mfg. Co., Inc. 8g/Sa
Sandura Co. 13i/Sa
Sanymetal Products Co., Inc. 22b/Sa
Sapphire Div., Peterson Window Corp. 17a/Sa
Sargent Building Specialties Inc., Equal-Aire Incinerator Div. 28a/Sar
Sargent & Co. 18e/Sa
Sargent & Greenleaf, Inc. 18f/Sa
Saxe Welded Connections 2h/Sa
Sayre & Fisher Co., Brick Div. 4f/Sa
Schacht Associates, Inc. 16d/Sc
Schenectady Concrete Products Co., Inc. 2d/Sc
Schieber Sales Co. 23i/Sc
Schlage Lock Co. 18e/Sc
Schlegel Mfg. Co.
•*door weatherstripping* 16a/Sc
•*window weatherstripping* 17a/Sc
Schless, Robert A., & Co., Inc. 23c/Sc
School Equipment Mfg. Corp.,–see Grade-Aid Corp., sub. Maine Mfg. Co. 23i/Gr
School Supply Co. 23d/Sc
Schulmerich Carillons Inc. 23h/Sc
Schundler, F. E., & Co., Inc. 10a/Sc
Schwab Jalousie & Awning Co., Inc. 17d/Sc
Schwerd, A. F., Mfg. Co. 5c/Sc
Scott Paper Co. 27e/Sc
Seamloc Carpet Co. 13L/Se
Seaporcel Metals, Inc. 3c/Se

Seco Mfg., Inc.	30f/Se
Security Fire Door Co.	
• *doors*	16h/Se
• *elevator doors*	24c/Se
Security Metal Products Corp.	16b/Se
Security Products Co.	17a/Se
Sedgwick Machine Works	24a/Se
Selby, Battersby & Co.	13i/Se
Select-O-Phone Div., –see Kellogg Switchboard & Supply Co.	34a/Ke
Self Storing Window Co., Inc., –see DeVAC, Inc.	17a/Dev
Sellers Engineering Co.	30c/Se
Servicised Products Corp.	2i/Se
Shampaine Co.	23L/Sh
Shaw-Walker	23b/Sh
Sheffield Div., Armco Steel Corp.	2f/Sh
Shell Chemical Corp., Agricultural Chemical Sales Div.	5d/Sh
Shepard Elevator Co., Div. Dover Corp.	24a/Sh
Sherron Metallic Corp.	34a/Sh
Sherwin-Williams Co.	15/Sh
Shlagro Steel Products Corp.	2f/ShL
Siegler Corp.,–see Bogen-Presto Co., Div. Siegler Corp.	34a/Bo
Siems Bros., Inc., –see Trussbilt Div. Siems Bros. Inc.	16b/Tru
Sika Chemical Corp.	9/Si
Simes Co., Inc.	33a/Sim
Simix Co.	27b/Si
Simmons Co.	23i/Sim
Simplex Ceiling Corp.	
• *acoustical ceiling systems*	11a/Si
• *radiant heating panels*	31b/Si
Simplex Time Recorder Co.	34b/Si
Simpson Co.	2i/Si
Simpson Logging Co.	
• *acoustical materials*	11a/Sim
• *flush doors*	16c/Si
• *plywood products*	5b/Si
Sinko Mfg. & Tool Co.	33a/Sin
Sloan Valve Co.	27b/SL
Smith, A. O., Corp., Permaglas Div.	30c/Sm
Smith, Elwin G., & Co., Inc.	
• *corrugated sheets*	8b/Sm
• *curtain walls*	3a/Sm
• *forms for concrete*	2a/Sm
• *insulated curtain walls and roofs*	8b/Smi
• *roof decking*	2c/Sm
Smith & Kanzler Corp.	
• *fireproofing*	16e/Sm
• *insulation*	10a/Sm
Smithcraft Lighting	33a/Sm
Smyser-Royer Co.,–see J. W. Fiske Architectural Metals, Inc.	6e/Fi
Solux Corp.	33a/So
Son-Nel Products Co.	
• *chalkboards*	23e/So
• *folding tables and benches*	23i/So
Sonneborn, L., Sons, Inc.	9/So
Sonoco Construction Products, Sonoco Products Co.	
• *concrete column forms*	2i/Son
• *fibre ducts*	31f/Son
• *hollow concrete deck forms*	2d/Son
Sonoco Products Co.,–see Sonoco Construction Products, Sonoco Products Co.	2d/Son; 2i/Son; 31f/Son
Soss Mfg. Co.	18e/So
Soulé Steel Co.	
• *aluminum and steel curtain walls*	3a/So
• *aluminum windows*	17a/So
Southern Coatings and Chemical Co.	15/So
Southern Equipment Co.	26d/So
Southern Sash Sales & Supply Co., Inc.	
• *aluminum curtain walls*	3a/Sou
• *aluminum windows*	17a/Sou
Southern Steel Co.	23m/So
Southern Wood Preserving Co.	13J/Sou
Southwell Co.	6f/So
Spang Underfloor Duct Dept., National Supply Co.	32b/Sp
Spanjer Bros., Inc.	6f/Sp
Sparta Ceramic Co.–see United States Ceramic Tile Co.	13c/Un
Speakman Co.	27b/Sp
Spencer Industries, Inc.	
• *bulletin boards*	23a/Sp
• *metal letters*	6f/Spe
Sperry Rand Corp.,–see Remington Rand, Div. Sperry Rand Corp.	23f/Re; 23o/Re
Splendor Corp.	16e/Sp
Splicedwood Corp.	
• *doors*	16c/Sp
• *plywood*	5b/Sp
Sprayon Insulation & Acoustics, Inc.	11a/Sp
Springwood Floor System	13J/Sp
Spronz Incinerator Corp.	28a/Sp
Standard Coated Products, Inc.	13k/St
Standard Conveyor Co.	24d/St
Standard Dry Wall Products, Inc.	9/St
Standard Fire Hose Co.	30f/St
Standard Plywoods, Inc.,–see Modernwood Co., Div. Standard Plywoods, Inc.	13J/Mo
Standard Pressed Steel Co.	23i/St
Standard Products Co.	3f/St
–see also Clark Div., Standard Products Co.	17b/CLa
Standard Tile Co., Inc.	13c/San
Standard-Toch Chemicals Inc., –see Toch Brothers, Div. Standard-Toch Chemicals, Inc.	9/To
Stanley Electric Mfg. Co.	33a/St
Stanley Hardware, Div. Stanley Works	18e/Sta
Stanley Works,–see Stanley Hardware, Div. Stanley Works	18e/Sta
Stark Ceramics, Inc.	4f/St
Steel City Electric Co.	32b/St
Steel Door Corp.,–see Berry Door Corp.	16i/Be
Steel Forms, Inc.	2a/St
Steel Joist Institute	2f/St

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Steel Partitions Inc. 22a/St
Steel Window Institute 17b/St
Steelcraft Mfg. Co. 16b/Ste
Steele, Oliver C., Mfg. Co. 19c/St
Steiner Co. 27e/St
Sterling, John, Corp. 18d/Ste
Stero Dishwashing Machine Mfg. Co. 26b/St
Stevens & Thompson Paper Co., Inc. 27e/Ste
Stewart Iron Works Co., Inc. 23m/St
Stic-Klip Mfg. Co., Inc. 16k/St
Stiles-Karlsonite Corp. 30b/St
Stillwater Clay Products Co. 29a/Sti
Stonco Electric Products Co. 33a/Sto
Storagewall 23i/Sto
Straits Products, Inc. 16e/St
Stran-Steel Corp., Div. National Steel Corp. 2f/Str
Stromberg-Carlson Co. 34a/Str
Structural Clay Products Institute,
–see Facing Tile Institute 4f/Fa
Structural Products, Inc. 23c/St
Structural Slate Co. 4c/St
Structoglas Div.,–see International Molded Plastics,
  Inc., Structoglas Div. 7d/In
Structural Clay Products Institute,–see Architectural
  Terra Cotta Institute 4e/Ar
Struthers Wells Corp.,–see Titusville Iron Works Co.,
  Div. Struthers Wells Corp. 31g/Ti
Studebaker-Packard Corp.–see Gering Plastics Div.,
  Studebaker-Packard Corp. 9/Ger
Sturtevant Div.,–see Westinghouse Electric Corp.,
  Sturtevant Div. 31a/We
Stylon Corp. 13c/Sty
Sulzer Bros. Ltd 16L/Su
Summitville Tiles, Inc. 13c/Sum
Sun Chemical Corp.,–see A. C. Horn Cos., Subs. &
Divs. Sun Chemical Corp. 9/Ho
Sun-Tron Corp. 31h/Su
Sun Valley Industries, Inc. 16d/Su
Sun Vertikal Blind Co. 19d/Su
Sunbeam Lighting Co. 33a/Sun
Sunlight Metal Products Co.
• *aluminum windows* 17a/Su
• *curtain walls* 3a/Su
Sunroc Corp. 30d/Su
–see also Moore, P. O., Inc., sub. Sunroc Corp. .. 18e/Moo
  Super Sky Products Co., Div. Super Steel
  Products Co. 20b/Su
Super Steel Products Co.,–see Super Sky Products
  Co., Div. Super Steel Products Co. 20b/Su
Superior Concrete Accessories, Inc. 2i/Su
Superior Fireplace Co. 31L/Su
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Superior Rubber Mfg. Co. 13i/Su
Superior Window Co.
• *aluminum awning windows* 17a/Sup
• *aluminum windows* 17a/Sur
Superior Wire & Iron Products, Inc. 22f/Su
Superior Woodwork Co. 16c/Su
Supersine Co. 6f/Su
Surface Combustion Corp.,–see Janitrol Heating &
  Air Conditioning Div., Surface Combustion
  Corp. 31b/Ja
Surface Engineering Co., Inc. 15/Su
Sussman, J. 17a/Sus
Suttle Equipment Corp. 34a/Su
Swartzbaugh Mfg. Co. 26d/Sw
Swedish Crucible Steel Co., Plastics Div. 27a/Sw
Sylvania Electric Products, Inc. 33a/Sy
Symmons Engineering Co. 27b/Sy
Symons Clamp & Mfg. Co. 2i/Sy

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T & S Brass & Bronze Works Inc. 27b/Ta
Tablet & Ticket Co.
• *building directories* 23a/Ta
• *changeable letter signs and letters* 23a/Tab
Taylor, Halsey W., Co. 30d/Ta
Taylor Clay Products, Inc.,–see Isenhour Brick & Tile
  Co. 4f/Is
Teco-Tested Plywood 5b/Te
Tectum Corp.
• *acoustical ceilings* 11a/Te
• *form plank* 2a/Te
• *roof planks* 2d/Te
Teleflex Inc. 18b/Te
Tempo Valve Co. 27b/Te
Temprite Products Corp. 30d/Te
Tennessee Stone Co., Inc. 4c/Ten
Textron Metals Co. 17a/Te
Thermo-Base Div.–see Gerwin Industries, Inc. 31f/Ge
Ther-Mo Roof, Inc. 8a/Th
Thiokol Chemical Corp. 7e/Th
Thomas Industries, Inc.
–see Moe Light Div., Thomas Industries, Inc. 33a/Mo
Thompson, E. A., Co., Inc. 9/Th
Thru-Vu Vertical Blind Corp. 19d/Th
Thrush, H. A., & Co. 31i/Th
Tiger Brands Inc., Div. Basic Inc. 11a/Tig
Tile Contractors' Assn. of America 13c/Ti
Tile Council of America, Inc. 13c/TiL
Tile-Tex Div.,–see Flintkote Co., Flooring &
  Adhesive Div. 13i/FL
Timber Structures, Inc. 2e/Tim
Titus Mfg. Corp.
• *air conditioning outlets* 31f/Ti
• *grilles and louvers* 31f/Tit
Titusville Iron Works Co., Div. Struthers Wells
  Corp. 31g/Ti
Tnemec Co., Inc. 15/Tn
Toastmaster Div., McGraw-Edison Co. 26c/To
Toch Brothers, Div. Standard-Toch Chemicals, Inc. .. 9/To
Toledo Desk & Fixture Co. 25b/To
Toledo Scale Corp. 26b/To
Torjesen, Inc. 22d/To
–see also Bar-Ray Products, Inc. 22e/Ba
–see also Capitol Cubicle Co., Inc. 22c/Ca
Townsend Co., Engineered Fasteners Div. 8b/To

Trade-Wind Div., Robbins & Myers, Inc. 31e/Tr
TransWall Coated Products, Div. Waco Mfg. Co..16e/Tr
Treadway Corp. 18e/Tr
Tremco Mfg. Co.
•*flooring products* 9/Tr
•*sealants for curtain walls* 3f/Tr
Tretol Inc. 9/Tre
Triangle Millwork & Supply Corp. 22a/Tr
Trinity White Dept.,–see General Portland Cement
Co., Trinity White Dept. 4i/Ge
Trio Industries Inc. 17a/Tr
Tropicraft of San Francisco 19d/Tro
Troy Laundry Machinery Div., American Machine &
Metals, Inc. 27g/Tr
Truscon Laboratories,
Div. Devoe & Raynolds Co., Inc. 9/Tru
Truscon Steel Div., Republic Steel Corp.
•*aluminum windows* 17a/Tru
•*industrial doors* 16h/Tr
•*interior doors* 16b/Trs
•*metal lath* 12a/Tr
•*steel windows* 17b/Tr
•*structural products* 2f/Tr
•*window walls* 3d/Tr
Trussbilt Div., Siems Bros., Inc.................16b/Tru
Tubular Products, Inc. 2g/Tu
Twenty Mule Team Products Div., United States
Borax & Chemical Corp.......................27e/Ty
Tyler Refrigeration Corp. 26a/Ty

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Uni-Crest Div., United Cork Cos. 10a/Un
Union Asbestos & Rubber Co.,–see Espro Tubing,
Div. Union Asbestos & Rubber Co...............2f/Es
Union Carbide Corp.,–see Visking Co.,
Div. Union Carbide Corp.........................9/Vi
Union Metal Mfg. Co.
•*lighting standards* 33c/Un
•*piling* 1b/Un
Unique Balance Div., S. H. Pomeroy Co.
•*chalkboards* 23e/Un
•*sash balances* 18a/Un
Unique Window Balance Corp.,–see Unique Balance
Div., S. H. Pomeroy Co. 18a/Un
Unistrut Products Co. 22a/Ui
Unit Structures, Inc. 2e/Un
United Cork Cos.,–see Uni-Crest Div., United
Cork Cos. 10a/Un
United States Borax & Chemical Corp.,–see Twenty
Mule Team Products Div., United States Borax
& Chemical Corp. 27e/Ty
United States Bronze Sign Co., Inc. 6f/Un
United States Ceramic Tile Co. 13c/Un
–see also Ceramic Tile Panels, Inc., Sub. United
States Ceramic Tile Co. 3e/Ce
United States Flagpole & Equipment Co., Inc......6g/Un
U.S. Flexible Metallic Tubing Co.,–see Keflex Mfg.
Div., U.S. Flexible Metallic Tubing Co. 29a/Ke

United States Gypsum
•*acoustical plasters* 11a/Uni
•*expanded metal* 6e/Un
•*expanded metal grating* 13a/Un
•*gypsum lath, metal lath*.......................12a/Un
•*gypsum partition tile* 12c/Un
•*gypsum plasters and finishing limes*............12e/Un
•*gypsum roof deck* 2d/Un
•*gypsum wallboard* 12c/Uni
•*insulations* 10a/Uni
•*masonry lime* 4i/Un
•*metal edge gypsum roof plank*...................2d/Uni
•*movable partitions* 22a/Un
•*paints* 15/Un
•*sound control products* 11a/Un
•*steel roof deck* 2c/Uni
United States Incinerator Corp...................28a/Un
U.S. Louver Corp. 20d/Un
United States Mineral Wool Co.,
–see Columbia Acoustics & Fireproofing Co., Sub.
United States Mineral Wool Co. 11a/Co; 12e/Co
United States Plywood Corp.
•*chalkboards* 23e/Uni
•*fillers, stains* 15/Uni
•*partitions* 22a/Uni
•*plastic wall coverings* 13k/Un
•*plywood* 5b/Un
•*wood doors* 16c/Un
•*wood paneling* 13k/Uni
United States Register Co. ....31f Un
United States Rubber Co.........................13L/Un
–see also Naugatuck Chemical Div.,
US Rubber Co. 14b/Na
United States Steel
–see American Bridge Div., United States Steel
Corp. 2f/Am
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graphite
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cellular steel
steel
steel—acoustic or insulating
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wood or wood fiber—acoustic or insulating

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concrete
concrete—forms for hollow core
concrete—lightweight
gypsum
gypsum—forms for
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concrete
concrete—acoustic or insulating
concrete—lightweight
concrete—nailable
fiber—acoustic or insulating
gypsum
wood or wood fiber—acoustic or insulating

roof insulation 10

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aggregates for
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roofing 8

aluminum
aluminum foil
asbestos-cement
asbestos-cement—insulated
asphalt—block, plank or tile
built-up—cold process
built-up—edge assembly for
built-up—fire-retardant
built-up—hot process
built-up—vapor barrier
cant or closure strips for
cement and coatings for
combination (sheathing-insulation-covering)
copper, copper alloy, or copper foil
corrugated
corrugated—filler strips for
corrugated—plastic
fabric, felt or paper
maintenance material
porcelain enamel
reinforcing wire mesh for
roll—prepared
roll—sheet metal
shingles
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steel or iron—asphalt or asbestos-covered
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louvered
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rolling
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church
gymnasium
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school, library, office
stadium
stools—bathroom
stools—drafting, laboratory, counter, bar, etc.

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sheet, strip, plate 6
aluminum or aluminum alloy
asphalt or asbestos-covered
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copper, copper alloy, or copper foil
enameled
  see sheet, strip, plate:—porcelain enamel
enameling
expanded metal
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    perforated 12
formed and textured
perforated
porcelain enamel
stainless steel
steel
steel—for painting
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asphalt
brick
corrugated
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fiber
galvanized steel
hardboard
plywood
porcelain enamel
sheet—insulated
stainless steel
steel or iron—asphalt or asbestos-covered
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zinc

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bathtub, lavatory, sink, toilet,
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aluminum frame
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AERO MIX (admixtures) 9/La
AEROCOR (glass fiber insulation) 3f/Ow; 11a/Ow
AEROCORE (honeycomb core partitions) 22d/Hor
AEROLITH (air-entraining agent) 9/So
AEROMATIC (room ventilators).....20c/Oc
AEROPEL (ventilators) 31a/Am; 31a/Ame
AETNAPAK (door and frame packages) 16b/Aet
AETNAWELL (metal office partitions).22a/Ae
AFCO (air conditioners, furnaces) ..31a/Ame
AFCO (mats, treads) 13i/Ama
AFCO-LINK (mats) 13i/Ama
AGATEX (floor hardeners) 9/Tru
AGATINE (floor tile) 13i/Go
AIR DOOR (air curtain doors) 16L/Ai
AIR-FLO (vacuum cleaning systems)..28b/Va
AIR-FOIL (louvers) 19e/Lo
AIR GRID (roof board) 10a/Na
AIR-LOC (take-out window hardware) 18a/Un
AIR MASTER (jalousie doors and windows) 17d/Ai

AIR-MIX (air entraining agent) 9/Eu
AIR-O-BLIND (glass jalousies) 19e/Br
AIR-O-THERM (sprayed insulation) ...10a/Ai
AIR PATH (sheet metal specialties) 20d/Ai
AIR-SKREEN (coolers) 26a/Ty
AIR-SPLIT (damper regulator) 31f/Yo
AIR-TITE (louvers) 20d/Ex
AIR-TORCH (incinerators) 28a/Mo
AIR-VENT (roofing felt) 8a/Ru
AIR-WALL (heating, cooling systems) 31a/Gen
AIR-X-IT (roof ventilators) 20c/Oc
AIRACOUSTIC (duct lining) 11a/Jo
AIRCAP (roof ventilators) 20c/Pe
AIRCOMB (structural honeycomb) 14c/Do
AIRDOME (skylights) 20a/Wa
AIREBLEN (air entraining agent) 9/Tre
AIRETTE (roof ventilators) 20c/Pe
AIRFLO (ceiling runners) 31b/Ai
AIRFOIL (fans) 31a/We
AIRFOIL (louvers) 31f/Ti
AIRFOIL (ventilating fans) 20c/Bu
AIRMPELER (roof exhausters, relief caps) 20c/Amm
AIRO-FLEX (registers) 31f/Au
AIROLITE (adjustable louvers) 16b/Tru
AIROLITE (ventilating louvers) 20d/Air
AIROUT (ventilators) 20c/We
AIRPATH (rubber tile) 13i/Go
AIRPHLO (roof ventilators) 20c/Oc
AIRSON (heating and cooling system).31b/Ai
AIRSONITE (air barriers) 31b/Ai
AIRSTREAM (dampers) 20c/Oc
AIRTEMP (air conditioners) .31a/Ai; 31a/Air
AIRTHERM (steel deck) 2c/Ai
AIRTOX (admixtures) 9/To
AIRTROL (heating specialties) 31i/Be
AIRXPELER (roof ventilators, exhaust systems) 20c/Amm
AJAX (antennas) 6g/Ac
AJAX (laundry tubs) 27g/Tr
AKBAR (fire doors) 16g/Ki
AKLO (heat-absorbing glass) 7a/Am
AKOUSTOLITH (sound absorbing stone) 2e/Gu
AL (stainless steel) 6c/AL
AL-LITE (aluminum overhead doors) ...16i/Ar
ALABAMA (metal lath and accessories) 12a/AL
ALASLAB (concrete slabs) 2d/AL
ALASTOR (door slats) 16g/Ba
ALBA-LITE (lighting glass) 33b/Co
ALBRO (curtain walls) 3a/AL
ALBRO (windows) 17a/AL
ALCAD (corrugated roofing and siding).6a/Ra
ALCLAD (aluminum alloy) ..3a/ALu; 6a/ALu
ALCLAD (aluminum mesh)..........19a/Cho
ALCOA (architectural aluminum).....6a/ALu
ALCOA (aluminum curtain walls) 3a/ALu
ALCOA (roofing and siding products)..8b/AL
ALDRIN (termite control) 5d/Sh
ALFOL (building insulation) 10a/Re
ALGAECIDE (algae killing copper compound) 30b/St
ALGOMA (plywood panels) 5b/Un

trade names

ALIGNALOCK (locks) 18e/Sa
ALKATITE (masonry paint) 15/Pr
ALL-AIR (air diffusers) 31f/An
ALL-AMERICAN (sinks) 27a/Cr
ALL METAL ((mirror frames) 27d/AL
ALL METAL (partitions, cubicles) 22b/AL
ALL-TILE (ceramic bathroom, kitchen accessories) 13c/Mos
ALL-WEATHER (house paint).........15/Dev
ALL-WELD (gratings) 13a/Bo
ALL YEAR (air conditioners) 31a/Ar
ALLEN (conduit benders) 32b/St
ALLENCO (fire protection equipment).30f/AL
ALLENFOAM (foam rubber carpet cushion) 13L/AL
ALLENITE (plastic name plates, directories) 23a/AL
ALLIED (windows, window walls) 17a/ALi
ALLINCEWALL (porcelain enamel veneer panels) 6d/AL
ALLIS-CHALMERS (stand-by generators)32c/AL
ALLITE (plastic panels) 8a/Ba
ALLSPAN (steel framing) 2f/Ma
ALMETL (fire doors) 16h/Me
ALOXITE (abrasive grain for surfacing) 13h/Car
ALOYGLAS (alloyed, silica based, glass fibers) 11a/Fo
ALOYGLAS (curtain wall insulation)...3f/Fo
ALPLY (aluminum panels) 3a/ALu
ALPRO (acoustical panels) 11a/AL
ALROK (aluminum finish) 3a/ALu; 6a/ALu; 8b/AL
ALSTEEL (elevator doors) 24c/Gu
ALSTEEL-DOR (sheet metal doors) 16h/Sa
ALSTELE (sound-retarding doors) 16m/Fi
ALSYNITE (plastic panels) 7d/AL
ALTEC (sound systems) 34a/AL
ALTEX (carpet cushion) 13L/AL
ALUMA-SHIELD (plastic coating) 11a/Ac
ALUMAFLEX (weatherstripping) 17c/Si
ALUMALUN (aluminum treads) 13b/Am
ALUMAR (aluminum windows, sliding doors) 17a/Fo
ALUMCO (flashing) 9/Mu
ALUMI-COUSTIC (suspension systems).11b/Cu
ALUMIFOAM (insulation, vapor barriers) 10b/ALw; 10b/ALu
ALUMILASTIC (elastic metallic compounds) 3f/Pa
ALUMILINE (entrances) 16a/ALu
ALUMILITE (aluminum sheet, finish) ..3a/ALu
ALUMILITE (aluminum sheet, finish) ..6a/ALu
ALUMINAIRES (lighting fixtures) 33a/Mc
ALUMINITE (metal finish) 6f/Co
ALUMINIZED STEEL (steel building panels) 2J/Ar
ALUMINUM-CHAMP (aluminum flashings) 8h/Lu
ALUMINUS OXIDE (non-slip aggregates) 9/La
ALUMISATIN (aluminum finish) 10b/AL; 10b/ALi; 10b/ALw
ALUMISEAL (reflective insulation) 10b/AL; 10b/ALi; 10b/ALw
ALUMOGRIT (thresholds, treads)....13b/Wo
ALUNDUM (abrasive aggregate) 13g/No
ALWIN-TILT (tilt-type window sash) 17a/ALw
ALWINTITE (aluminum windows) ...17a/ALw
ALWINTITE (sliding glass doors) 16d/AL
ALWINTITE (windows) 17a/Ge
ALZAC (aluminum reflector) 33a/Mo
ALZAK (lighting fixtures) 33a/Ce
AMARLITE (aluminum entrances) 16a/Am
AMARLITE (aluminum store fronts) ...21/Am
AMBALLOY (steel) 29a/By
AMBASSADOR (cigarette dispensers)..26a/Au
AMBASSADOR (electric door operators) 16g/La
AMBASSADOR (food warming cabinets) 26d/Foo
AMBLER (sidewall tile) 8c/Ke
AMBOY (service sinks) 27a/Ri
AMBRIDGE (service sinks) 27a/Ri
AMBRIDGE (steel joists) 2f/Am
AMERAY (x-ray protective materials)..22e/Am
AMERICA (locksets) 18e/Co
AMERICAN (aluminum windows and doors) 17a/Ame
AMERICAN (louvers, metal doors)...16b/Am
AMERICAN (vermiculite) 12d/Am
AMERICAN (wood doors) 16c/Cu
AMERICAN COLONIAL (shingles) 8c/Jo
AMERICAN-STANDARD (air conditioning equipment) 31a/Amr
AMERICAN-STANDARD (heating and air conditioning equipment) 31a/Ame
AMERICAN THATCH (asbestos-cement shingles) 8c/Ru
AMERICAN WAY (fan shutters, dampers, louvers) 20d/Ame
AMES (steel library equipment) 23f/Am
AMTI-SEPTIC (germicide) 13i/Am
AMTICO (rubber, plastic flooring)...13i/Am
AMURSEAL (asphaltic paint) 9/An
AMVENT (ventilators) 20c/We
AMVERCO (vermiculite) 12d/Am
AMWELD (steel doors) 16b/Amw
ANACONDA (architectural metals) ...6b/Am
ANACONDA (bronze curtain walls)...3e/Am
ANACONDA (copper sheets) 8b/Am
ANACONDA (pipe, tube) 29a/Am
ANCHOR (roofing coatings) 8a/Ba
ANCHOR-WELD (fencing) 22g/An
ANCHORBOND (roofing) 8a/Ba
ANCHORFAST (nails) 18a/In
ANCOR (wood framing accessories)...2e/Ma
ANDCO (metal, plastic letters) 6f/An
ANDERSEN (wood windows) 17c/An
ANEMOSTAT (air diffusers) 31f/An
ANEMOTHERM (air meter) 31f/An
ANKER-IN (bathroom accessories) 27d/Ke
ANKOR-FIL (paints) 15/Ma
ANKOR-KOTE (paints) 15/Ma
ANNULITE (recessed lights) 33a/Ra
ANOCLAD (aluminum sheets, extrusions) 3a/ALu; 6a/ALu
ANOTEC (anodized aluminum grating) 6e/KL; 13a/KL
ANTICIDOL (hardeners) 9/Up
ANTI-HYDRO (hardeners, densifiers) ...9/An
ANYSTREAM (shower fixtures) 27b/Sp
AP (dome skylights) 20a/Ar
APAC (asbestos sheets) 8c/Ke
APCO (pumps) 30a/Au
APCO-MATIC (condensate pumps) ...30a/Au
APEX (corkboards) 23e/Ne
AQUA-CHROME (lavatories) 27a/Ca
AQUA REPEL (waterproof coating) 9/Le
AQUACIDE (water repellent coating)..15/So
AQUACONE (transparent masonry coating) 9/Aq
AQUACOOLERS (cooling towers)....30b/Ma
AQUADAM (built-up roofing) 8a/Jo
AQUAKLEER (swimming pool filters)...23k/In
AQUARIUS (drinking fountains) 27a/Bri
AQUASIL (water repellent) 9/Ce
AQUATEX (caulking compound) 9/Aq
AQUATILT (parting compound) 9/Aq
AQUATITE (densifier, hardener) 9/Aq
AQUATOWER (cooling towers) 30b/Ma
ARCADIA (sliding glass doors) 16d/Ar
ARCADIA-WALL (aluminum window wall system) 3d/Ar
ARCH BEAD (corner beads) 12a/In
ARCHITECT (asphalt shingles) 8c/Bi
ARCHITECTURAL (letter boxes) 23b/Cu
ARDMORE (toilet compartments) 22b/Ac
AREA-LITER (lighting fixtures) 33a/Cu
AREX (roof ventilators) 20c/Ar
AREX-AUSTOR (roof ventilators) 20c/Ar
ARGOSY (residential doors) 16i/At
ARGUS (glass blocks) 3e/Pi; 7b/Pi
ARID-MIX (masonry treatments) 9/Am
ARIDCLEAR (masonry treatments) 9/An
ARIDSIL (masonry treatment) 9/An
ARIDTITE (plaster bond) 9/An
ARIDTONE (masonry treatment) 9/An
ARIN (wall louvers) 20c/Ar
ARISTO (toilet partitions) 22b/Fi
ARISTOCRAFT (institutional doors) ..16c/Has
ARISTOCRAT (glazed concrete masonry units) 4g/Ari
ARISTOCRAT (key wall cabinets) ...18e/Moo
ARISTOCRAT (office furniture) 23o/Re
ARISTOCRAT (refrigerator-range combination) 25b/Ac
ARISTOCROME (bathroom accessories) 27d/Ha
ARISTOFLEX (asphalt floor tile) 13i/Ma
ARISTON (hand rail brackets, metal railing) 6e/Mi
ARKELITE (ceramic tile) 4f/Ark
ARKETEX (ceramic tile) 4f/Ark
ARKLA (gas lights) 31a/Ar
ARKLA-SERVEL (air conditioners, water chillers) 31a/Ar
ARM-R-LITE (aluminum overhead doors) 16i/Ar
ARMAFLEX (pipe insulation) 10b/Ar
ARMALITE (aluminum curtain walls)...3a/Am
ARMALITE (board insulation) 10b/Ar
ARMCO (foundation pipe) 1b/Ar
ARMCO (steel, stainless steel, steel products) 6c/Ar
ARMCO (steel joists) 2f/Sh
ARMCO (steel buildings) 2J/Ar
ARMGLAZE (glazing compound) 7c/Di
ARMOLAC (coatings) 9/So
ARMOR (chalkboards) 23e/Ne
ARMOR-CRETE (resurfacer) 13h/Pr
ARMOR-TILE (landing tile) 13i/Ama
ARMOR-TREDS (treads) 13i/Ama
ARMORGRID (armoring grids) 31f/He
ARMORPLY (metal bonded plywood) ..5b/Un
ARMORTOP (hardeners, densifiers) .....9 An
ARMORWEAVE (expanded metal) 6e/Un
ARNCO (coat, hat racks, wardrobes).23d/Ne
ARNCO (curtain cubicles) 22c/Ne
ARRESTONE (acoustical materials) ...11a/Ar
ARROWHEAD (wallboard) 11a/Wor
ART-ROC (aggregates) 9/Tru
ARTEX (windows) 17a/Art
ARTHUR (locks) 18e/Sa
ARTISAN (wing or arch bead) 12a/Pe
ARTWALL (paint) 15/Ame
ARVINYL (vinyl-metal laminated panels) 14a/Ar
ASBESTILE (flashing system) 8a/Jo
ASBESTOCITE (chalkboards) 23e/CL
ASBESTONE (corrugated asbestos—cement roofing, siding) 8c/Na
ASBESTONE (panels, roofing, siding)..8b/Na
ASBESTOSPRAY (sprayed-on fireproofing, acoustical materials) 11a/As
ASIDBAR (treated lumber) 5d/Ko

trade names

ASPHALTUM (paint) 15/Na
ASTRA (carpets and rugs) 13L/Du
ASTRA (locks) 18e/Sc
ASTRA TWEED (carpets and rugs) ..13L/Du
ASTRA-DOME (phone booth domes)...34a/Sh
ASTRANLITE (lighting fixtures) 33a/Cu
ASTRALOUVRE (lighting fixtures) 33a/Cu
ASYLUM (detention door hinges) 18e/Do
ATLAS (builder's adhesives) 9/FL
ATLAS (extractors) 27g/Tr
ATLAS (mortar cement) 4i/Uni
ATLAS WHITE (white portland cement) 4i/Unv
AUDICOTE (acoustical plaster) 11a/Uni
AUDIO-VISUAL (paging systems) 34a/Ex
AUDICOTE (acoustical plaster) 12e/Un
AUDITONE (acoustical tile) 11a/Un
AURA-LITES (lighting fixtures)........33a/Ce
AURORA (pumps) 30a/Au
AUT-O-DOR (door operators) 16h/Ri
AUTO-CLOSE (freezer doors) 23c/Ja
AUTO-CLOSE (swinging doors) 23c/Bu
AUTO-DIAL (intercommunicating systems) 34a/Ra
AUTO-PLY (refrigerator doors) 23c/But
AUTO-PLY (vestibule door) 23c/Bu
AUTO-SEAL (acoustic doors) 11a/Fir
AUTO-SEAL (threshold closers) 16m/Fi
AUTO SIGNAMATIC (elevator control system) 24a/Ha
AUTO-VENT (aluminum windows) ...17a/Me
AUTO-VENT (steel windows) 17b/Me
AUTOCALL (fire alarm systems) 34a/Au
AUTOCALL-HOWE (plant protection & supervisory systems) 34a/Au
AUTODRAPE (curtain machinery) 23g/Au
AUTOFLO (water flow control)......27b/Sp
AUTOLENE (concrete additives, sealers).9/Au
AUTOTRONIC (elevators) 24a/Ot
AUTO-VENT (steel windows) 17b/Me
AVC (vermaculite) 12d/Am
AVON (lavatories) 27a/Ca
AVONCRAFT (porcelain enamel) 2J/Av
AXIVANE (blowers) 31e/Jo
AYR-TRAP (admixtures) 9/Ho
AZPHLEX (plastic tile) 13i/Az
AZROCK (asphalt tile) 13i/Az

b

B&G (aluminum awning windows)....17a/Br
B&G (aluminum window walls) 3a/Br
B&G (heating systems) 31i/Be
BC-100 (ceramic tile adhesives).......13i/Cr
BCI (Bituminous Coal Institute) 31J/Bi
B-D (flagpoles) 6g/Bab
B-D (hatchways) 16J/Ba
B-E-H (insulation) 10c/BaL
B-H (spun-blanket insulation) 10a/Ba
BM (sun control devices) 19e/Ba
BMH (pipe connectors) 29a/Ke
B-W (building insulation) 10a/Re
BW (parquet flooring)...............13J/Har
B-W (screens) 19e/Re
BALCOPLY (plywood doors) 16c/Ja
BALSAM-WOOL (blanket insulation)..10a/Wo
BANC-LOK (nuts) 16b/Amw
BANDLITE (glass) 7a/Mi
BANGOR CERTIFICATE SLATE (slate shingles) 8e/No
BANTAM (sliding door hardware) 18d/Gr
BAR-GRILLE (area wall covers) 2i/Ho
BAR-RAY (x-ray protective products)...22e/Ba
BAR-X (metal lath) 12a/Wh
BAR-Z (steel stud partition systems)..12a/Wh
BARCLAY (bathtubs) 27a/Ri
BARCOL COUNTERDOOR (counter doors) 23d/Ba
BARCOL DOORMAN (door operators).16i/Ba
BARCOL OVERDOOR (overhead doors) 16i/Ba
BARCOL WARDROBEDOOR (wardrobe doors) 23d/Ba
BARNHIDE (paint) 15/Pi
BARRELED SUNLIGHT (paints) 15/Ba
BARRETONE (ceiling tile) 10a/Bar
BARRETT (built-up roofing) 8a/Ba
BARRETT (dampproofing and waterproofing) 9/Ba
BARRETT (insulating board) 10a/Bar
BARRETT-HOLT (roof connections) 8a/Ba
BARRINGTON (locks) 18e/Sc
BARTON (urinals) 27a/Bri
BASE FLO (furnaces) 31a/Ame
BASEAL (joint fillers) 2i/Se
BASEDUCT (raceway systems) 32b/Na
BATHMASTER (tub enclosures) 27c/GL
BAXBOARD (gypsum wallboard) 12c/Uni
BAXCO (fire-retardant treated wood) .5a/Ba
BAYPORT (toilet compartments) 22b/Ac
B-E-H (insulation) 10a/Ba; 11a/Ba
BEADEX (pattern glass) 7a/Am
BEAUFORD (rolling grilles) 16g/Ab
BEAUTY-LINE (wood windows) 17c/An
BEAUTY-LOK (paint products) 15/Sh
BEAUTY QUEEN (kitchen equipment)..25b/To
BEAUTYWARE (plumbing fixtures) 27a/Bri
BECO (louvers) 20d/Be
BEE-CLAWS (anchor slots)............2i/Gat
BEE-CLIPS (anchor slots) 2i/Gat
BEE-HIVE (anchor slots) 2i/Gat
BEE-NUTS (nuts) 2i/Gat
BEE-SNAPS (anchors) 2i/Gat
BEL-AIRE (ventilating hoods) 25a/Em
BEL-CRAFT (waterproofing system) 9/Be
BEL-TEL (concrete inserts) 2i/Ho
BELL (wiring devices) 32b/Be
BELMAR (lighting fixtures) 33a/Be
BELT-VEYOR (conveyors) 24d/St
BELTOR (curtain cubicles) 22c/Be
BENNING (water closets) 27a/Ca
BENWOOD (stains, fillers) 15/Moo
BENWOOD HILUSTRE (varnish) 15/Moo
BENWOOD LOLUSTRE (varnish) 15/Moo
BERESFORD (rolling grilles) 16g/Ab
BERGER (steel lockers) 23d/Re
BERKLEY (lavatories) 27a/Ri
BERKO (heaters, heating systems)....31h/Ber
BERKO-MATIC (thermostats) 31h/Ber
BERMICO (conduit, tubing) 32b/Br
BERMICO (sewer pipe and fittings)..29a/Bro
BERMIDRAIN (drainage pipe) 29a/Bro
BERMIGATION (irrigation pipe) 29a/Bro
BERMIROAD (drainage pipe) 29a/Bro
BERMISEPTIC (sewer pipe) 29a/Bro
BERMISLEEVE (gas pipe) 29a/Bro
BERMUDA (ceramic tile) 13c/Ro
BERRY (garage doors) 16i/Be
BERTCO (permanent concrete forms)....2i/Bur
BERYLSTONE (plastic floor covering) ..13i/Co
BEST (signs) 23a/Be
BESTEEL (curtain tracks) 23g/Au
BESTWALL (gypsum products) 2d/Be; 12c/Be; 12c/Bes
BETH-CO-WELD (piping) 2f/Bet
BETH-CU-LOY (steel sheet) 2f/Bet
BETHCON (steel sheet) 2f/Bet
BEVELITE (glass) 7a/Mi
BEVERAGE-AIR (refrigerated display cases) 26a/Be
BEVERLY (lavatories) 27a/Cr
BI-ACOUSTIC (horns) 34a/AL
BI-POST (downlights) 33a/Ra
BIARRITZ (plastic floor tile) 13i/Bo
BIFOLD (doors, operators) 16h/CL
BILCO (doors, hatchways) 16J/Bi
BILDRITE (sheathing) 2i/Ins; 10a/Ins
BILT-IN (storm and screen window units) 17a/Dev
BILT-IN (water coolers) 30d/We
BILT-WELL (wood cabinets) 25b/Car
BILT-WELL (wood windows) 17c/Car
BILTIN (window subframes) 17b/Ho
BIRCHFACE (partitions) 22a/Wh
BITUMASTIC (coatings) 8a/Ko
BLACK-TITE (caulking compound) 7c/Di
BLACK DIAMOND (roofing) 8a/Ba
BLACKTEX (window shade fabric)......19c/St
BLACK SHIELD (roofing) 8a/Ba
BLAKE (bathtubs) 27a/Ri
BLAKESLEE-BUILT (food service equipment) 26b/BL
BLASCRETE (radiation doors) 16m/Fi
BLAST COILS (electric duct space heaters) 31h/In
BLASTELE (blast resistant doors) 16m/Fi
BLASTITE (aluminum oxide grain)....13h/Car
BLAZE-SHIELD (fireproofing) 12e/Co
BLENDWOOD (wood blocks) 13J/Bru
BLENDTEX (tile and plank finish) ..10a/Uni
BLISS (windows) 17b/BL
BLO-FAN (fans, ventilators) 25a/Em
BLOCKBED (asphalt emulsion) 13i/Has
BLOCKMASTIC (mastic) 13i/Has
BLODGETT (ovens) 26c/BLo
BLOK-JOINT (joints) 4h/Car
BLOK-LOK (masonry reinforcement) ...4h/Aa
BLOK-MESH (masonry reinforcement) .4h/Car
BLOWER-LITE (blowers) 25a/Em
BLUEBIRD (bottle coolers) 26a/La
BLUE BOND (cement) 4i/No
BLUE-LAKE (pool equipment) 23k/La
BLUE RIDGE (glass, glass doors, spandrel glass) 7a/Am; 16d/Am
BLUE RIDGE (spandrel glass) 3e/Ame
BLUE STREAK (cement) 4i/No
BLUE STREAK (dispenser cards for pipe markers) 29a/Br
BLUMCRAFT (ornamental metal) 6e/BLu
BOBRICK (soap, lotion dispensers) ...27e/Bo
BOCA (steel doors, windows) 17b/Bo
BOLTA-FLOOR (floor, wall coverings) 13i/Ge
BOLTA-WALL (vinyl wall covering)...13k/Ge
BOMMER (hinges, mail boxes) 18e/Bo
BOND-CRETE (cement bonding adhesive) 9/Co
BONDCOTE (bonding agent) 13h/Ac
BONDCOTE (tile adhesive) 13i/FL
BONDCRETE (gypsum plaster) 12e/Un
BONDSETT (carpets) 13L/Le
BONDTITE (insulation adhesives) 10c/BaL
BONDWOOD (parquet flooring) 13J/Har
BONTEX (shade cloth) 13k/Co
BOOKVEYOR (book conveyors) 24a/La
BORAXO (soap dispensers, soap) 27e/Ty
BORDEN (floor gratings) 13a/Bo
BORG-WARNER (building insulation) 10a/Re
BORG-WARNER (screens) 19e/Re
BOSTON (autopsy tables) 23L/Ma
BOSTON (sinks) 27a/Bri
BOSTWICK (sheet lath) 12a/Na
BOUQUET (lighting fixtures) 33a/Lia
BOX-MESH-LOCK (reinforcing) 4h/Ho
BRACE-TITE (lathing system) 12a/Un
BRADFORD (rolling grilles) 16g/Ab
BRANDING-GARD (steak branders) ..26c/To

trade names

BRASCO (entrances, store fronts, window walls) 16a/Br
BRASCO WALL (window wall) 16a/Br
BREAK-BACK (concrete accessories) 2i/Su
BRESLIN (bathtubs) 27a/Ri
BRICTILE (brick, tile) 4f/St
BRIDJOINT (lathing system) 12a/Un
BRIGHT-GLAZE (tile) 13c/Mos
BRIKETTE (floor tile) 13i/Ro
BRIKRON (plasticizers) 9/Mas
BRIKSET (portland cement) 4i/Me
BRISK (waterproofing) 9/Br
BRISTOL (glass blocks) 3e/Pi; 7b/Pi
BRISTOL (locks) 18e/Sa
BRISTOL (lockset) 16b/Ce
BRISTOLITE (floor wax) 13m/Hu
BRIXMENT (masonry cement) 4i/Lo
BROADLITE (glass) 7a/Mi
BROADVIEW (mirrors) 27d/Mi
BROADWAY (bronze castings) 6e/Li
BROADWOOD (flooring) 13J/Ci
BROAN (blowers, fans, hoods, etc.)..31e/Br
BRODY (commercial and institutional seating) 23o/Br
BRONZALUN (bronze treads) 13b/Am
BRONZOGRIT (thresholds, treads)...13b/Wo
BROWN (sun control devices) 19e/Br
BRUCE (flooring) 13J/Bru
BRUCE-WAY (floor finish) 13J/Bru
BRUNNER (air compressors) 31a/Du
BRUNNER-METRIC (condensing units) 31a/Du
BUBBELET (water coolers) 30d/Eb
BUCKINGHAM (slate flooring and flagstones) 4c/Bu
BUCKINGHAM (slate roofing).........8e/Bu
BUDDY (towels, dispensers) 27e/Ste
BUDGETEER (sinks) 27a/Cr
BUDGEX (movable wall partitions)....22a/Ga
BUFF-BRITE (floor wax) 13m/In
BUFFALO BETTER-BUILT (extinguishers).30f/Fy
BUILT-IN THINLINE (air conditioners) 31a/Ge
BULATOR (grilles) 31f/He
BURKAY (gas water heater) 30c/Sm
BURNS (extruded aluminum walkway covers) 19e/Bu
BURNZIT (incinerators) 28a/Sp
BUSDUCT (conduits, bushbar systems) 32a/Ad
BUSTIN (gratings) 13a/Bu
BUTAFLEX (sealer) 13h/Pr
BUTCHER BOY (cold storage room doors) 23c/Bu
BUTLER (prefabricated steel buildings) 2J/Bu
BUTLERIB (corrugated panels) 2J/Bu
BUTT-WAY (store fronts) 16a/Nat
BUTTERFLY (damper regulator) 31f/Yo
BYERS 4D (wrought iron) 29a/By
BYLOY (steel) 29a/By
BYRNAPERTURE (hangar doors) 16h/By
BYRON (lavatories) 27a/Bri
BYZANTILE (tile) 13c/Mos
BYZANTINE (floor tile) 13i/Ro

C

CFI (lighting fixtures) 33a/Da
CF&I (fencing) 22g/Co
CHF (tables, chairs, stools) 23o/Ch
C-H-S (floor treatment) 9/Co
CM (piping and tubing) 29a/Lew
C-M (shower cabinets and receptors) 27c/Cu
CMC (adhesives) 13c/Ch
C-O-TWO (fire protection systems)....30f/Fy
CPC (laundry, rubbish chutes, brick size vents) 27f/Co
CRA (redwood) 5a/Ca
CWG (corrugated wire glass) 7a/Pe
C-S (brick size vents) 20d/Co
C-S (louvers, louvered penthouses)..20d/Con
C-S (sun shades) 19e/Con
C-S-C SHRINKPROOFER (masonary treatments) 9/Co
CABINETEER (sink tops) 25b/Ju
CAD (access doors) 16J/Bi
CADET (water coolers) 30d/Te
CADILLAC (signs, nameplates) 23a/Ca
CAFCO BLAZE-SHIELD 12e/Co
CAFCO SOUND-SHIELD (acoustical insulation) 11a/Co
CALAIS (plastic floor tile) 13i/Bo
CALCORE (porcelain enamel panels)..3c/Ca
CALCULITE (lighting fixtures) 33a/Lia
CALROD (dishwasher heater) 25a/Hot
CALROD (heating units) ...23a/Hot; 26c/Hot
CALROD (ranges) 25a/Gen
CALROK (accelerators, densifiers, waterproofing) 13h/Pr
CALSI-CRETE (roof planks) 2d/Ca
CALSLATE (chalkboards) 23e/So
CAMARGO (ceramic tile) 13c/Ca
CAMBRIDGE (autopsy tables) 23L/Ma
CAMBRIDGE (bathroom cabinets) ...27d/Mi
CAMBRIDGE (toilet compartments)...22b/Cu
CAMBRIDGE (ventilating hoods)......31e/Tr
CAMEL (water closets) 27a/Ca
CANOPY (lighting fixtures) 33a/Da
CANTEEN (background music system).34a/Auo
CANTEEN (food vendor units) 26a/Au
CANVASTEELE (window shade fabric).19c/St
CANTILITE (concrete planks) 2d/Co
CAP'N RAIL (ceramic tile trim).....13c/Roy
CAPITOL (key wall cabinets) 18e/Moo
CAPRI (mosaic tile) 13c/San
CAR-MON (garage ventilators) 31e/Ca
CARADCO (wood windows) 17c/Car
CARBO-JET (dispersed carbon black) ...9/So
CARBORUNDUM (abrasive grain for surfacing) 13h/Car
CARBOSOTA (creosote oil) 9/Ba
CARBOSOTA (wood preservatives) 8a/Ba
CARE-FREE (plastic flooring) 13i/Am
CAREY (expansion joints) 2i/Ca
CAREY (insulating panels) 8b/Car
CAREY (shingles) 8c/Ca
CAREY SUPER EBONTEX (masonry coatings, asphalt planks) 2i/Ca
CAREYLASTIC (sealing compounds)....2i/Ca
CAREYSEAL (tarred felt) 8a/Ca
CAREYSTONE (roofing, siding) 8b/Ca
CARLSTADT (railing system) 6e/BL
CARLTON (water closets) 27a/Bri
CARLYLE (tile) 13c/Mos
CARMASTER (electric elevator door operators) 24c/Gu
CARMEN (bidets) 27a/Bri
CAR-MON (garage ventilators) 31e/Ca
CARNIVAL (floor tile) 13i/Ke
CAROUSEL (lighting fixtures) 33a/We
CARRARA (structural glass) 3e/Pit; 7a/Pi; 13e/Pi
CARREL (desks) 23f/De
CASCADE (drinking fountains) 27a/Ca
CASCO (urinals) 27a/Ca
CASCOOL (drinking fountains) 27a/Ca
CASE (plumbing fixtures) 27a/Ca
CASETTE (water closets) 27a/Ca
CASHGARD (cash boxes) 23b/Di
CASTLE (carpet cushions) 13L/Am
CASTLITE (insulating roof tile) 2d/Fe
CASUAL (ceramic tile) 13c/We
CASWELL (drinking fountains) 27a/Ca
CAT (stand-by generators) 32c/Ca
CATA-COTE (concrete floor finish) ...13m/In
CATERPILLER (stand-by generators) ..32c/Ca
CATHEDRAL (expanded metal) 6e/Un
CAULKTITE (caulking compounds) 9/La
CAVALIER (bathroom cabinets,) accessories) 27d/Mi
CAVITATOR (sewage treatment systems) 30a/Ye
CAVITETTE (package home sewage disposers) 30a/Ye
CAVITY (acoustical tile) 11a/Ce
CAVITY-BOX-MESH-LOCK (reinforcing) 4h/Ho
CAVITY-LOK (masonry reinforcement) 4h/Aa
CAVITY-MESH-LOCK (mortar joint reinforcement) 4h/Ho
CECO (aluminum windows) 17a/Ce
CECO (curtain walls) 3a/Ce
CECO-MEYER STEELFORM (concrete forms) 2a/Ce
CECONOMY (basement windows) 17b/Ce
CEIL-N-WALL (fans) 31e/Fa
CEILINGLITE (plastic skylight ceiling panels) 20a/Va; 20a/Van
CEL-BEAM (floor systems) 2b/Mah
CELESTIAL (plastic flooring) 13i/Am
CELL-U-BLANKET (blanket insulation) 10a/Wo
CELLINI (floor tile) 13i/Ro
CELLU-TONE (paint) 15/Pr
CELLUDECK (roof decks) 2c/InL
CELLUFLOR (steel floor panels) 2b/In
CELO-ROK (gypsum products).2d/Ce; 10a/Ce
CELOTEX (acoustical materials) 11a/Ce
CELOTEX (cant strips, insulation, etc.) 10a/Ce
CELOTONE (mineral fiber tile) 11a/Ce
CEM-SEAL (floor sealers, finishes) 13m/Hi
CEMENT ENAMEL (cement enamel) ...13h/Ce
CEMENTHIDE (paint) 15/Pi
CEMENTICO (cement base paint).....15/Un
CEMENTONE (joint fillers) 2i/Se
CEMESTO (insulating panels) 10a/Ce
CENTRIFLOW (roof ventilators) 20c/Bu
CENTRI-PAC (pumps) 30a/Au
CENTRILATOR (roof ventilators) 31a/CL
CENTRILINE (pipe linings) 1a/Ra
CENTURY (locks) 18e/Sc
CENTURY (toilet, shower compartments) 22b/Sa
CENTURY-LARCO (automatic bubblers) 30d/Ce
CERAMICA VENEZIA (ceramic mosaic tiles) 13c/Mu
CERAMIX (tile and ceramic substitute) 13h/Pr
CERAMO STEEL (chalkboards) 23e/Go
CERCO (sealers) 9/Ce
CEREFLUX (masonry treatments) 9/Ce
CEREPEL (inorganic paint) 9/Ce
CERESIT (water repellents) 9/Ce
CERETINT (cement colors) 9/Ce
CEROMASTIC (patching cement) 9/Ce
CEROPHALT (crack or joint fillers) 9/Ce
CERTAGLAS (built-up roofing) 8a/Ce
CERTAIN-TEED (building insulation) 10a/Cer; 10a/Cet
CERTAIN-TEED (built-up roofing) 8a/Ce
CERTAIN-TEED (gypsum roof decks)....2d/Be
CHALICE (locksels) 18eCo
CHALKROBE (portable chalkboard) ..23d/Vo
CHALLENGE (porcelain enamel curtain walls, panels) 3c/Ch
CHALLENGER (furnaces) 31a/Yk
CHALLENGER (locks) 18e/Ch

CHAMBERLIN (detention screens) 19a/Ch
CHAMBERLIN (weather strips) 19b/Ch
CHAMPION (air conditioners) 31a/Yk
CHAMPION (bathtubs) 27a/Cr
CHAMPION (gauging plaster) 12e/Un
CHAMPION (metal bathroom accessories) 27d/La
CHAMPION (overhead doors) 16i/At
CHAMPION (overhead doors) 16i/Co
CHAMPIONSHIP (diving boards) 23k/Ki
CHAN-L-FORM (steel studs) 12a/Bo
CHANCELLOR (key drawer files) 18e/Moo
CHANNEL (lighting fixtures) 33a/Mi
CHANNEL-LAP (hardboard siding panels) 10a/Ce
CHANNEL-RIB (roofing) 2c/Sm
CHAR-GRILL (barbecue grilles)......31L/Ma
CHARGOMATIC (emergency lighting units) 33a/EL
CHARLOTTE (lavatories) 27a/Cr
CHASE (flashings) 8g/Ch
CHASE (wire screening) 19a/Cha
CHAUCER (lavatories) 27a/Bri
CHECKER (coat and hat racks).......23d/Vo
CHECKERTONE (matting) 13i/Ar
CHELDUOGEAR (dumbwaiters) 24a/Ch
CHELGEAR (dumbwaiters) 24a/Ch
CHELMSFORD (granite) 4a/FL
CHELNOGEAR (dumbwaiters) 24a/Ch
CHELWINDLASS (dumbwaiters) 24a/Ch
CHEM-CHECK (valves) 29a/Kr
CHEM-COCK (valves) 29a/Kr
CHEM-FI (roofing process) 8a/Ba
CHEMCLAD (plastic-clad doors) 16c/Bou
CHEMCORE (fire door cores) 16c/Bou
CHEMIGLAZE (plastic panel protection) 7d/AL
CHEMTROL (valves) 29a/Kr
CHENEY (metal flashing, reglets, gravel stops, siding) 8g/Che
CHEVRON-TREDS (treads) 13i/Ama
CHEROKEE (tile) 13c/Mos
CHESHIRE (finishing lime) 12e/Un
CHI-TEN (lock protective material) ..23b/He
CHICAGO (spring hinges) 18e/Chi
CHILDERS (carports, walkway covers) 19e/Ch
CHIME-MATIC (signal systems) 34a/Ex
CHINALINE (enamel) 15/Ba
CHINAVOGUE (bathroom accessories) 27d/Ha
CHINC (metal flashing, reglets, gravel stops, siding) 8g/Che
CHIPSTONE (floor tile) 13i/Ro
CHORE BOY (incinerators) 28a/In
CHROMA-SHAKE (asbestos-cement siding) 8c/Na
CHROMA-TEX (asbestos-cement siding) 8c/Na
CHROMALOX (heaters) 26b/Ha
CHROMATE (primer) 15/GLi
CHRYSTEX (clay floor tile) 13c/Na
CIRCLAIR (film driers) 23L/Ge
CIRCLFLUX (outdoor flourescent lighting) 33c/Pf
CLARCO (unit heaters) 31a/CL
CLAREMONT (locks, lock escutcheons) 18e/Sc
CLARIDGE (chalkboards, tackboards, etc.) 23e/CL
CLARITONE (acoustical tile) 11a/Ba
CLARK (doors, operators) 16h/CL
CLARK GLIDE (nylon shoes) 17b/CLa
CLARK SEAL (stainless steel windows).17b/CLa
CLASSIC (bathroom accessories) 27d/Pa
CLASSIC (mail chutes) 23b/Cu
CLASSIC-SHAKE (asbestos-cement siding shingles) 8c/Na
CLAY-BURN (ceramic glazed tile) 13c/CL
CLAYCRAFT (brick, tile) 4f/CL
CLAYMORE (water closets) 27a/Ri
CLAYTON (water closets) 27a/Ri
CLEAR BOND (curing, hardening, sealing compound) 9/Gu
CLEAR-COAT (masonry treatments).....9/Am
CLEAR-CRETE (concrete floor sealer)..13m/In
CLEAR-SELE (sealers) 15/Ru
CLEARLITE (sheet glass) 7a/Fo
CLEARTEX (lighting louvers) 33a/Da
CLEARTONE (sealers) 15/Moo
CLEARVIEW telephone booths) 34a/Sh
CLEAVER-BROOKS (boilers) 31g/CL
CLERESPAN (steel joists) 2f/Tr
CLEVELAND (steel products) 2i/CL
CLIMASTER (furnaces) 31a/Yk
CLIMATROL (heating, cooling units) 31b/Mu
CLIMAX (ventilating fans) 31e/Mi
CLIPPER (dishwashers) 26b/In
CLOCKMASTER (time systems) 34b/Mi
CLOISONNE (vinyl flooring) 13i/Goo
CLOS-RIB (roof decking) 2c/Sm; 3a/Sm
CLOSNOS (nosings) 13a/KL
COADOR (doors) 16i/Co
COAST LINE (metal doors, frames)....16b/Co
COBBLETEX (ceramic tile) 13c/Sum
COCO (laminated beams and arches)..2e/Co
COCOON (sprayable vinyl coating).....9/HL
CODLER-TOT (child's water cooler)..30d/Su
COFAR (forms, reinforcement)........2c/Gr
COILDOR (truck doors) 16g/WiL
COIL-WAL (automatic partitions) ...22d/Du
COL-ITE (letters and signs) 6f/Co
COLCAP (roofing felt) 8a/Ca
COLD-STIK (mastic cement) 13J/Bru
COLDPOINT (drink dispensers) 26d/Ba
COLLOPAKE (paint) 15/Ca
COLONEL (flush wood doors) 16c/Ge
COLONIAL (bathroom cabinets, accessories) 27d/Mi
COLONIAL (custom built screens) 19a/Co
COLONIAL PLANK (hardwood flooring) 13J/Har
COLONIAL-HITES (letters) 6f/Co
COLOR BRITE (masonry coating) 13h/Pr
COLOR-CEIL (indirect luminous ceilings) 33a/Si
COLOR-CORK (bulletin boards).....23e/Go
COLOR-CORK (burlap-backed, vinyl-topped cork) 13i/Got
COLOR COTE (concrete floor finish) .13m/In
COLOR-CRETE (concrete floor finish)..13m/In
COLOR GLO (lighting fixtures)......33a/Ge
COLOR-LITE (doors) 16a/Ha
COLOR-RITE (metal lath) 12a/Un
COLOR-TEX (siding) 8c/Ru
COLORAMICS (ceramic facing tile) ...4f/CL
COLORBESTOS (asbestos sidewalls) ..10a/Jo
COLORBESTOS (shingles) 8c/Jo
COLORBLEND (clay tile) 13c/Mo
COLORBRITE (floor hardeners) 9/La
COLORCLAD (entrance units) 16b/Ov
COLORCRON (hardeners, colorers) ...9/Mas
COLORCURE (curing compounds) 9/Ce
COLORFLOOR (concrete floor paint)....9/Tr
COLORLINE (partitions) 22a/Ui
COLORMIX (colors) 9/Mas
COLOROBOT (color mixing device)..15/Ma
COLOROIL (floor finishes) 9/Mas
COLOROLD (stainless steel) 17b/CLa
COLORSLIP (hardeners) 9/Pa
COLORSOL (masonry sealers) 15/Ma
COLORTAK (vinyl textured tackboard) 23e/Be
COLORTONE (floor finishes) 13m/Hi
COLORUNDUM (colors, hardeners) 9/Ho
COLORWAX (floor wax) 9/Mas
COLUMBIA (bathroom cabinets) 27d/Co
COLUMBIA-HALLOWELL (school shop furniture) 23i/St
COM-PAC-CASE (book storage units)...23f/Ar
COMBINATION (toilet tissue holders) 27e/Cr
COMET (lockset) 16b/Ce
COMFORT CONDITIONING (air conditioning systems) 31a/FL
COMFORTMAKER (air conditioners) 31a/Ame
COMFORTORC (upholstered furniture) 23i/Sim
COMMANDER (shade cloth) 19c/Jo
COMMANDER (shower fixtures) 27b/Sp
COMMODITY LINE (door frames) ..16b/Amw
COMMODORE (dishwashers) 26b/In
COMPAC-FOLD (folding tables, benches) 23i/Sc
CON-GLAZE (glazing compounds) 7c/Co
CON-O-GUM (mastic compound) 7c/Co
CON-O-SEAL (curtain wall sealant)....7c/Co
CON-O-TAPE (tape) 7c/Co
CONCEPT 70 (plastic floor covering)..13i/Co
CONCORD (metal bathroom accessories) 27d/La
CONCORD (toilet compartments) ...22b/Ac
CONCORD (ventilating hoods) 31e/Tr
COND-A-PAC (pumps) 30a/Au
CONDUCT-O-TILE (conductive tile) ..13c/Am
CONDUCTILE (non-sparking tile) 13i/Vi
CONDUCTITE (conductive tile mortar) 13c/Ka
CONE-FAST (concrete accessories) 2i/Su
CONFETTI (asphalt floor tile) 13i/Ma
CONI-VANE (ventilators) 20c/AL
CONQUEROR (overhead doors) 16i/At
CONQUISTADOR (overhead doors) ..16i/Co
CONSOLITE (dome skylights) 20a/Co
CONSOWELD (plastic panels) 14a/Co
CONTEMPO (vertical louvered shutters) 19d/Pi
CONTEMPO-LITE (plastic diffusers) ...33a/Lin
CONTEMPORARY (display cases) 23e/Po
CONTINENTAL (carports) 19e/Ch
CONTINENTAL (lock escutcheons)....18e/Sc
CONTINENTAL (steel fencing) 22g/Con
CONTINUOUS STRIP (wood flooring) 13J/Ro
CONTROLITE (venetian blinds) 19d/Mo
CONVASEAL (asphalt hardboard) 9/Me
CONVERSION (folding wood doors)..16e/Ne
CONVEY-ALL (conveyor belts) 22g/Cy
COOK (ventilators) 20c/Co
COOKSON (wood partitions)........22d/Co
COOL-R-FRIG (refrigerator compartment hot and cold water cooler).........30d/Su
COOLER-HOT (hot water accessory)..30d/Su
COOLERET (water cooler) 30d/We
COOLERO (ridge ventilators) 20c/Hi
COOLITE (glass) 7a/Mi
COP-O-TOP (flashings) 8g/Ch
COP-R-CIDE (masonry treatments).....9/We
COP-R-FLASH (flashing) 8g/Ph
COP-R-TEX (flashings) 8g/Wa
COPPER-CHAMP (flashings, dampproofing) 8h/Lu
COPPERSEAL (flashings) 8g/Wa
COPPERWELD (reinforcing) 4h/Ho
COPR-FIBRE (building, roof insulation) 10a/Fo
COPR-FIBRE (roof insulation) 3f/Fo
COPYFLEX (reproduction machines) ..23b/Br
CORAL (tub or shower enclosures)....27c/CL
CORBIN (door hardware) 18e/Co

trade names

CORDLEY (coolers, water fountains) .30d/Co
CORDLEYAC (cooler racks) 30d/Co
CORDWALL (water coolers) 30d/Co
CORINTHIAN (vinyl tile) 13i/Go
CORK-GLO (floor tile) 13i/Bon
CORKATILE (asphalt floor tile)......13i/Hak
CORKROBE (portable bulletin boards) 23d/Vo
CORKSTYLE (asphalt tile) 13i/Arm
CORKTITE (perimeter insulation) 9/Me
CORKTONE (floor tile) 13i/Ke
CORKUSHION (flooring mastic) 13J/Ro
CORLON (plastic floor covering) 13i/Arm
CORNALATH (lath) 12a/AL
CORNER-CLIPT (wood block flooring) 13J/Sou
CORNER-EX (corner beads) 12a/In
CORNER-LOK (masonry reinforcement) 4h/Aa
CORNERITE (corner beads) 12a/Bo
CORNERITE (corner reinforcement) 2c/Tr
CORNERITE (metal lath) 12a/Un
CORNERITE (wing arch bead) 12a/Pe
CORNICE TEMPER (zinc alloy flashing) 8g/Co
CORONADO (bathroom accessories).27d/Ha
CORONET (sliding glass doors) 16d/AL
COROTOP (fibrous glass mats) 8a/FL
COROX (oven heaters) 25a/We
CORRALINE (lighting fixtures) 33a/Da
CORRALOUVER (lighting fixtures) 33a/Da
CORRALUME (lighting fixtures) 33a/Da
CORRELATION (desks) 22a/Co
CORRI-LATOR (lighting fixtures) 33a/Mi
CORR-I-LIER (lighting fixtures) 33a/Mi
CORRUCOTE (liquid plastic) 7d/Jo
CORRUFORM (steel forms) 2a/Gr
CORRU-LUMINUS (luminous ceilings) 33a/Lum
CORRULUX (translucent panels) 7d/Jo
CORRUMASTIC (sealers) 7d/Jo
CORRUTONE (acoustical panel) 11a/Un
COSMETTE (lavatories) 27a/Ca
COSMIC (lockset) 16b/Co
COSMICOAT (asphalt sealer) 9/Ha
COSMILASTIC (tar-rubber emulsion)...9/Ha
COSMIPATCH (asphalt patchings for floors, pavement) 9/Ha
COSMO-DOMES (plexiglas dome skylights) 20a/Bo
COSMOLITE (floor wax) 13m/Hu
COTSWOLD (casement windows) 17b/Ho
COUNSELOR (lighting fixtures) 33a/Mi
COUNTER-FLO (furnaces) 31a/Ame
COUNTER-FLOW (cooling towers) ..30b/Ma
COUNTERCHEF (surface units) 25a/Pr
COUNTERFLO (space heaters) 31c/Dr
COUNTERFLOW (cooling towers) 30b/Ma
COUNTERFLOW (heating, cooling units) 27a/Cr
COUNTERFLOW (winter air conditioners) 31a/Ai; 31a/Air
COVER CRETE (finish plaster) 12e/Na
COYLAN (water closets) 27a/Ri
CRAB ORCHARD (quartzite) 4c/Cr
CRAFTCO (cement paint) 15/Nat
CRAFTEX (paint) 15/Nat
CRAFTITE (wall coating, sealer) 15/Nat
CRAFTLINE (linoleum) 13i/Arm
CRAFTONE (resin-emulsion) 15/Nat
CRAFTWALL (plywood panels) 5b/Ro
CRANE-LINE (boilers, cabinets) 27a/Cr
CRAXEMENT (patching cement) 9/Ce
CREO-DIPT (shingles, stains) 8d/Cr
CREO-PINE (wood block flooring)...13J/Sou
CRESCRETE (hardeners) 9/Ce
CRESMIX (floor resurfacers) 9/Ce
CRESOLAC (water repellents) 9/Ce

CREST (ceramic tile grout, mortar)....13c/Ka
CREST (wood doors) 16c/Su
CRESTLINE (wood windows and doors).17c/Si
CRESTLYN (kitchen units) 25b/Cr
CRESTMONT (fixtures, sinks) 27a/Cr
CRESTONE (acoustical materials) 11a/Ar
CRESTOPANE (insulating glass) 17c/Si
CRESTWOOD (flooring) 13J/Bru
CRESTWOOD (locksets) 18e/Co
CRETEMIX (concrete accelerator, densifier) 9/Tr
CRETEPLANK (concrete slab) 2d/Mar
CRITERION (bathtubs, lavatories, water closets) 27a/Cr
CRITERION (steel chairs) 23o/Ha
CRITTALL (steel windows) 17b/Cr
CROSS-FLOW (cooling towers) 30b/Ma
CROWN (chalkboards) 23e/We
CROWN (flush valves) 27b/SL
CROWN (lavatories) 27a/Cr
CROWN (lighting fixtures) 33a/MiL
CROWN PRINCE (paper towel holders) 27e/Cr
CROWN RECESS (towel cabinets) 27e/Cr
CROWN VINYL (vinyl flooring) 13i/Sa
CRYSCOAT (phosphate undercoat) ...23d/Pe
CRYSTAL (roofing asphalt) 8a/Ba
CRYSTAL-GLAZE (floor, wall tile)....13c/Sty
CRYSTALETTES (floor, wall tile)......13c/Sty
CRYSTALITE (vinyl floor tile) 13i/Ke
CRYSTALLINE (ceramic tile) 13c/We
CRYSTALLINE (glazed tile) 13c/Ro
CRYSTALOID (masonry treatments) ...9/Co
CRYSTEEL (chalkboards) 23e/Ed
CRYSTO-GLAZE (ceramic floor tile)...13c/CL
CRYSTOLON (sidewalk abrasive) 13g/No
CRYSTOPAL (lighting glass) 33b/Co
CU LOUVRES (louvered ceilings, lighting fixtures) 33a/Ne
CUBER-COOLER (beverage coolers)...26a/Jo
CUBI-TRAC (cubicle curtain track)....22c/Ad
CUMMINS (diesel generator units) ..32c/Cu
CUPPLES (aluminum windows) 17a/Cu
CUPPLES (curtain walls) 3a/Cu
CUPPLES (grid ceiling systems) 11b/Cu
CUPRA (locks) 18e/Sc
CURB-SIDE (depositories) 23b/Mo
CURE-IT (concrete curing compound)..13h/Pr
CURE-N-SEAL (concrete floor curing agent, sealer) 9/Tr
CURE-SEAL (masonry treatments) 9/Co
CURECOTE (curing compounds) 9/Up
CURON (acoustical, insulating wall and ceiling coverings) 13k/Cu
CURTISTRIP (raceways) 33a/Cu
CURTITION (accordion doors, partitions) 16e/Cu
CURVIT-SURE (curtain tracks) 23g/Au
CUSH-N-CLIP (gypsum wallboard acoustical fastening system) 12c/Nat
CUSHION-PLY (laminated block floor system) 13J/Mo
CUSHION-SEAL (lampholders) 33a/Sto
CUSHIONER (secretaries' chairs) 23o/Re
CUSHIONTONE (acoustical materials).11a/Ar
CUSHIONTONE (fireproof formboard) 2d/Ar
CUSTOM CLOUD (floor tile) 13i/Ro
CUSTOMFOLD (sliding doors) 16e/Am
CUSTOM LINE (bathroom cabinets, accessories) 27d/Pa
CUSTOM-LINE (coat and hat racks) ..23d/Vo
CUSTOM-LINE (curtain walls) 3a/Ne
CUSTOM LINE (movable partitions) ...22a/Ar
CUSTOM LINE (skylights) 20a/Ma

CUSTOM ROYAL (doors) 16c/Un
CUSTOM-TINT (paint colors) 15/Nat
CUSTOMLINE (flush overhead doors) 16i/Mc
CUSTOMLINE (dishwashers, refrigerator-freezers) 25a/Hot
CUSTOMLINE QUIKONECT (refrigerator racks) 25a/Hot
CUSTOMUSIC (background music system) 34a/Auo
CUTLER (mail and communication chutes) 23b/Cu
CUTLER (mail and letter boxes) 23b/Cu
CUTLER (mail handling equipment)..23b/Cu
CUTLER-HAMMER (controls, control centers) 32a/Cut
CYCLONE (fencing) 22g/Cy
CYCLORAMA (curtain tracks) 23g/Kn

d

DFPA (Douglas Fir Plywood Assn.)....5b/Do
D & H (aluminum and vinyl-on-steel doors) 16a/Dui
D&H (fire doors) 16b/Du
D & H (wood fire doors) 16c/Dus
D-J (mortar) 9/St
D-S (fire resistant doors) 16c/Ow
D-S (partition studs) 12a/Do
DA-NITE (heating controls) 31i/Mi
DAIRY-STOR (refrigerator racks) 25a/Hot
DAL-DECA (glazed tile) 13c/Da
DAL-DURA (glazed tile) 13c/Da
DAL-TILE (glazed tile) 13c/Da
DALMATIAN (vinyl floor tile)........13i/Do
DALMO (wood window hardware)....18b/Da
DANA (urinals) 27a/Ri
DANBY (marble) 4b/Ve
DARACONE (masonry water repellent).9/De
DARATARD (concrete retarder) 9/De
DARAWELD (concrete bonding agent)..9/De
DAREX AEA (air-entraining admixture).9/De
DARI-O-MATIC (milk dispensers) 26a/Au
DARIEN (locks) 18e/Sa
DARIEN (lock escutcheons) 18e/Sc
DARK-O-MATIC (lightproof window shades) 22e/Ra
DARKO (window shades) 19c/Jo
DATACENTER (controls) 31i/Mi
DATA-LENS (lighting glass) 33b/Co
DAVARLINE (metal protection coating)..9/Ha
DAVIS (efficiency kitchens) 25b/Da
DAWES (urinals) 27a/Ri
DAY-BRITE (lighting fixtures) 33a/Da
DAY-LITE (enamel) 15/GLi
DAYLUME (lighting fixtures) 33a/Da
DAY-TEX (lighting louvers) 33a/Da
DAYTON (fire protection equipment)..30f/Fy
DE LUXE (medicine cabinets) 27d/Ke
DE LUXE (water closets) 27a/Ca
DE WITT (sealing and caulking compounds) 29a/De
DEAN (incinerators) 28a/Wa
DEBONAIR (refrigerator-range-sink combination) 25b/Ac
DECOR (insulating tile) 10a/Na
DECOR-A-LITE (lighting fixtures) ...33a/MiL
DECORA (glass blocks) 3e/Pi; 7b/Pi
DECORAIL (plastic handrail) 6e/BL
DECORALT (decorative coatings) 9/FL
DECORATOR (ceramic tile) 13c/We
DECORAY (linoleum) 13i/Arm
DECORDER (aluminum and vinyl-on-steel doors) 16a/Dui
DECORDER (wood fire doors) 16c/Dus
DECORFOLD (accordion doors) 16e/Cu

DECOTILE (tile) 13c/Mos
DECROBORD (ceiling panels and wall plank) 10a/Jo
DECROTONE (ceiling panels) 10a/Jo
DED-LEVL (bitumen) 8a/Fr
DEEP SET (terrazzo seal) 9/Gu
DEEP-TEX (asbestos-cement siding shingles) 8c-Na
DEEPTEX (asbestos shingles) 8c/Ke
DEFENDER (locksets) 18e/Co
DEHYDRATINE (accelerator, water repellent, hardeners) 9/Ho
DEKORON-COATED (conduit) 32b/Re
DE-LUXE (toilet partitions) 22b/AL
DELCO-MATIC (door operator) 16i/Cra
DELFAIR (wood flooring) 13J/Fa
DELIA (door slats) 16g/Ba
DELTA (ball faucets) 27b/De
DELUXE (bathroom cabinets) 27d/Mi
DELUXE (chalkboard trim) 23e/Go
DELUXE (display cases) 23e/Po
DELUXE (shower doors and enclosures, tub enclosures) 27c/Ke
DEMICON CURE-HARD (concrete coating) 9/Mc
DENSE-TOP (surface hardener) 13h/Pr
DENSET (accelerators) 9/Pa
DENTYN (lavatories) 27a/Ri
DENVER (sinks) 27a/Bri
DERBY (lighting fixtures) 33a/Da
DESIGN X (linoleum) 13i/Co
DETECT-A-FIRE (fire detectors) 34a/Fe
DETECTEDGE (safety devices) 22d/Co
DETREX POWER FLOW (swimming pool filters) 23k/De
DETROITER (garage doors) 16i/Be
DEVAC (glass walls) 17a/Dev
DEVOPAKE (paint) 15/Dev
DEVRON (epoxy resins) 9/Tru
DEWEY (urinals) 27a/Ri
DEWK (plastic sealers)..............29a/De
DEX-O-KOTE (vinyl coatings) 13i/Cr
DEX-O-TEX (flooring and roof deck coverings) 13i/Cr
DIAFLO (air conditioners).31a/Am; 31a/Ame
DIAL-A-DRINK (bubblers) 30d/Eb
DIAL-A-FOOD (food warming controls) 26b/Ba
DIAL-ESE (plumbing, fittings) 27a/Cr
DIAL-O-VENT (garage ventilation)...31e/Na
DIAL X (telephone systems).........34a/Str
DIAMOND (flush valves) 27b/Sp
DIAMOND-CRETE (masonry treatments) 9/Co
DIAMOND LUSTRE (wood floor finish) 13J/Wo
DIANA (cabinet sinks) 25b/Yo
DIANA (lavatories) 27a/Cr
DIATOMITE (pool filters) 23k/La
DIEBOLD (bank equipment) 23b/Di
DIELDRIN (termite control) 5d/Sh
DIELUX (lighting fixture frames) 33a/Pr
DIFFAXIAL (loudspeakers) 34a/Un
DIFFUSA-LITE (hung ceiling units) 33a/Di
DIFFUSAIRES (air diffusers) 31f/Har
DIFFUSEX (pattern glass) 7a/Am
DIFFUSICONE (loudspeakers) 34a/Un
DILATO (joint fillers) 9/Wet
DIPLOMA (window shades) 19c/Jo
DIPLOMAT (electric door operators)..16g/La
DIPLOMAT (key wall cabinets) 18e/Moo
DIPPERWELL (counter sanitation units) 26d/Ba
DIRECT-A-CALL (private telephone system) 34a/Ke
DIRECTILATOR (roof ventilators) 31a/CL
DIRECTOR (lighting fixtures) 33a/Sm

DIRECTOR LINE (office desks, files)....23o/Ar
DIRECTORY (telephone booths) 34a/Sh
DISCO (aluminum windows, curtain walls) 17a/De
DISCO (prison equipment) 23m/De
DISH-O-LATER (dishwashers) 26d/Ba
DISPOSALL (food waste disposers) 24a/Gen; 25a/Hot
DISPOSALL (incinerators) 28a/Go
DIVIDER-WALL (partitions) 22a/Hau
DIXIE (floor hinges) 18e/Bo
DOHERTY SILENTAIRE (roof ventilators) 31e/Do
DOME-AIR (ventilating skylights) ..20a/Van
DOMELITE (plastic dome skylights)..20a/Van
DOMETTE (small capacity fans) 20c/Pe
DOMEX (roof ventilators) 20c/Pe
DONN (ceiling suspension systems) ..11b/Do
DONORA (urinals) 27a/Ri
DONOVAN (windows) 17b/Tr
DOORMASTER (garage doors) 16i/Cra
DOORNAMENTS (door panel designs)16i/Ba
DOR-GARDS (hinge covers) 18e/Do; 18e/Dor
DOR-LESS-DOR (air curtain doors) ..16L/Su
DOR-O-MATIC (door controls) 18e/Do; 18e/Dor
DOR-SEAL (weatherstripping) 19b/Ch
DORCEL (garage doors) 16i/Ove
DORCHESTER (locksets) 18e/Sc
DOREX (air recovery equipment) 31f/Co
DORM LINE (dormitory furniture) 23i/Sim
DORWALL (aluminum sliding glass doors) 16d/Ac
DOUBLE-FLOW (cooling towers) 30b/Ma
DOUBLEX (pattern glass) 7a/Am
DOUBLE WHITE (paint) 15/Ca
DOWNLITE (lighting fixtures) 33a/Ce
DOXPLANK (reinforced concrete slab) 2d/Do
DRAFTITE (weatherstripping) 3f/St
DRAFTITE (wool pile weatherstrip)...17b/CLa
DRAIN-DRI (pumps) 30a/Ye
DRAINTRED (matting) 13i/Ar
DRAMALITE (lighting fixtures) 33a/Ce
DRAVO WELDED (gratings) 13a/Dr
DRAVO PRESSURE-LOCKED (gratings).13a/Dr
DREXEL (junior toilet compartments).22b/Ac
DREXEL (lavatories, water closets)....27a/Cr
DRI-COOLER (cooling towers) 30b/Ma
DRI-GLOSS (finishing wax)...........15/Min
DRI MASTER (towel dispensers) 27e/St
DRI-RITE (enamel) 15/Na
DRI-SEAL (masonry treatments) 9/Co
DRI-SET (grouting) 13c/Ch
DRI-SPEEDWALL (tile) 4f/Na
DRI-VAC (wood flooring treatment) 13J/Ro; 13J/Rob
DRIFTONE (acoustical materials).....11a/Ba
DRIVE-ANCHOR (fencing posts) 22g/An
DRIVE-DUCT (fans) 31e/Pe
DRIVE-RITE (nails) 18a/In
DRIWAL (limestone coatings) 15/GLi
DROPOSITORY (depositories) 23b/Mo
DRUM N'HALF (incinerators) 28a/Br
DRYCOLOR (cement colors) 9/Pa
DRYCRETE (densifiers) 9/Pa
DRYDEN (lavatories) 27a/Bri
DRYFOL (building insulation) 10a/Re
DRYJOINT (pointing mortar) 9/St
DRYSEAL (cooper tube) 29a/Rev
DRYWAY (draingates) 13a/Ir
DUAL-BLOWER (ventilating hoods)...31e/Br
DUAL DUCT (air diffusers) 31f/An
DUAL-LITE (emergency lights) 33a/Du
DUAL SEAL (rubber closures) 8b/Fa
DUALVENT (roof ventilators) 20c/Oc

DUAMESH (rib lath) 12a/Pe
DUBL-COVERAGE (asphalt shingles)...8c/Ru
DUBL-DOME (plastic skylights) 20a/Pa
DUBLECOTE (shingles) 8a/Ba
DUBUQUE (partitions) 22d/Du
DUCHESS (bathroom cabinets) 27d/Mi
DUETTE (bathroom cabinets) 27d/Mi
DUKE (water closets) 27a/Bri
DULAMEL (paints, enamels) 15/Moo
DUNBAR (urinals) 27a/Ri
DUO (group washing equipment) ...27a/Br
DUO-BASE (cove bases) 13g/In
DUO BLO (furnaces) 31a/Ame
DUO-CHECK (door checks) 18e/Ri
DUO-JOBMASTER (fastening tools) ..2i/Ram
DUO-TEX (tile finish) 11a/Ce
DUOLITE (safety glass) 7a/Pi
DUOLUX (hardboard panels)...8b/Ma; 8b/Mas; 14b/Ma; 14d/Mas
DUPLATE (plate glass) 7a/Pi
DUPLEX (corkboards) 23e/Be
DUPLEX (gratings) 13a/Ir
DUPLEX (loudspeakers) 34a/AL
DUPLEX (underlayment lining felt) ...13i/Co
DUPLEX (wallboard) 10a/Uni
DUR-A-BEAD (corner beads) 12c/Uni
DURA-DRI (masonry coatings) 15/Un
DUR-A-FLEX (sectional units)........23L/Du
DUR-O-LASTIC (caulking compounds)...9/We
DUR-O-WAL (masonry reinforcement) 4h/Du
DURA-STOP (hydraulic cement) 15/Un
DURA-TOPP (roofing) 8a/Ca
DURA-TUBE (heat exchangers) 31b/Ja
DURA-VENT (gas vent pipe and fittings) 31f/Du
DURA-WOOD (block, strip flooring)..13J/Bru
DURABILT (wood columns) 5c/Ha
DURACITE (chalkboards) 23e/CL
DURACLAD (gas water heaters) 30c/Sm
DURACO (greaseproof tile) 13i/Az
DURAFAX (hardeners) 9/Ho
DURAFLEX (thresholds) 19b/Dur
DURAFLOR (floor tile) 13c/Roy
DURAFLOR (rubber base coating) 13h/Pr
DURALAB (laboratory equipment, furniture) 23L/Du
DURALITE (aluminum windows) 17a/Am
DURALITE (wood floor sealer) 13m/In
DURAMIC (glazed brick) 4f/Ha
DURAPLASTIC (white portland cement) 4i/Unv
DURAPLY (doors) 16c/Un
DURAPLY (plywood panels) 5b/Un
DURASAN (vinyl-surfaced gypsum wallboard) 12c/Nat
DURASPEED (fire protection equipment) 30e/Gr
DURASPEED (sprinklers) 30e/Gr
DURASTEEL (chalkboards) 23e/CL
DURATACH (lighting fixtures)........33a/Wh
DURATITE (aluminum and steel skylights) 20b/Va
DURATONE (counter, sink tops) 25b/ELk
DURATREM (concrete floor topping)....9/Tr
DURAVAL (paint) 15/Un
DURCO (rope packing) 29b/Du
DURCON (laboratory sinks) 29b/Du
DUREX (lighting fixtures) 33a/Wh
DURHAM (public seating equipment).23i/Du
DURIRON (pipe, drains) 29b/Du
DUR-O-LASTIC (caulking compounds) ..9/We
DURO (toilet partitions) 22b/Fi
DURO-MIX (hardener, densifier) 9/Aq
DURO-SEAL (floor treatment) 9/Aq
DURO-TILE (spark arresters) 28a/Sar

trade names

DUROC (finish) 8c/Ru
DUROCON (metallic hardener) 9/Aq
DUROLITE (tileboard) 2i/Ins; 10a/Ins
DURON (hardboard) 10a/Uni
DUROPLATE (metallic aggregate) 9/Aq
DUROTRED (matting) 13i/Ar
DURUNDUM (non-metallic aggregate) ..9/Aq
DUSPOSAL (vacuum cleaning systems).28b/Va
DUSTITE (panelboards) 32a/Ad
DUSTON COLORTOP (masonry paint)...9/Ce
DUVINAGE (spiral stairs) 6h/Duv
DUX-BAK (masonry treatments) 9/Pa
DYFOAM (plastic foam insulation) 10a/Dy; 10b/Dy
DYNACURVE (fans) 31a/CL
DYNASEAL (door hardware) 16i/At

e

EH (noise reduction panels, sound barriers, sound-insulating doors) ...11a/Ha
ESR (racks) 23c/Ea
E-Z GLIDE (sliding door track) 18g/En
E-Z-OPEN (freezer door fasteners) 23c/Ja
E-Z SOAK (finish lime) 12e/Na
E-Z WALL (movable partitions) 22a/Un
E-ZEE LOC (wood awning windows)..17c/Wo
E-Z-S (ceiling suspension systems)...11a/Un
EZ-A-WAY (bleachers) 23J/Ber
EZY-CLEAN (rubber stairtreads) 13i/Ro
EARLY AMERICAN BRAND (shingles, fencing) 8d/Co
EASTERN'S STAR (venetian blinds) 19d/Ea
EASY ACCESS (flagpoles) 6g/Bab
EASY ACCESS (hatchways) 16J/Ba
EASY-FIT (steam supply headers) 31g/We
EASY MOLD (fiber tubes) 2a/Ap
EASY-ONE-COAT (cement base coating) 9/Tru
EBONITE (masonry treatments) 9/Co
ECLIPSE (compressors) 31a/Fr
ECON (display cases) 23e/Po
ECON-O-CLAMP (concrete forms)......2i/De
ECON-O-MOLD (concrete forms) 2i/De
ECONACOUSTIC (formboard) 2d/Na
ECONACOUSTIC (wood fiber tile) ...11a/Na
ECONO-FLAP (towel holders) 27e/Bro
ECONO-LINE (curtain walls) 3a/Ne
ECONO-LOK (masonry reinforcement) 4h/Aa
ECONO-RAIL (railings) 6e/New
ECONODOR (flush doors) 16m/Fi
ECONOLAST (plastic tile) 13i/Vi
ECONOMY (copper roofing) 8b/Am
ECONOMY (door frames) 16b/Wi
ECONOMY 250 (corrugated asbestos-cement roofing, siding) 8c/Na
ECONOMY WALL (curtain wall systems) 3a/Rey; 3a/Reg
ECONORIB (roof decking) 2c/Fe
ECONOSTOP (door frames and seals) 16m/Fi
ECONOVENT (ventilators) 20c/We
EDDY (stokers) 31J/Ed
EDEN (water closets) 27a/Ri
EDGE-GLO (lighting fixtures) 33a/Cu
EDGE-LINE (curtain walls) 3a/Ne
EDISON-HEATUBE (electic range heating elements) 26c/To
EFFECTO (enamel) 15/Pr
EFFICIENCY (waterstops) 9/Wi
EFFICO (roof ventilators) 20c/Hi
EFROLITE (shower doors) 27c/Ef
EG-SHEL (paint products) 15/Sh

EGSCO (corrugated sheets) 8b/Sm
EGSCO (curtain walls) 3a/Sm
EGSCO (curtain walls, roofing, siding) 8b/Smi
EGSCO (roof deck) 2c/Sm
EGSCO (steel forms for concrete)....2a/Sm
EL DORADO (shower doors, tub enclosures) 27c/Ef
ELASTIC (caulking, glazing, etc.) 9/Ku
ELASTICSEAL (curtain wall caulking, sealing compound) 9/Ku
ELASTIGUM (cement) 8a/Ba
ELASTIGUM (liquid asphalt coatings, cement) 9/Ba
ELASTITE (asphalt, expansion joints) ...2i/Ca
ELASTITE (flashing block) 8a/Ca
ELAYNE (lavatories) 27a/Cr
EL CAPITAN (doors) 16i/Co
ELDORADO (bidets) 27a/Ca
ELECTRIC AIRE (electric dryers) 27e/EL
ELECTRIC DOORMAN (electric door operators) 16i/EL
ELECTRIC-LUMINUS (luminous ceilings) 33a/Lum
ELECTRICTUBE (electrical metallic tubing) 32b/CL
ELECTRIFLOOR (floor decking) 2c/Fe
ELECTRO-COLOR (electrochemical process) 17a/Fen
ELECTRO-DYNAMETER (elevator controls) 24c/Se
ELECTRO-FYRE (pilot ignitor)........31b/Ja
ELECTRO-LOADER (loading platform) 24a/GL
ELECTRO PAINTLOK (steel for painting) 6c/Re
ELECTRO-SHEET (cooper foil) 8b/Am
ELECTRIC-TRAVERSE (drapery hardware) 19d/Ma
ELECTRO-WELD (kalamein doors) 16b/Du
ELECTRO-WIND (ventilators) 20c/AL
ELECTROGLIDE (freezer door tracks)..23c/Ja
ELECTROMATIC (sprinkling system valves, controls) 30e/Mu
ELECTROMODE (electric heating systems) 31h/EL
ELECTRUNITE (conduit) 32b/Re
ELECTRUNITE (stainless steel tubing) ...6c/Re
ELECTRUNITE (structural tubing) 2f/Re
ELEGANCE (incandescent lighting fixtures) 33a/Pi
ELEVETTE (elevators) 24a/In
ELGO (louvers, shutters) 20c/AL
ELK-AIR (fire extinguishers) 30f/EL
ELKALOY (fire extinguishers) 30f/EL
ELKHART (extinguishers, extinguisher cabinets) 30f/EL
ELKINGTON GATIC (covers and frames) 6i/FL
ELLISON (louvers) 20d/EL
ELTIMECO (skeleton dial cocks) 34b/EL
EMBASSY (air conditioners) 31a/Yk
EMBASSY (key index trays) 18e/Moo
EMBECO (mortar) 9/Mas
EMERSON-ELECTRIC (fans, blowers)..31e/Em
EMERSON-ELECTRIC (fans, ventilators, chimes) 25a/Em
EMERSON-PRYNE (fans, blowers) 31e/Em
EMERSON-PRYNE (fans, ventilators, chimes) 25a/Em
EMCO (wardrobes, chalkboards) 23d/Eq
EMERITEX (emery hardener) 9/Aq
EMPEROR (water closets) 27a/Bri
EMPRESS (water closets) 27a/Ri
ENAMELITE (conduit) 32b/Re

ENAMELITE (sealing, caulking compounds) 3f/Pre
ENAMELKOTE (electrical metallic tubing) 32b/CL
ENAMELOID (paint products) 15/Sh
ENDFORM (concrete forms) 2a/Ce
ENDURANCE (ceramic tile) 13c/We
ENDURANCE (house paint) 15/GLi
ENDURO (block or pipe insulation)...10c/BaL
ENDURO (stainless steel) 6c/Re; 8g/Re
ENDUROSIGN (letters, signs) 23a/Sp
ENERGY (dumbwaiters) 24a/En
ENSIGN (diswashers) 26b/In
EPCO (magnetic cabinet hardware, sliding door track) 18g/En
EPO-TOX (epoxy resin) 9/To
EPOLITH (veneer) 9/So
E-POXITE (concrete surface treatments) 9/Tre
EQUAL-AIRE (incinerators) 28a/Sar
EQUAL-FLOW (water heater systems).30c/Ru
EQUIDEPTH (column construction systems) 2g/Lay
EQUITEMP (diffusers) 31a/Am; 31a/Ame
ERAYDO (zinc alloy) 8g/IL
ERAYDO (zinc sheet) 2i/Ho
ERDALITH (wood preservatives) 5d/Ko
ERECTO-FRAMING (store fronts) 16d/Sc
ERECTOMATIC (closed shelving).......23 /St
ERICKSON (folding tables) 23i/Ha
ESCALIFT (staircase elevators) 24a/Sh
ESCO (hydraulic elevators) 24a/Es
ESKA (bleachers and grandstands)...23J/Es
ESPRO (steel tubing) 2f/Es
ESR (racks) 23c/Ea
ESSEX (locks) 18e/Sa
ESSEX (glass blocks) 3e/Pi; 7b/Pi
ESTEY (toilet tissue, dispensers) 27e/Ste
EUCALK (caulking) 9/Eu
EUCO (masonry treatment) 9/Eu
EUCO WELD (bonding agents) 9/Eu
EUREKA (metal clad fire doors) 16b/Va
EVANS (hardware, wardrobes) 23d/Ca
EVECTAIRE (range hoods—fan and light combination) 25a/Pr
EVENGLO (plastic louvers) 33a/Sin
EVER GLO (lighting fixtures) 33a/Pr
EVERBOND (mastic cement) 13J/Bru
EVERGLAZE (tile) 13c/Mos
EVERJET (paint) 8a/Ba; 9/Ba
EVERLASTIC (masonry gaskets) 4J/Wi
EVERTEX (tile) 13c/Mos
EX-TRAND CORNERITE (corner lath) 12a/Wh
EXCEL-FRAMING (glass door frames).16d/Sc
EXCELLO (pre-fabricated chalkboards).23e/Lo
EXCELON (plastic tile) 13i/Arm
EXCELSIOR (shade cloth) 19c/Jo
EXCEPTIONAL (diving boards) 23k/Ki
EXECUTIVE (food warming cabinets).26d/Foo
EXECUTIVE (partitions) 22a/Mi
EXECUTIVE (steel chairs) 23o/Ha
EXECUTIVE (telephone booths) 34a/Sh
EXECUTONE (communication systems) 34a/Ex
EXHAUST-O-VENT (fume exhaust system) 31e/En
EXHAUST/MASTER (roof ventilators)..20c/Va
EXLITE (shade cloth) 19c/Jo
EXPAND-O-FLASH (waterstrops, flashings) 8g/La
EXPAND-X (expanded metal).6e/Un; 13a/Un
EXPELSOR (pneumatic ejectors) 30a/Ye
EXPLOSION RELIEF (ventilators) 20c/Va
EXT-DFPA (plywood) 5b/Do
EXTENDO-BAR (towel bars) 27d/Ha
EXTRU-SEAL (tape) 3f/Pe

EXTRUD-A-LUME (lighting fixtures)...33a/So
EXTRUDED LOUVER (louvers, penthouses, solar canopies) 20d/Ex
EYE-COMFORT (lighting fixtures) ...33a/Cu
EYEBROW (sunshade louvers) 20d/Air
EZ-A-WAY (bleachers and chair stands) 23J/Ber
EZEGLAZE (metal glazing bead).....17b/Ho
EZY-CLEAN (rubber stairtreads) 13i/Ro
EZY-FOLD (folding door assemblies) 18g/Kn
EXY-ROLL (sliding door track) 18g/Kn

f

FA (electrical products) 32a/Ad
F & A (floor construction systems) 2a/Fa
F/C (black granite) 4a/Fr
FAB-FORM (permanent steel forms)....2a/Pi
FABCO (rubber closures) 8b/Fa
FABRICORK (bulletin boards) 23e/CL
FABRICOTE (waterproofing membrane) 8g/Wa
FABRIGLASS (lighting fixture shades) 33a/Pr
FABRIKATED (registers) 31f/In
FABROID (water barrier fabric) 9/We
FACITE (aluminum facing) 21/Hi
FACTROLITE (glass) 7a/Mi
FAIENTEX (tile) 13c/Mos
FAIRBANKS-MORSE (emergency generating sets) 32c/Fa
FAIRHURST (folding walls) 22d/Fa
FAIRHURST (wardrobes) 23d/Fa
FAIRLAWN (carpet cushions) 13L/Go
FANJET (roof cooling systems) 30e/Mu
FANTOM GRIL (fan grilles)..........31e/Br
FARLODOR (flush doors) 16c/Fa
FAST-SERV (soda fountains) 26d/Bo
FAST-SET (tile adhesive) 13i/FL
FEATHER-TOUCH (exit devices) 18f/Sa
FEATHERFLEX (venetian blinds) 19d/Mo
FEDERAL (letter boxes) 23b/Cu
FEDERAL (lighting fixtures) 33a/Sm
FELTEX (roofing felt) 8a/Ca
FEMIGENE (urinals) 27a/Ri
FEN-AIR (hollow metal doors) 16b/Fe
FENACOUSTIC (acoustical plates) 2c/Fe
FENESTEEL (curtain tracks) 23g/Au
FENESTRA (aluminum windows) 17a/Fe
FENESTRA (floor, roof panels) 2c/Fe
FENESTRA (hollow metal door units)..16b/Fe
FENESTRA (wall panels) 3b/Fe
FENESTRAWALL (curtain wall systems).3a/Fe
FENLITE (metal finish) 17a/Fe
FENMARK (steel curtain wall systems).3a/Fe
FENWALL (aluminum curtain wall systems) 3a/Fe
FERA-FLOW (non-slip paint) 13b/Am
FERA-MAT (non-slip flooring) 13b/Am
FERALUN (iron treads) 13b/Am
FEREM (hardeners) 9/Ho
FERON-METALLIC (floor hardeners) 9/La
FERRICON (hardeners) 9/Tru
FERRO-BAR (masonry treatments) 9/Co
FERRO-FAX (colors, hardeners) 9/Ho
FERROBORD (steel deck) 2f/Tr
FERROCON (iron waterproofing) 9/Aq
FERROGRIT (floor plates, treads) ...13b/Wo
FERROKOTE (masonry treatments) 9/Ce
FERROLITH (grouting, hardener, colorer, dampproofing) 9/So
FERROLUX (shower cabinets) 22b/Fe
FERROMETAL (toilet, shower partitions) 22b/Fe
FERROSO G (metallic grout) 9/Tre
FERROSO W (metallic waterproofer)..9/Tre
FERROX (abrasive surfacers) 13b/Am

FESCO BOARD (roof-deck insulation) 10a/Sc
FESTOON (expanded metal) 6e/Un
FEUREX (borosilicate glass) 7a/Am
FIBER KING (mats) 13i/Ko
FIBERCOTE (insulation protection) ...10c/BaL
FIBERESIN (plastic panels) 14b/Fi
FIBERGLAS (built-up roofing) 8a/Ow
FIBERGLAS (ceiling board) 11a/Ow
FIBERGLAS (fenestration fabrics) 19d/Ow
FIBERGLAS (form board) 2d/Ow
FIBERGLAS (high and low temperature insulation) 10c/Ow
FIBERGLAS (insect screening) 19a/Ow
FIBERGLAS (polarized light panels)...33b/Ow
FIBERGLAS (roof insulation) 10a/Ow
FIBERGLAS (wall insulation) 3f/Ow
FIBERLITE (tileboard) 10a/Ins
FIBEROCK (roofing sheet) 8a/Ca
FIBERPLANK (insulating roof deck)....2d/Mat
FIBRASLATE (chalkboards) 23e/So
FIBRETONE (acoustical ceiling panels) 10a/Jo
FIBRETONE (fiber tile) 11a/Jo
FIBREX (felts, roofing cement) 8a/FL
FIBERGLASS (lighting fixture shades)..33a/Pa
FIELD-FAB (insulated curtain walls) ...3a/Sm
FIGURGRAM (electric scoreboard)....23k/Fa
FILIGRILLE (interior decorative screens, grillework) 22h/Ho
FILLMORE (locks) 18e/Sa
FILON (plastic panels) 7d/Fi
FILTER-FLO (washers) 25a/Gen
FILTER-PAK (filter/purifiers) 30d/Su
FILTEX (paint) 15/Pr
FILTRINE (coolers, filters, etc.) 30d/Fi
FILTRON (light, heat control panels) 7d/AL
FIN-VECTOR (radiation) 31a/Dun
FINE-FYBER (insulating felt) 10c/BaL
FINETEX (pattern glass) 7a/Am
FING-R-GARD (safety door edges)..16b/Ov
FIRE-CHEX (shingles) 8c/Ca
FIRE-CHEX (vapor barriers, joint fillers, adhesives) 8a/Ca
FIRE-FIGHTER (formboard) 2d/Na
FIRE GARD (acoustical plaster) 12d/Gr
FIRE GARD (thermostats) 26c/To
FIRE-SHIELD (fireproof wallboard) ..12c/Nat
FIRE-SHIELD (fireproofing plaster)...12e/Na
FIRE-SNUF (plastic panels) 7d/Re
FIRE-TROL (steel columns) 2g/LaL
FIRE VALVE (roof ventilator) 20c/Sw
FIRE VENT (roof ventilators) 20c/Va
FIREBLOCK (fire resistant panels) 7d/Ly
FIREBOX (boilers) 31a/Ame
FIRECODE (fire-resistant wallboard)..12c/Uni
FIREPROOFER (tile) 4f/Na
FIRESTOP BESTWALL (gypsum wallboard) 12c/Be
FIRESTOPPER (poured-in-place gypsum roof decks) 2d/Be
FIRM-GRIP (gratings) 13a/Bu
FIRMA (roof ventilators) 20c/Hi
FIRZITE (fillers, stains) 15/Uni
FIRZITE (plywood finish) 5b/Un
FITRITE (leader bands, snow guards, roof strainers) 8g/Le
5-STAR (bank vault entrances, depositories, depository windows) 23b/He
FIXT-AIRE (registers and grilles) 31f/Har
FLAKE KING (ice flakers) 26a/La
FLARE (lockset) 16b/Ce
FLASHTITE (flashings) 8a/Ru
FLAT DECK (fire hatches) 20c/Va
FLAT-RITE (paint products) 15/Sh
FLAT-TONE (paint products) 15/Sh

FLATSLAT (counter shutters) 16g/Cor
FLEETLITE (aluminum windows) 17a/FL; 17a/FLa
FLEETLITE (sliding glass doors) 16d/FL
FLEETWOOD (garage doors) 16i/Cra
FLEETWOOD (tellers counters) 23b/Mos
FLEETWOOD (wood doors) 25b/To
FLETCHER (granite) 4a/FL; 4a/FLe
FLEX-BAR (registers) 31f/Un
FLEX-CLIP (gypsum wallboard acoustical fastening system) 12c/Nat
FLEX-GRID (conveyor belts) 22g/Cy
FLEX-I-TRAC (curtain tracks) 23g/Au
FLEX-KRETE (masonry treatments) 9/Co
FLEX-O-BOND (rubber bond coat)....13h/FL
FLEX-WALL (interchangeable partitions) 22b/Am
FLEX-WALL (steel partitions) 22a/Am
FLEXACHROME (vinyl-asbestos floor tile) 13i/FL
FLEXALUM (aluminum awnings) 19e/Bi
FLEXALUM (venetian blinds) 19d/Br
FLEXBEAD (corner bead) 12a/Wh
FLEXBOARD (asbestos insulating sheets) 8b/Jo
FLEXBOARD (chalkboard) 23e/Go
FLEXCELL (joint fillers) 10a/Ce
FLEXGOLD (vinly-asbestos floor tile)..13i/FL
FLEXHARD (epoxy coatings) 15/So
FLEXI (steel shelving) 23f/Bo
FLEXI-BINS (bins) 23f/Bo
FLEXI-FLOR (rubber flooring) 13i/Ra
FLEXICORE (concrete slabs) 2d/FL
FLEXIDOR (rubber doors) 23c/Ja
FLEXIFLO (air diffusers) 31f/Uni
FLEXIPHONE (intercommunicating systems) 34a/Du
FLEXIMATIC AIR JET (clothes folders) 27g/Tr
FLEXIVENT (window vents) 17c/An
FLEXIVENT-FLEXIVIEW (wood windows) 17c/An
FLEXIVIEW (picture windows) 17c/An
FLEXLINK (rolling grilles) 16g/Ab
FLEXO-FOLD (folding tables, benches).23i/Sc
FLEXOTILE (flooring) 13h/FL
FLEXSTEEL (conduit system) 32b/Na
FLEXSTONE (asbestos roofing) 8a/Jo
FLEXTITE (removable window operative hardware) 18a/Gr
FLEXTOP (roofing coatings) 8a/Ca
FLEXWEAVE (vinly-asbestos floor tile).13i/FL
FLEXWOOD (veneers) 5b/Un
FLEXWOOD (wood veneers) 13k/Uni
FLINTAR (sealers) 9/FL
FLINTDEK (anti-slip coatings) 9/FL
FLINTGLAS (roofing sheets) 8a/FL
FLINTKOTE (asphalt flooring) 13i/FL
FLINTKOTE (asphalt flooring, waterproofing compounds) 9/FL
FLINTKOTE (built-up roofing) 8a/FL
FLINTKOTE (insulation products) 10a/FL
FLINTKOTE (masonry treatments) 9/FL
FLINTKOTE (roof decking) 2d/FLi
FLINTMASTIC (asphalt floor surfacing) ..9/FL
FLINTOX (hardeners) 9/To
FLINTRIDGE (aluminum windows) ...17a/Fli
FLITE-CHECK JOBMASTER (fastening tools) 2i/Ram
FLO-CONTROL (control valves) 31i/Be
FLO-FAN (fans, ventilators) 25a/Em
FLOATING CROSS (foot control mechanism) 27a/Br
FLOOD-LITE (lighting fixtures) 33a/Wh
FLOODLITER (service station lighting) 33a/Co
FLOOR-SHINE (floor wax) 13m/Hu

trade names

FLOORSTEEL (surface armor)	13a/KL
FLOR-CLEAR (toilet partitions)	22b/AL
FLOR-TREAT (floor treatments)	13m/Mu
FLORENAMEL (enamel)	15/GLi
FLORENTINE (glass)	7a/Mi
FLOREX (pattern glass)	7a/Am
FLORHIDE (enamel)	15/Pi
FLOROK (chemical hardener)	13h/Pr
FLORTEX (glazed floor tile)	13c/Ro
FLOUR CITY (windows)	17a/FLo
FLUAT (hardeners and densifiers)	9/Tre
FLUE-FED (incinerators)	28a/Sar
FLUOR-SOLAR (stainless steel fans)	30b/FL
FLUOR-WESTERN (spiral bevel gears)	30b/FL
FLUSH-METAL (hospital cubicles)	22b/FL
FLUSHART (toilet compartments)	22b/FL
FLUSHDUCT (duct systems)	32b/Na
FLUSHIELD (urinal shields)	22b/FL
FLUSHITE (toilet compartments)	22b/FL
FLUSHMETAL (toilet compartments)	22b/FL
FLUSHOWER (shower cabinets)	22b/FL
FLUSHSCREEN (urinal shields)	22b/FL
FLUSHUNG (toilet compartments)	22b/FL
FLUSHWALHUNG (toilet compartments)	22b/FL
FLUSHWING (urinal shields)	22b/FL
FLUTEX (pattern glass)	7a/Am
FOAM FILL (air-entrained concrete)	2d/Co
FOAM-LITE (refrigerator doors)	23c/Bu; 23c/But
FOAMGLAS (cellular glass insulation)	10a/Pi
FOAMGLAS (glass)	7a/Pi
FOAMGLAS (insulation)	3e/Pit
FOLD-A-DOOR (tub enclosures)	27c/Ke
FOLD-FAST (clothes folders)	27g/Tr
FOLD-O-LEG DOUBLER (portable tables and benches)	23i/Mi
FOLDER-WAY (folding partitions)	22d/Ri
FOLDOOR (folding doors)	16e/Ho
FOLDOOR (folding partitions)	22d/Ho
FOLLANSBEE (terne)	8b/Fo
FOOD FILE (refrigerators)	26a/Ko
FORBES (roof ventilators)	20c/We
FORDHAM (toilet compartments)	22b/Cu
FORESTONE (acoustical tile)	11a/Sim
FORM-COAT (masonry treatments)	9/Co
FORM-COTE (alkali-resistant coating)	13h/Pr
FORM-SAVER (plywood form coatings)	9/So
FORMCEL (concrete form coatings)	9/La
FORMFILM (form coating)	9/Ho
FORMFREE (tile)	13c/Mos
FORMICA (laminated plastic)	14a/Fo
FORMTEX (concrete form panels)	5b/Un
FORUM (lighting fixtures)	33a/Sm
FORTY-SIXTY (lighting fixtures)	33a/Cu
FOTA-LITE (lighting glass)	33b/Co
FOURCO (sheet glass)	7a/Fo
4-WAY (wood windows)	17c/Far
FRANTZ (garage doors)	16i/Fr
FREE-FLOW (vertical blinds)	19d/Ve
FRESCOR (acoustical tile)	11a/Ow
FRESNELITE (lighting fixtures)	33a/Ce
FRIARS LIGHT (church lighting)	33a/En
FRICK (air conditioning units, refrigeration equipment, compressors, etc.)	31a/Fr
FRICTEX (non-slip aggregate)	9/So
FRIGIDAIRE (kitchen equipment)	25a/Fr
FROST-AWAY (automatic defrosting)	25a/Hot
FROST-CAP (vinyl roof coating)	8a/De
FROSTOP (freezer door accessories)	23c/Ja
FRY (concrete inserts)	2i/Ho
FRY (roofing asphalt)	8a/Fr
FULITE (glass doors and frames)	16d/Sc
FULLMATIC (clothes washer controls)	27g/Tr
FULLVIEW (telephone booths)	34a/Sh
FURAMIC (design service)	22a/Vi
FURLATH (lath)	12a/In
FURNAFLEX (wood veneer)	14b/Wi
FUSE-O-LINK (doors, operators)	16h/CL
FUTURA (bronze castings)	6e/Li
FUTURA (lavatories)	27a/Ri
FUTURA (letter boxes)	23b/Cu
FUTURLITER (lighting fixtures)	33a/Gu
FYER-WALL (fire doors)	16h/Ri
FYER-WARD (fire doors)	16h/Ri
FYNAL-KOTE (shingle coatings)	8d/Cr
FYR-FYTER (fire protection equipment)	30f/Fy
FYRGARD (fire doors)	16b/Ri

g

G&G (ash hoists, sidewalk elevators, doors)	24d/GiL
G-B (acoustical ceiling board)	11a/Gu
G-B (curtain walls, ornamental metalwork)	3a/Ge
GB (revolving doors)	16f/Ge
GB (windows)	17a/Ge
G-B SNAP-ON (pipe insulation)	10c/Gu
G-E (coolers, fountains)	30d/Ge
G-E (kitchen equipment)	25a/Gen
G-E (laminated plastic surfacing)	14a/Ge
GER-PAK (polyethylene film)	9/Ger
GJ (door controls)	18e/GL
G-P (hardboard panels)	14d/Geo
G-P (lumber, sheathing, siding)	8b/Ge
G-P (plywood, plywood products)	5a/Ge; 5b/Ger
G-P (wood finish)	5b/Geo
G-P RIPPLEWOOD (wood panels)	5b/Geo
G-P STRIATED (wood panels)	5b/Geo
GR (metal partitions)	22a/Ga
GSD (glass sliding doors)	16d/GL
G-26 UNDERLAYMENT (latex floor underlayment)	13i/Cr
G-W (library equipment)	23f/GL
GALACEE (interior shutters)	19d/Pi
GALBESTOS (protected metal)	2b/Ro; 3c/Ro
GALOK (aluminum gratings)	13a/Ro
GALV-AFTER (chain link steel wire)	22g/Cy
GALV-KROM (pipe finish)	32b/St
GALVAKOTE (electrical metallic tubing)	32b/CL
GALVINOLEUM (metal coating)	15/Ru
GALVITE (conduit)	32b/Re
GALVITE (galvanized iron primer)	15/Sh
GARBAGE-HOG (incinerators)	28a/Br
GARFIELD (locks)	18e/Sa
GARNETT (church furniture)	23h/Gh
GARY (gratings, treads)	13a/Ro
GASLITE (gas lighting fixtures)	31a/Ar
GATES (concrete forming systems)	2i/Ga
GATES (waterstops)	2i/Gas
GATEWAY (building specialties)	2a/Ga; 2i/Gat
GATEWAY (electrical underfloor distribution system)	32b/Ga
GATEWAYDUCT (electrical underfloor ducts)	32b/Ga
GEARMOTOR (door operators)	16i/At
GEELOCK (crematories)	28a/KE
GEM FOAM (board or pipe insulation)	10c/BaL
GEMCO (hangers)	10a/Mo
GEMFIL (fitting or valve insulation)	10c/BaL
GENAFOAM (insulation)	10a/Ge
GENERAL (plastics)	13k/Ge
GENERAL CHEF (kitchenette units)	25b/Ge
GENERAL EXECUTIVE (refrigerators)	25b/Ge
GENEVA (steel hospital equipment)	23L/Gen
GENEVA (steel kitchen equipment)	23i/Ge; 25b/Gev
GENUWOOD (plastic laminates)	14a/Par
GEOMETILE (floor tile)	13i/Ro
GEORAMA (plastic tile)	13i/Ge
GER-PAK (polyethylene film)	9/Ger
GIANT JAMB (hinges)	18e/Mi
GIBRALTAR (flush wood doors)	16c/Ge
GIBRALTAR (shower receptors)	27c/Fi
GILCO (cranes, hoists, lifts)	24d/Gi
GIRAFFE (corrugated mats)	13i/Ar
GLAMOURLINE (commerical cooking equipment)	26c/Hot
GLAS-WICH (laminated safety glass)	7a/De
GLASIRON (porcelain enamel)	3c/Wo
GLASSEAL (glass)	7a/Li
GLASSTEEL (diffusers)	33a/Mu
GLASSTEEL (lighting fixtures)	33a/Wh
GLAZE-COAT (masonry treatments)	9/Co
GLAZECOAT (building boards)	10a/Jo
GLAZETEX (floor wax)	9/Aq
GLID-ON (mixing liquid)	15/GLi
GLID-TILE (plastic tile finish)	15/GL
GLID-TONE (stain, varnish, wood filler)	15/GLi
GLIDE (aluminum curtain walls)	3a/Gr
GLIDE (sliding doors)	16d/GLi
GLIDE-ALL (sliding doors)	16c/Woo
GLIDE-ON (paints)	15/GLi
GLIDORAMA (gliding windows)	17a/GLi
GLO-DULL (chalkboard trim)	23e/Lo
GLOBE (fire detectors, sprinklers)	30f/Fy
GLOBE (materials handling equipment)	24a/GL
GLOS-TONE (interior house paints)	15/Ma
GLOSS TONE (wall tile)	13c/Roy
GLOW-LITE (illuminated signs)	23a/Sp
GLOW TONE (paint)	15/Ame
GOLD BOND (asbestos-cement roofing, shingles, siding)	8c/Na
GOLD BOND (gypsum plaster)	12e/Na
GOLD BOND (gypsum roof deck)	2d/Na
GOLD BOND (insulation)	10a/Na
GOLD BOND (metal lath)	12a/Na
GOLD BOND (paint)	15/Nat
GOLD BOND (panels, roofing, siding)	8b/Na
GOLD BOND (sound control products)	11a/Na
GOLD BOND (wallboard)	12c/Nat
GOLD-N-CHEF (backbars)	26d/Pr
GOLD SEAL (cork bulletin boards)	23e/Co
GOLD SEAL (floor, wall coverings)	13i/Co
GOLDEN DOWEL (wood doors)	16c/Ro
GOLDEN GRIDDLE (griddles)	25a/Hot
GOLDEN RUB-TEX (carpet cushion)	13L/AL
GOLDEN TONE (sandstone)	4c/Br
GOLIATH (rolling grilles)	16g/Ki
GOTHAM (lighting fixtures)	33a/Go
GOULD (curtain, drapery hardware)	19d/Go
GOURMET (refrigerators)	25a/Rev
GOVERNAIR (registers)	31f/Un
GPX (overlaid plywood)	5a/Ge; 5b/Ger
GPX (sheathing, lumber)	8b/Ge
GRADE-AID (classroom cabinets, counters, sinks)	23i/Gr
GRADE-ROBE (lockers, wardrobes)	23d/Med
GRAINBOARD (gypsum board)	12c/Nat
GRANADA (lever handles)	18e/Sc
GRANCO (steel roof deck)	2c/Gra; 2c/Grn
GRAND PRIZE (finish)	15/Un
GRAND PRIZE (finishing line)	12e/Un
GRAND PRIZE (hydrated limes)	12e/Un
GRANDVIEW (mirrors)	27d/Mi
GRANITEX (hardeners)	9/Tru
GRANITEX (tile)	13c/Mos
GRANOLITH (rubber base paint)	15/Ba

trade names

GRANT (locks) 18e/Sa
GRANUX (fabricated stone) 4d/Gra
GRAPHOLITE (chalkboards) 23e/CL
GRATE-X (metal grating) ...6e/Un; 13a/Un
GRATELITE (light control louver) 33a/Gu
GRAVITY DRAIN (automatic dishwasher) 25a/Hot
GRAYLITE (insulating board, sheathing) 2i/Ins
GRAYLITE (sheathing) 10a/Ins
GRAYLITE-INS-LITE (formboard) 2i/Ins
GRAYLITE-FIBERLITE (formboard) 2i/Ins
GREEK KEY (floor tile) 13i/Ke
GREEN SEAL (paint) 15/Ha
GREEN STREAK (corner formers) 2i/Se
GREENHAVEN (prison lavatories) 27a/Ri
GRID SYSTEM (steel grid domes) 2a/Gri
GRIDSTEEL (armor grids) 13a/Ir
GRIDTONE (ascoustical materials) ..11a/Ar
GRIDWALL (aluminum curtain walls)..3a/Gr
GRIF-HO (toilet paper holders) 22b/We
GRILL-O-METRICS (grilles) 6a/BLu
GRILLINE (grilles) 31f/Uni
GRIP-CRETE (swimming pool paint)..15/Wa
GRIP-DEK (abrasive flooring) 13i/Pa
GRIP-LOK (incinerator corners) 28a/Un
GRIP-TITE (timber framing anchors) ...2i/Ha
GRIP-TREAD (abrasive flooring) 13i/Pa
GRIPSTAY (concrete inserts) 2i/Ho
GRIPWELD (gratings, treads) 13a/Ir
GUARD (vinyl wall coverings) 13k/CoL
GUARDIAN (curing, hardening, sealing compound) 9/Gu
GUARDIAN (toilet partitions) 22b/Pri
GUEST (lavatories) 27a/Bri
GUIDE-LINED (electrical tubing) 2f/Re
GUILDSET (clay tile contractors) 13c/Ti
GUMDROP (sealers) 20a/By
GUTHLITE (lighting fixtures) 33a/Gu
GYMLIFE (gloss finish) 15/Moo
GYMSTAND (bleachers, grandstands) 23J/Wa
GYPSOLITE (gypsum plaster) 12e/Na
GYROL (fluid drives) 31a/Ame

h

HB (building construction accessories).2i/Ho
H & B (movable partitions) 22a/Ha
H & J (aluminum curtain walls) 3a/Ha
H & J (doors) 16a/Ha
H & J (metalwork) 6e/Ha
H & K (architectural grilles) 31f/Ha
HCS (heating acoustical ceiling) 11a/Jo
H-H-M (bank vaults) 23b/He
HKP (sub-purlin sections) 2d/Cor
H-P (roof ventilators) 20c/Hi
HADDAM (lockset) 16b/Ce
HADES (aluminum paint) 15/Wa
HAKO (floor tile) 13i/Hak
HAKO-SERT (tile inserts) 13i/Hak
HAKOCOVE (cove base) 13i/Hak
HALL-MACK (bathroom accessories) ..27d/Ha
HALLOWELL (school shop furniture) ..23i/St
HALO-OF-HEAT (dryers) 24a/May
HALSEY TAYLOR (coolers, drinking fountains) 30d/Ta
HAMMERED (pattern glass) 7a/Am
HAND-PAK (insulation) 10a/Pr
HANDEE ANDEE (bins) 23f/Bo
HANDI-BOOTH (telephone booths) ..34a/Su
HANDI-DRIVE (conveyors) 24d/St
HANOVER (locks) 18e/Sc
HANSOLUX (acoustical tiles) 11a/Ha
HANSONITE (acoustical tiles) 11a/Ha
HANSOPAN (metal pans) 11a/Ha
HANSOSTAR (acoustical tiles) 11a/Ha
HANSOTEX (acoustical ceiling panels) 11a/Ha
HANSOTONE (acoustical formboard, acoustical systems) 11a/Ha
HAR-BAR (parking barriers) 23p/Ha
HARCOL REDI-MIXED (concrete hardener, colorer) 9/So
HARDING (locks) 18e/Sa
HARDWEAR (floor treatments) 9/Pa
HARMONITONE (tile) 13c/Mos
HARMONY (locksets) 18e/Co
HARRIS (hardboard flooring) 13J/Har
HARTER (stack chairs) 23o/Har
HARTFORD (incinerators) 28a/Na
HASKELITE (curtain wall panels) 3e/Ha
HASKELITE (institutional doors) 16c/Has
HASKO-PREG (laminated plywood)....3e/Ha
HASKO-STRUCT (plastic foam panel cores) 3e/Ha
HATCO (electric booster heaters).....26b/Ha
HAWS (coolers, fountains, faucets) ..30d/Ha
HAWS-KRAMER (flush valves) 30d/Ha
HAZEN (rolling doors) 16g/Ha
HEADERDUCT (underfloor wiring systems) 32b/Na
HEAT-A-LITE (heaters) 25a/Nu
HEAT-A-VENT (heaters) 25a/Nu
HEAT-O-MAT (heating mats) 13i/Ar
HEAT-X (heating, cooling equipment) 31a/Du
HEATFORM (fireplace heating units) ..31L/Su
HEATMASTER (water heaters)........31g/Ko
HEATSAVER (fireplaces) 31L/Do
HELIO-THERM (triple-wall shade fabric) 19c/He
HELIX (sash balances) 18a/Ca
HERCULES (curtain machinery) 23g/Au
HERCULITE (glass doors, frames) 16d/Pi
HERCULITE (plate glass) 3e/Pit
HERCULITE (tempered glass, doors, door frames) 7a/Pi
HERITAGE (tile flooring) 13i/Wr
HERRINGBONE (metal lath) 12a/Tr
HEX 'A-HE' DRAL (septic tanks) 30h/Ka
HEX-A-LUME (lighting fixtures. 33a/So
HEX-O-LUME (lighting fixtures) 33a/Wh
HEXTEEL (surface armor) 13a/KL
HI BOY (heaters) 31b/Cam
HI-BUILD (plastic coatings) 15/Su
HI-CON (floor cleaner) 13m/In
HI-CONE (aerators) 30a/Ye
HI-DUTY (spring hinges) 18e/Chi
HI-FORM (fireplace dampers) 31L/Su
HI-GLOSS (panel finish) 14b/Ma
HI-HEAT (aluminum paint) 15/Ame
HI-HEAT (paint products) 15/Sh
HI-LIFT (garage doors) 16i/Cra
HI-LIFT (overhead door tracks) 16i/Win
HI-LINE (toilet partitions) 22b/AL
HI-LITE (acoustical plaster) 11a/Uni; 12e/Un
HI-LITE (tile and plank finish) 10a/Uni
HI-RIB (rib mats) 13i/Paw
HI-SCOOLER (water coolers) 30d/Fi
HI-SPEED (dryers) 25a/Gen
HI-STILE (toilet, shower compartments) 22b/We
HI-TEMP (chalkboards) 23e/Go
HID-N-RAIL (door closers) 18e/Co
HIDE-A-WAY (kitchen units) 25b/Ac
HIFILITE (baffles) 34a/Lo
HIGH-BAY (mercury and incandescent reflectors) 33a/Sy
HIGH-LITE (sliding windows) 17c/Ro
HIGHLANDER (washers, dryers) 25a/May
HIL-TEX (floor sealers) 13m/Hi
HILTON (urinals) 27a/Bri
HIMCO (aluminum entrances) 16a/Hi
HIMCO (store fronts) 21/Hi
HISTORIC (paint) 15/Pi
HIWALK (gratings) 13a/Pe
HOAL (louvers) 16b/Am
HOBART (kitchen machines) 26b/Ho
HOEGGER (bathroom accessories) ...27d/Ke
HOEGGERLITE (medicine cabints) ...27d/Ke
HOHMANN (clothesline poles) 2i/Ho
HOLD-FAST (shade rollers) 19c/Ri
HOLFORD (casement windows) 17b/Ho
HOLIDAY (asphalt, vinyl-asbestos floor tile) 13i/FL
HOLLOKORE (acoustical tile) 11a/Sim
HOLLYWOOD (bathroom cabinets) ..27d/Mi
HOLORIB (roof decking) 2c/Fe
HOLOSTUD (partition systems) 12a/Na; 12c/Nat
HOMASOTE (building products) 10a/Ho
HOMELIFTS (home elevators) 24a/Sh
HOMEMAKER (sinks) 27a/Cr
HONEYLITE (luminous ceiling panels).33a/He
HONEYWELL (alarm systems, panelboard controls) 34b/Mi
HONEYWELL (panelboard controls) ..31i/Mi
HOOSIER (fire extinguishers) 30f/EL
HOPKINS (combination windows) 17b/Ho
HORIFOLD (bi-folding doors) 16h/Se
HORIZON (wall systems) 22a/Hau
HORNOLITH (hardeners) 9/Ho
HORNSTONE (hardeners) 9/Ho
HOT-SERVE (food warming cabinets).26d/Foo
HOTEL/MOTEL MASTER (communicating systems) 34b/Mi
HOTKOTE (electrical metallic tubing) 32b/CL
HOT'N'COLD (water fountains) 30d/Eb
HOTPOINT (kitchen, laundry appliances) 25a/Hot
HOTPOINT CUSTOMLINE (kitchen centers) 25a/Hot
HOUSEMART (wood doors) 16c/Ro
HOUZE (glass) 7a/Ho
HOZEGARD (fire hose cabinets, reels and connections) 30f/AL
HUB CITY (shade cloth) 19c/Ri
HUBBELL (wiring devices) 32b/Hu
HUBBELLITE (terrazzo cement) 13h/Hu
HUBBELLOCK (connectors) 32b/Hu
HUETEX (spandrel and pattern glass) 3e/Ame; 7a/Am
HUEWHITE (glare reducing glass) 7a/Am
HUMID-I-MAKER (humidifiers) 31i/Ar
HUMMER (partition systems).12c/Be; 12c/Bes
HUMPHREY (gas unit heaters)........31a/Ar
HUNTINGTON (floor wax, finish) ..13m/Hu
HURUNDUM (hardeners) 9/Tru
HUSH CLIP (partition systems) 12a/Pe
HUSH-TONE (ceiling tile) 10a/Ce
HUSH-TONE (insulating coating) 13h/Pr
HYDAPIPE (showers) 27b/Sy
HYDRATITE (water repellent) 9/Ho
HYDRO-BAR (flashing) 9/Mu
HYDRO-CHECK (water-repellent coating) 15/Nat
HYDRO-DENZ (accelerators) 9/We
HYDRO-FLO (heating, cooling systems) 31i/Be
HYDRO-GLIDE (folding bleachers)....23J/Ba
HYDRO-MAGIC (door operators) 18e/Sta
HYDRO-T-METAL (zinc alloy sheet metal) 6b/Hy
HYDROSHIELD (waterproofing admixture) 9/Tre

trade names

HYDRO-TWIN (water heaters) 30c/Vi
HYDROCEL (integral water-repellents)...9/La
HYDROCIDE (masonry treatment) 9/So
HYDROFOLD (folding bleachers) 23J/Ba
HYDROGUARD (shower regulators) ..27b/Po
HYDROLIFT (folding basketball backstops) 23J/Ba
HYDROMETALS (zinc alloy sheet metal) 6b/Hy
HYDROMENT (floor treatments) 9/Up
HYDROMENT (joint fillers, ceramic tile grout) 13c/Up
HYDRONON (foundation coatings) 8a/Ba; 9/Ba
HYDROPAKE (masonry coatings) 9/Up
HYDROTHERM (gas hot water heating boilers) 31g/Hy
HYLITE (glass) 7a/Mi
HYLOPLATE (chalkboards) 23e/We
HYLOPREST (chalkboards) 23e/We

i

I-BEAM (flush doors) 16c/Fa
ICL (floor finishing, maintenance products) 13m/In
ICEMAGIC (ice cube maker) 25a/Wh
IDEAL (conveyors, sterilizers, warming cabinets) 26d/Sw
IDEAL (wire connectors) 32b/Id
IDOR (aluminum sliding glass doors) 16d/Ado
ILG (ventilating equipment) 31e/IL
I-LINE (roof fans) 20c/AL
IPC (incinerators) 28a/In
IGAS (joint sealers) 9/Si
ILE-LITE (reflectors) 33a/Mu
IMPENTRA (screens) 16d/Su
IMPERIAL (air conditioners) 31a/Ai
IMPERIAL (sliding glass doors) 16d/Su
IMPERIAL (bathroom cabinets) 27d/Mi
IMPERIAL (display cases) 23e/Po
IMPERIAL (folding doors) 16e/Ne; 16e/St
IMPERIAL (freezers, ranges) 25a/Fr
IMPERIAL (furnaces) 31a/Gen
IMPERIAL (lighting fixtures) 33a/MiL
IMPERIAL (lock escutcheons) 18e/Sc
IMPERIAL (overhead doors) 16i/At
IMPERIAL (paint) 15/Un
IMPERIAL (partitions, walls) 22a/Jo
IMPERIAL VENETIAN (bathroom cabinets) 27d/Co
IMPERVITEX (waterproofing membrane) 8a/Ch
IMPERVO (paints, enamel) 15/Moo
IN-A-GROUP (showers) 27a/Br
IN-A-WALL (classroom wardrobes)....23d/Ri
IN-A-WALL (folding tables, benches).23i/Sc
IN-A-WALL (incinerators) 28a/In
IN-DOR-SEAL (weatherstripping) 19b/Ch
IN-SINK-ERATOR (garbage disposers) 25a/In
INADOR (door checks, closers).......18e/No
INCH-MARKED (conduit) 32b/Re
INCH-MARKED (electrical tubing) 2f/Re
INCINERETTE (incinerators) 28a/Am
INCLIN-ATOR (elevators) 24a/In
INDEECO (electric duct/space heaters) 31h/In
INDESTRUCT (wall fountains) 30d/Fi
INDURITE (hardeners) 9/Ce
INDUSTREX (pattern glass) 7a/Am
INDUSTRI-BOOTH (telephone booths) 34a/Su
INDUSTRIAL (lighting fixtures) 33a/MiL
INDUSTRIALIST (lighting fixtures) ...33a/Cu
INFAL (cork insulation) 10b/Re
INFRABLOCK (heat blocking ingredient) 7d/Ba
ING-RICH (porcelain enamel panels) 3c/Ing
INNER-FIN (condensers, cooling coils, water chillers) 31a/Du
INS-LITE (insulating board) ..2i/Ins; 10a/Ins
INSALUM (roof renewer) 13h/Pr
INSIDLINE (internal pipe insulation).10c/BaL
INSTAPAK (inverter power unit) 32c/On
INSTRUCTOR (lighting fixtures) 33a/Mi
INSUL-COUSTIC (insulating roof tile).2d/Fe
INSUL-FIL (insulation) 10a/Mir
INSULCAP (insulation coating) 15/GLi
INSULCOLOR (insulation finish) 10b/Ar
INSULCORE (door panels) 16e/CL
INSULITE (building insulation) 2i/Ins; 10a/Ins
INSULPRENE TWIST-LOCK (connectors) 32b/Hu
INSULROCK (roof decking) 2d/FLi
INT-DFPA (plywood) 5b/Do
INTEGRALOCK (locks) 18e/Sa
INTEGRO (treads) 13g/In
INTER-LOK (door frames) 16b/Amw
INTER-LOK (wall coping) 29a/Sti
INTERNATIONAL (industrial, aviation doors) 16h/Int
INTERNATIONAL (revolving doors) ...16f/In
INTEX (wood stains) 15/Ame
INTRAPLAST (masonry treatment).......9/Si
INVINCIBLE (fencing) 22g/Cy
INVINCIBLE (fire hose nozzles) 30f/Mc
INVISIBLE DOR-MAN (door controls) 18e/Dor
INVIZIBLE (sash balance) 18a/Gr
IPIK (wood doors) 16c/Ip
IRON-CLAD (armored flooring) 9/Mas
IRON CLAD (floor treatment) 9/Aq
IRON FIREMAN (heating equipment)..31J/Ir
IRONBOUND (wood flooring) 13J/Ro
IRONCO (grouting compounds) 9/Aq
IRONHIDE (paint) 15/Pi
IRONITE (concrete waterproofing) 9/Wet
IRONTOX (masonry treatments) 9/To
IRVICO (gratings) 13a/Ir
ISENHOUR-TAYLOR (brick) 4f/Is
ISLAND HOOD (ventilating hoods)...31e/Br
ISO-VOL (grouting cement) 9/Tru
IVORY (finishing lime) 12e/Un

J

J-M (acoustical material) 11a/Jo
J-M (asphalt-asbestos floor tile and accessories) 13i/Joh
J-M (insulating products) 10a/Jo
J-M (partitions, walls) 22a/Jo
J-M (roofing) 8a/Jo
J-M (shingles) 8c/Jo
J-M (tile floors) 13i/Jo
J-M TRANSITOP (insulating panels) 8b/Jo
JMP (hospital, laboratory equipment) 23L/Ja
JACKSON (locks) 18e/Sa
JACKSON SYSTEM (ceiling fasteners) 11b/Ha
JAL-O-VENT (louver jalousies) 17a/Sup
JAMESTOWNER (cabinet doors) 16c/Ja
JAMISON (sound reduction doors)...16m/Ja
JAMOLITE (plastic freezer doors)....23c/Ja
JANITOR (service sinks) 27a/Bri
JANITROL (heating and cooling equipment) 31b/Ja
JAPALAC (enamel) 15/GLi
JEFFERSON (locks) 18e/Sa
JENN-AIR (roof ventilators) 20c/Je
JENNITE (wood fillers) 13J/Je
JENNITE J-16 (surface sealers) 9/Ma
JET-ACOUSTIC (acoustic insulation)..10a/Ai
JET-FLO (range hood-fans) 25a/Nu
JET-SULATION (sprayed insulation) ..10a/Ai
JET-TOWER (dishwashers) 25b/Yo
JIFFY-JOIN (curtain hardware) 22c/Ji
JOANNA (shade cloth) 19c/Jo
JOANNA (vinyl wall fabrics) 13k/Jo
JOHNSON (lavatories) 27a/Bri
JOHNSONITE (rubber nosings, treads, tile guards, bases and edgings) 13i/Jon
JOISTILE (tile for joists) 4f/EL
JORD-O-MATIC (refrigerator blower coil) 26a/Jo
JUBILEE (tile flooring) 13i/Mo
JUMBO (window hardware) 18b/Wh
JUMBODUCT (underfloor raceways) ..32b/Na
JUNE-AIRE (air conditioners, furnaces, unit heaters) 31b/Am
JUNIOR (sliding glass doors) 16d/Su
JUPITOR (drinking fountains) 27a/Bri
JUST LINE (sink tops)........23L/Ju; 25b/Ju

k

K&M (asbestos-cement pipe, sheets, shingles, etc) 8c/Ke
K-LOUVER (louvered awnings) 19e/Ka
K-M (adjustable wall furring anchors) 12a/Ka
KM (crematories, destructors, incinerators) 28e/Ke
KM (fume exhaust systems) 31e/Ke
KMP (gates, partitions) 22f/Ke
KM TIDY MANN (incinerators) 28e/Ke
KSC (mats, matting) 13i/Ko
K-V (cabinet hardware) 18g/Kn
KAISERHOF (sliding glass doors) 16d/Ka
KALISTRON (plastic sheeting) 13k/Un
KALISTRON (vinyl material) 5b/Un
KALITEX (plastic sheeting) 13k/Un
KALKTITE (sealing, caulking compounds) 3f/Pre
KALMAN (concrete flooring) 13h/Ka
KALSI-KOTER (paint) 15/Nat
KALWALL (plastic building panels) ...3e/Ka
KALWALL (plastic skylights) 20b/Ka
KALWOOD (moldings) 14a/Pa
KAMKLAMP (fuseholders) 32a/Ad
KANE QUALITY (screens) 19a/Kan
KAPCORK (sealing, caulking compounds) 3f/Pre
KARIBE (carpets and rugs) 13L/Du
KARLSONITE (water conditioner) 30b/St
KARNAK (asphalt) 9/Le
KARRI-MORE (square columns) 2f/ShL
KATOLIGHT (stand-by generators) ...32c/Ka
KAUKIT (caulking compound) 9/So
KAUSTINE (sewage disposal equipment) 30h/Ka
KAWANEE (steel boilers) 31a/Ame
KAYLO (fire door cores) 16c/Bou
KAYLO (pipe insulation) 10c/Ow
KEFLEX (expansion joints) 29a/Ke
KEFLEX-KETROL (expansion joints) 29a/Ke
KEFLEX-MAVE (pipe guides) 29a/Ke
KEM-GLO (paint products) 15/Sh
KEMOX (iron compounds) 9/Si
KEMP (ceiling fastening systems) 11a/Ac
KEMPTHORNE (dust control process).11a/Sp
KEN-CLEANER (floor cleaner) 13i/Ke
KENBASE (asphalt cove base) 13i/Ke
KENCORK (cork floor, wall tile) 13i/Ke

KENCOVE (wall base) 13i/Ke
KENFAST (adhesives) 13i/Ke
KENFLEX (vinly floor tile) 13i/Ke
KENGRADE (adhesives) 13i/Ke
KENGRIP (floor wax) 13i/Ke
KENNA-RAMA (folding doors and hardware) 18d/Ke
KENNAFRAME (gliding door framing) 18d/Ke
KENNAGUIDE (wardrobe headers) ...18d/Ke
KENNALOCK (gliding door locks)....18d/Ke
KENNALOY (sound-proof, corrosion resistant steel) 18d/Ke
KENNATRACK (gliding door hardware) 18d/Ke
KENPASTE (adhesives) 13i/Ke
KENPATCH (patching) 13i/Ke
KENSERTS (tile inserts) 13i/Ke
KENSINGTON (lighting fixtures) 33a/Wh
KENSWEEP (cleaners) 13i/Ke
KENT (water closets) 27a/Ri
KENTILE (floor tile) 13i/Ke
KENWAX (floor wax) 13i/Ke
KENWOOD (locksets, lever handles) 18e/Sc
KERF (ceiling suspension systems) 11b/Do
KERFED (acoustical tile) 11b/Do
KERNER (incinerators) 28a/Mo
KERNERATOR (incinerators) 28a/Mo
KETTLE KADDY (pot filling, rinsing)...27b/Ta
KEY (shower doors and enclosures, tub enclosures) 27c/Ke
KEY-MUNICATOR (loudspeaking intercom) 34a/Str
KEY-SEAL (joint sealers) 4J/Wi
KEY-Z-BEAD (masonry reinforcing) 4h/Ke
KEYBEAD (masonry reinforcing) 4h/Ke
KEYCORNER (masonry reinforcing) 4h/Ke; 12a/Ke
KEYDECK (roofing reinforcing).2d/Ke; 12a/Ke
KEYLESS (automatic keyless lock boxes) 23b/Ke
KEYLINE (partitions) 22a/Ca
KEYMESH (masonry reinforcing) 4h/Ke; 12a/Ke
KEYSTONE (masonry reinforcing) 4h/Ke; 12a/Ke
KEYSTONE (shower doors and enclosures, tub enclosures) 27c/Ke
KEYSTRIP (masonry reinforcing) 12a/Ke
KEYWALL (masonry reinforcing) 4h/Ke; 12a/Ke
KEYWELD (masonry reinforcing) 4h/Ke
KID-PROOF (locks) 18/Sa
KIFS (mechanical bond) 2i/Ho
KIFS (rubber inserts) 2h/Bu
KIK-STEP (step ladder) 23i/Cr
KILMER (lavatories) 27a/Bri
KILNOISE (acoustic plaster) 11a/Tig
KINDORF (steel conduit clamps) 32b/St
KING (water closets) 27a/Bri
KING-TAB (asphalt shingles) 8c/Bi
KINNEAR (rolling doors) 16g/Ki
KITCHEN MAID (kitchen cabinets) ...25b/Ki
KITCHEN PRIDE (sinks) 27a/Cr
KITCHEN QUEEN (sinks) 27a/Cr
KITCHENAID (dishwashers) 26b/Ho
KLAMPSWITCHFUZ (switchboards) ..32a/Ad
KLEENEX (facial tissues, dispensers)..27e/Ki
KLEERLITE (service station doors) ...16i/Win
KLEFTONE (acoustical ceiling panels).10a/Jo
KLEFTONE (wood fiber acoustical panels) 11a/Jo
KLERESEAL (sealers) 3f/Pe
KLIMATON (windows) 17a/Tr
KLIP-LOCK (subflooring system) 13J/KL

KMP (gates, partitions) 22f/Ke
KNEE-WALL (jalousie porch enclosures) 17d/Ai
KNIGHTFRAMES (name plate frames).6f/Kni
KNIGHTPLATES (name plates)........6f/Kni
KNO-DRAFT (air diffusers) 31f/Co
KNOLLWOOD (locksets) 18e/Co
KOLDBOARD (insulating board) 10c/BaL
KOLDBOND (aluminum ceiling louvers) 33a/Co
KOLL'S PATENT (wood columns) 5c/Ha
KOLOR-BRITE (enamels) 15/Ma
KOLORPINS (nails) 18a/In
KOMPO-CITE (chalkboards) 23e/Lo
KOMPO-LUX (chalkboards) 23e/Lo
KONDUCTOKURE (curing compounds)..9/Mas
KONDUCTOWAX (floor wax) 9/Mas
KONIK (steel fencing) 22g/Con
KOOL-DOME (plastic dome skylights) 20a/Van
KOOL 'KLOSET (cooling cabinets) 26a/La
KOOLFRAME (screen frames) 19e/Re
KOOLSHADE (louvered screens) 19e/Re
KOPPERS (build-up roofing) 8a/Ko
KOPPERS (treated lumber) ...5d/Ko; 5d/Kop
KORELOCK (hollow core panels) 14b/Ma
KORK-PAK (closure strips) 2i/Se
KORINA (plywood panels) 5b/Un
KORKOLOR (asphalt, vinyl-asbestos floor tile) 13i/FL
KORKPHALT (asphalt) 9/Le
KORKRETE (concrete primers) 9/Le
KORKSEAL (asphalt) 9/Le
KOROK (chalkboards) 23e/Ko
KOROSEAL (vinyl asbestos tile) 13i/Go
KOROSEAL (vinyl coverings) 13k/Go
KORUNDUM (abrasive grits) 9/Co
KOTEX (sanitary napkins, dispensers)..27e/Ki
KOUNTERSUNK (wood blocks) 13J/Je
KOVEN (water heaters, boilers) 31g/Ko
KRALOY (plastic pipe) 29a/Kr
KREOLITE (flooring) 13J/Je
KRODEPROOF (water-repellent coatings) 9/Le
KROMIK (paint products) 15/Sh
KUBE KING (ice machines) 26a/La
KUHLCOTE (masonry treatment) 9/Ku
KUHLSEAL (masonry treatment) 9/Ku
KURASEAL (curing compound) 9/Aq
KURE-N-SEAL (floor hardeners and sealers) 9/So
KUREZ (curing compound) 9/Eu
KURLICUE (nails) 18a/In
KUROKROME (curing compounds) 9/Mas
KWIK-KLIP (batten strips) 22a/Pe
KWIK-SEAL (waterstops) 2i/Gas

L

L&B (greenhouses) 2J/Lo
LCN (door closers) 18e/La
L-M (lighting equipment) 33c/Li
L-O-F (glass) 7a/Li
L-O-F (glass doors) 16d/Lib
LNP (panelboards) 32a/Ad
LA CROSSE (cooling equipment)......26a/La
LA-X (cooling equipment) 26a/La
LAB-FLO (laboratory service fittings)..27b/Ta
LABOR-SAVER (closet fronts) 23n/Pr
LACLEDE (joists, reinforcing) 2f/La
LACROSSE (water closets) 27a/Ri
LACTIC (floor topping, grouting) 9/La
LAGSTUD (anchors) 2i/Ri
LAHOMA (bathtubs) 27a/Cr
LAL-BRO (concrete filled columns) 2g/LaL
LAMBCO (water-repellent compounds)...9/La
LAMBRITE (colored paste wax) 9/La
LAMELLA (roof system) 2e/La
LAMINALL (laminated panels) 3c/Er
LANCER (overhead doors) 16i/At
LANDON SKIM-FILTER (water skimmers and filters) 23k/La
LANIER (lavatories) 27a/Bri
LAPEER (lavatories) 27a/Ri
LAPIDOLITH (concrete hardener) 9/So
LARCHMONT (water closets) 27a/Ri
LARCO (water coolers) 30d/Ce
LARCO KOOL-PAC (water coolers) ..30d/Ce
LARSON (waterproofing) 9/Br
LASALLE (bathtubs) 27a/Bri
LASALLE (lighting fixtures) 33a/Wh
LASCOLITE (fiber glass building panels) 7d/Ly
LASCOPIPE (plastic pipe and fittings) 7d/Ly
LASTIK (concrete slabs) 2d/La
LASTILE (roofing sheet) 8a/Ca
LASTINCOTE (floor sealers) 9/Wes
LASTO-MERIC (adhesives, sealers).....3f/Tr
LATCH-TRACK (thresholds) 18f/Vo
LATHERFLO (soap dispensers) 27e/Mo
LATHURN (soap dispensers) 27d/Ar
LATHURSHELF (shelf and soap dispensers) 27e/Am
LATHURVALV (soap dispensers, valves) 27e/Am
LAUNDRAY (laundry sinks) 27a/Ri
LAUNDRITE (clothes washers) 27g/Tr
LAVAX (enamel) 15/Pi
LAWSON (medicine cabinets, metal bathroom accessories) 27d/La
LAWTON (urinals) 27a/Bri
LAYTITE (wood flooring) 13J/Co
LEAF-LITE (luminous ceilings) 33a/Lum
LEATHERWOOD (hardboard panels) 8b/Mas; 14d/Mas
LEBANEX (plywood panels) 5b/Un
LECTRO-LIFT (residential elevators)..24a/Se
LEES (carpets) 13L/Le
LEKOLITE (lighting fixtures) 33a/Ce
LEKTRO-TEKTOR (corrosion preventive) 31a/Mar
LELAND (lavatories) 27a/Ri
LEMLAR (sun control jalousies) 19e/Le
LENCOR (lavatories) 27a/Ri
LENSLITE (lighting glass) 33b/Co
LEPTYNE (paint thinner) 15/Pi
LEROY (roof ventilators) 20c/Hi
LEV-R-LATCH (door latches) 18e/So
LEVELATOR (freight lifts) 24g/Ro
LEVELCOTE (floor leveler) 13h/Ac
LEVELKOTE (roof coatings) 8a/FL
LEVELEZE (drains) 30g/Jo
LEVELIFT (freight lifts) 24a/Es
LEVELSEAL (sash locks, lifts) 18a/Gr
LEVOLOR (venetian blinds) 19d/Lo
LEX (liquid floor dressing) 9/Up
LEXINGTON (lighting fixtures) 33a/MiL
LEXSUCO (roofing products) 8a/Le
LIBERATOR (ranges) 25a/Gen
LIBERTY (roof ventilators) 20c/Pe
LIBRARY BUREAU (library furniture) ...23f/Re
LIF-T-LOX (window balance) 17c/Ro
LIFE-TIME (dry beverage cooler) 26a/Pu
LIFEBOND (floating floors) 13J/Ho
LIFETIME (aluminum building products) 3a/Re
LIFETIME (aluminum ceiling panels)..11a/Re
LIFETIME (aluminum roof deck) 8b/Ree
LIFETIME (aluminum roofing, siding).8b/Ren
LIFETIME (clay tile) 13c/Na
LIFETIME (corrugated roofing, siding) 8b/Rey; 8b/Ren

trade names

LIFETIME (penthouses for ventilators) 20d/Ame
LIFETIME (ribbed siding) 8b/Reo
LIFETIME (wood fire doors) 16c/Dus
LIFT-TABLE (hydraulic tables) 24a/GL
LIGHT SAVER (controlled lighting) ..34b/Mi
LIGHT WARDEN (emergency lighting units) 33a/EL
LIGHTNING LIFT (door operators) 16i/At
LIGHTOLIER (lighting fixtures) 33a/Lia
LIGHTSTEEL (structural sections) 2f/Pe; 12a/Pe
LIGNOPHOL (wood treatment, sealer, preservative, finish) 9/So
LIKWIDURN (soap dispensers) 27d/Ar
LIKWIDVALV (soap dispensers, valves) 27e/Am
LIMINETTE (fixtures) 33a/Ne
LIMPET (acoustical material, insulation) 10a/Ke
LINABESTOS (asbestos sheets) 8c/Ke
LINCOLN (food storing, conveying, serving units; hydraulic lifts) 26d/Li
LINCOLN (locks) 18e/Sa
LINDSAY (lavatories) 27a/Bri
LINDSAY (water softeners) 30b/Li
LINE-AIR (air diffusers) 31f/Uni
LINEFLOW (fan units) 31a/Am; 31a/Ame
LINEX (pattern glass) 7a/Am
LINGO (flagpoles) 6g/Ac
LINK (bonding agent) 9/Am
LINKPLATE (key link plates) 22a/Vi
LINOTILE (floor covering) 13i/Arm
LINOVECTOR (convectors and covers).31h/Vu
LINOVENTILATOR (heating-ventilating systems) 31h/Vu
LIPSTIK (microphones) 34a/AL
LIQUA-SHINE (floor wax) 13m/Hu
LIQUI-STEEL (plastic coating) 13h/Pr
LIQUIDFLO (soap dispensers) 27e/Mo
LITCHFIELD (locks) 18e/Sa
LITE-A-VENT (ventilators) 6e/Fi
LITE-BLOX (troffers) 33a/Gu
LITE-LIFT (unique balanced chalkboards) 23e/Un
LITE-MIX (plaster) 12c/Bes
LITE-O-LET (lighting fixtures) 33a/Wh
LITE-PANL (translucent building panels) 2J/Bu
LITECONTROL (lighting fixtures) 33a/Lie
LITECRAFT (lighting fixtures) 33a/Lin
LITEGREEN (chalkboards) 23e/Be
LITESITE (chalkboards) 23e/We
LITESTRIP (shade hardware) 19c/Ri
LITETRIM (chalkboard mouldings) ...23e/We
LITEWATE (conveyors) 24d/St
LLENROC (rolling steel fire doors) ...16g/Cor
LO BOY (heaters) 31b/Cam
LO-LIMIT (heating controls) 31h/No
LO-NOIZ-LEVEL (ventilators) 20c/AL
LO-TEMP (freezer doors and gaskets) 23c/Ja
LO-TRAN (glass) 7a/Ho
LOCK-JOINT (wood columns) 5c/Ha
LOCK'N ROLL (latches) 18e/Lo
LOCK-ON (base and clips) 12a/Bo
LOCK-RIB (waterstops) 9/Lex
LOCKERETTE (lockers) 23d/Vo
LOCKEROBE (lockers) 23d/Med
LOCKWOOD (locks, locksets) 18e/Lo
LOK-TABS (asphalt shingles) 8c/Ru
LOK-TITE (door hinges) 16b/Pi
LOK-TEX (venetian blind tape) 19d/Ea
LOK'D BAR (projected windows) 17b/Ho
LOKSAFE (kitchen cabinets) 25b/Ki
LO-LINE (self-edged counter tops) ..25b/Yo
LONDO (lavatories) 27a/Ri
LONG-LIFE (asphalt roofing products)..8a/Lo
LONG-SLOT (concrete inserts) 2i/Ho
LONGSPAN (open web steel joists) 2f/St
LORAIN (lavatories) 27a/Ri
LOSEAT (bathtubs) 27a/Ri
LOSET (boilers) 31g/Pa
LOUVENT (roof ventilators) 20c/Oc
LOUVER-FOLD (folding louver doors).16e/Co
LOUVER-VENT (skylight louvers) 20a/Van
LOUVER LINE (lighting fixtures) 33a/Pr
LOUVER-LITE (louvers, solar canopies, sun control devices, vent housings, jalousies) 19e/Lo; 20d/Lo
LOUVERALL (packaged louvered ceilings) 33a/Co
LOUVERDRAPE (vertical blinds) 19d/Ve
LOUVERLUX (louver panels) 33a/Di
LOUVREX (glass door louvers) 22a/Vi
LOUVREX (pattern glass) 7a/Am
LOW BOY (radiant heater) 31h/Ber
LOW-VANE (louvers) 19e/Lo
LOWELL (baffles, enclosures) 34a/Lo
LOWELL (lavatories) 27a/Bri
LOWELL (lighting fixtures) 33a/Wh
LOXIKORK (tackboards) 23e/Lo
LOXIT (bulletin boards, chalkboards)..23e/Lo
LOXIT (floor laying systems) 13J/Lo
LOXIT VICTORY (bulletin boards, display cases, chalkboards) 23e/Lo
LOXIT WONDER (adjustable shelving system) 23e/Lo
LOXITEX (tackboards) 23e/Lo
LOXON (paint, coatings) 15/Sh
LUMASKIN (reflective insulation) 8h/Lu
LUMI-PLASTIC (ceiling diffusers) ..33a/Lum
LUMI-VEE (steel V-moulding) 33a/Sy
LUMINAIR (lighting fixtures) 33a/En
LUMINALL (paint) 15/Na
LUMINETTE (lighting fixtures) 33a/Ne
LUMINEX (pattern glass) 7a/Am
LUMIPLEX (plastic diffusers) 33a/Lin
LUMISHADE (marquees) 19e/Ma
LUMNOX (abrasive aggregates) 9/Ce
LUPTON (air conditioning systems) ...31a/FL
LUPTON (aluminum windows) 17a/FLy
LUPTON (curtain walls) 3a/Fly
LUPTON (doors, windows) 17b/FL
LURON (soap dispensers, soap)......27e/Ty
LUSTERTONE (sinks) 25b/ELk
LUSTRAL (paint products) 15/Sh
LUSTRACRYSTAL (sheet glass) 7a/Am
LUSTRAGRAM (glare reducing glass) ..7a/Am
LUSTRAVIEW (mirrors) 27d/Mi
LUSTRAWHITE (glass) 7a/Am
LUSTRE-TRIM (custom counter tops)..25b/Yo
LUSTREWOOD (hardboard panels) 8b/Ma; 8b/Mas; 14d/Mas
LUVEX (lighting fixtures) 33a/Da
LUVR-LUMINOUS (luminous ceilings) 33a/Lum
LUXAIRE (outdoor fluorescent lighting) 33c/Pf
LUXLITE (glass) 7a/Mi
LUXSTAR (cement paint) 9/Ce
LYNN (directories, letters and signs).23a/Ly
LYON (steel lockers) 23d/Ly
LYRIC (locksets) 18e/Be
LYT-ALL (interior paint) 15/Pr
LYTELINE (lighting fixtures) 33a/Lia

m

M-DECK (long-span structural roof decks) 2c/Ma
M-FLOOR (floor decking) 2b/Mah
M & E (fire doors) 16h/Me
M-W (lighting fixtures) 33a/Mi
MA (adhesives, coatings, insulation, paints) 10a/Mir
MA (adhesives) 1a/Mir; 13c/Mir
MFMA (wood flooring) 13J/Ma
MG (glass) 7a/Mi
MRDTI (metal roof deck technical institute) 2c/Me
MS (locks, bolts) 18e/Ad
MADISON (locks) 18e/Sa
MAESTRO (paint) 15/Pi
MAGI-COTE (door treatments) 16i/Cra
MAGIC CARPET (door operators) 18e/Sta
MAGIC CIRCLE (water heaters) 25a/Hot
MAGIC DOOR (door operators) 18e/Sta
MAGIC-FOLD (folding doors) 16e/CL
MAGIC MOLE (door operators) 18e/Sta
MAGIC STAR (door operators) 18e/Sta
MAGICLEAN (glass block finish) 7b/Ow
MAGNA-LUMINUS (luminous ceilings) 33a/Lum
MAGNA-TITE (magnetic cabinet catch) 18g/En
MAGNABOND (cement bonding agent) 13i/Cr
MAGNALOCK (locks) 18e/Sa
MAGNE-GRIP (door operator) 24c/Se
MAG-PLY (concrete forms) 2i/Sy
MAIN-LINER (lighting fixtures) 33a/We
MAINLINER (office desks) 23o/Ar
MAINLINER (partitions) 22a/Mi
MAINTAINEERS (trained floor experts) 13m/Hi
MAKE-SET (accelerators) 9/La
MANHATTAN (lock escutcheons) 18e/Sc
MANHATTANITE (terrazzo dividers).13g/Ma
MANIPULATION-PROOF (locks) 18f/Sa
MANU-TOWL (paper towels, holders) 27e/Cr
MAR-FREE (cabinet door pulls) 27c/GL
MAR-NOT (paint products) 15/Sh
MARACON (water-reducing admixture) 9/Mar
MARACONCRETE (cement) 9/Mar
MARB-L-COTE (paint, cement, tape) ..15/Na
MARBELETTE (flooring materials) 13h/Ma
MARBELLA VENEZIA (marble chip wall coverings) 13c/Mu
MARBLMETAL (toilet partitions) 22b/Mi
MARCIA (lavatories) 27a/Cr
MARCOLITE (scuttles, skylights) 20a/Ma
MARIETTA MARZIAC (concrete precast building panels) 3e/Mar
MARINE CEMENT (water-repellent).....9/To
MARINE SEALER (sealer) 15/Wa
MARINITE (panels) 22a/Jo
MARK-FORE (pressure cookers) 26c/Ma
MARK-2 (shelving) 23c/Ma
MARKETTE (pressure cookers) 26c/Ma
MARKWA (marble tile) 13f/Ve
MARLEY (cooling towers) 30b/Ma
MARLITE (panels) 14b/Ma
MARS (drinking fountains) 27a/Bri
MARSH (packages trussed rafters) 2e/Ma
MARTRACK (ceiling, floor runners) ...12a/In
MARVEL-LIFT (garage doors) 16i/Cra
MARVEL-LITE (garage doors) 16i/Cra
MARVEL-LUCENT (garage doors) 16i/Cra
MASON (treads floor plates, nosings, etc.) 13b/Ame
MASONCO (safety treads) 13b/Ame
MASONITE (concrete forms) 2i/Ma
MASONITE (hardboard panels)...8b/Ma; 8b/Mas; 14b/Ma; 14d/Mas

trade names

MASTER (aluminum windows) 17a/FLy
MASTER (dishwashers) 26b/In
MASTER (furnaces) 31a/Ame
MASTER BUILDERS (concrete products).9/Mas
MASTER-BUILT (asphalt shingles) 8c/Bi
MASTER-FLUSH (wood doors) 16c/Ha
MASTER MIX (hardeners) 9/Mas
MASTERIB (rib lath) 12a/Pe
MASTERKURE (curing compounds) 9/Mas
MASTERPLATE (flooring aggregates) ..9/Mas
MASTERQUICK (resurfacers) 9/Mas
MASTIPAVE (bituminous flooring).....13i/Pa
MATH-MASTER (chalkboard graph systems) 23e/CL
MATICO (floor tile) 13i/Ma
MATICORK (asphalt, vinyl-asbestos floor tile) 13i/Ma
MATICOVE (cove base) 13i/Ma
MATTE BEADEX (pattern glass) 7a/Am
MAXIM-AIR (detention windows) 17b/Tr
MAYSTEEL (hospital cabinets and casework) 23L/May
McINTIRE (automatic shutter-sliding pole unit) 30f/Mc
McKEE (overhead doors, operators) 16i/Mc
McKINLEY (abrasive castings) 13b/Mc
McKINLEY (construction castings).....6i/Mc
McKINLEY (grilles, ventilators) 20d/Mc
McKINLEY (locks) 18e/Sa
McKINLEY (ornamental designs)......6e/Mc
McKINLEY (sun control and metal products) 19e/Mc
McPHILBEN (lighting fixtures) 33a/Mc
McSHANE (bells and chimes) 23h/Mc
MECCO (rolling doors) 16g/Mo
MEDALLION (bathtubs) 27a/Bri
MEDALLION (desks) 22a/Co
MEDALLION (hollow metal doors)...16b/Ce
MEDART (gym seats, backstops).....23J/Me
MEDCO (construction specialties) 2i/Me
MEDCO-WALL (masonry wall reinforcing) 2i/Me; 4h/Me
MEDI-PREP (medicine stations) 23L/Ma
MEDLEY (tile) 13c/Mos
MELLOTONE (tile) 13c/Mos
MELODY (locksets) 18e/Co
MELT-O-MAT (snow melting mats)....13i/Ar
MEND-A-FLOOR (cement) 13h/Ac
MENGEL "700" (doors) 16c/Me
MERCHANT (lighting fixtures) 33a/MiL
MERCURY (drinking fountains) 27a/Bri
MERCURY (locks) 18e/Sc
MEREDITH (lavatories) 27a/Bri
MERRY-GO-ROUND (kitchen cabinets) 23i/Ge; 25b/Gev
MESHTEX (diamond lath) 12a/Pe
MET-CRO (bridging) 2i/Ho
MET-L-VIN (vinyl-metal laminate) ...14a/Me
MET-L-WOOD (metal faced plywood).14a/Me
METAL-ROK (metallic pore sealer)....13h/Pr
METALASTIC (paint products) 15/Sh
METALEAF (paint) 15/Pi
METALICRON (floor treatments) 9/Mas
METALOID (masonry treatments) 9/Co
METALOX (admixtures) 9/Ce
METALSITE (chalkboards) 23e/We
METALSIUM (metallic hardeners) 9/Ce
METEOR (drinking fountains) 27a/Bri
METL-CAP (vent pipe fittings) 31f/Har
METLVENT (vent pipe and fittings)..31f/Har
METLWAL, JR. (partitions) 22a/Vi
METPAR (metal partitions) 22b/Me
METRO-MIX (poured-in-place gypsum) 2d/Be
METRODECK (floor, roof deck) 2c/Go
MI-T-LITE (service station lighting) ..33a/Co

MIA (marble) 13f/Ma
MIAMI (aluminum windows) 17a/Mi
MIAMI (autopsy tables) 23L/Ma
MIAMI (sinks) 27a/Bri
MIAMI-CAREY (bathroom cabinets, accessories) 27d/Mi
MIAMI CAREY (steel access doors)....16J/Mi
MIAMI-CAREY (ventilators, fans) 31e/Mi
MICRO (elevator controls) 24a/Ot
MICRO-FLOW (valves) 29a/Kr
MICRO-METER (valves) 29a/Kr
MICROFIL (water-repellent coating)..15/Nat
MICROLITE (blanket insulation)......10c/La
MICROLITE (fiber glass blankets) 11a/Jo
MICROMIST (burners) 31J/Ir
MICROROLD (stainless steel) 6c/Wa
MICROTEX (duct liners) 10c/La
MIDAL (lavatories) 27a/Ri
MIDGET (louvers) 2i/Ho
MIDGET (slat closures) 16g/WiL
MIDGET (steel enclosures) 16g/WiL
MIDGET (towel cabinets) 27e/St
MIDLINER (towel dispensers) 27e/St
MIKADO (incandescent lighting fixture) 33a/Pi
MILCOR (acoustical roof deck) 11a/In
MILCOR (lath) 12a/In
MILCOR (roof decks) 2c/InL
MILCOR (steel access doors) 16J/In
MILCOR (steel base) 2a/In
MILCOR (steel floor panels) 2b/In
MILCOR (wall panels) 3b/In
MILLBROCK (locks) 18e/Sa
MILLER (lighting fixtures) 33a/MiL
MILMARK (adhesives, waxes) 13i/Hak
MILNOR (washers, extractors) 27g/Pe
MILTON (lavatories) 27a/Bri
MILTROL (washer timer) 27g/Pe
MIN-X (expanded metal) 6e/Un
MINABORD (acoustical materials) ...11a/Ar
MINALITH (treated lumber) 5d/Ko
MINATONE (acoustical materials) ...11a/Ar
MINATONE (fireproof formboard) 2d/Ar
MINUTE MAN (extractors, tumblers).27g/Tr
MINWAX (masonry treatments) 9/Mi
MINWAX (wood finishes) 15/Min
MIRACLE (adhesives) 10a/Mir; 13c/Mir
MIRACLE (chalkboard-tackboard setting system) 23e/Lo
MIRACLE WEDGE (overhead doors) .16i/Ove
MIRACOIL (porcelain enamel facings) 3c/Mi; 6d/Mi
MIRADHESIVE (curtain wall adhesive) 3c/Mi; 6d/Mi
MIRAFLEX (flexible porcelain enameled panels) 3c/Mi; 6d/Mi
MIRAKOTE (curtain wall primer) 3c/Mi; 6d/Mi
MIRALASTIC (curtain wall caulking compounds) 3c/Mi; 6d/Mi
MIRAMASTIC (curtain wall adhesive) 3c/Mi; 6d/Mi
MIRAMOLD (aluminum mouldings) 3c/Mi; 6d/Mi
MIRASPAN (curtain wall panels)......3c/Mi
MIRAWAL (porcelain-enameled panels) 3c/Mi; 6d/Mi
MIRAWAL PORCELOX (porcelain steel chalkboards) 23e/Lo
MIROFLECTOR (reflectors) 33a/Ge
MIRRO-GLIDE (bathroom cabinets)..27d/Ha
MIRRO-SLIDE (bathroom cabinets)....27d/Ha
MIRRO-TUF (wood floor finish) 13J/Mo
MIRROPANE (mirrors) 7a/Li
MISCO (glass) 7a/Mi

MISTY-WALNUT (hardboard panels) 8b/Mas; 14d/Mas
MITCO (grating) 31f/He
MIX-EX (paint) 15/Ma
MIX-EZE (cement dispersing agent) ...13h/Pr
MIX-OR-MATCH (ceramic wall tile)..13a/CL
MIXCRETE (hardeners) 9/Pa
MIXOMETER (shower fixtures) 27b/Sp
ML LOUVRES (louvered ceiling, lighting fixtures) 33a/Ne
MO-SAI (fabricated stone) 4d/Mos
MOBIL-FIRE WALL (fire retardant partitions) 22a/Vi
MOBIL-LAB-WALL (laboratory partitions) 22a/Vi
MOBILE FOOD FILE (refrigerators) ..26a/Ko
MOBILE-MAID (dishwasher) 25a/Gen
MOBILAIRE (air conditioners)......25a/We
MOBILEX (lighting fixtures) 33a/Da
MOBILRAIL (movable rails) 22a/Vi
MOBILSCREEN (movable screens) 22a/Vi
MOBILWALL (interchangeable partitions) 22a/Vi
MOBILWALL, JR. (partitions) 22a/Vi
MODERN AIR (furnaces) 31a/Ame
MODERN-COTE (wall coverings) 13k/Ne
MODERNE (mail chutes) 23b/Cu
MODERNFOLD (doors) 16L/Ai
MODERNFOLD (folding doors) 16e/Ne; 22d/Ne
MODERNWOOD (flooring) 13J/Ci
MODU-WALL (aluminum curtain walls) 3a/ML
MODULAR (commercial cooking equipment) 26c/Hot
MODULAR MULTI-UNITS (chalkboard, corkboard, displayboard units) 23e/We
MODULAR STRIALUX (lighting fixtures) 33a/Lia
MODULITE (plastic diffusers) 33a/Lin
MODUR (fabricated stone)..........4d/Mod
MODU-LUMINUS (luminous ceilings) 33a/Lum
MODULUX (vinyl diffusers) 33a/Di
MODUWALL (wall equipment) 23e/Br
MOGUL (downlights) 33a/Ra
MOHAWK (lighting fixtures) 33a/Sy
MOISTURE-MATIC (sprinkling system controls 30e/Mu
MOISTURE MINDER (dryers) 25a/Wh
MOLTEX (toilet seats) 27a/Chu
MOMENT CONTOUR (beams, girders) 2f/ShL
MON-O-MIXER (plumbing valves) 27b/Sy
MON-U-MENTAL (awning windows)..17a/Sup
MONARCH (clay tile) 13c/Mo
MONARCH (downlights) 33a/Ra
MONARCH (folding doors) 16e/St
MONARCH (house paints) 15/Ma
MONARCH WALL (porcelain enamel veneer panels) 3c/Da
MONCO (asphalt) 8a/Ca
MONITOR (lighting fixtures) 33a/Sm
MONITOR (skylights) 20a/Ma
MONO-BLOCK (block insulation) 10c/BaL
MONO-KOVER (block insulation) 10c/BaL
MONO-LASTO-MERIC (liquid sealant)..3f/Tr
MONO-VANE (pumps) 30a/Au
MONOFLO (fittings) 31i/Be
MONOLINE (single-line partition) 22a/Vi
MONOPANL (insulated wall panels) 2J/Bu; 8b/Bu

trade names

MONOPLAST (insulation finish) 10b/Ar
MONOSEAL (glass block screen insert) 7b/Ow
MONOTUBE (light and sign poles) ...33c/Un
MONOTUBE (steel piles) 1b/Un
MONOVENT (roof ventilators) 20c/Bu
MONOXIVENT (fume exhaust systems) 31e/Ke
MONOXO-FLEX (neoprene hose adaptors) 31e/Ke
MONRO SYSTEM (waterproofing) 9/Mu
MONSANO (wood preservatives) ...5d/Mo
MONTECITO (ventilating hoods) 31e/Tr
MONTEREY (kitchens) 25b/Yo
MONTEREY (shower receptors) 27c/Fi
MONTGOMERY (elevator equipment) 24a/Mon
MONUMEN-TILT (double hung aluminum windows) 17a/FL
MOONGLOW (plastic tile) 13i/Vi
MOORE (lavatories) 27a/Bri
MOORE (paints, enamels) 15/Moo
MOORGARD (house paint)..........15/Moo
MOORWHITE (paints, enamels) 15/Moo
MORFLEK (primers) 15/Moo
MORFLEX (primers) 15/Moo
MORTA-MIX (water-reducing admixture) 9/Tre
MORTAR-TITE (mortar admixtures) 9/La
MORTARON (mortars) 9/Aq
MORTASEAL (masonry lime) 4i/Un
MORTITE (concrete curings) 9/Tru
MOSAIC (tile) 13c/Mos
MOTIF'D ACOUSTONE (acoustical tile) 11a/Uni
MOTO-FOLDER (operators for bleachers) 23J/Ho
MOTORDOR (wall fans) 31e/Br
MOTORSTAIR (moving stairways) ..24a/Pee
MOTOR-VATOR (gym seat operators) 23J/Me
MOULCORK (tile flooring) 13i/Mo
MOULCOVE (cove base) 13i/Mo
MOULFLEX (tile flooring) 13i/Mo
MOULTILE (tile flooring) 13i/Mo
MOUNT AIRY (granite) 4a/No
MOVA-WALL (partitions) 22a/He
MUELLERMIST (lawn sprinkler systems) 30e/Mu
MUESSCO (pipe line strainers)....29a/Mue
MUFFLETONE (mineral ceiling panel) 11a/Ce
MULSAMASTIC (mastic flooring)........9/Tr
MULTI (lighting fixtures) 33a/Mu
MULTI-AONE (air conditioners) 31a/We
MULTI-CLEAN (floor treatments) 13m/Mu
MULTI-COIL (water heaters) 30c/Ru
MULTI-COLOR (paints) 15/Sh
MULTI FIN (water heaters) 30c/Ru
MULTI-FLEX (grilles, registers) 31f/Un
MULTI-FLOW (grilles, registers) 31f/Un
MULTI-LEAF (chalkboards) 23e/Go
MULTI-PUNCH (display boards) 23e/CL
MULTI-SHINGLE (asphalt shingles) 8a/Ba
MULTI-SLIDE (glass door units)......16d/Ar
MULTI-STOP (window shade rollers) ..19c/Jo
MULTI-THERMEX (heat exchangers)...31b/Ja
MULTI-TIER (library bookstacks) 23f/Am
MULTI-USE (easel boards) 23e/Uni
MULTI-V (folding doors) 16e/Ho
MULTI-X (folding doors) 16e/Ho
MULTI-ZONE (air conditioning) 31a/Mar
MULTITEMP (commercial, industrial gas hot water heating boilers) 31g/Hy
MULTITHERM (air conditioning units).31a/CL
MULTITROL (sprinkler system) 30e/Gr
MULTIZONE (air conditioners) 31a/Du

MUNCHHAUSEN (soundproof doors) 16m/Mu
MUNOLITHIC (cement waterproofing)..9/Mu
MUNRO SYSTEM (waterproofing) 9/Mu
MURALEX (pattern glass) 7a/Am
MURALS (decorative wall coverings).13c/Mu
MUREX (masonry cleaner) 9/Eu
MUSI-TALK (public address systems)...34a/Fa
MUSIC BY MUZAK (planned music service) 34a/Mu
MUZAK (scientifically planned background music) 34a/Mu
MYSTIC (locks) 18e/Sa

n

NCP (shingles) 8c/Jo
NAIL-DOWN (steel tile) 2f/Bet
NAIL-TITE (channel system) 11a/Na
NAILCRETE (cant strips) 8a/Ko
NAILFILL (nailing concrete) 2d/Po
NAILON (brick siding) 8f/Lu; 13c/Lu
NAIRN (floor, wall coverings) 13i/Co
NAIRON (plastic floor covering) 13i/Co
NAIRONTOP (counter, sink tops) 13i/Co
NAISCO (flagpoles) 6g/No
NASSAU LINE (bathroom accessories) 27d/Ke
NATCO (clay products) 4f/Na
NATIONAL (commercial disposers)..26b/Na
NATIONAL (garage ventilation).....31e/Na
NATIONAL (sliding door hardware) ..18d/Nat
NATURALITE (plastic skylights) 20a/Na
NAUTILUS (range hoods) 25a/MaJ
NAVAL (flush valves) 27b/SL
NEATAGEAR (remote controls for windows) 18b/Te
NEATSNAP (chalkboard trim) 23e/Ne
NELCO (x-ray protective materials)...22e/Ne
NEO-DRY (concrete floor treatments) 13m/Mu
NEO-FLECK (enamel) 15/Un
NEO-SEAL (joint sealers) 4J/Wi
NEO-SHINE (floor wax) 13m/Hu
NEOTEX (flooring) 13i/Cr
NEOTEX (matting) 13i/Ar
NERVA-KOTE (adhesive) 8g/Ru
NERVA-PLAST (setting cement) 8g/Ru
NERVASTRAL (waterproofing sheets)..8g/Ru
NERVASTRAL J. F. (joint fillers).......8g/Ru
NERVASTRAL P. E. T. (plastic film)...8g/Ru
NERVASTRAL RIGID (waterproofing sheets) 8g/Ru
NERVASTRAL SEAL-PRUF H-D (waterproofing) 8g/Ru
NERVATAPE (plastic tape) 8g/Ru
NEUDAY (baths, water closets, lavatories) 27a/Cr
NEU-SANIX (water closets) 27a/Cr
NEU-STAIN (wood stains) 15/Ma
NEU-TONE (enamels) 15/Ma
NEUTONE (floor treatments) 13m/Hi
NEUVOGUE (bathtubs) 27a/Cr
NEV-A-RUST (paints) 15/GLi
NEVAMAR (decorative laminates) ..14a/Na
NEW DEAN (lighting fixtures) 33a/Cu
NEW EASE (bathtubs) 27a/Ri
NEW ERA (paints) 15/Ac
NEW LONDONER (flush and folding doors) 16c/Cu
NEW YORK (dissecting tables) 23L/Ma
NEWARK (sink cabinets) 27a/Bri
NEWART (locksets, lever handles) 18e/Sc
NEWMAN (bronze entrances) 16a/Ne
NEWPORT (ventilating hoods) 31e/Tr
NIBROC (towel cabinets) 27e/Bro

NICALUN (nickel treads) 13b/Am
NIK-O-LOK (coin-operated locks)...22b/Nik
NO DIAGNAL VERTICAL MEMBER (longspan joists) 2f/ShL
NO-DRAFT (window sills) 17a/Fe
NO-DUCT HOOD (range hoods) ...25a/MaJ
NO-FROST (refrigerator freezers) 25a/Wh
NO-GEAR (potato peelers) 26b/BL
NO-LITE (grilles) 31f/Yo
NO-METAL-SHOW (fixture holders) ...33a/Pi
NO-SCRUB (plastic flooring) 13i/Goo
NO-SHOK (safety electrical outlets).32b/Be
NO-SITE (grille core) 31f/Wa
NO-SITE (grilles) 31f/Yo
NO-TRAX (floor mats) 13i/Su
NO-VENT (dryers) 25a/May
NO-VISION (grilles) 31f/Yo
NO-WARP (wood doors) 16c/Hy
NOBLE (toilet bowls) 27a/Bri
NOCRETE (fibre conduits) 32b/Or
NOFMA (wood flooring) 13J/Na
NOISE-LOCK (sound proof panels and rooms) 11c/In
NOISE-STOP (acoustical baffles) 11a/Ow
NON-CLIMBABLE (fencing) 22g/Cy
NON-FLEX (grilles, registers) 31f/Un
NORFE (tub enclosures) 27c/Ef
NORMAN (casement windows) 17b/Fe
NORMAN (heating, ventilating systems) 31h/No
NORMAN (steel windows) 17b/Cr
NORMANDIE (toilet, shower compartments) 22b/Sa
NORTH AMERICAN (cement) 4i/No
NORTHERN LIGHTS (wood stain) 15/Ca
NORTON (door checks, closers) 18e/No
NORTON (overhead electric door operators) 18e/Nor
NORWALK (door closers) 18e/Now
NORWICH (lavatories) 27a/Cr
NOTIFIER (fire protection systems) ...34a/No
NOVACRETE (masonry point) 8d/No
NOVAFILL (masonry treatments) 8d/No
NOVAFOLD (folding doors, room dividers) 8d/No
NOVAGRADE (shakes) 8d/No
NOVALASTIC (joint fillers) 8d/No
NOVAMIX (admixtures) 8d/No
NOVAPLY (plywood) 5b/Un
NOVAPRIME (caulking compounds) ...8d/No
NOVAPROOFING (masonry treatments) 8d/No
NOVASEP (nylon anchors) 8d/No
NOVATREZ (terrazzo flooring) 13i/Se
NOVO (locks, lock escutcheons).....18e/Sc
NOVOPLY (surfacing process) 14a/Jo
NOVOWALL (partition face material) 22a/Uni
NOXIDE (metal paint) 15/Pr
NU-COTE (floor finish) 13m/In
NU-FLEX (exhaust hose) 30e/Ca
NU-GRAIN (asbestos shingles) 8c/Ke
NU-HUE (paints) 15/Ma
NU JAMB (hinges) 18e/Mi
NU-PON (primer) 15/GLi
NU-SIMPLON (porcelain steel chalkboards) 23e/Lo
NU-STATIC (asphalt) 8a/FL
NU-STEEL (overhead doors) 16i/Co
NU-STRIP (lighting fixtures) 33a/WiL
NU-TRED (rubber matting) 13i/Ar
NU-VICTORY (porcelain steel chalkboards) 23e/Lo
NU-WOOD (tile, insulating board) 10a/Woo; 11a/Wor

NUCA-SEAL (fabric coating process).16e/Ne
NUCITE (chalkboards) 23e/Ne
NO. 25 ZINC CHROMATE PRIMER (metal primer) 15/Pr
NURITE (crayon board) 23e/Ne
NUTONE (fans, door chimes, heaters) 25a/Nu
NYCO (chalkboards) ....23e Ne
NYSTEEL (chalkboards) 23e/Ne

O

OBW (ornamental metalwork, letters, plaques, etc.) 6f/Or
O-I (glass blocks) 7b/Ow
O.M. (mortar finishes) 9/Mas
O-T (steel joists) 2f/Tr
OAK-PLY (laminated oak block flooring) 5b/PL
OAKBLOK (wood flooring) 13J/Fa
OAKITE (phosphate undercoat) 23d/Pe
OAKPLANK (wood flooring) 13J/Fa
OAKSTRIP (wood flooring) 13J/Fa
OASIS (water coolers) 30d/Eb
OCON (plasticizer) 9/Aq
OCTAGON (roof ventilators) 20c/Oc
OHIO (bathtubs) 27a/Cr
OILDRAULIC (hydraulic elevators) ...24a/Ro
OILIFT (loading platform) 24a/GL
OKENE (wood preservatives) 15/Pr
OLD STYLE PITCH (pitch) 8a/Ko
OLD VIRGINIA WHITE (paint) 15/Ca
OLIN (aluminum) 6a/OL
OLSEN (lath clips) 12c/Bes
OLSONITE (toilet seats) 27a/Sw
OLYMPIC (bathtubs) 27a/Cr
OLYMPIC (extractors) 27g/Tr
OMARK DRIVE-IT (fastening tools)....2i/Om
OMARK-GRAHAM (stud welding system) 2i/Om
OMEGA (bathtubs) 27a/Cr
OMICRON (mortar finishes) 9/Mas
OMNI (space-maker system) 23c/St
ONE-CHECK SYSTEM (checking system) 23d/Vo
ONEX-SEAL (floor treatments) 13m/Hi
ONEXIT (marble floor treatments)....13m/Hi
ONLIWON (bathroom accessories) ..27e/Aa
OPALUX (lighting fixtures) 33a/Lia
OPERA CRYSTAL (lighting fixtures)...33a/Lia
ORANGEBURG (fibre conduits) 32b/Or
ORANGEBURG (pipe, pipe fittings) ..29a/Or
ORANGEBURG (underfloor duct system) 32b/Ora
ORIENTAL (finishing plaster) 12e/Un
ORLYT (greenhouses) 2J/Lo
ORTON (water closets) 27a/Ri
OUT-DOOR (incinerator) 28a/Oh
OUT-DOR-SEAL (weatherstripping) ...19b/Ch
OVERBROOK (toilet compartments)..22b/Cu
OVERDOOR (overhead doors) 16i/Ov
OVERHEAD (garage doors) 16i/Ove
OVERLINE (hollow metal doors) 16b/Ov
OVERLY (coping, roofing) 8b/Ov
OVERLY-GOODWIN (batten type roofing) 8b/Ov
OXFORD (water closets, lavatories)...27a/Cr
OZITE (carpet cushions) 13L/Am

P

P&L (paint, stains) 15/Pr
PC (cement, insulation, etc.) 10a/Pi
PC (glass blocks) 3e/Pi; 7b/Pi
PDA (cement dispersing agent) 9/Au
P.E.A. (architectural panels) 3c/Ma
PF (glass fiber insulation) ...3f/Ow; 10c/Ow
PG (panel grids) 29a/Am
P-H (refrigerators, freezers, coolers)..26a/Pu
P & H (stand-by generators) 32c/Ha
PHI (panic exit devices) 18f/Pr
P&K (outdoor lighting equipment)....33c/Pf
PPG (door hardware) 18e/Pi
PPG (glass doors) 16d/Pi
PPG (store fronts) 21/Pi
PRC (caulking compounds, sealers)...3f/Pro
PVC (polyvinylchloride waterstops) 9/Lex
PWG (skylights) 7a/Pe
P & W (hardeners) 9/St
PACE-SETTER (office desks) ..23b/Art; 23a/Ar
PACEMAKER (overhead doors) 16i/Mc
PACEMAKER (sinks) 25b/ELk
PACIFIC (boilers) 31g/Pa
PACKAGE (entrances) 16L/Am
PACKEX (ejectors) 30a/Ye
PAGEMASTER (paging systems) 34a/Str
PAINT WITH LIGHT (lighting fixtures).33a/Ce
PAINTGRIP (steel sheets for painting).6c/Ar
PAINTLOK (electro-galvanized sheets) .6c/Re
PAL (paint) 15/Nat
PALCO (redwood) 5a/Pa
PAN FILE (refrigerators) 26a/Ko
PAN-L-TITE (joint sealers) 3e/Mar
PAN-L-WALL (prefabricated panels) 2d/Ame
PAN-O-RAMIC (ceramic mosaic tile) ..13c/Am
PANATONE (acoustical panels) 11a/Ba
PANAVIEW (sliding aluminum windows) 17a/Pa
PANAVIEW (sliding doors) 16d/GLi
PANCAKE (overfloor duct systems)...32b/Wi
PANEL-LAP (skylights) 20b/Fi
PANEL-MATIC (movable walls, partitions) 22a/Pan
PANEL-TEX (tile) 11a/Wor
PANEL-TILE (insulating panel tiles) ..10a/Uni
PANEL-VENT (glass block vent) 7b/Ow
PANELBOARD (hardboard panels)..14d/Geo
PANELCLIP (shake panel clips) 8d/No
PANELCORK (cork-faced paneling) ...13i/Do
PANELCOUSTIC (acoustical panels)...11a/Na
PANELFOLD (sliding wood doors) 16e/Pa
PANELGLAS (fiber glass acoustical panels) 11a/Jo
PANELGROOVE (hardboard panels) 8b/Ma; 8b/Mas; 14d/Mas
PANELHITE (toilet compartments) 22b/FL
PANELITE (curtain walls) 17b/Ce
PANELMETAL (toilet compartments) ...22b/FL
PANELOK (hardboard panels) 8b/Mas; 14d/Mas
PANELOUVRE (ventilating louvers)...20d/Ve
PANELPLANK (hardwood plywood paneling) 5b/PL
PANELSTONE (asbestos panels) 8c/Ru
PANELWALL (cermanic veneer curtain walls) 4e/Ar
PANELWOOD (hardboard panels) 8b/Mas; 14b/Ma; 14d/Mas
PANELYTE (plastic panels) 14a/Pa
PANL-FRAME (steel buildings) 2J/Bu
PANTHEON (locks) 18e/Sc
PAPR-LOK (cavity wall cover) 2i/Ho
PAQUA (paints, enamels) 15/Moo
PAR-PLUS (hardeners) 9/Pa
PARA-LATERAL (sealers) 2i/Se
PARA-PLASTIC (asphalt joint sealers) ..2i/Se
PARA-PLASTIC JF (sealing compounds) 2i/Se
PARA-VENT (ventilators) 20b/Fi
PARAFLO (space heaters) 31c/Dr
PARAFLO (troffers) 33a/Da
PARAGON (chalkboards) 23e/Ne
PARAGON (projected aluminum windows) 17a/Per
PARAGON (time switches) 32a/Pa
PARALLEL-O-GRAY (glass) 7a/Li
PARALLEL-O-PLATE (plate glass) 7a/Li
PARALOUVER (lighting louvers) 33a/Da
PARALUM (abrasive) 9/Pa
PARALUM (bathroom accessories) ...27d/Pa
PARAWING (lighting fixtures) 33a/Da
PARCO (floor finishes) 9/Pa
PARCO (link mats) 13i/Paw
PARCOLITH (hardeners) 9/Pa
PARCONITE (bonding agents, adhesives) 9/Pa
PARCO-SEAL (sealers) 9/Pa
PARCOTEX (sealers) 9/Pa
PARCRETE (asphalt emulsion) 9/Pa
PARCURE (curing compounds) 9/Pa
PAREM (floor treatment) 9/Pa
PARFLEX (extruded caulking compounds) 3f/Pa
PARISIENNE (plastic floor tile) 13i/Bo
PARK AVENUE (medicine cabinets) ..27d/Ke
PARKAY (flooring) 13J/Wo
PARKFLEX (plastic laminates) 14a/Par
PARKPANEL (plastic laminates) 14a/Par
PARKWALL (plastic laminates) 14a/Par
PARLON (rubber paint) 15/GLi
PARMASTIC (sealing compounds)......3f/Pa
PARQUETRY (cork floor tile) 13i/Ma
PARRA-SEAL (masonry treatments) 9/Co
PARTITION-LOK (masonry reinforcement) 4h/Aa
PASTELS OF PARIS (floor tile)........13i/Ro
PATHFINDER (air conditioners) 31a/Yk
PATHFINDER (lighting fixtures) 6e/Fi
PATIO MAGIC (sliding glass doors)..16d/Da
PATIO-RAMA (sliding glass doors)...16d/Da
PATRICIAN (ventilating hoods) 31e/Tr
PAVE (floor and wall terrazzo tile) 13g/Bo
PAVISEAL (sealers) 13i/Has
PEAK-TEMP (oil heaters) 31g/CL
PEARLTONE (vinyl floor tile) 13i/Do
PEBBLEX (pattern glass) 7a/Am
PECORA (building products) 3f/Pe
PEEL-KILL (wood primer) 15/Ame
PEEL-PROOF (house paints) 15/Ame
PEELLE (hangar doors) 16h/Pe
PEELLE (moving stairways) 24a/Pee
PEELLE (nuclear doors) 16m/Pee
PEELLE (pass windows, conveyor doors) 26d/Pe
PEER (soap dispensers) 27e/Mo
PEERLESS (corkboards, map, display rails) 23e/Be
PEERLESS (window cleaner's safety devices) 22b/Pri
PEERLESS ELECTRIC (fans and blowers) 31e/Pe
PEERLITE (lighting fixtures) 33a/Gu
PEG-BOARD (perforated panels)..8b/Ma; 8b/Mas; 14b/Ma; 14d/Mas
PELLA (folding doors) 16e/Ro
PELLA (wood windows) 17c/RoL
PEM (masonry treatments) 9/St
PEN-PLANK (plywood) 5b/Sp
PENCO (lockers, cabinets, shelving) ..23d/Pe
PENDANT (bathtubs) 27a/Bri
PENETREM (floor sealer) 9/Tr
PENETREX (finish) 15/GLi
PENGLASS (roof ventilators) 7a/Pe
PENMETAL (channels, casings) 12a/Pe

trade names

PENMETAL (gratings) 13a/Pe
PENMETAL (movable partitions) 22a/Pe
PENMETAL (structural sections) 2f/Pe
PENN-ZEE (structural sections) 2f/Pe
PENNTON (urinals) 27a/Bri
PENNVERNON (window glass) 7a/Pi
PENNVERNON GRAYLITE (plate glass).7a/Pi
PENTA (wood preservatives) 5d/Mo
PENTECOR (glass) 7a/Mi
PENWOOD (flush wood doors) 16c/Sp
PENWOOD (plywood) 5b/Sp
PERF-A-BEAD (corner beads) 12c/Uni
PERF-A-TAPE (wallboard tape, cement) 12c/Uni
PERF-A-TRIM (wallboard trim) 12c/Uni
PERFA-TAPE (joint finishers) 15/Un
PERFATONE (acoustical tile) 11a/Un
PERFECT VISION (lighting fixtures)..33a/Cu
PERFO-LYTE (acoustical plaster) 12e/Na
PERFUSAIRE (registers) 31f/Au
PERI-GLO (floor cleaner) 13m/In
PERIMAHEAT (convectors) 31a/Yo
PERIMSUL (insulation) 10a/Ba
PERISEAL (spar vehicle, finish) 15/Na
PERM-A-GRIP (anchor templets) 27d/Ar
PERM-A-KROM (bathroom accessories) 27d/Ar
PERM-NENT (plastic cement, adhesives) 7d/As; 8b/As
PERM-O-SEAL (sink rims) 27a/Bri
PERM-SEAL (corrugated filler strips) 7d/As; 8b/As
PERMA CAP (roofing material)........8a/Ow
PERMA-CODE (pipe, wire and cable markers) 29a/Br
PERMA FAILLE (plastic fabric for vertical blinds) 19d/Su
PERMA-GLAZE (floor tiles) 13c/Po
PERMA-GLOSS (finish for plumbing fixtures) 27a/Ri
PERMA-PANEL (chalkboards, tackboards, pegboards) 23e/So
PERMA SHAN (plastic fabric for vertical blinds) 19d/Su
PERMA-SKIN (plastic coatings) 15/Su
PERMA SUN (plastic fabric for vertical blinds) 19d/Su
PERMA TEX (plastic fabric for vertical blinds) 19d/Su
PERMA-TOP (chimney tops, fly-ash chambers, spark arrestors) 28a/Pe
PERMACOLOR (finish) 22a/Vi
PERMACUSHION (gymnasium flooring) 13J/Rob
PERMABOARD (asbestos-cement sheets) 8c/Na
PERMACOUSTIC (acoustic tile) 11a/Jo
PERMAGLAS (storage tanks) 30c/Sm
PERMALIFE (plastic flooring) 13i/Am
PERMALITE (perlite aggregates) 10a/Gr; 12d/Gr
PERMALOK (nailable stud system) 12a/Pe
PERMALYNN (letter and sign backgrounds) 23a/Ly
PERMAPLY (plywood panels) 5b/Un
PERMAPLY (roofing material) 8a/Ow
PERMASLAB (fire-labeled doors)......16b/Sa
PERMATITE (windows) 17a/Ge
PERMATOWER (cooling towers) 30b/Ma
PERMATRED (stair treads) 13i/Ar
PERSPEC (metal office partitions).....22a/Ae
PETITE (bathroom cabinets) 27d/Mi
PETRALOX (cement-asbestos chalkboards) 23e/Lo
PETRICAL (wood fiber building panels) 2d/Fi
PHANTOM (garage ventilation) 31e/Na
PHILLIPS RED HEAD (concrete anchors) 2i/Ph
PHOTO-LITE (gas light controls) 31a/Ar
PI-PLANK (precast, prestressed concrete plank) 2d/Pi
PICTO (plastic name plates, directories) 23a/AL
PICWOOD (laminated plastic) 14a/Fo
PIERCE (locks) 18e/Sa
PIGGY-BACK (heaters) 30c/Se
PILGRIM (metal bathroom accessories) 27d/La
PILGRIM (shingles) 8d/Cr
PIN-LOCK (sash lock) 17a/Dev
PINHOLE (downlights) 33a/Ra
PINNACLEDGE (roof edge assembly)...8a/Pi
PIONEER (fireproof doors) 16m/Pi
PIONEER (insulating protective coatings) 10d/Wi
PIONEER PLANK (cork floor tile) 13i/Do
PIONITE (laminated surfacing)......14a/Pi
PISTOL GRIP (grid handles) 26c/Hot
PITTCO (curtain wall systems) 3e/Pit
PITTCO (door hinges, checks) 16d/Pi
PITTCO (door hinge, store fronts) 7a/Pi
PITTCO (floor hinges, checks) 18e/Pi
PITTCO (store fronts) 21/Pi
PITTCOMATIC (checks, door hinges) 7a/Pi; 16d/Pi
PITTCOMATIC (door openers) 18e/Pi
PITTCOTE (asphalt emulsion) 10a/Pi
PITTSBURGH (paints) 15/Pi
PIVOMATIC (3 position windows) ..17a/Fen
PIVOT-DOR (tub enclosures) 27c/Ke
PLACEWEL (cement additive) 9/Jo
PLANET (drinking fountains) 27a/Bri
PLANK AND BLOCK (wall and ceiling paneling) 14b/Ma
PLANKTEX (plywood panels) 5b/Un
PLANKWELD (plywood panels) 5b/Un
PLASTECO (dome skylights) 20a/PLa
PLASTEEL (roofing, siding) 8b/PL
PLASTEELITE (fiberglas reinforced panels) 8b/PL
PLASTER-WELD (plaster bonding agent) 4i/La; 12e/La
PLASTERTOX (masonry treatments) 9/To
PLASTI-CALK (calking) 19b/Ch
PLASTI-CANVAS (window shade fabric) 19c/St
PLASTI-LUVR (luminous ceilings) 33a/Lum
PLASTICONE (concrete ties) 2i/Ga
PLASTICORK (cork insulation) 10b/Ar
PLASTIMENT (densifiers) 9/Si
PLASTISOL (joints) 29a/Sti
PLEX-A-LITE (louvers) 4h/Ho
PLEX-O-LITE (lighting fixtures) 33a/Wh
PLEX-ORAMIC (lighting fixtures) 33a/Mi
PLEXI-MODU-LUMINUS (luminous ceilings) 33a/Lum
PLEXIGLAS (plastic material)........7d/Roh
PLEXI-SPHERE (lighting fixtures) 33a/Lia
PLEXOLINE (lighting fixtures) 33a/Da
PLI-NAMEL (enamel) 15/GLi
PLIABOARD (asbestos-cement sheets)..8c/Na
PLIBRICO (incinerators) 28a/PL
PLIOTONE (rubber base coating) ...13h/Pr
PLUGMOLD (multi-outlet wiring systems) 32b/Wi
PLURALITE (glass) 7a/Mi
PLYBASE (plywood) 5b/Do
PLYCHEN (plywood finish) 5b/PL
PLYCLIPS (plywood clips) 2i/CL
PLYFORM (plywood) 5b/Do
PLYGLAZE 101 (concrete form panels).2i/Sai
PLYMETL (metal faced plywood laminate) 3a/Ha
PLYMOUTH (locks, locksets, lock escutcheons) 18e/Sc
PLYONEER (flush doors) 16c/Cu
PLYPANEL (plywood) 5b/Do
PLYRON (plywood) 5b/Si
PLYSCORD (plywood) 5b/Do
PLYSHIELD (plywood) 5b/Do
PLYWALL (plywood paneling) 14b/PL
PLYWEAVE (plywood) 5b/Si
PLYWELSH (hardwood paneling) 13J/Bru
POINTEX (pattern glass) 7a/Am
POLARIS (after hour depositories) 23b/Di
POLARIS (drinking fountains) 27a/Bri
POLKATILE (floor tile) 13i/Ro
POLSPEC (aluminum reflector) 33a/Mo
POLY-CHAMP (polyethylene films) ...8h/Lu
POLY-CLAD (plywood finish) 14b/PL
POLY-FLOW (paints) 15/Ma
POLY-GLAS (architectural panels) 3c/Ma
POLY-KROME (floor tile) 13i/Hak
POLYCHROME (ceramic veneers) 4e/Fe
POLYGRID (cooling tower fill)......30b/FL
POMPEIIAN (floor tile) 13i/Ro
PORC-LIN-PLY (plywood panels) 5b/Un
PORCELGOLD (gold porcelain enamel panels) 3c/Ing
PORCELINER (lighting fixtures) 33a/MiL
PORCELOX (porcelain steel chalkboards) 23e/Lo
PORCELPANEL (porcelain enamel panels) 3c/Ing
PORCENA (toilet, shower compartments) 22b/Sa
PORCENELL (chalkboards) 23e/Ed
PORETE (concrete slabs) 2d/Con
PORETE (nailable planks) 2d/Po
PORETHERM (insulating concrete) 2d/Po
POREX (concrete slabs) 2d/Po
POREX (roof and floor decking) 2d/Con
POROCK (panel insulation) 3c/Er
POROSWALL (drain pipes) 29a/Wa
PORSETT (carpets) 13L/Le
PORT-A-TERIA (food storing and serving units) 26d/Li
PORTER (aluminum windows) 17a/Por
PORWELD (adhesives) 2d/Po
PORZELINE (incandescent lighting fixture) 33a/Pi
POST-FORM (plastic laminates) 14a/Par
POSTINDEX (record cabinets) 23b/Art
POTTER (fire escapes) 6h/Po
POW-R-TRUCK (elevators) 24a/Ot
POWDERFLO (soap dispensers) 27e/Mo
POWDURN (soap dispensers) 27d/Ar
POWELL (metal lath & accessories)..12a/Po
POWER-BEAMS (floodlights) 33a/Sto
POWER-GROVE (lighting fixtures) ...33a/Sm
POWER-LUME (lighting fixtures) 33a/Wh
POWERDOR (door operators) 16m/Fi
POWERGRAV (power or gravity ventilators) 20c/Va
POWERHOUSE (telephone booths) ...34a/Sh
POWERMATIC (electric toasters) 26c/To
POWEROLLER (bleacher operators) ..23J/Un
POWERPLUGIN (conduits, busbars) ..32a/Ad
POWERVENT (ventilator regulators) ...2J/Lo
POWR-VENT (skylights) 20a/Na
POWRDOR (electric elevator door operators) 24c/Gu

POWRTRUK (elevator sills) 24c/Gu
PRECIPITRON (air cleaners) 31a/We
PRECISION (disappearing stairways, closet fronts) 23n/Pr
PRECISION (electric hot water heating boilers) 31g/Pr
PREM-PAN (plastic laminated panels)..3e/Pr
PREMIER (chalkboards) 23e/So
PREMIER (display cases) 23e/Po
PREMIER (door hardware) 18e/Chi
PREMIER (overhead doors) 16i/Mo
PREMIER ALPHA (asbestos-cement panels) 3e/Pr
PREMIER DELTA (insulated sandwich panels) 3e/Pr
PREMIER GAMMA (insulated panels)..3e/Pr
PREMIER LAMBDA (insulated panels)...3e/Pr
PREMIER SIGMA (insulated panels)....3e/Pr
PREMIUM BRAND (insulation) 10a/Pr
PREMOULDED MEMBRANE (vapor seal).9/Me
PRESCOLITE (lighting fixtures) 33a/Pr
PRESCON (concrete prestressing system).2d/Pr
PRESCOTT (urinals) 27a/Ri
PRESDWOOD (concrete forms) 2i/Ma
PRESDWOOD (chalkboards) 23e/Go
PRESDWOOD (hardboard, panels)..8b/Ma; 8b/Mas; 14b/Ma; 14d/Mas
PRESIDENT (key drawer files) 18e/Moo
PRESKO (bulletin boards) 23e/We
PRESST-O-CEL (insulation tubing) 3f/Pre
PRESSTITE (sealing, caulking compounds) 3f/Pre
PRESSURE SEAL (double-hung windows) 17c/An
PRESSURESEAL (sealing, caulking compounds) 3f/Pre
PRESSWITCH (switches) 32b/Hu
PREST-O-MATIC (doors, operators) ...16h/CL
PREST-O-MATIC (electric cold storage doors) 23c/CL
PRESTEEL (stairways) 6h/Woo
PRESTFIN (refrigeration pipe) 31a/Fr
PRESTIGE LINE (closet doors)......16b/Amw
PRESTO-SET (glue) 5b/Un; 15/Uni
PRIDE-O-YARD (compressor-condenser) 31b/Ja
PRIMAFIL (primers and fillers) 15/Pr
PRINCE (water closets) 27a/Bri
PRINCESS (bathroom cabinets) 27d/Mi
PRINCESS (folding doors) 16e/CL
PRINCESS (sink cabinets) 27a/Bri
PRISM (glass blocks) 3e/Pi; 7b/Pi
PRISM-BLOCK (skylights) 20a/By
PRISMA-LUMINUS (luminous ceiling with diffusers) 33a/Lum
PRISMALUX (lens diffusers) 33a/Lia
PRISMOLD GRATELITE (light control louver) 33a/Gu
PRO-FIN (louvers) 19e/Lo
PROBOND E. T. (bonding agent)......9/Au
PROFESSION-L (business practice school furniture) 23i/Cr
PROJECT-O-LITE (lighting fixtures)....33a/Ce
PROJECT-O-VENT (projected windows) 17a/Sup
PROJECTORAMA (wide angle scene projectors) 33a/Ce
PROMENADE (roofing tile) 8c/Ke
PROTECTOR (snow guards) 8g/Le
PROTEKINSUL (protective coatings) 10a/Mir
PROTEX (concrete additives, sealers)...9/Au
PROVENCE (floor tile) 13c/Lu
PRY-LITE (lighting fixtures) 33a/Em
PRYEX (lifetime drainline) 29b/Co
PRYME-SHAKES (shingles) 8d/Cr

PSYCHOSECURITY (detention screens).19a/Ch
PUBLIC SERVICE (paper towels, holders) 27e/Cr
PUL-AIR (roof ventilators) 20c/Pe
PULFUZSWITCH (panelboards) 32a/Ad
PULLMAN (roof ventilators) 20c/Pe
PULLMAN (soap dispensers) 27e/Bo
PUNCHY (lighting fixtures) 33a/Cu
PURITAN (metal bathroom accesories) 27d/La
PURKETT (tumblers) 27g/Tr
PUSH-OVER (garage door hardware)..18d/AL
PUTTY STIK (filler) 15/Uni
PYGMEE (rolling steel doors) 16g/Ba
PYRACOTE (fireproof coating) 12d/Am
PYRACOUSTIC (acoustical plaster)...12d/Am
PYRAMID (ceiling pans and panels)..11a/Re
PYRAMID (chalkboards) 23e/Na
PYRAMID (natural slate) 4c/St
PYRENE (fire protection systems) 30f/Fy
PYRESOTE (fire-retardant wood treatments) 5a/Ba
PYREX (lighting glass) 33b/Co
PYRO PANL (fire retardant panels).....7d/Jo
PYROBAR (gypsum tile) 12c/Un
PYRODOME (skylights) 20a/Wa
PYRODOR (fire doors) 16b/Du
PYRODOR (sliding doors) 16h/Dus
PYROFILL (gypsum roof decks) 2d/Un
PYROFORM (formbord) 2d/Un
PYROJET (burners) 31c/Dr
PYROLITE (ceiling heaters) 31h/Ber
PYROMATIC (fire-labeled door operators) 16h/Dus
PYROPANEL (door panels) 16h/Dus
PYROVENT (skylights) 20a/Wa

q

Q-AIR (floor deck) 2b/Ro
Q-CLIP (fasteners) 2b/Ro
Q-DECK (roof deck) 2b/Ro
Q-FLOOR (floor decking) 2b/Ro
Q-PANEL (metal panels) 3c/Ro
Q-R (low contour ventilators) 20c/Va
Q-R JR. (power, roof ventilators) 20c/Va
Q-T DUCTLINER (duct linings) 11a/Ce
QUA-FLEX (fire hose) 30f/Fy
QUAKER MAID (kitchen cabinets, sinks, etc.) 25b/Qu
QUALI-KOTE (paint products) 15/Sh
QUALITY LINE (bathroom cabinets, accessories) 27d/Pa
QUALITYBILT (flush doors) 16c/Fa
QUALITYBILT (wood windows) 17c/Far
QUARTZOID (fire protection equipment) 30e/Gr
QUARTZOID (sprinklers) 30e/Gr
QUEEN ANNE (floor tile) 13i/Ro
QUEEN-BEE (masonry anchors).........2i/Gat
QUENTIN (lighting fixtures) 33a/Wh
QUICK-EXIT (exit, fire door device) ..18e/Sa
QUICKIE (hand and hair dryers)....27e/Bu
QUICK-SET (ceramic bathroom, kitchen accesories) 13c/Mos
QUICK-SET (masonry treatments) 9/Co
QUICKSEAL (masonry treatments) 9/St
QUICKWALL (primers) 15/Ba
QUIEDOR (sound retarding doors) ...16m/Fi
QUIET-DUCT (silencers) 11c/In
QUIET-FLOW (cooling tower silencers) 11c/In
QUIET-FLUSH (flush valves) 27b/SL
QUIET-VENT (silencers) 11c/In
QUIETEEZ (door operators) 16i/At

QUIETONE (acoustical tile) 10a/Uni
QUIK-DRY (enamels) 15/Ma
QUIK-FLAT (enamels) 15/Ma
QUIK-ROK (anchoring cement) 13h/Pr
QUIK-SEALER (plaster sealers) 15/Ma
QUINCY (lighting fixtures) 33a/Wh

r

R B & W (bolts) 2h/Ru
R&H (plastic material) 7d/Roh
R-C (duct floors) 2a/Ce
R & M-HUNTER (heating systems) 31h/Hu
R/C (underfloor wiring) 2a/Co
RCA (engineered sound) 34a/Ra
RCA WHIRLPOOL (home appliances) 25a/Wh
R.C.A. (floor, wall coverings) 13i/Ra
RCM (rubber flooring) 13i/Mu
RFD FARM-CHAMP (reflective insulation) 8h/Lu
R. I. W. (masonry treatments) 9/To
RL (troffer panels) 2c/Fe
RLM (lighting fixtures) 33a/MiL
RM (aluminum doors, frames) 21/Ri
R. O. W. (wood windows) 17c/Ro
R-PAR (lighting fixtures) 33a/Ce
RR (aluminum grating) 13a/KL
RS (ceramic tile panels) 3e/Ce
RS (steel, stainless steel) 6c/Re
R-W (doors, hardware) 16h/Ri
R-W (folding partitions) 22d/Ri
RA-GRID (heater plates) 7a/Am
RACKLE-LITE (lightweight roof slabs)...2d/Ra
RADIANT BLADES (heat-boosting fire-place blades) 31L/Ma
RADIILUXE (stainless steel equipment) 23L/Ju; 25b/Ju
RADOR (door operators) 16i/At
RAILITE (laminated plastic surfacing.14a/Re
RAINSTOP (water repellent) 29a/De
RAMBUSCH (church equipment, design service) 23h/Ra
RAMBUSCH DOWNLITES (down-lights) 33a/Ra
RAMSET (fastening systems) 2i/Ram
RANCH HOUSE (paint) 15/Ca
RANCH ROOF (continuous strip roofing) 8c/Bi
RANCHLINE 8a/Ba
RANDASH (flooring slate) 4c/Ve
RANDEX (pattern glass) 7a/Am
RANDOM-PLANK (hardboard panels) 14d/Geo
RANDOMWOOD (flooring) 13J/Ci
RANGELINE (ranges and ovens) 25a/Gen
RAPID CONTROL JOINT (masonry reinforcement) 4h/Du
RAPID-FLO (admixtures) 9/La
RAPID-FLO (water softeners) 27g/Pe
RAVEN (door chimes) 27d/Mi
RAY-COR (flush doors) 16i/Ray
RAY-LUX (composition panel) 16i/Ray
RAY PROOF (x-ray protective materials) 22e/Ra
RAY VENT (porch enclosures, combinction doors) 17a/Dev
RAYSTEP (concrete piles) 1a/Ra
RE-NEW-COAT (coatings) 9/Tru
REACH-THRU (refrigerators) 26a/Ty
READY-FIT (flooring slate) 4c/Ve
READY-4-USE MASTERPLATE (floor treatments) 9/Mas
READY FRAMED (chalkboards, chalkboard trim) 23e/Go
REALOCK (fencing) 22g/Co
REBCO (aluminum building products)..21/Re

trade names

RECEDER (wardrobes) 23d/Eq
RECIPROVEYOR-PALLETLIFT (pallet conveyors) 24d/St
RECORDLIFT (conveyors) 24d/St
RECREATION LINE (gymnasium equipment) 23k/Re
RED TOP (insulating blanket, wool) . 10a/Uni
RED TOP (lime, gypsum plaster) 12e/Un
RED TOP (masonry lime) 4i/Un
RED TOP (patching plaster) 15/Un
RED TOP AUDICOTE (acoustical plaster) 11a/Uni
RED-I-MIX (insulation protection) 9/Le
REDONDO (floor, wall tile) 13c/Sty
REDWOOD (sealers, stains) 15/Moo
REFLECTADOME (plastic skylights) ... 20a/Wa
REFLECTAL (building insulation) 10a/Re
REFLECTAL (screens) 19e/Re
REFLECT-A-LINE (lighting fixtures) .. 33a/Lia
REFLECT-O-SPHERE (display accent lights) 33a/Ce
REFLECT-O-SPHERE (display accent lights) 33a/Ce
REFLECTO-BARRIER (adhesives, plastic film) 8a/Re
REFRIG-A-BAR (refrigerators) 25b/Ac
REFRIG-O-RANGE (kitchen units) 25b/Ac
REGAL (chalkboards) 23e/Ne
REGAL (folding doors) 16e/CL
REGAL (roof coating) 8a/Jo
REGALITE (shade cloth) 19c/Jo
REGENCY (overhead doors) 16i/At
REGENCY (sliding glass doors) 16d/AL
REGENT (key wall cabinets) 18e/Moo
REGENT (lock escutcheons) 18e/Sc
REGENT (overhead doors) 16i/Mo
REGLEX (pattern glass) 7a/Am
REGULA (lighting fixtures) 33a/Cu
RELAMP-A-LITE (lighting fixture frames) 33a/Pr
RELAX (spring hinges) 18e/Chi
RELGRIT (grating, safety treads) 13a/Re
RELIANCE (steel casement windows) .. 17b/Wi
REMINGTON RAND (office furniture) . 23a/Re
REMITE (mechanical seals) 31i/Be
RENAISSANCE (floor tile) 13c/Lu
RENAISSANCE (plastic flooring) 13i/Am
RENOIR (plastic floor tile) 13i/Bo
REPUBLIC (steel, stainless steel) 6c/Re
REPUBLIC (steel pipe) 29a/Rep
RESERVE (shower doors and enclosures, tub enclosures) 27c/Ke
RESIGARD (institutional screens) 17a/Se
RESILBASE (floor covering, underlayment) 10a/Ho
RESISTA-CRETE (finish) 15/Wa
RESISTOX (fillers) 9/To
RESIWELD (adhesives, coatings, sealants) 3f/Fu
RESOLITE (plastic panels) 7d/Re
RESTO-CRETE (masonry coating) 9/Wet
RETARDO (paints, enamels) 15/Moo
REV (enamels, paints) 15/Ame
REVCO BILT-IN (custom refrigerator-freezer combinations) 25a/Rev
REVERE (gravel stops) 8g/Rea
REVERE (tube and pipe) 29a/Rev
REVERE-KEYSTONE (flashings) 8b/Re
REVERE-SIMPLEX (reglets) 8b/Re
REVO-FILE (filing cabinets) 23b/Mos
REX (roofing) 8a/FL
REXPAR (paint products) 15/Sh
REXALT (roofing coatings) 8a/FL
REZ (wood sealers) 15/Re
REZ-SEAL (sealer) 9/Eu
REZILL (floor cushioning) 13J/Co
REZITE (wood finishes) 15/Re
REZNOR-OLSON (direct fired heaters) 31c/Rez
REZO (wood doors) 16c/Pa
REZO-FOLD (door units) 16c/Pa
RHEEM-RICHMOND (plumbing fixtures) 27a/Ri
RHINO BRAND (adhesives) 13c/Pe
RHINO BRAND (building products) 3f/Pe
RHINO-KLAD (plastic floor toppings) ... 15/Su
RIBAC (plank flooring) 13J/Har
RIBBON LITE (continuous skylight) 20a/By
RIBFORM (steel forms) 2a/In
RIBLATH (flat metal lath) 12a/Un
RIBPLEX (metal lath) 12a/Tr
RIB-LINE (hardboard panel siding) .. 10a/Ce
RIB-TITE (prefabricated metal buildings) 2J/Pa
RICE-TEX (shade, drapery fabric) 19c/Ri
RICE-TWEED (drapery fabric) 19c/Ri
RICHCOR (lavatories) 27a/Ri
RICHELIEU (lavatories) 27a/Ri
RICHLAND (movable wall partitions) . 22a/Ga
RICHMOND (baffles) 34a/Lo
RICHMOND (lighting fixtures) 33a/MiL
RICHMOND (pass windows) 16g/Ri
RIDGE (doors) 16i/Rid
RIDGE (overhead doors) 16i/Rid
RIDGEGROOVE (hardboard panels) 8b/Ma; 8b/Mas; 14d/Mas
RIDGELINE (hardboard panels) 8b/Ma; 8b/Mas; 14d/Mas
RIDGEVENT (roof ventilators) 20c/Oc
RIG-I-FLEX (curtain tracks) 23g/Au
RIGID-TEX (metals) 6c/Ri
RIGIDWALL (insulating board) 10a/Bar
RIGIDWALL (sheathing) 8a/Ba
RIJARC (flooring strips) 13g/Ma
RIJLINE (base beads) 13g/Ma
RILCO (arches, trusses, roof decking etc.) 2e/Ri
RILCORD (trusses) 2e/Ri
RINO BRAND (building products) 7c/Pe
RIPPLE-LAWN (carpet cushions) 13L/Go
RIPPLEWOOD (plywood paneling) 5a/Ge
RISERFRAME (seat anchors) 2i/Su
RITE-ANGLE (column clamps) 2i/Ho
RITE-LITE (acrylic skylights) 20a/By
RITE-LOCK (locks) 18e/Ad
RITE VENT (ventilator skylights) 20a/By
RITE-WEIGHT (building insulation) ... 10a/Ba
RITTENHOUSE (chimes) 25a/Em
RIV-DEXTEEL (bridge decking) 13a/KL
RIVAL (leader straps) 8g/Le
RIVIERA (lock escutcheons) 18e/Sc
RIVIERA (plastic panels) 7d/AL
RIVIERA (shower cabinet) 27c/Cu
RIXON (automatic door operators) 18e/Ri
RO-WAY (overhead doors, motor operators) 16i/Ro
ROBBINETTE (floor tile) 13i/Ro
ROCK CORK (mineral insulation) 8a/Jo
ROCK-WELD (filler, sealer) 13h/Pr
ROCKET (commercial cooking equipment) 26c/Hot
ROCKET (sliding door hardware) 18d/Gr
ROCKFACE (partitions) 22a/Wh
ROCKLATH (gypsum lath) 12a/Un
ROCKLATH (plasterwork accessories) . 12c/Un
ROCKTOP (pigment and aggregate) 9/To
ROKITE (oven hearth) 26c/BLo
ROL-FOL (folding benches, tables) .. 23i/Ro
ROL-TOP (rolling doors) 16g/Ki
ROLD EDGE (fire hose cabinets) 30f/St
ROLL-A-WAY (chalkboards) 23e/Ko
ROLL-A-WAY (gymnasium seating) ... 23J/Un
ROLL-AWAY (skylights) 20b/Fi
ROLL-OUT (gymnasium seating) 23J/Hu
ROLL-R-RACKS (dishwashing racks) .. 25a/Hot
ROLLA-HEAD (venetian blinds) 19d/Ea
ROLLA-TEX (venetian blind tape) 19d/Ea
ROLLFORM (acoustical ceiling panels, fastening systems) 11a/Ro
ROLLING-COLD (refrigerated packaging conveyors) 26a/Ty
ROLSCREEN (screens, windows) 17c/RoL
ROLTITE (adhesive) 14a/Co
ROLTITE (contact cement) 13i/Mi
ROLY-DOOR (overhead doors) 16i/Mo
ROMAN (steel sliding glass doors) .. 16d/Ro
ROMANY (ceramic tile) 13c/Un
ROMANY SPARTAN (ceramic tile panels) 3e/Ce
ROMARK (traffic paint) 15/GLi
RONDO (expanded metal) 6e/Un
ROOFINSUL (fiber insulation) 8a/Jo
ROOFINSUL (roof insulation) 10a/Jo
ROOF-LINE (gravity ventilators) 20c/Va
ROOFMATE (roof insulation) 10a/Do
ROOMAIRE (air conditioners) 31a/Yo
ROTA-GRILL (grilles, ovens) 25a/Hot
ROTA-LIFT (autopsy table tops) 23L/Ma
ROTA-RELIEF (power units) 24a/Ro
ROTARY (lifts) 24a/Ro
ROTARY (rising stages) 23g/Ro
ROTO-FILE (filing cabinets) 23b/Mos
ROTO-OPERATORS (window operators) 17b/FL
ROTO-STRIP (lighting fixtures) 33a/Ne
ROTO-WAITER (dumbwaiters) 24a/Se
ROTODRAPER (curtain fixtures) 23g/Au
ROTOSPOT (recessed lights) 33a/Ra
ROTOWOOD (plastic laminates) 14a/Par
ROYAL (face brick) 4f/Ce
ROYAL (flush valves) 27b/SL
ROYAL (glazed ceramic tile) 13c/Roy
ROYAL (roof ventilators) 20c/Pe
ROYALFOLD (accordion partitions) ... 16e/Cu
RUBADUCT (wire coverings) 13i/Go
RUBATEX (closure strips) 8b/Ru
RUBATEX (insulation materials) 10b/Ru
RUBBAIR (rubber doors) 16k/St
RUBBER-BITE (refrigerator gaskets) ... 26a/Ba
RUBBER CALK (caulking compounds, sealers) 3f/Pro
RUBBER-LOC (carpet cushion) 13L/AL
RUBBER-TOP (carpet cushion) 13L/AL
RUBBERSEAL COPPER (flashings, waterproofing) 8g/Mi
RUBEROID (built-up roofing) 8a/Ru
RUBEROID (shingles, siding) 8c/Ru
RUGASOL (concrete coating) 9/Si
RUGG-TEX (tile finish) 4f/Na
RUGTEX (rubber matting) 3i/Ar
RUSCO (steel windows) 17a/Ru
RUSHTON (urinals) 27a/Bri
RUST-OLEUM (rust preventives) 15/Ru
RUST STOPPER (metal primer) 15/Ame
RUSTALOY (primers) 15/So
RUSTIC (plastic tile) 13g/We
RUSTICWOOD (plywood) 5b/Si
RUSTITE (masonry treatments) 9/Pa
RUSTMASTER (tank primer) 15/GLi
RY-WEDG (grating) 2d/Ry
RY-WELD (grating) 2d/Ry
RYERTEX-OMICRON (waterstops, gaskets, pipe, etc.) 2d/Ry
RYEX (grating) 2d/Ry

RYNO HYDE 90 (metal protective coating) 9/HL
RYSDONITE (doors) 16m/Fi
RYNOSEAL (wood finishes) 15/So

S

S-C (sound communications system)..34a/Str
S-G (institutional hardware) 18f/Sa
S.I.S. (roofing) 8a/Ba
SM (partitions) 22a/Na
SP (steel partitions) 22a/St
SPS (school shop furniture)...........23i/St
SSS (flush wood doors) 16c/Ge
SWP (paint products) 15/Sh
SABINA (sinks) 27a/Ri
SABINITE (acoustical plaster) 11a/Uni; 12e/Un
SABRE (lighting fixtures) 33a/MiL
SAF-T-DOR (wardrobes) 23d/Eq
SAF-T-LOK (weatherproof outlets, switches) 32b/Be
SAF-T-TRED (rubber flooring)........13i/Mu
SAFA (fire alarms) 30f/Fy
SAFE-BOND (contact cement) 14a/Fo
SAFE-EDGE (strip channels, corner lath) 12a/Na
SAFE-GRIP (grab bars) 27d/Ar
SAFE-GROOVE (thresholds, treads)..13b/Wo
SAFE-RAY (elevator operators) 24a/Ha
SAFE-T-COAT (coating for underground ducts) 32b/Sp
SAFE T LINE (window cleaners' devices) 18c/We
SAFE-T-SAN (floor polishes, finishes) 13m/Hu
SAFEGUARD (fencing) 22g/Cy
SAFETY GRID (heating elements) 31h/EL
SAFETY-SLIDE (cold storage room doors) 23c/Bu
SAFETYMIX (plumbing valves) 27b/Sy
SAFSTEP (safety treads) 13a/Ir
SAFWAY (telescoping gym seats) 23J/Sa
SAGLESS (door hardware) 18e/Chi
SAINO (fire doors) 16b/Sa
ST. CHARLES (hospital casework) 23L/Sa
ST. CHARLES (kitchen equipment) ...25b/Sa
ST. CHARLES (school storage furniture) 23i/Sa
SALEM (locksets) 18e/Sc
SALEM (shingles) 8c/Jo
SALEM (ventilating hoods)..........31e/Tr
SALES-CASES (refrigerated food display cases) 26a/Ty
SALT SPRAY (steel doors and track)..16i/Ove
SAMPSON (clothesline poles) 2i/Ho
SAMSON (aluminum, steel curtain walls) 3a/Sa
SAMSON (shade cloth) 19c/Jo
SANACOUSTIC (metal tile) 11a/Jo
SANDRAN (vinyl flooring, adhesives)..13i/Sa
SANI-DRY (hand and hair dryers)....27e/Ch
SANI-FLAT (paints, enamels) 15/Moo
SANI-GIENE (enamel) 15/GLi
SANI-STEEL (registers) 31f/Un
SANIMASTER (water heaters) 30c/Ru
SANISAC (waste receptacles) 26e/Ro
SANISEAL (hardeners) 9/Mas
SANITON (women's urinals) 27a/Bri
SANPAN (translucent building panels).3e/Pa
SANYMETAL (toilet, shower compartments) 22b/Sa
SAPPHIRE (sliding aluminum windows) 17a/Sa
SARALOY (flashings) 8g/Do; 10a/Do
SARATOGA (shower cabinets) 22b/FL

SARGENT (builders hardware) 18e/Sa
SARGENT MAGNALOCK (locksets) ..22a/Hau
SARGENT SENTRYLOCK (locks) 22a/Hau
SATIN-ALKYD (enamel) 15/Ha
SATIN-GLAZE (tile) 13c/Mos
SATIN SHEEN (paint) 15/Ha
SATINHIDE (enamel) 15/Pi
SATINLAC (fillers, stains) 15/Uni
SATINLAC (lacquer) 5b/Un; 13k/Uni
SATURDAY PATCH (patching compound) 9/Eu
SATURN (drinking fountains) 27a/Bri
SATURN (locks, lock escutcheons) 18e/Sc
SAV-WAY (toilet tissue, dispensers)..27e/Ste
SAVE-LITE (paint products) 15/Sh
SAVEALL (automatic sprinklers) 30f/Fy
SAVOY (lock escutcheons) 18e/Sc
SAW SHUTLBRAK (switchboards) 32a/Ad
SAXE (welded connections) 2h/Sa
SAXON (glass blocks) 3e/Pi; 7b/Pi
SCHENLEY (sinks) 27a/Ri
SCHLAGE (locks, locksets, lock escutcheons) 18e/Sc
SCHLEGEL (weatherstripping) 16a/Sc; 17a/Sc
SCHOLASTIC (protective wood finish) ..15/Pr
SCHOOLER (water coolers) 30d/Fi
SCHOOLINE (wardrobe racks) 23d/Vo
SCHWAB (jalousies) 17d/Sc
SCHWARTZ (pharmacy equipment) ..23L/Gr
SCORBORD (insulation) 10a/Do
SCORED TILE (glazed tile) 13c/Am
SCOTCH SHORES (couplers) 2i/Gat
SCOTSMAN (gliding door hardware) 18d/Ke
SCOTT (washroom advisory service and equipment) 27e/Sc
SCOTTIE (gliding door hardware) ..18d/Ke
SCOUT (juvenile water closets) 27a/Bri
SCREW-TITE (chalkboard trim) 23e/Go
SCREW-TITE (nails) 18a/In
SCUF-CHAMP (vapor barriers) 8h/Lu
SCULP-STONE (decorative panels).....4d/Do
SCULPTURAMA (porcelain enamel panels) 3c/Da
SE-CUR (floor wax) 13m/In
SEA SWIRL (plywood panels) 5b/Un
SEADRIFT (hardboard panels) 8b/Mas; 14d/Mas
SEAFORD (sinks) 27a/Ri
SEAL-A-MATIC (awning windows) ...17a/Sup
SEAL-A-MATIC (garage hinge) 16i/Ro
SEAL COAT (sealers) 8a/Ko
SEAL-CRETE (concrete floor sealer)...13m/In
SEAL-FLEX (removable window operative hardware) 18a/Gr
SEAL-O-SAN (floor polishes, finishes) 13m/Hu
SEAL-PRUF (sheet flashing) 8g/Ru
SEALAIR (windows) 19e/Ka
SEALAIR (windows, spandrels) 17a/Ka
SEALAIRE (aluminum windows) 3a/Ka
SEALER-CLEAR (terrazzo floor sealer).13m/In
SEALSTRIP (glazing tape) 3f/St
SEALTIGHT (waterproofing membrane)..9/Me
SEALTITE CORKCOTE insulation mastic) 10a/Un
SEALUME (gaskets) 33a/Mc
SEALWELD (coffee urns) 26d/BL
SEALZ (primers) 15/So
SEAPORCEL (porcelain enamel) 3c/Se
SEAPORCLAD (insulated porcelain panel) 3c/Se
SECO (fire protection equipment) 30f/Se
SECO (plastic protective systems, abrasive building resins) 15/Su
SECOTON (plastic protective systems) ..15/Su
SECTIONFOLD (folding doors) 16g/WiL

SECUR-ALOY (wire mesh) 19a/Ba
SECURIT (glass doors) 16d/Am
SECURIT (heat tempered glass, glass doors) 7a/Am
SECURITEE (ceiling suspension system) 11b/Ha
SECURITY (elevator doors) 24a/Se
SECURITY (hollow metal doors, frames) 16b/Se
SECURITY (plastic panels) 7d/Re
SEGMENTILE (tile) 4f/Na
SELBATEX (seamless floor covering) ..13i/Se
SELECT-A-SPEC (locks and hardware file) 18e/Co
SELECT-A-VENT (awning windows) ...17a/Sou
SELECT-O-PHONE (communication systems) 34a/Ke
SELECTAFLOW (controls, valves) 31i/De
SELECTEMP (heating system) 31J/Ir
SELECTOMATIC (elevator controls)..24a/We
SELECTRIC (water heaters) 27a/Cr
SELF-SENTERING (metal lath) 12a/Tr
SELMA (sinks) 27a/Ri
SELV-EDGE (metal lath) 12a/Un
SEMENTCOAT (cement coatings) 9/La
SEMI-LUSTRE (paint products) 15/Sh
SENATOR (food warming cabinets)..26d/Foo
SENIOR (pocket doors) 16d/Su
SENTINEL (showers) 27b/Sp
SENTINEL (toilet partitions) 22b/Mi
SENTRYLOCK (locks) 18e/Sa
SEPTAMENE (concrete control) 9/Con
SEQUIN (floor covering) 13i/Co
SERBIN (sinks) 27a/Ri
SERV-MOBILE (cart food dispensers)..26d/Sw
SERVI-CENTER (cabinet sinks) 25b/Yo
SERVICE (shade cloth) 19c/Jo
SERVICEMAN (door operators) 16i/Mc
SERVICISED (sealers, fillers, waterstops 2i/Se
SERVILLA (sinks) 27a/Ri
SERVINETTE (food vendor units) 26a/Au
SERVIRE (fire doors) 16g/Co; 22d/Co
SEWERTITE (sewer joint cements) 2i/Ca
SHADE-PAX (aluminum marquees).....19e/AL
SHAD-O-RUG (rubber matting) 13i/Ar
SHAD-O-RUG (rubber runners) 13i/Ko
SHADOFRAME (aluminum rolling windows) 17a/GL
SHADOW-LINE (kitchen cabinets)....25b/Ki
SHADOWFLASH (unglazed tile) 13c/Am
SHADOWOOD (plywood) 5b/Si
SHADOWVENT (hardboard panels) 8b/Ma; 8b/Mas
SHAKE-PANEL (shake panels) 8d/No
SHALLORAMA (lighting fixtures) 33a/Sun
SHAW-WALKER (bank equipment) ...23b/Sh
SHEETFLEXTOS (asbestos sheets) 8c/Ke
SHEETFORM (steel forms for concrete).2a/Sm
SHEETROCK (gypsum formboard) 2d/Un
SHEETROCK (gypsum sheathing, wallboard) 12c/Uni
SHEETROCK (sealers) 15/Un
SHEETROCK-TRUSSTEEL (studs) 12c/Uni
SHEFFIELD (ventilating hoods) 31e/Tr
SHELFORD (lavatories) 27a/Cr
SHELL-ICE (ice making machine) 31a/Fr
SHELTON (sinks) 27a/Ri
SHERARDUCT (conduit, couplings) ...32b/Na
SHERATON ((lighting fixtures) 33a/Sm
SHIELDCOTE (enamels) 15/Ame
SHIELDOR (toilet seat covers, dispensers) 27e/Ste
SHIELDWHITE (house paint) 15/Ame
SHINGLE-BACKER (shingle undercourse) 10a/Ins

trade names

SHINGLSTIK (cement) 8c/Ru
SHONE (ejectors) 30a/Ye
SHOP-BLOCK (flooring) 13J/Ci
SHOP TOP (laminated wood bench tops) 23i/St
SHOVELITE (lighting fixtures) 33a/Ra
SHOWER MAGIC (bath enclosures)..16d/Da
SHOWERAMA (bath enclosures) 16d/Da
SHOWERITE (shower doors, tub enclosures) 27c/Ef
SHOWERMASTER (shower cabinets)..22b/Sa
SHOWEROFF (plumbing valves) 27b/Sy
SHURE-SET (fastening tools) 2i/Ram
SHUR-SITE (safety stair tread) 31f/He
SURE-TEMP (gas water heaters) 30c/Sm
SHURBOND (concrete inserts) 2i/Ho
SI-FLO (flush valves) 27b/Sp
SICO CORE (wall panels) 3c/Be
SIERRA (shower receptors) 27c/Fi
SIESTA (vertical ventian blinds) 19d/Ku
SIGHT-TITE (grilles) 31f/Ba
SIGHTLINE (lighting systems)......33a/Sun
SIGHTRON (lighting fixtures) 33a/Lia
SIGNATURE BRICK (plaques, signs)....6f/Ar
SIGNET (bathtubs) 27a/Bri
SIGNLITE (lighting fixtures) 33a/Wh
SIGUNIT (masonry treatments) 9/Si
SIKA (masonry treatments) 9/Si
SIKA AER (masonry treatments) 9/Si
SIKA-GARD (floor hardeners) 9/Si
SIKA GUARDKOTE (surfacing compound).9/Si
SIKA-KOTE (masonry treatments) 9/Si
SIKA-PEL (masonry treatments)..........9/Si
SIKA-PLUG (sealers) 9/Si
SIKA SEAL (primers, sealers) 9/Si
SIKA-SET (masonry treatments) 9/Si
SIKA SURFACE-KOTE (surfacing compound) 9/Si
SIKACRETE (accelerators) 9/Si
SILAKOTE (masonry treatments) 9/We
SILANEAL (brick treatment) 9/Dw
SILCO (aluminum trim) 23e/Ne
SILCOLAC (water repellents) 9/Ce
SILCOTITE (water repellents) 9/Ce
SILENT CEILING (acoustical ceiling)..11a/Ea
SILENTEX (insulating tile) 10a/Na
SILIPRUF (masonry waterproofing)....13h/Pr
SILL-SEALER (blanket insulation)....10a/Wo
SILLSEAL (freezer door gaskets) 23c/Ja
SILLSULATION (insulation) 10a/Fo
SILOX (masonry sealers) 15/Wa
SILTECT (waffle bakers) 26c/To
SILVAY (sinks) 27a/Ri
SILVER-CHAMP (reflective insulation) 8h/Lu
SILVER SEAL (wood floor sealer) 13m/In
SILVER SERVICE (curtain machinery)..23g/Au
SILVER-SHEELD (protective film for ducts) 32b/Ga
SILVER-TEX (carpet cushion) 13L/AL
SIMIX (water mixing valves) 27b/Si
SIMPLEX (acoustical ceiling systems)...11a/Si
SIMPLEX (chalkboards, corkboards, molding) 23e/Be
SIMPLEX (disappearing stairways) ...23n/Pr
SIMPLEX (door hardware) 18e/Chi
SIMPLEX (gratings) 13a/Ir
SIMPLEX (raceway systems) 32b/St
SIMPLEX (radiant heating panels).....31b/Si
SIMPLEX (roof ventilators) 20c/Va
SIMPLEX (sprinkler system) 30e/Gr
SIMPLEX (steel casements) 17a/Fe
SIMPLEX (time recorders) 34b/Si
SIMPLICITY (bathroom accessories)..27d/Pa
SIMPLICITY (movable partitions) 22a/Un

SIMPSON (acoustical products) 11a/Sim
SIMPSON (plywood, plywood products) 5b/Si
SIMPSON (stile and rail doors) 16c/Sim
SIMPSON (wood doors) 16c/Si
SINGLINE (partitions) 22a/Mi
SINKETTE (sinks) 25b/ELk
SIPHON (roof ventilators) 20c/Oc
SIROCCO (fans) 31a/Am; 31a/Ame
61 (enamel, fillers, varnish) 15/Pr
SKY LUX (luminaires) 33a/Cu
SKYDOME (skylights) 20a/Wa
SKYLIGHTER (skylight blinds) 19d/Lo
SKYLINE (roof ventilators) 20c/Ar
SKYLINER (lighting fixtures) 33a-Mi
SKYSHADE (skylight shades) 20a/Van
SKYTEX (pattern glass) 7a/Am
SKYTRAIL (vinyl-asbestos floor tile)...13i/FL
SKYVENT (ventilating dome skylights) 20a/Wa
SLABFORM (concrete forms) 2f/Bet
SLABLIFT (concrete slab handles) 2i/Ho
SLATEBESTOS (chalkboards) 23e/Be
SLATOPLATE (chalkboards) 23e/Be
SLATOSTEEL (chalkboards) 23e/Be
SLEEK-LINE (continuous roof ventilators) 20c/Va
SLENDA-LITE (plastic diffusers) 33a/Lin
SLENDEX (lighting fixtures)..........33a/Sm
SLIDE-A-SHADE (shades, shade hardware) 22c/Ji
SLIDE-AWAY (towel, pan, cup racks) .18g/Kn
SLIDE-MASTER (aluminum windows) 17a/Wir
SLIDERITE (drawer slides) 18d/Gr
SLIDE-WALL (folding partitions) 22d/Na
SLIMLINE (chests and beds) 23i/Sim
SLIMLUX (lighting fixtures) 33a/Gu
SLIP-TITE (chalkboard trim) 23e/Go
SLUSHSEAL (partitions) 22b/FL
SMALMESH (lath) 12a/In
SMOKESTACK (black paint) 15/GLi
SMOOTH SEAM (fiber tubes) 2a/Ap
SMOOTHEE (door closers) 18e/La
SNAP-IN (form ties) 2i/Da
SNAP-LOCK (panel moulding) 22a/Co
SNAP-ON (pipe insulation) 10a/Gu
SNAP-ON-TRIM (door, window trim).12c/Uni
SNAP-TITE (chalkboard trim) 23e/Go
SNAPICOIL (wiring systems) 32b/Wi
SNAPTIE (concrete form ties) 2i/Me
SNAPTITE (gutters) 8g/Re
SNAP-TY (anchors) 2i/Ri
SNEAD (library equipment) 23f/GL
SNO-QUEEN (refrigerators) 26a/Vi
SNOLITE (enamel, primer-sealer) 15/Pi
SNORKEL (bank windows) 23b/Mos
SNOW WHITE (paint, sealers) 9/St
SNOW-WHITE (vinyl roof coating)...8a/De
SNUG-TITE (door catch) 18g/En
SOAP MASTER (soap dispensers) 27e/St
SOAPARATUS (soap dispensers) 27e/We
SOAPMASTER (soap dispensers)......27e/Vo
SOF-TRED-TYLE (roll matting) 13i/Ko
SOFFITSOTE (soffit material) 10a/Ho
SOFSTEP (rubber floor tile) 13i/Mas
SOFT-LITE (glass blocks) 7b/Pi
SOFTAN (toilet tissue) 27e/Bro
SOFTENALL (water softeners) 27a/Cr
SOFTGLODOME (lighting ware) 33a/Pi
SOFTITE (galvanized coating) 2a/Wh
SOFTITE COP-R-LOY (galvanized steel) 12a/Wh
SOFTOWATER (water softening system) 30b/Li

SOFWITE (toilet tissue) 27e/Bro
SOL-DEC (sun control devices) 3a/ALu
SOL-SET (aluminum louvers) 19e/ALu
SOLARAIRE (skylight-ventilators) 20c/We
SOLARGRAY (plate glass) 7a/Pi
SOLAROID (domes) 20a/Na
SOLEX (plate glass) 7a/Pi
SOLIDEX (paint) 15/Pr
SOLIDOR (flush doors) 16c/Fa
SOLIDUS (hardeners) 9/La
SOLUX (lighting fixtures) 33a/So
SOLVE-X (solvents) 15/Ma
SON-NEL (chalkboards) 23e/So
SON-NEL (folding tables and benches) 23i/So
SON NO MAR (concrete floor treatment) 9/So
SONICBAR (sound retarding door) ...16m/Fi
SONOAIRDUCT (fibre ducts) 31f/Son
SONOBATTS (acoustical batts) 11a/Ow
SONOBRITE (concrete coloring) 9/So
SONOCO (concrete forms) 2i/Son
SONOCOR (acoustical pads, rolls) ..11a/Ow
SONOFACED (acoustical tile facing).11a/Ow
SONOLASTIC (synthetic caulking compounds) 9/So
SONOPLEX (coatings) 9/So
SONORA (sinks) 27a/Ri
SONOSORBER (sound absorbers) 11a/Ha
SONOTARD (concrete admixtures) 9/So
SONOTROL (roof ventilator curbs) ...20c/Pe
SONOTUBE (concrete column forms)..2i/Son
SONOVOID (fiber tubes) 2d/Son
SORBETTE (towel cabinets) 27e/Cr
SOUND LOK (door units) 16m/Fi
SOUND-SHIELD (acoustical insulation) 11a/Co
SOUNDEX (partitions) 22a/Ga
SOUNDMASTER (folding partitions)..22d/Ne
SOUNDPANS (translucent lighting pans) 11a/Con
SOUNDSHEET (translucent acoustical materials) 11a/Con
SOUTHSHORE (overhead doors) 16i/At
SOVEREIGN (lighting fixtures) 33a/MiL
SPA-SAVER (refrigerators) 25b/Ac
SPA SPIREX (sash balances) 18a/Ca
SPACE-MATES (domestic dryers) 25a/We
SPACE PANELS (aluminum partitions).22a/Par
SPACE-RITE (tile alignment systems) ...13c/Po
SPACE SAVER (blowers) 31e/Tr
SPACE-SAVER (film filing cabinet) 23L/Ge
SPACE SAVER (freezers, refrigerators).26a/Jo
SPACE-SAVER DOOR (folding doors).16e/Wo
SPACEMASTER (folding doors) 16e/Ne
SPACEMASTER (wardrobes) 23d/Eq
SPACESAVER (air conditioners, furnaces) 31a/Ai; 31a/Air
SPAL (detergents) 13m/Hu
SPANDO (metal flashing) 8g/Che
SPANDRELITE (colored glass) 3e/Pit
SPANDRELITE (structural glass) 7a/Pi
SPANG (underfloor distribution systems) 32b/Sp
SPANOTRAC (drapery tracks) 23g/Au
SPARAMICS (mosaic tiles) 13c/Un
SPARKLE (ceramic tile) 13c/We
SPARKLERS (floor tile) 13i/Bon
SPARLITE (lighting fixtures) 33a/Mu
SPARTAN (ceramic tile) 13c/Un
SPARTAN (locksets) 18e/Co
SPARTAN (overhead doors) 16i/At
SPARTON (urinals) 27a/Bri
SPARVEX (varnish sealer) 15/Na
SPATTER (linoleum) 13i/Arm
SPATTERTEX (rubber matting) 13i/Ar

SPECIALMESH (lath) 12a/In
SPECIFICATION (built-up roofing) 8a/Ba
SPECTRA-GLAZE (glazed concrete blocks) 4g/Bu
SPECTRIM (colored metal mouldings) ..21/Pi
SPEE-D-DRY (paints) 15/Ac
SPEED-A-BACKER (tile) 4f/Na
SPEED-A-TERIA (food storing and serving units) 26d/Li
SPEED-E-DRY (paint vehicle) 15/Ru
SPEED-E-STRIP (paint and varnish remover) 13m/In
SPEED-FILL (water stations) 27b/Ta
SPEED-STRIP (metal chamfer strips)....2i/Su
SPEEDENAMEL (primer) 15/GLi
SPEEDER (diswashers) 26b/In
SPEEDLINE (ironers) 27g/Tr
SPEEDLOK (refrigerator locking device) 26a/Ba
SPEEDMOUNT (wiring devices) 32b/Be
SPEEDOMATIC (troffers) 33a/Sm
SPEEDRAMPS (escalators) 24a/Mon
SPEEDWALKS (escalators) 24a/Mon
SPIN-SEAL (fateners) 2h/Ru
SPINTEX (mineral wool insulation) 10a/Jo
SPIRAFLEX (sash balances) 18a/Ca
SPIRAFLO (sewage treatment system).30e/Ye
SPIRAHOFF (sewage treatment system) 30a/Ye
SPIREX (sash balances) 18a/Ca
SPLEN-DOOR (folding doors) 16e/Sp
SPONGEX (carpet cushions) 13L/Go
SPORTSLIGHTER (floodlights) 33a/Sto
SPOT MUZAK (self-contained music distribution systems) 34a/Mu
SPOTTY (lighting fixtures) 33a/Cu
SPRATOWER (cooling towers) 30b/Ma
SPRAY CRAFT (sprayed-on insulation).10a/Aa
SPRAY-DAY-LITE (enamel) 15/GLi
SPRAYCRAFT (sprayed on fireproofing insulation) 10a/Sm; 12e/Sm
SPRAYDON (insulation and acoustical treatment) 11a/Sp
SPRAYOLITE (acoustical plaster) 12e/Na
SPRED (filler, paint) 15/GLi
SPRINGLAWN (carpet cushions) 13L/Go
SPRINGWOOD (resilient floor system).13J/Sp
SPUN-BLANKET (insulation) 10a/Ba
SPY-PROOF (lock dials) 18f/Sa
SQUARE-RIB (corrugated sheets) 8b/Sm
SQUAREFORM (steel forms for concrete) 2a/Sm
SQUAREHED (nails) 18a/In
SQUIRE (toilet bowls) 27a/Bri
STA-DRI (masonry treatments) 9/Am
STA-KOLD (refrigerators) 26a/Vi
STA-LITE (acoustical tile) 11a/Wor
STA-PUT (lighting fixtures) 33a/Ve
STA-RITE (wood doors) 16h/Ri
STA-SEAL (shingle sealing tabs) 8c/Ca
STACKDOOR (sliding doors) 16e/Am
STACK-FAST (clothes stackers) 27g/Tr
STAFFORD (lavatories) 27a/Cr
STAIN-SHIELD (range hoods) 26c/To
STAIR-CHAIR (passenger elevators)...24a/Se
STAIRMASTER (stair treads) 13b/Wo
STALLPACK (toilet enclosures) 22b/Ca
STAN-GUARDS (finger guards) 18e/Sta
STANDARD (conveyors) 24d/St
STANDARD (fire protection equipment) 30f/St
STANDARD (heating and air conditioning equipment) 31a/Ame
STANDARD (open web steel joists) 2f/St
STANDARD-FLUSH (wood doors) 16c/Ha
STANDARD LINE (bathroom cabinets, accessories) 27d/Pa
STANDEASE (mats and runners) 13i/Ar
STANSEAL (weatherstripping) 3f/St
STANSTRIP (weatherstripping) 3f/St
STANWIN (casement windows) 17b/Fe
STAR (locks) 18e/Sc
STAR (gauging plaster) 12e/Un
STAR (floor finishes) 13m/Hi
STAR-LINER (lighting fixtures) 33a/Mi
STAR LUX (lighting fixtures) 33a/Cu
STARFIRE (wall tile) 3c/Be
STARDUST (plastic flooring) 13i/Am
STARFOLD (accordion doors, partitions) 16e/Cu
STARKOTE (glazed tile) 4f/St
STARLITE (sinks) 25b/ELk
STASO (glazed brick) 4f/Ce
STATIC (asphalt) 8a/FL
STATIC CONDUCTIVE (linoleum) 13i/Co
STATICK (power ventilator) 20c/Hi
STATITE (plaster bond) 9/Aq
STAXAUSTER (ventilators) 20c/AL
STAY-LEVEL (toilet compartment doors) 22b/Ac
STAY-RIB (lath) 12a/In
STAY-RIB (steel forms) 2a/In
STAY-STRATE (flush doors) 16c/Un
STAY-STRATE (partition doors) 22a/Uni
STAYBRITE (mortar colors) 9/Ho
STEAM-CHEF (steamers) 26c/CL
STEAM-IT (pressure cookers) 26c/Ma
STEAM-THRIFT (steamer kettle) 26c/CL
STEAMCRAFT (steamers) 26c/CL
STEAMCRAFT CUB (steamers) 26c/CL
STEAMLINER (steamers) 26c/CL
STEAREX (concrete waterproofing agent) 9/Con
STEARONIUM (admixtures) 13h/Pr
STEAROX (admixtures) 9/Mas
STEEL-CEIL-CRETE (floor decking) 23f/Ar
STEEL-CEIL-RITE (floor decking) 23f/Ar
STEEL-LINE (sliding door hardware)..18e/Ya
STEEL-PLY (concrete forms) 2i/Sy
STEELACOUSTIC (acoustical panels) ..11a/Ce
STEELBESTOS (protected metal) 3a/Bo; 8b/Bo
STEELCO (bleachers and grandstands).23J/Es
STEELCRAFT (door and frames) 16b/Ste
STEELCRETE (reinforcing) 12a/Wh
STEELDEK (structural sections) 2f/Pe
STEELDOME (concrete forms) 2a/Ce
STEELECO (window shades) 19c/St
STEELEX (movable wall partitions)...22a/Ga
STEELEATHER (window shade fabric)..19c/St
STEELITE (folding doors) 16e/CL
STEELOX (steel building panels)....2J/Ar
STEELTEX (floor lath) 2a/Pit
STEELTEX (metal lath) 12a/Pi
STEEP (roofing asphalt) 8a/Ce
STEINER (washroom service and equipment) 27e/St
STELECRETE (sound-retarding doors) ..16m/Fi
STELLAR (lavatories) 27a/Cr
STEP-SEAL (vinyl door sealer) 19b/Dur
STEPLAP (plastic panels) 7d/AL
STERI-FLO (drinking fountains) 30d/Fi
STERLING (chalkboards) 23e/We
STERLING (lavatories) 27a/Cr
STERO (commercial dishwashing machines) 26b/St
STEWART (lavatories) 27a/Ca
STIC-KLIP (soap dispenser adhesive)..27e/Vo
STIKTITE (corkboard adhesive) 23e/Lo
STILE-MATE (window slider) 18a/Gr
STILES-KARLSON (automatic dispensers) 30b/St
STONCO (lighting fixtures) 33a/Sto
STONE-BESTOS (chalkboards) 23e/Ne
STONEBROOK (shower cabinets) 22b/FL
STONESET (portland cement) 4i/Me
STONINGTON (locks) 18e/Sa
STONEWALL (asbestos panels) 8c/Ru
STOP-STEP (step ladder) 23i/Cr
STOPS RUST (primers) 15/Ru
STOR-A-TERIA (food storing and serving units) 26d/Li
STOR-MOR (book drawers) 23f/Am
STOR-O-WHEEL (food storing, conveying, serving units) 26d/Li
STORAGEWALL (cabinets) 23i/Sto
STORM KING (roofing) 8a/Ba
STRAN-STEEL (steel framing, decking, curtain wall panels) 2f/Str
STRATAPANEL (plastic storage system).23c/Sc
STRATO-GLOW (lighting ware) 33a/Em
STRATO LUX (lighting fixtures) 33a/Cu
STRATO-RAY lighting glass) 33a/Em
STRATTON (sinks) 27a/Ri
STREAM FLOW GRATING (catch basin heads, frames, gratings) 6i/Ca
STREAMLINE (copper tube and fittings) 29a/Mu
STREAMLINER (registers, grilles) 31f/Au
STRIA (acoustical tile)....11a/Ow; 33b/Ow
STRIATONE (mineral fiber tile) 11a/Ce
STRIP-CLIP (partition fittings) 22a/Pan
STRIP-ITE (corner reinforcements) ...12a/Tr
STRIPITE (diamond mesh lath) 12a/Wh
STRIPITE (metal lath) 12a/Bo
STRIPLATH (metal lath) 12a/Un
STROMBERG-CARLSON (intercommunicating systems) 34a/Str
STRONG-TIE (anchors, joist hangers, etc.) 2i/Si
STRONG-WALL (sheathing) 10a/Ce
STRONGBORD (sheathing) 10a/Jo
STRONGHOLD (nails) 18a/In
STRONGMAN (clothesline poles) 2i/Ho
STRUCSURESEAL (sealing, caulking compounds) 3f/Pre
STRUCTO-BOARD (chalkboards) 23e/Go
STRUCTO-GUAGE (gauging plaster) 12e/Un
STRUCTO-LITE (gypsum plaster) 12e/Un
STRUCTOBOARD (hardboard) 10a/Uni
STRUCTOGLAS (plastic panels) 7d/In
STRUCTOSEAL (clear mastic) 7d/In
STRUCTUR-ACOUSTIC (acoustic roof forms) 2c/Gra; 2c/Grn
STRUCTURALITE (glass) 7a/Mi
STRUTWALL (wood window walls) ..17c/An
STRYTEX (asbestos shingles) 8c/Ke
STUCCOMESH (stucco reinforcing) ...12a/Un
STUDLOCK (clip system) 12a/Pe
STURDEE (diving stand) 23k/Par
STURDI-DOOR (doors) 16b/Amw
STURDIBILT (sinks) 25b/ELk
STYLE-LINE (dressing compartments)..22b/Pri
STYLE-TREND (flush doors) 16c/Cu
STYLINE (wall panels) 3a/Wa
STYLMARK (rolling door hardware; mirror, picture frames) 18g/De
STYLTONE (acoustical tile) 11a/Ba
STYROFOAM (insulation) 10a/Do
STYROFOAM (low temperature insulation) 10a/Dow
SU-WIN-CO (louver jalousie) 17a/Sup
SUBKOTE UNDERLAYMENT (latex floor underlayment) 13i/Cr

trade names

SUBURBAN (asphalt shingles) 8c/Ru
SUBURBAN (garage doors) 16i/Be
SUBURBAN (lighting fixtures) 33a/MiL
SUBVEYOR (dish conveyors) 26d/OL
SUDS-MISER (washers) 25a/Wh
SULTAN (toilet bowls) 27a/Bri
SUMMERFLO (controls, valves) 31i/De
SUMMIT (lavatories) 27a/Ri
SUMMITVILLE REDS (quarry tile) ...13c/Sum
SUN-PROOF (paint) 15/Pi
SUN-TRON (radiant heating panels)..31h/Su
SUN VALLEY (air conditioners) 31a/Ar
SUN VERTIKAL (vertical blinds) 19d/Su
SUNFLEX (paint) 15/Nat
SUNLIGHT (aluminum windows) 17a/Su
SUNLINE (hardboard panels) 8b/Ma; 8b/Mas; 14d/Mas
SUNNYBASE (baseboard heating) ...27a/Cr
SUNNYCREST (sinks) 27a/Cr
SUNNYDAY (boilers, sinks) 27a/Cr
SUNNYSAVER (heaters) 27a/Cr
SUNNYLAND (furnaces, air conditioners) 27a/Cr
SUNNYWALL (baseboard heating) ...27a/Cr
SUNRAY (linoleum) 13i/Co
SUNROC (water coolers) 30d/Su
SUNSCREEN (screens) 19e/Re
SUNTILE (ceramic tile) 13c/Ca
SUNTROL (glass blocks) 3e/Pi; 7b/Pi
SUNWALL (aluminum windows, curtain walls) 3a/Su
SUPER (dishwashers) 26b/In
SUPER BAR (guard windows) 17b/Ba; 17b/Baz
SUPER CAM (refrigerator door operators) 23c/Bu
SUPER-EX (corner beads) 12a/In
SUPER-FI (fiberglas) 7d/Fi
SUPER-FLO (floor drains) 30g/Jo
SUPER-FREEZER (freezer doors) 23c/Ja
SUPER-FREEZER (cold storage room doors) 23c/Bu
SUPER G (fry kettles) 26c/To
SUPER-GRIND (food waste dispensers) 25a/Gen
SUPER-GRIT (stair treads) 13b/Wo
SUPER HIL-BRITE (floor wax) 13m/Hi
SUPER-HIL-TONE (floor dressing) 13m/Hi
SUPER HILCO-LUSTRE (floor polish)..13m/Hi
SUPER-HOLD (wood windows) 17c/Car
SUPER-LIFT (wood windows) 17c/Car
SUPER-MATIC CALROD (ranges) 25a/Hot
SUPER-MIX (masonry treatments) 9/Co
SUPER-ONEX-SEAL (floor sealers) 13m/Hi
SUPER-SEAL (door fasteners) 23c/Bu
SUPER-POR-SEAL (coatings) 9/Tru
SUPER-POR-SEAL (masonry sealer) ...15/Dev
SUPER-POWER JOBMASTER (fastening tools) 2i/Ram
SUPER POWERHOUSE (insulating cement) 10c/BaL
SUPER RESISTANT (guard windows) 17b/Ba; 17b/Baz
SUPER SATIN SURFACE (flush wood doors) 16c/Ge
SUPER-SEPTIC (septic tanks) 30h/Ka
SUPER SHINE-ALL (floor cleaners) 13m/Hi
SUPER SKY (aluminum and glass skylights) 20b/Su
SUPER-THERM (wood windows) 17c/Car
SUPER THERMO-BASE (baseboard cooling, heating) 31f/Ger
SUPER-THICK (mineral wool batts)..10a/Na

SUPER TOXLOXPORE (masonry treatments) 9/To
SUPER TUFF-TEX (greaseproof floor tile) 13i/FL
SUPER 2600 CALROD (ranges, ovens) 25a/Hot
SUPER-WAY (wood doors) 16h/Ri
SUPERANGE (commercial ranges)....26c/Hot
SUPERANGE (electric ranges) 25c/Hot
SUPERCHIEF (commercial ranges)....26c/Hot
SUPERFLEX (linoleum backing) 13i/Co
SUPERFLO (continuous gravity, roof ventilators) 20c/Va
SUPERFLO (roof ventilators) 20c/Va
SUPERGRID (commercial ranges) 26c/Hot
SUPERHEAT (commercial ovens) 26c/Hot
SUPERIOR (concrete accessories) 2i/Su
SUPERIOR (fire shutters) 16g/Ki
SUPERIOR (wirework) 22f/Su
SUPERIOR TYPE (double hung windows) 17b/Po
SUPERITE (chalkboards) 23e/Ed
SUPERLINE (commercial cooking equipment) 26c/Hot
SUPERMATIC (washers, dryers) 25a/May
SUPERSANITAS (plastic-coated fabric wall covering) 13k/St
SUPERSEAL (waterproofing fabrics) 9/Mi
SUPERSINE (signs) 6f/Su
SUPERSPAN (concrete channels) 2d/Ra
SUPERTEX (shades) 23e/Be
SUPERTOP (commercial ranges) 26c/Hot
SUPERWALL (window walls) 17a/Sup
SUPERWOOD (plastic laminates) ...14a/Par
SUPEX (water repellent) 9/Wa
SUPRACOUSTIC (acoustical tile) 11a/Ce
SUPRATEXT (laminated safety glass)...7a/Am
SUPREX (plastic tile) 13i/Go
SURE-GRIP (anchors, ties, masonry construction accessories) 2i/Da
SURE-LOK (awning windows) 17c/Ro
SURE-LOK (masonry reinforcement) ...2i/Da
SURE/POWER (generator sets) 32c/AL
SURE-SET (tile backing) 13c/Sty
SURE-SPACE (tile lugs) 13c/Sty
SURESEAL (curing compounds) 9/Ce
SURE-FORM (concrete form panels)....5b/Un
SURFA-ETCH (concrete neutralizer) 15/Ru
SURFA-SELE (sealers) 15/Ru
finish) 8c/Na
SURFACEDUCT (steel surface raceway) 32b/Na
SURFCOAT (floor sealers, finishes) 13m/Hi
SURFHARD (hardener) 9/Eu
SURFLEX (hardener) 9/Eu
SURFLINER (lighting fixtures) 33a/We
SURFPLANK (solid lumber panels) 5b/Un
SURFTONE (wall panels) 10a/Ce
SURFWOOD (plywood panels) 5b/Un
SUSSEX (asbestos-cement siding)......8c/Na
SUSSEX (locksets) 18e/Sc
SWAN NECK (remote controls for windows) 18b/Te
SWIF-WAY (tile mounting) 13c/Mos
SWING-O-WAY (exhaust systems) ..20c/Amm
SWINGLITE (window operators) 18b/De
SWIRL-AWAY (washer draining action) 25a/May
SWITCH-BAK (shower) 27b/Sp
SYENITE (glass) 7a/Mi
SYLVA-CELL (lighting system) 33a/Sy
SYLVA-LUME (lighting systems) 33a/Sy
SYLVAN-AIRE (plastic lighting ware)..33a/Sy
SYLVANIA VHO (lamps, lighting fixtures) 33a/Sy
SYNCHROVENT (projected windows).17a/Fen

SYNTHACALK (caulking compounds)...3f/Pe
SYOSSET (plastic diffusers)..........33a/Lin
SYPHONAIRE (ventilators) 20c/We

t

T & S (cocks, faucets, fittings, valves).27b/Ta
T & T (building directories) 23a/Ta
T & T (changeable letter signs) 23a/Tab
T-CHORD (longspan joists) 2f/Ha
T-METAL (zinc alloy sheet metal) 6b/Hy
TV FABRIC (drapery fabric) 19c/Ri
TABASCO (water heaters) 31a/Ame
TAC (building panels) 2c/Fe
TAC-AC (acoustical panels) 2c/Fe
TAC-ON (corkboards) 23e/We
TAC-T (troffer panels) 2c/Fe
TAC-TEX (tackboards) 23e/Ko
TALC (windows) 17a/Tr
TANALITH (wood preservatives) 5d/Ko; 5d/Kop
TANC-TYP (soap dispensers) 27e/Mo
TANK-COTE (tank lining) 13h/Pr
TAPE-R-TRACK (overhead door tracks) 16i/Win
TAPER TITE (garage door track) 16i/Ro
TAPERSTEEL (flagpoles) 6g/No
TAPERWELD (pipe, pipe fittings) 29a/Or
TAPESTRY (structural glass) 7a/Pi
TAR-ROK (tar) 8a/Ba
TARA-FLOR (rubber flooring) 13i/Ra
TARVIA (road tar) 8a/Ba
TASTE-MASTER (water filters) 30d/Fi
TATE (pipe linings) 1a/Ra
TECO-TESTED (plywood) 5b/Te
TECTUM (acoustical ceiling panels) ...11a/Te
TECTUM (form plank) 2a/Te
TECTUM (roof tiles, planks)..........2d/Te
TEEKORATOR (incinerators) 28a/Sp
TEKWOOD (hardwood veneers) 5b/Un
TEL-A-COOK (range lights) 25a/Gen
TEL-O-POST (adjustable reinforcing posts) 2i/CL
TELCO (pass windows) 16g/Pei
TELE-POWER (dual raceway systems).32b/Wi
TELEFLEX (remote controls for windows) 18b/Te
TELENURSE (nurse call systems) 34a/Pe
TELKEE (key control systems) 18e/Moo
TELLERWAITER (dumbwaiters) 24a/Ch
TEL-U-MAT (signaling mats) 13i/Ar
TEMEDGE (pattern glass) 7a/Am
TEMLOK (roof insulation) 10a/Ar
TEMPCO (shower valves) 27b/Te
TEMPERED PRESDWOOD (chalkboards) 23e/Go
TEMPGARD (aluminum paint) 15/Moo
TEMPLITE (church lighting) 33a/Ra
TEMPO (bathroom accessories) 27d/Ha
TEMPO (lockset) 16b/Ce
TEMPO (steel chairs) 23a/Ha
TEMPRITE (water coolers) 30d/Te
TEMPRTILE (hardboard panels) 8b/Mas; 14dMas
TEMPTROL (thermostatic shower controllers) 27b/Sy
TENNQUARTZ (quartzite) 4c/Ten
TENSILFORM (concrete forms) 2a/Wh
TENSILFORM (floor slab form) 12a/Wh
TERMIBAR (termite vapor barriers).....8h/Bi
TERMINIX (termite control) 13J/Bru
TERRAFLEX (plastic floor tile) 13i/Jo
TERRALAST (plastic tile) 13i/Vi
TERRATEX (vitrified floor tile) 13c/Lo
TERRAVINYL (floor tile) 13i/Mat
TERRAVINYL (vinyl floor tile) 13i/Mas

TERRAZEAL (terrazzo floor sealers) ...9/Wes
TERRAZZINE (floor treatments)......13m/Hi
TERRAZZOTREM (terrazzo floor sealer)..9/Tr
TES-TITE (curtain walls, windows)....3a/Be
TEXAS TEXTURE (texturing materials).15/Nat
TEXBORD (hardboard siding, shingles) 10a/Ce
TEXCOLOR (hardeners) 9/Pa
TEX DRI-WALL (tile) 4f/Na
TEXLOC (carpet cement) 13L/Le
TEXOLITE (paint) 11a/Uni
TEXOLITE (paint products) 15/Un
TEX-STEELE (window shade fabric).....19/St
TEXTELLE (linoleum) 13i/Arm
TEXTOLITE (laminated plastic surfacing) 14a/Ge
TEXTOLITE (paint) 11a/Uni
TEXTONE (texturing paint) 15/Un
TEXTURE (texturing materials) 15/Nat
TEXTURE 1-11 (plywood) 5b/Si
TEXTURE-TONE (acoustic mineral tile) 11a/Ce
TEXTURED FLUTEX (pattern glass) 7a/Am
TEXTURED LINEX (pattern glass) 7a/Am
TEXTURLITE (shade cloth) 19c/Jo
TEXTURE-ONE-ELEVEN (plywood) 5b/Do
TEXWEAVE (asphalt-asbestos floor tile) 13i/FL
TEXWOOD (asphalt-asbestos floor tile) 13i/FL
THEMETILE (decorative tiles) 13i/Ke
THERM-A-LITE (insulated plastic panels) 20a/Bo
THERM-ARTEX (panels) 17a/Art
THERM-L-BAR (skylight condensation deterrent) 20a/Wa
THERM-O-LUX (triple-wall shade fabric) 19c/He
THERMACOUSTIC (sprayed-on mineral wool) 11a/Na
THERMAL-ACOUSTI (curbs for ventilators) 20c/Va
THERMALITE (high temperature insulation) 10c/BaL
THERMASIL (high temperature insulation) 10c/BaL
THERMAVENT (roof ventilators) 20c/Bu
THERMIDAIRE (furnaces) 31b/Ca
TERMINIX (termite control) 13J/Bru
THERMO-BASE (baseboard cooling, heating) 31f/Ger
THERMO-BASE (warm air baseboards) 27a/Cr
THERMO-BLOC (perimeter insulation) 10a/Na
THERMO-BORD (insulating panels)...8b/Car
THERMO-BORD (structural insulating panels) 8a/Ca
THERMOGUARD (cooler controls) ..30d/We
THERMO-VECTOR (radiation) 31a/Dun
THERMO DOOR (insulated sliding) glass doors) 16d/Ado
THERMO-VUE (windows) 17a/Am
THERMOFLOW (roof ventilators) 20c/We
THERMOPANE (insulating glass) 7a/Li
THERMOTEX ("B" emulsion) 8a/Ca
THER-MO (built-up roofing) 8a/Th
THESSCO (wardrobes) 23d/Sc
THIN-CELL (louvers) 33a/Sin
THIN-SET (ceramic tile setting method) 13c/Mir
THINLINE (air conditioners) 25a/Gen
THINLITE (glass curtain wall panels).3e/Ow
THIOKOL (polysulfide-based sealents)..7c/Th
THIOSEAL (caulking compound) 13h/Pr
38 (wood primer, varnish) 15/Pr
THORITE (masonry treatments) 9/St

THOR LUND (dumbwaiters, sidewalk elevators) 24a/Lu
THORO (masonry treatments) 9/St
THOROBOND (bonding agent) 9/St
THOROCLEAR (masonry treatments) 9/St
THOROLITH (masonry treatments) 9/St
THOROLOK (masonry treatments) 9/St
THOROSEAL (masonry treatments) 9/St
THOROSET (masonry treatments) 9/St
THOROSHEEN (masonry paint) 9/St
THREDLOCK (reflectors) 33a/Mu
3M (adhesives, sealers) 13i/Mi
3M (compound mixers) 3f/Mi
THREE-TWENTY (adhesive) 13i/Co
THRIFTI-TOWER (cooling towers) ..31a/Mar
THRIFTPAK (caulking compounds) 9/Ho
THRIFTY (bathroom accessories).....27d/Mi
THROUGH-WALL (flashings) 8b/Am
THRU-THE-WALL (chute doors) 27f/Wi
THRU-VU (vertical blinds) 19d/Th
THRU-WALL (brick vents) 2i/Ho
THULMAN (chimneys, fireplaces) 31L/Ma
TI-CO (galvanized steel) 2b/In; 2c/InL; 12a/In
TICKAWAY (electic scoreboard clock).23k/Fa
TICOTHERM (steam generators) 31g/Ti
TIE-TO (contact ceiling inserts) 2a/Fa
TIGER BRAND (lime products) 11a/Tig
TILE-MATE (clay tile mortar, grout, sealer) 13c/Upc
TILE-SET (ceramic tile grout) 13c/Ka
TILE-STIK (cement base ceramic tile adhesives) 13c/Pe
TILE-TEX (floor tile) 13i/FL
TILE-WELD (bonding agent) ..4i/La; 12e/La
TILT-A-FRONT (store fronts) 16b/Ov
TILT-UP (slab braces) 2i/Su
TIM-BER-LOX (wood sealer, preservative) 15/Na
TIM-DECK (roof decking) 2e/Tim
TIM-FLAT (laminated arches, trusses)..2e/Tim
TIM-TRUSS (laminated arches, trusses) 2e/Tim
TIME SAVER (bathroom accesories)...27d/Mi
TIME-SAVER (stair tread anchors) ..13b/Wo
TIME-SAVER (valves) 27b/Sp
TITAN (boilers) 31g/Ti
TITAN (locksets) 18e/Co
TITANIC (paint) 15/Pi
TITE-CRETE (concrete grout additive)..15/Su
TITE-ONS (asphalt shingles) 8c/Ru
TITEWALL (joint sealers) 2i/Se
TITEWALL (rubber control joints) 4h/Aa
TNEMEC (rust-resistant primers) 15/Tn
TOASTMASTER (electric cooking equipment) 26c/To
TOBEX (pattern glass) 7a/Am
TOCKOLITH (metal paint) 9/To
TOGGLE-JACK (mounting device for lighting fixtures) 33a/Go
TOLEDO (food service equipment)....26b/To
TOM THUMB (curtain machinery) 23g/Au
TOM THUMB (motor drives for shutters) 16g/Cor
TONETEX (carpets) 13L/Le
TOPPER SWITCH (switches) 32b/Hu
TOPSEAL (fastening systems) 8b/Fa
TOROPLY (wood paneling for partitions) 22d/To
TORSIONTITE (lighting fasteners) ...33a/Lia
TOSCAN (sinks) 27a/Ri
TOWELINK (bathroom accessories) ..27d/Mi
TOW'LESCOPE (utility bars) 27d/Ha
TOWL-TOWER (paper towel holders)..27e/Cr
TOWNE (paint) 15/Nat

TOWNSEND (lockbolts, rivets, etc.)...8b/To
TOX-SHADE (sun control) 9/To
TOXEMENT (admixtures) 9/To
TOXGRIP (hardeners) 9/To
TOXIK (wood preservative) 13J/Bru
TOXKURE (curing compounds) 9/To
TOXLOXPORE (masonry treatments) 9/To
TOXMIX (admixtures) 9/To
TRADE-WIND (blowers) 31e/Tr
TRAFFIC SENTINEL (elevator operator) 24a/We
TRAK-EZE (drapery tracks) 23g/Au
TRANSAIRE (roof ventilators) 20c/We
TRANSITE (acoustic panels) 11a/Jo
TRANS-O-MATIC (ramp) 24a/GL
TRANSI-FOLD (folding tables, benches) 23i/Sc
TRANSITE (asbestos panels) 22a/Jo
TRANSITE (corrugated asbestos panels) 8b/Jo; 8b/Joh
TRANSITE (corrugated roofing) 8a/Jo
TRANSITONE (movable walls) 22a/Jo
TRANSWALL (folding doors, partitions) 16e/Tr
TRAVACOUSTIC (acoustical tile, mineral wool) 11a/Na
TRAVEL MUZAK (music for trains, planes, ships, etc.) 34a/Mu
TRAVERTONE (acoustical materials) ..11a/Ar
TRAYLIFT (food conveyors) 24d/St
TRAYLOR (sinks, laundry trays) 27a/Ri
TRAYVEYOR (food service conveyors).24a/La
TREAD-O-MAT (carpet moulding) 18e/Tr
TREAD-O-MATIC (automatic door and gate controls) 18e/Tr
TREADWAY (gratings) 13a/Pe
TREE LIFE (plywood) 2i/Sai
TREMCO (caulking, pointing compounds) 3f/Tr
TREMCO (floor hardeners, sealers, etc)..9/Tr
TREMCRETE (concrete floor curer, sealer) 9/Tr
TREMGLAZE (glazing compounds) 3f/Tr
TREMSEAL (wood floor hardener, sealer).9/Tr
TREMSEAL-20 (concrete floor hardener, sealer) 9/Tr
TREMTAPE (mastic sealers) 3f/Tr
TREMTHOL (mastic compound) 3f/Tr
TREMTOP (coating for asphalt) 9/Tr
TRENDWOOD (wood-grain finishes).14b/Ma
TRESSCO (wardrobes) 23d/Sc
TRETINT (colors) 9/Tre
TRETOCALK (caulking compound).......9/Tre
TRETOCLEVE (concrete bond breaker, membrane sealing compound) 9/Tre
TRETOCONE (water-repellents) 9/Tre
TRETOCONE DECRACOAT (latex silicone water repellent) 9/Tre
TRETOCURE (curing compounds) 9/Tre
TRETOFLEX (asphalt foundation coating) 9/Tre
TRETOMENT (plasticizing admixture)..9/Tre
TRETOP (metallic topping) 9/Tre
TRETOSCREED (resurfacer) 9/Tre
TRETOSHED (bituminous foundation coatings) 9/Tre
TRETOSKALE (surface retarder) 9/Tre
TRETOSURF (aggregate topping) 9/Tre
TRETOTRED (plastic anti-slip material).9/Tre
TRETSET (hydraulic cement) 9/Tre
TRI-CORE (electric panel heating systems) 31h/EL
TRI-FILTER (underdrains) 4f/Na
TRI-RIB (steel roof deck) 12a/Wh

A

trade names

TRI-SAVER (coffee system) 26d/BL
TRIBRIC (brick, tile) 4f/St
TRIM-LINE VIT CAP (ceramic trimmer).13c/Po
TRIMIX (anti-freeze admixture) 9/So
TRIMLESS (fire hose cabinets) 30f/St
TRIMLINE (aluminum curtain walls)...3a/Am
TRIMLINE (aluminum entrances) 16a/Am
TRIMLINE (convectors and covers)....31h/Vu
TRIMLINE (lavatories) 27a/Ri
TRIMLINE (surface mounted door closers) 18e/No
TRINITY WHITE (white portland cement) 4i/Ge
TRIO (windows, doors) 17a/Tr
TRIPL-AIRE (registers and grilles) 31f/Har
TRIPLE-COVER (house paint) 15/Dev
TRIPLE S (flush wood doors) 16c/Ge
TRIPLE-SEALED (roofing products)....10a/Ce
TRIPLE-TEMP (refrigerated display cases) 26a/Ty
TRIPLEX (door hardware) 18e/Chi
TRIPLEX (tub enclosures) 27c/Ef
TROFFERDUCT (lighting fixtures) 33a/Wh
TROFFERETTE (lighting fixtures) 33a/En
TROFFERVENT (lighting fixtures) 33a/Wh
TROJAN (boilers) 31g/Ti
TROJAN (clothes washers) 27g/Tr
TROJAN (water closets) 27a/Ca
TROPHY (gym floor finishes).........13m/Hi
TROPHY SEAL (gym floor sealers) 13m/Hi
TROPICRAFT (woven wood fabrics) ..19d/Tro
TROUBADOOR (door chimes) 27d/Mi
TROY (laundry machinery) 27g/Tr
TRU-BOW (wood bow windows) 17c/Re
TRU-CURE (cement curing) 9/Tru
TRU-LUX (chalkboard panels) 23e/Lo
TRU-ROLL (stage track and equipment) 19d/Ma
TRU SCREED (screeds) 2i/Su
TRU-SEAL (aluminum windows, curtain walls) 17a/Va
TRU-SEAL (concrete curings, hardeners, sealers) 9/Tru
TRU-SEAL (waterproofing sheet) 8g/Ru
TRU-SITE (glass treatment) 7a/De
TRU-SNAP (chalkboard trim) 23e/Lo
TRU-VY-KOTE (coatings) 9/Tru
TRU-WALL (wood windows) 17c/Re
TRUAIRE (ventilating windows) 17b/Tr
TRUBRAE (floor plates, treads) 13b/Wh
TRUBRON (floor plates, treads) 13b/Wh
TRUCK LEVELER (truck lift) 24a/GL
TRULOCK (aluminum detention screens) 19a/Ba
TRULUM (floor plates, treads) 13b/Wh
TRUNIC (floor plates, treads) 13b/Wh
TRUS-LOK (lath clips) 12a/Un
TRUSS-LOOP (metal lath) 12a/Bo
TRUSS-SKIN (trussless roof construction) 2e/Wo
TRUSS-WING (corner beads) 12a/Bo
TRUSSBILT (metal doors) 16b/Tru
TRUSSCORE (metal doors) 16b/Tru
TRUSSTEEL (studs) 12a/Un; 12c/Uni
TRUTRED (floor plates, treads) 13b/Wh
TRUVISION (illuminator) 23L/Ge
TUB-CAULK (caulking compounds)...13c/Mir
TUBE-LINE (railings) 6e/BLu
TUBELITE (doors, door frames) 7a/Pi
TUBELITE (tubular aluminum doors) ...16a/Pi
TUBE SET (store fronts) 16a/Br
TUBULAR (concrete filled columns)....2g/Tu
TUF-FLEX (glass doors) 16d/Lib
TUF-FLEX (plate glass, doors) 7a/Li
TUFCOR (steel forms) 2c/Grn; 2a/Gr

TUFF-BOND (adhesives and sealers).10a/Mo
TUFF-DRY (floor finish) 13m/Mu
TUFF-TEX (greaseproof floor tile)......13i/FL
TUFF-TITE (fasteners) 8b/To
TUFF-WELD (nylon hanger system)...10a/Mo
TUFFGARD (house paint) 15/Moo
TUFFLEX (point sealers) 2i/Se
TUFLEX (rubber tile) 13i/Ge
TULIP (locks, lock escutcheons) 18e/Sc
TURBOVANE (fans) 31a/We
TURBULATOR (air diffusers) 31f/An
TURNETTE (bathroom accessories)....27d/Mi
12-VENEER (ceramic tile) 13c/Sum
TWIN (range, oven, sink units)......25b/Ge
TWIN-AIR-MIX (incinerator burners).28a/Oh
TWIN ANCHOR (terrazzo dividers).13g/Ma
TWIN-BEAM (church windows) 17a/In
TWIN-CAVITY-MESH-LOCK (reinforcing) 4h/Ho
TWIN-L (balancing valves) 31i/Th
TWIN-LITE (lighting glass)..........33b/Co
TWIN-MESH-LOCK (reinforcing) 4h/Ho
TWI-NIGHTER (venetian blinds) 19d/Br
TWIN-ROLLORS (door guides).......16i/Mc
TWIN-SERV (soda fountains) 26b/Ba
TWIN-TILE (insulating panel tiles)..10a/Uni
TWIN-T-MASTIC (insulating tape) 7c/Di
TWIN-TRIM (plastic mouldings) 14a/Co
TWINDOW (insulating glass) ...7a/Pi; 21/Pi
TWINDOW (window panes) 3e/Pit
TWINDUCT (raceway systems) 32b/Na
TWINLINE (air conditioners) 31a/Yk
TWINLITE (awning windows) 17c/RoL
TWINSTILE (glass doors and frames)..16d/Sc
TWINSUL (double-glazed windows).17a/Sou
TWINSULATION (blanket insulation) .10a/Na
TWIST-LOCK (wiring devices) 32b/Hu
TWO FOL (folding benches, tables) ...23i/Ro
TWO-TEMP (water heater valves) 30c/Ru
TY-CHAIR (concrete reinforcing) 2i/Ri
TY-FRAME (anchors) 2i/Ri
TY-SCRU (inserts) 2i/Ri
TY-TITE (bar ties) 2i/Ho
TYE-BLOC (wall reinforcing) 2i/Gat
TYCONE (anchors) 2i/Ri
TYLAC (anchors) 2i/Ri
TYLER (refrigerators, storage freezers) 26a/Ty
TYLER-KETCHAM (color compatibility systems) 26a/Ty
TYLOOP (form hangers) 2i/Ri
TYTE-SEAL (masonry treatments) 9/We
TYTESET (bathroom accessories)......27d/Ke

U

U.S. AIRMASTER (carpet cushions)....13L/Un
U.S. AIRWAVE (carpet cushions) 13L/Un
U.S. JUNIOR (carpet cushions—non-skid) 13L/Un
U.S. LUXURYLINER (carpet cushions)..13L/Un
U.S. MAINLINER (carpet cushions) ...13L/Un
U.S. MARVELAIRE (carpet cushions)...13L/Un
U.S. ROYAL (carpet cushions) 13L/Un
U.S. WAFFLE (carpet cushions) 13L/Un
USF (metal doors and frames).......16b/Un
USF (vibration absorbers) 29a/Ke
USG (acoustical materials).11a/Un; 11a/Uni
USG (expanded metal) 6e/Un
USG (gypsum, metal lath) 12a/Un
USG (gypsum roof decks) 2d/Un
USG (gypsum sheathing, wall-board).12c/Uni
USG (insulation) 10a/Uni
USG (gypsum tile) 12c/Un
USG (lime, gypsum plaster) 12e/Un
USG (metal edge gypsum roof plank).2d/Uni

USG (metal grating) 13a/Un
USG (movable partitions) 22a/Un
USG (paint products) 15/Un
USG (steel roof decks) 2c/Uni
USL (extruded aluminum louvers) 20d/Un
USS (fencing) 22g/Cy
USS (steel joists).....................2f/Am
UALCO (aluminum windows, curtain walls) 3a/Sou; 17d/Sou
ULTIMA (linoleum) 13i/Co
ULTRACOUSTIC (acoustical ceiling board) 11a/Gu
ULTRALAST (plastic tile) 13i/Vi
ULTRALITE (duct insulation) 10a/Gu
ULTRONIC (door operators) 16i/Ove
UNDERCHORD (bridging) 2f/Tr
UNDERFLOW (cooling towers) 30b/Ma
UNDERHILL (lighting fixtures) 33a/Wh
UNI-BILT (dumbwaiter doors) 24c/Se
UNI-BILT (dumbwaiter doors, frame units) 16h/Se
UNI-CHECK (door checks) 18e/Ri
UNI-CREST (insulation) 10a/Un
UNI-FLO (grilles) 31f/Ba
UNI-FRAME (lighting fixtures) 33a/Da
UNI-MOTOR (elevator doors)........24c/Se
UNI-RESONATOR (silencers) 11a/Ha
UNI-SILENCER (silencers) 11a/Ha
UNI-TRIM (exit device trim) 18f/Sa
UNI-VERSEN (lighting fixtures) 33a/Ve
UNI-WAITER (dumbwaiters) 27f/Wi
UNICOIL (heat transfer coils) 31a/CL
UNIFLEX (sash balance weatherstrip) 18a/Un
UNIQUE (sash balances) 18a/Un
UNIQUE (unique balanced vertical sliding chalkboards) 23e/Un
UNISTAK (prefabricated flues) 28a/Un
UNISTRUT (partitions) 22a/Ui
UNITROL (control centers) 32a/Cut
UNIT DECK (floor and roof deck)....2e/Un
UNIT DRIVE (industrial door operators) 16h/FL
UNIT-PANEL (partitions) 22a/Wh
UNIT-ROW (telephone booths) 34a/Su
UNITFOLD (folding partitions) 22d/Fa
UNITIZED (laboratory furniture) 23L/Fi
UNITIZED-FLEXI (steel shelving) 23f/Bo
UNITSLIDE (sliding partitions) 22d/Fa
UNITHERM (unit heaters) 31a/CL
UNITRON (carriers, closet fittings) ...30g/Jo
UNIVERSAL (bleachers and grandstands) 23J/Un
UNIVERSAL (concrete inserts) 2i/Ho
UNIVERSAL (partitions, walls) 22a/Jo
UNIVERSAL (steel casement windows) 17b/Wi
UNIVERSITY (loudspeakers) 34a/Un
UNIWALL (tile) 4f/Na
UPBLAST (power roof ventilators).....20c/Va
UPLIGHT URN (lighting fixtures) 33a/Ce
UPTON (water closets) 27a/Ri
URITO (urinals) ....27a/ Ri
USIC (destructors, incinerators) 28a/Un
UTIL-I-DUCT (duct-shelving sections).31h/No

V

V-BAK (tile) 13c/Mur
V-BEAM (steel beams).................2f/Ma
V-CORR (corrugated steel roofing and siding) 8b/Be
V-CORR (roofing, siding) 3c/Be
V-FORM (steel forms for concrete)..2a/Sm
V-GIRDER (steel girders) 2f/Ma
V-LINE (refrigerators) 26a/Vi
V-LOK (steel framing) 2f/Ma
V-PLANK (plywood panels) 5b/Un

V-RIB (corrugated sheets) 8b/Sm
V-T (soap dispensers, soap) 27e/Vo
V-WINDOWS (inswinging windows) ..3c/Ro
"VF" (window walls) 17a/ALw
VL (vinyl wall covering) 13c/Mu
VMP (partitions) 22a/Vi
VPI (plastic tile) 13i/Vi
VABAR (masonry treatments) 9/St
VACU-MASTER (vacuum cleaning systems) 28b/Va
VACU-MATIC (vacuum cleaning systems) 28b/Va
VACUMITE (swimming pool filters)..23k/Va
VALAY (toilet tissue, dispensers) 27e/Ste
VALCALOX (damper regulator) 31f/Yo
VALENCIA (floor tile) 13c/Lu
VAMPCO (aluminum entrances) 16a/Va
VAMPCO (aluminum windows, curtain walls) 3a/Va; 17a/Va
VAN (food service equipment) 26d/Va
VAN GUARD (garage doors) 16i/Cra
VANCO (aluminum and steel skylights) 20b/Va
VANCO (plastic dome skylights) ..20a/Van
VANCO (plastic skylights) 20a/Va
VANCO (roof ventilators) 20c/Va
VANCO (wall louvers, louver penthouses) 20d/Va
VANCOLUX (plastic skylights) 20a/Va
VANDL-RATOR (metered valves) 27b/Sp
VANGUARD (garage doors) 16i/Cra
VANGUARD (toilet compartments) ...22b/Sa
VANINET (bathroom cabinets) 27d/Mi
VAP-O-MATIC (refrigerator drain)....26a/Pu
VAPEX (flat wall finish) 15/Pr
VAPOLUX (lighting fixtures) 33a/Wh
VAPOR-CHAMP (vapor seals) 8h/Lu
VAPOR-TIGHT (lighting fixtures) 33a/Wh
VAPORLETS (vapor-proof lights) 33a/Sim
VAPORMATIC (food warmers) 26d/Ba
VARAVENT (reversible windows) 17a/Po
VARI-FLOW (heating controls) 31a/Dun
VARI-SPOT (lighting fixtures) 33a/Cu
VARI-TILE (ceramic tile) 13c/Un
VARI-VAC (differential heating) 31a/Dun
VARI-VENT (window operators) 18b/De
VARIETY (doors, frames, partitions, etc.) 16b/Va
VARITONE (unglazed tile) 13c/Am
VEEP (folding portable coat and hat racks) 23d/Vo
VELTONE (floor, wall coverings).....13i/Co
VELVATEX (structural tile) 4f/EL
VELVET (enamel, paint) 8c/Na; 15/Nat
VELVETEX (tile) 13c/Mos
VELVETONE (chalkboards) 23e/Ro
VELVETONE (tile) 13c/Mo
VELVEX (pattern glass) 7a/Am
VEN-TROL-GEAR (vent panel actuators) 18a/Gr
VENETIAN (bathroom cabinets) 27d/Co
VENETIAN (floor covering) 13i/Co
VENI-FLEX (folding doors, room dividers) 16e/Co
VENT-A-BATH (blowers) 25a/Em
VENT-A-LITE (fan and light) 25a/Nu
VENT BRICK (vent bricks) 20d/Ri
VENT-X-IT (roof ventilators) 20c/Oc
VENTAIR (ventilation windows) 17c/Wo
VENTDOME (skylights) 20a/Wa
VENTILATTIC (fans) 31e/Pe
VENTILOUVRE (ventilating louvers) ...20d/Ve
VENTROLITE (aluminum and steel windows) 17a/Se
VENTURA (fans) 31a/Am; 31a/Ame
VENTURAFIN (unit heaters) 31a/Am; 31a/Ame
VENTURI-FLO (diffusers) 31f/Ba
VENUS (locks) 18e/Sc
VER-TEL (telescoping doors) 16h/Se
VERDURA (paint) 15/Pr
VERI-THIN (stainless steel sheet) 6c/Wa
VERILUX (lighting fixtures) 33a/Wh
VERMARCO (marble) 4b/Ve; 13f/Ver
VERMARCO (marble tile) 13f/Ve
VERMARCO PANEL-WALL (marble curtain walls) 3e/Ve
VERMONT (colored slate) 8e/Ri
VERSAILLES (plastic floor tile) 13i/Bo
VERSALINE (lighting fixtures) 33a/MiL
VERSATILE WALL (curtain walls) 3c/Ro
VERSATOWL (towel dispensing device) 27e/Cr
VERSITILE (aluminum windows) 17a/Va
VERTI-COL (screw lift elevators) 24a/Ha
VERTI-GROOVE (hardboard siding panels) 10a/Ce
VERTI-SLIDE (aluminum windows) ...17a/Sou
VERTIFLOW (unit heaters) 31a/Yo
VERTISEAL (joint sealers) 2i/Se
VI NALL (exterior paint) 15/So
VI-PAK (plastic packaging solutions)...15/Su
VIBACALL (intercommunicating systems) 34a/Du
VIBRO-PRUF (anti-vibration grouting) ...9/La
VICTOR (shade cloth) 19c/Jo
VICTORIA (lavatories) 27a/Ri
VICTORY (fencing) 22g/Cy
VIDEOPLATE (chalkboards) 23e/Be
VIEW ALL (tie racks) 18g/Kn
VIEWALL (window walls) 17a/ALw
VIKING (shade cloth) 19c/Jo
VILLA (overhead type doors) 16i/At
VIMCO (refrigerators) 26a/Vi
VINA-FLO (interior paint) 15/So
VINA-LUX (plastic tile) 13i/Az
VINL-STOP (weatherstripping) 19d/Dur
VINYL-COTE (mastic) 15/GLi
VINYLAST (plastic tile) 13i/Vi
VINYLAY (elastic coating) 13h/Ce
VINYLBEST (floor coverings) 13i/Co
VINYLFLEX (plastic floor tile) 13i/Hak
VINYLUX (lighted ceilings) 33a/Di
VISCOUNT (toilet bowls) 27a/Bri
VISION-VENT (window walls) 3d/Tr
VISIONAIRE (lighting fixtures) 33a/Sun
VISITRON (lighting fixtures) 33a/Cu
VISKALT (roofing felts) 8a/FL
VISQUEEN (vapor barriers) 9/Vi
VISTA (glass curtain wall panels)....3e/Ow
VISTA-LITE (aluminum windows) 17a/Am
VISTA-LINER (lighting fixtures) 33a/We
VISTA-LUX (translucent plastic panels).8d/No
VISTA-WALLS (aluminum windows) ..17a/Am
VISTALUME (lighting fixtures) 33a/Lie
VISTARAMA (venetian blind operators) 19d/Ku
VISUALITE (plastic skylights) 20a/Na
VISUALOCKER (steel lockers) 23d/Re
VISUMATIC (door controls) 18e/Vi
VITOBEST (chalkboards) 23e/We
VITOPREST (chalkboards, chalkboard cement) 23e/We
VITRACITE (chalkboards) 23e/CL
VITRALITE (enamel) 15/Pr
VITRAMIC (siding) 8c/Ru
VITRE-STEEL (toilet compartment finish) 22b/We
VITRIBRIK (ceramic glazed tile) 4f/Na
VIRTIFLEX (joint sealers) 2i/Se
VITRITILE (ceramic glazed tile) 4f/Na
VITRO-BOARD (chalkboards) 23e/Ed
VITRO GLAZE (spray-on cement) 13h/De
VITRO-MATIC (chalkboards) 23e/Go
VITROCK (porcelain enamel panel backing) 3c/Da
VITROLUX (glass curtain wall material).3e/Li
VITROLUX (plate glass) 7a/Li
VITRON (curtain wall spandrel material) 17a/Fen
VIZABLEDG (safety treads) 13a/Ir
VOLITE (enamel) 15/Dev
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Nova Sales Co., Sub Homasote Co. ..8d/No
Panel Structures, Inc. 3e/Pa
Panelfold Doors, Inc. 16e/Pa
Richards-Wilcox Mfg. Co. 22d/Ri
Rolscreen Co. 16e/Ro
Splendor Corp. 16e/Sp
Straits Products, Inc. 16e/St
Torjesen, Inc. 22d/To

partitions *cont.*

folding, sliding or side rolling *cont.*

TransWall Coated Products, Div. Waco Mfg. Co. 16e/Tr
Tropicraft of San Francisco 19d/Tro
Wayne Iron Works 22d/Wa
Wilson, J. G., Corp. 16g/WiL
Wood Specialty Products, Inc. 16e/Wo

framing for

Aetna Steel Products Corp. 22a/Ae
Architectural Systems, Inc. 22a/Ar
Capitol Battens, Div. Hausman Steel Co. 22a/Ca
Darling, L. A., Co., Workwall Div. ...22a/Da
Donn Products Inc. 12a/Do
Flush-Metal Partition Corp. 22b/FL
H & B Enterprise Corp. 22a/Ha
Henges Co., Inc. 22a/He
Lawrence Metal Products, Inc. 6e/La
Penn Metal Co., Inc. 22a/Pe
Stran-Steel Corp., Div. National Steel Corp. 2f/Str
Truscon Steel Div., Republic Steel Corp. 12a/Tr
Unistrut Products Co. 22a/Ui
Virginia Metal Products, Inc. 22a/Vi
White Partitions Inc. 22a/Wh
Williamsburg Steel Products Co. 16b/Wi

free-standing

Art Metal Construction Co. 23o/Ar
Corry Jamestown Corp. 22a/Co
Darling, L. A., Co., Workwall Div. ..22a/Da
H & B Enterprise Corp. 22a/Ha
Hauserman, E. F., Co. 22a/Hau
Metpar Steel Products Corp. 22b/Me
Mills Co. 22a/Mi
Virginia Metal Products, Inc. 22a/Vi
White Partitions Inc. 22a/Wh

glass, plastic or plastic fabric

Architectural Systems, Inc. 22a/Ar
Consoweld Corp. 14a/Co
Corry Jamestown Corp. 22a/Co
Curtition Corp. 16e/Cu
Darling, L. A., Co., Workwall Div. ...22a/Da
Filon Plastics Corp. 7d/Fi
Formica Corp., Sub. Cyanamid 14a/Fo
G R Products Inc., Steel Div. 22a/Ga
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Holcomb & Hoke Mfg. Co., Inc. 16e/Ho; 22d/Ho
International Molded Plastics, Inc., Structoglas Div. 7d/In
Johns-Manville 7d/Jo
Ketcham, G. M. Mfg. Corp. 16d/Ke
Libbey-Owens-Ford Glass Co. 7a/Li
Lynch Asbestos Co. 7d/Ly
Mills Co. 22a/Mi
Mississippi Glass Co. 7a/Mi
National Plastic Products Co. 14a/Na
National Steel Partition Co., Inc. ...22a/Na
New Castle Products, Inc. 22d/Ne
Panel-Matic Inc. 22a/Pan
Pennsylvania Wire Glass Co. 7a/Pe
Pinecrest, Inc. 19d/Pi
Pittsburgh Plate Glass Co. 7a/Pi; 13e/Pi
Pricemetal Corp. 22b/Pri
Resolite Corp. 7d/Re
Richards, J. Merrill 7a/Ri
Rohm & Haas Co. 7d/Ro
Steel Partitions Inc. 22a/St

partitions *cont.*

glass, plastic or plastic fabric *cont.*

Straits Products, Inc. 16e/St
Sun Vertikal Blind Co. 19d/Su
Torjesen, Inc. 22d/To
TransWall Coated Products Div. Waco Mfg. Co. 16e/Tr
Unistrut Products Co. 22a/Ui
Virginia Metal Products, Inc. 22a/Vi

grillework—plastic

Holcomb & Hoke Mfg. Co., Inc......22h/Ho

gypsum board—plastc or paper covered

National Gypsum Co. 12c/Nat
United States Gypsum 22a/Un

hardboard

Architectural Systems, Inc. 22a/Ar
Darling, L. A., Co., Workwall Div...22a/Da

honeycomb core

Architectural Systems, Inc. 22a/Ar
Corry Jamestown Corp. 22a/Co
General Welding & Fabricating Co..22b/Ge
Henges Co., Inc. 22a/He
Horn Div., Brunswick-Balke-Collender Co. 22d/Hor
Hauserman, E. F., Co. 22a/Hau
Mills Co. 22a/Mi; 22b/Mi
National Steel Partition Co., Inc.....22a/Na
Richards-Wilcox Mfg. Co. 22d/Ri
Robart Partitions, Inc. 22b/Ro
Torjesen, Inc. 22d/To
Virginia Metal Products, Inc. 22a/Vi

hospital cubicle

ADC Drapery Track Corp. 22c/Ad
All Metal Partition Co., Inc. 22b/AL
American Sanitary Partition Corp. 22a/Am; 22b/Am
Cutler Metal Products Co., Building Products Div. 22b/Cu
Ferrometal Div., Milwaukee Stamping Co. 22b/Fe
Fiat Metal Mfg. Co. 22b/Fi
Flush-Metal Partition Corp. 22b/FL
Johns-Manville 22a/Jo
Knickerbocker Steel Partition Co., Inc. 22b/Kn
Metpar Steel Products Corp. 22b/Me
Mills Co. 22a/Mi; 22b/Mi
National Steel Partition Co., Inc. ...22a/Na
Pricemetal Corp. 22b/Pri
Sanymetal Products Co., Inc. 22b/Sa
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Unistrut Products Co. 22a/Ui
Variety Fire Door Co., Inc. 16b/Va

hospital cubicle—curtain type and accessories

American Sanitary Partition Corp. ..22b/Am
Beltor Mfg. Co. 22c/Be
Capital Cubicle Co., Inc. 22c/Ca
Cutler Metal Products Co., Building Products Div. 22b/Cu
Fiat Metal Mfg. Co. 22b/Fi
Flush-Metal Partition Corp. 22b/FL
Grant Pulley & Hardware Corp. 18d/Gr
Jiffy Join, Inc. 22c/Ji

hospital cubicle—curtain type and accessories *cont.*

Knickerbocker Steel Partition Co., Inc. 22b/Kn
Mills Co. 22b/Mi
Nelson, A. R., Co., Inc., Hospital Div. 22c/Ne
Sanymetal Products Co., Inc. 22b/Sa

interchangeable

Aetna Steel Products Corp. 22a/Ae
American Sanitary Partition Corp. 22a/Am; 22b/Am
Architectural Systems, Inc. 22a/Ar
Consoweld Corp. 14a/Co
Corry Jamestown Corp. 22a/Co
Darling, L. A., Co., Workwall Div. ...22a/Da
Dubuque Products, Inc. 22d/Du
Flush-Metal Partition Corp. 22b/FL
G R Products Inc., Steel Div. 22a/Ga
H & B Enterprise Corp. 22a/Ha
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Johns-Manville 22a/Jo
Lawrence Metal Products, Inc. 6e/La
Mills Co. 22a/Mi
Munchhausen Soundproofing Co., Inc. 16m/Mu
National Steel Partition Co., Inc. ...22a/Na
Owens-Illinois Plywood Co. 22a/Ow
Panel-Matic Inc. 22a/Pan
Partitions, Inc. 22a/Par
Penn Metal Co., Inc. 22a/Pe
Pinecrest, Inc. 19d/Pi
Pricemetal Corp. 22b/Pri
Steel Partitions Inc. 22a/St
Triangle Millwork & Supply Corp. 22a/Tr
Unistrut Products Co. 22a/Ui
United States Gypsum 22a/Un
United States Plywood Corp. 22a/Uni
Virginia Metal Products Co..........22a/Vi
Vogel-Peterson Co. 23d/Vo
White Partitions Inc. 22a/Wh

marble

Carthage Marble Corp. 22b/Ca
Marble Institute of America, Inc. 13f/Ma
Vermont Marble Co. 13f/Ver

office

Aetna Steel Products Corp. 22a/Ae
All Metal Partition Co., Inc. 22b/AL
American Sanitary Partition Corp. 22a/Am; 22b/Am
Architectural Systems, Inc. 22a/Ar
Art Metal Construction Co. 23a/Ar
Consoweld Corp. 14a/Co
Corry Jamestown Corp. 22a/Co
Darling, L. A., Co., Workwall Div. ...22a/Da
Fairhurst John T., Co., Inc. 22d/Fa
Fireproof Products, Inc. 2d/Fi
G R Products Inc., Steel Div. 22a/Ga
H & B Enterprise Corp. 22a/Ha
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Holcomb & Hoke Mfg. Co., Inc. 16e/Ho
Horn Div., Brunswick-Balke-Collender Co. 22d/Hor
Johns-Manville 22a/Jo
Kentucky Metal Products Co. 22f/Ke

office *cont.*

Lynch Asbestos Co. 7d/Ly
McKinley Designs 6e/Mc
Mills Co. 22a/Mi
National Steel Partition Co., Inc. ...22a/Na
Owens-Illinois Plywood Co. 22a/Ow
Panel-Matic Inc. 22a/Pan
Panelfold Doors, Inc. 16e/Pa
Partitions, Inc. 22a/Par
Penn Metal Co., Inc. 22a/Pe
Resolite Corp. 7d/Re
Rohm & Haas Co. 7d/Roh
Steel Partitions Inc. 22a/St
Straits Products, Inc. 16e/St
Torjesen, Inc. 22d/To
Triangle Millwork & Supply Corp.....22a/Tr
Unistrut Products Co. 22a/Ui
United States Gypsum 22a/Un
United States Plywood Corp. 22a/Uni
Variety Fire Door Co., Inc. 16b/Va
Virginia Metal Products, Inc. 22a/Vi
White Partitions Inc. 22a/Wh

planning service

American Sanitary Partition Corp. ..22b/Am
Corry Jamestown Corp. 22a/Co
Cutler Metal Products Co., Building Products Div. 22b/Cu
G R Products Inc., Steel Div. 22a/Ga
H & B Enterprise Corp. 22a/Ha
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Mills Co. 22a/Mi; 22b/Mi
National Steel Partition Co., Inc. ...22a/Na
Penn Metal Co., Inc. 22a/Pe
Sanymetal Products Co., Inc. 22b/Sa
Steel Partitions Inc. 22a/St
Unistrut Products Co. 22a/Ui
United States Gypsum 22a/Un
United States Plywood Corp. 22a/Uni
Virginia Metal Products, Inc. 22a/Vi
White Partitions Inc. 22a/Wh

sound-insulating or retarding

Advanced Equipment Corp. 22d/Ad
American Accordion-Fold Doors, Inc..16e/Am
American Sanitary Partition Corp. 22a/Am
Architectural Systems, Inc. 22a/Ar
Celotex Corp. 10a/Ce
Corry Jamestown Corp. 22a/Co
Cutler Metal Products Co., Building Products Div. 22b/Cu
Darling, L. A., Co., Workwall Div. ...22a/Da
Dubuque Products, Inc. 22d/Du
Fairhurst, John T., Co., Inc. 22d/Fa
Firebar Door Div., Rysdon Products Co. 16m/Fi
Fireproof Products, Inc. 2d/Fi
G R Products Inc., Steel Div. 22a/Ga
General Welding & Fabricating Co..22b/Ge
H & B Enterprise Corp. 22a/Ha
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Holcomb & Hoke Mfg. Co., Inc. 16e/Ho; 22d/Ho
Industrial Acoustics Co., Inc. 11c/In
Inland Steel Products Co. 12a/In
Metal Lath Mfrs. Assn. 12a/Me
Mills Co. 22a/Mi

products

partitions *cont.*

sound-insulating or retarding *cont.*

Munchhausen Soundproofing Co., Inc. 16m/Mu
National Folding Wall Corp. 22d/Na
National Gypsum Co. 12a/Na; 12c/Nat
National Steel Partition Co., Inc. ... 22a/Na
New Castle Products, Inc. .. 16e/Ne; 22d/Ne
Owens-Illinois Plywood Co. 22a/Ow
Panel-Matic Inc. 22a/Pan
Panelfold Doors, Inc. 16e/Pa
Penn Metal Co., Inc. 22a/Pe
Richards-Wilcox Mfg. Co. 22d/Ri
Robart Partitions, Inc. 22b/Ro
Sanymetal Products Co., Inc. 22b/Sa
Smith, Elwin G., & Co., Inc. 3a/Sm
Splendor Corp. 16e/Sp
Straits Products, Inc. 16e/St
Torjesen, Inc. 22d/To
TransWall Coated Products, Div. Waco Mfg. Co. 16e/Tr
Unistrut Products Co. 22a/Ui
United States Gypsum 12a/Un; 22a/Un
United States Plywood Corp. 22a/Uni
Virginia Metal Products, Inc. 22a/Vi
Wayne Iron Works 22d/Wa
White Partitions Inc. 22a/Wh

steel or stainless steel

Aetna Steel Products Corp. 22a/Ae
All Metal Partition Co., Inc. 22b/AL
American Sanitary Partition Corp. 22a/Am; 22b/Am
Architectural Systems, Inc. 22a/Ar
Armento Metal Arts Co. 6f/Ar
Art Metal Construction Co. 23a/Ar
Bellis Wire Works, Inc. 22f/Be
Cutler Metal Products, Building Products Div. 22b/Cu
Cornell Iron Works, Inc. 16g/Cor
Darling, L. A., Co., Workwall Div... 22a/Da
Eastern Products Corp. 19d/Ea
Fenestra, Inc. 3b/Fe
Ferrometal Div., Milwaukee Stamping Co. 22b/Fe
Fiat Metal Mfg. Co. 22b/Fi
Firebar Door Div., Rysdon Products Co. 16m/Fi
Flush-Metal Partition Corp. 22b/FL
G R Products Inc., Steel Div. 22a/Ga
General Welding & Fabricating Co.. 22b/Ge
Hauserman, E. F., Co. 22a/Hau
Henges Co., Inc. 22a/He
Kentucky Metal Products Co. 22f/Ke
Knickerbocker Steel Partition Co., Inc. 22b/Kn
Mahon, R. C., Co. 3a/Ma
Mills Co. 22a/Mi; 22b/Mi
National Steel Partition Co., Inc. ... 22a/Na
Panel-Matic Inc. 22a/Pan
Penn Metal Co., Inc. 22a/Pe
Pricemetal Corp. 22b/Pri
Robart Partitions, Inc. 22b/Ro
Sanymetal Products Co., Inc. 22b/Sa
Smith, Elwin G., & Co., Inc. 3a/Sm
Steel Partitions Inc. 22a/St
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Unistrut Products Co. 22a/Ui
Variety Fire Door Co., Inc. 16b/Va
Virginia Metal Products, Inc. 22a/Vi

partitions *cont.*

terrazzo

National Terrazzo & Mosaic Assn. Inc. 13g/Na

toilet, shower, etc.

Accurate Partitions, Inc. 22b/Ac
All Metal Partition Co., Inc. 22b/AL
American Sanitary Partition Corp. 22a/Am; 22b/Am
Carthage Marble Corp. 22b/Ca
Cutler Metal Products Co., Building Products Div. 22b/Cu
Ferrometal Div., Milwaukee Stamping Co. 22b/Fe
Fiat Metal Mfg. Co. 22b/Fi
Filon Plastics Corp. 7d/Fi
Flush-Metal Partition Corp. 22b/FL
Formica Corp., Sub. Cyanamid 14a/Fo
General Welding & Fabricating Co.. 22b/Ge
Johns-Manville 22a/Jo
Ketcham, G. M. Mfg. Corp. 16d/Ke
Knickerbocker Steel Partition Co., Inc. 22b/Kn
Marble Institute of America, Inc. ... 13f/Ma
Metpar Steel Products Corp. 22b/Me
Mills Co. 22b/Mi
Pittsburgh Plate Glass Co. 7a/Pi; 13e/Pi
Pricemetal Corp. 22b/Pri
Republic Steel Corp. 6c/Re
Resolite Corp. 7d/Re
Robart Partitions, Inc. 22b/Ro
Sanymetal Products Co., Inc. 22b/Sa
Structural Slate Co. 4c/St
Unistrut Products Co. 22a/Ui
Variety Fire Door Co., Inc. 16b/Va
Vermont Marble Co. 13f/Ver
Weis, Henry, Mfg. Co., Inc. 22b/We

wire

Acorn Wire & Iron Works, Inc. 22f/Aco
Bellis Wire Works 22f/Be
Cyclone Fence Dept., American Steel & Wire Div., United States Steel....... 22g/Cy
Kentucky Metal Products Co. 22f/Ke
Mills Co. 22a/Mi
Page Fence Assn. 22g/Pa
Superior Wire & Iron Products, Inc... 22f/Su
Unistrut Products Co. 22a/Ui
Western Wire & Iron Works, Inc. .. 22f/We
Woven Wire Products Assn. 22f/Wo

wire—accessories for

Acorn Wire & Iron Works, Inc. 22f/Aco
Bellis Wire Works 22f/Be
Cyclone Fence Dept., American Steel & Wire Div., United States Steel....... 22g/Cy
Kentucky Metal Products Co. 22f/Ke
Mills Co. 22a/Mi
Western Wire & Iron Works, Inc. ... 22f/We
Woven Wire Products Assn. 22f/Wo

wood or wood slat

Acme Central Metal Products, Inc.... 16g/Ac
Advanced Equipment Corp. 22d/Ad
Architectural Systems, Inc. 22a/Ar
Consolidated General Products, Inc.. 16e/Co
Cookson Co. 16g/Co; 22d/Co
Dubuque Products, Inc. 22d/Du
Fairhurst, John T., Co., Inc. 22d/Fa
Horn Div., Brunswick-Balke-Collender Co. 22d/Hor

partitions *cont.*

wood or wood slat *cont.*

National Folding Wall Corp. 22d/Na
Owens-Illinois Plywood Co. 22a/Ow
Panel-Matic Inc. 22a/Pan
Penn Metal Co., Inc. 22a/Pe
Pinecrest, Inc. 19d/Pi
Richards-Wilcox Mfg. Co. 22d/Ri
Rolscreen Co. 16e/Ro
Torjesen, Inc. 22d/To
Triangle Millwork & Supply Corp. 22a/Tr
Tropicraft of San Francisco 19d/Tro
Wayne Iron Works 22d/Wa
White Partitions Inc. 22a/Wh
Wilson, J. G., Corp. 16g/WiL
Wood Specialty Products, Inc. 16e/Wo

wood shutter

Pinecrest, Inc. 19d/Pi

x-ray-protective

Ameray Corp. 22e/Am
Bar-Ray Products, Inc. 22e/Ba
General Lead Construction Corp. 22e/Ge
New England Lead Burning Co., Inc. .. 22e/Ne
Ray Proof Corp. 22e/Ra

radiation-protective equipment

see specific type x-ray-protective product as:
concrete block:—x-ray-protective 4
glass:—x-ray-protective 7
lath:—x-ray-protective; plaster:—x-ray-protective 12
panels and boards—prefinished:—x-ray-protective 14
doors:—x-ray-protective 16
windows:—special types—x-ray-protective 17
nails, screws, etc.:—x-ray-protective... 18
ceilings:—x-ray-protective; partitions:—x-ray-protective 22

railings

office

see partitions:—office 22

skylights

guards for

see wirework:—door, skylight or window guards 22

smoke screens

Friedrich, E. H., Co. 16b/Fr
Philipp Mfg. Co. 16b/Ph
Steel Partitions Inc. 22a/St
Wilson, J. G., Corp. 16g/WiL

wall facings or linings —interchangeable

Hauserman, E. F., Co. 22a/Hau
Johns-Manville 22a/Jo
Mills Co. 22a/Mi
Steel Partitions Inc. 22a/St

windows—special types

guards for

see wirework:—door, skylight or window guards 22

wirework

(see also guards ....6)

cloth or fabric

see screening 19

conveyor belts

Cyclone Fence Dept., American Steel & Wire Div., United States Steel.......22g/Cy

door, skylight or window guards

Barnhart, A. W., Co. 19a/Ba
Bellis Wire Works 22f/Be

wirework *cont.*

door, skylight or window guards *cont.*

Cyclone Fence Dept., American Steel & Wire Div., United States Steel.......22g/Cy
Fisher Skylights, Inc. 20b/Fi
Superior Wire & Iron Products, Inc....22f/Su
Western Wire & Iron Works, Inc. 22f/We
Woven Wire Products Assn. 22f/Wo

fencing

see fencing:—metal 22

partitions

see partitions:—wire 22

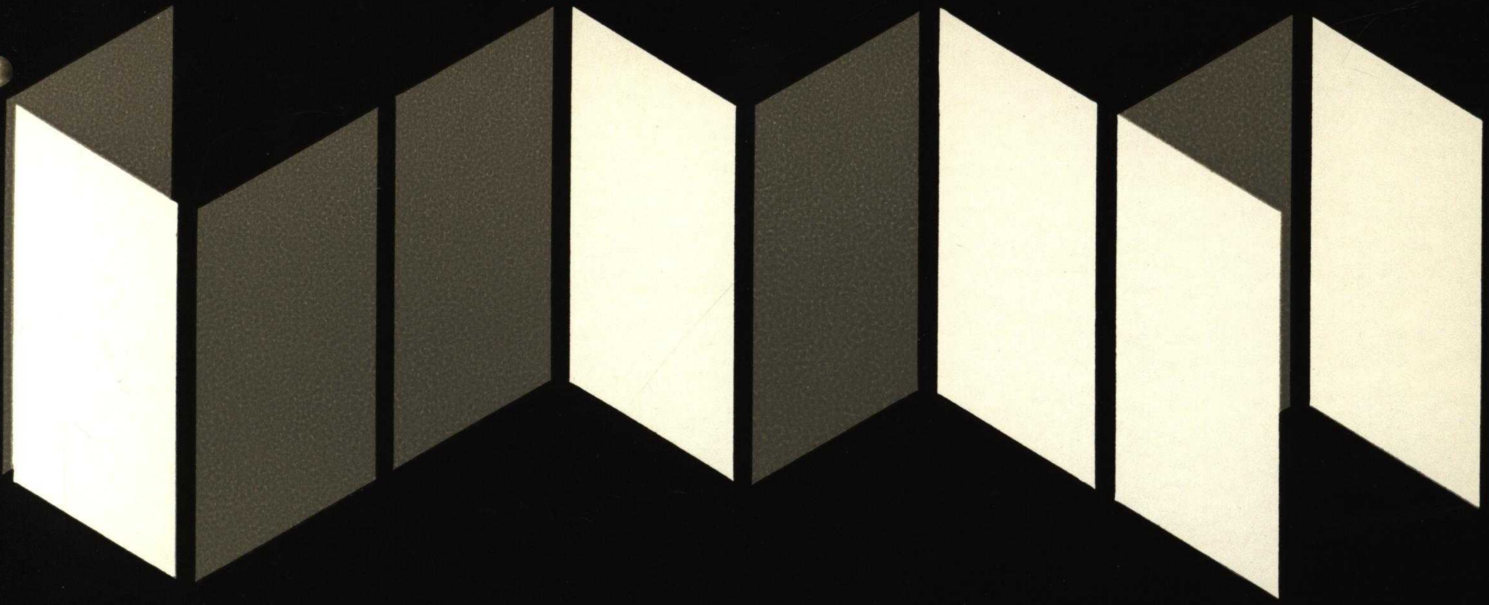
specialties

Lawrence Metal Products Inc. 6e/La
Woven Wire Products Assn. 22f/Wo

x-ray protection equipment

see specific material or product as:

- *concrete block:—x-ray-protective* 4
- *glass:—x-ray-protective* 7
- *lath:—x-ray-protective; plaster:—x-ray-protective* 12
- *panels and boards—prefinished:—x-ray-protective* 14
- *doors:—x-ray-protective* 16
- *windows—special types:—x-ray-protective* 17
- *nails, screws, etc.:—x-ray-protective*...18
- *louvers—door or window:—x-ray-protective* 19
- *ceilings:—x-ray-protective; partitions:—x-ray-protective* 22



AETNAWALL

PARTITIONING SYSTEMS

AETNA STEEL PRODUCTS CORPORATION, 730 FIFTH AVENUE, NEW YORK

AETNAWALL PARTITIONING SYSTEMS

By
AETNA
STEEL PRODUCTS
CORPORATION
Manufacturer-
Contractor

Detailed in this catalog are basic Aetnawall partitioning types. The full scope of Aetnawall function and adaptability is as broad as architects', contractors' or office executives' requirements. Aetnawall stands ready to manufacture and install whatever designs are agreed upon with the competence and speed gained from a background of over 56 years in the hollow metal field. Use this catalog as reference in planning for partitioning and avail yourself of the specialized knowledge of an Aetnawall representative who will be glad to answer your questions and supply quotations.

Write or telephone: Aetna Sales,
Aetna Steel Products Corporation,
730 Fifth Avenue, New York 19, N. Y.
Judson 6-2525

A

T

P

238

B

AETNAWALL-A

Extruded aluminum shapes with snap-on pilaster covers. Black reveal accent-strips frame insert panels.

AETNAWALL-T

Flush single-line joint partitioning, three inches thick; all steel, half glass, all glass.

AETNAWALL-PERSPEC®

Slender profiles, easy movability. Wide variety of elevation patterns. Custom versatility.

AETNAWALL-238

The standard most widely used flush-joint post-and-pilaster partitioning system.

AETNAWALL-B

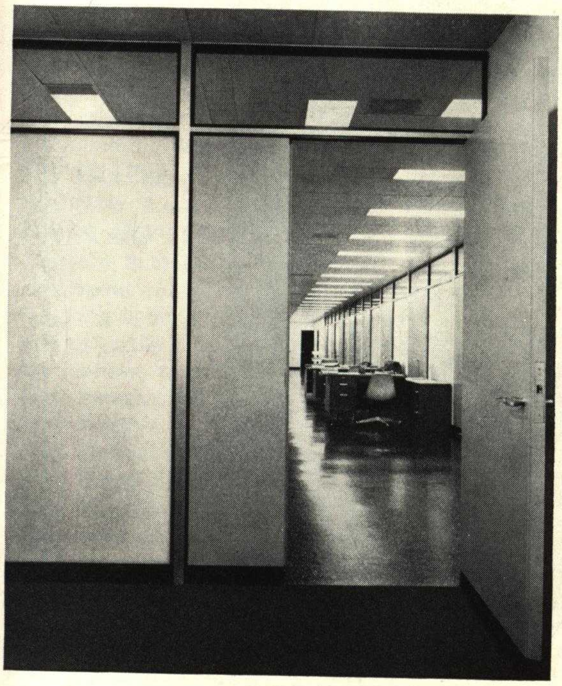
Flush-joint three inches thick. Post and pilaster system. Office, laboratory and industrial use.

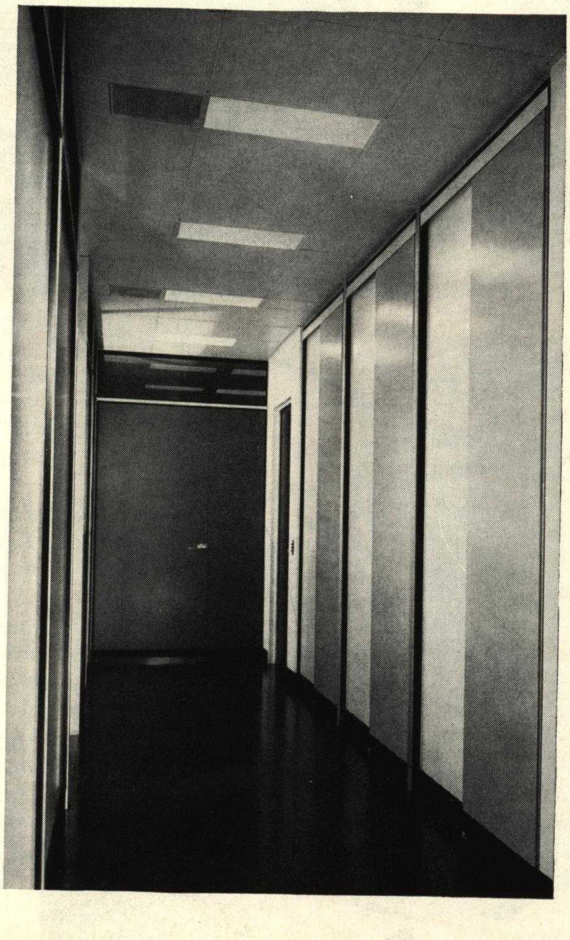
AETNAWALL® INSTALLATION

Aetna Steel Products Corporation provides AETNAWALL installation service throughout the United States and Canada. Aetna field supervisors and their crews are trained specialists in movable partition installation work.

AETNAWALL-A

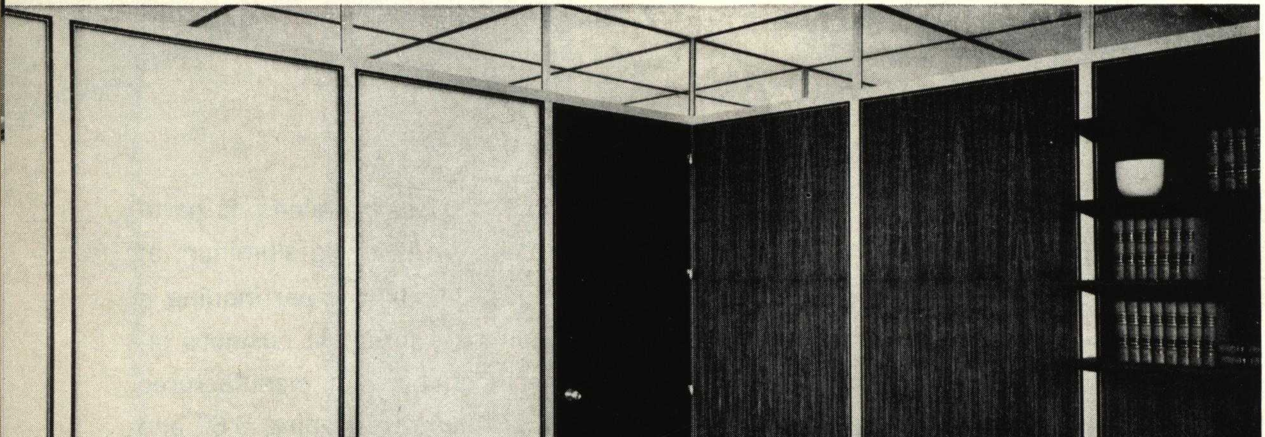
Aetnawall-A, which comes in two design versions, is partition styling brought up to tomorrow. Utilizing aluminum at its structural and decorative best, this type of partitioning is being used by some of the nation's foremost business organizations. Aetnawall-A is a custom partition manufactured to any ceiling height. Ceiling heights exceeding 9′6″ and panel widths greater than 5′0″ are not recommended.

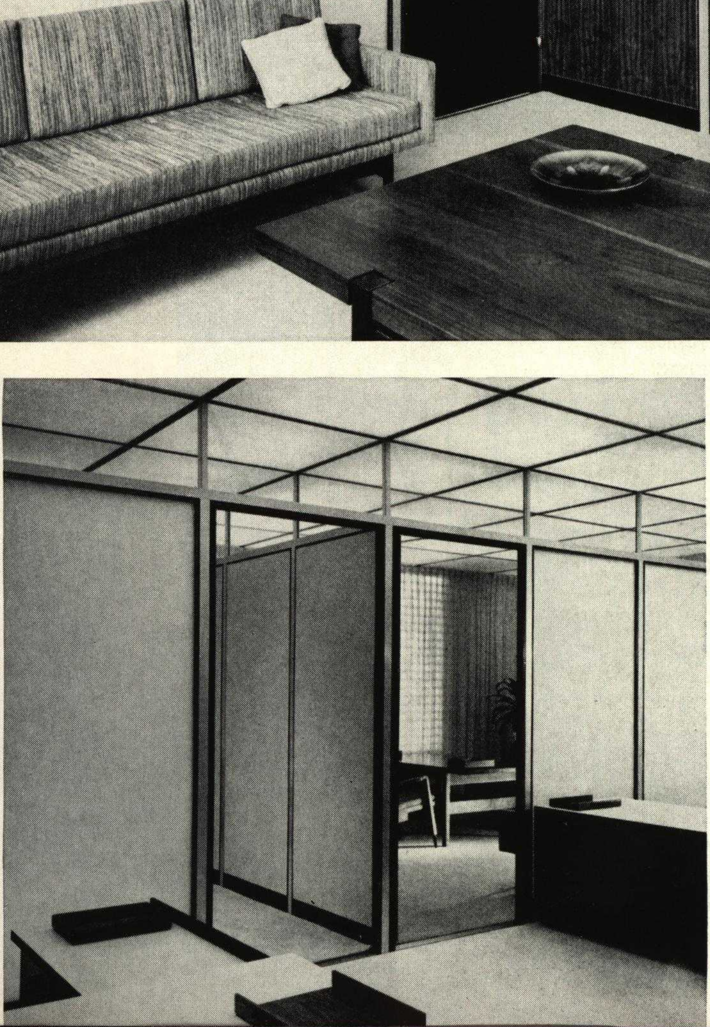




LEFT: POST COVER IS NATURAL FINISHED ANODIZED ALUMINUM, SNAP-ON. GLASS, STEEL OR WOOD PANELS ARE FRAMED WITH ALUMINUM ACCENT STRIP AND BLACK REVEAL. RIGHT: SLIDING-DOOR CLOSET UNITS TO CEILING. BYPASSING SLIDING DOORS. CONTINUOUS FORMED FINGER-GROOVE PULL ELIMINATES NECESSITY FOR APPLIED, PROTRUDING HANDLE HARDWARE. 3/4″ THICK HOLLOW METAL CONSTRUCTION; SUSPENDED FROM OVERHEAD EXTRUDED ALUMINUM TRACK BY NYLON BALL BEARING ROLLERS.

A





THE NATURAL ALUMINUM AND BLACK OF AETNAWALL-A COMBINES WITH A WIDE VARIETY OF COLOR SCHEMES IN INSERT PANELING AND DOORS. ARCHITECTS AND INTERIOR DESIGNERS WILL FIND THE AETNAWALL PAINT COLOR SWATCHBOOK HANDY IN COLOR SELECTION AND STYLING.

SPECIFICATIONS FOR AETNAWALL-A PARTITION

SCOPE OF WORK: Furnish and install complete Aetna Steel Products Corporation's Aetnawall-A type partition as indicated on the plans and specified as follows:

SHOP DRAWINGS: Submit in triplicate drawings showing the complete plan layout with typical details and elevations, special conditions, hardware schedule, extent and type of glass, and extent and type of materials and colors of finish of the panel faces. Shop drawings must be approved by the Architect before proceeding with the work.

GENERAL DESIGN: Units shall be designed so that the partition may be extended in 2, 3 or 4 way directions from any post connection without disturbing any existing material or using fillers or adapters. Any unit shall be readily removable without disturbing the adjacent panels or the filler above, and shall be interchangeable with any Aetnawall-A unit of the same size. Panel unit width shall conform to the building module.

PANEL UNIT: Panels shall be 2" thick, fully packed with rock wool. Panel plates shall be 20 ga. steel with horizontal stiffeners 9" on center welded to back faces of panel plates with a double row of spot welds 3" on center. Panel plates shall be fully pickled cold rolled furniture stock sheet steel, stretcher levelled and free from visible surface defects.

POSTS: The structural vertical posts of the panel units shall be extruded sections of 6063-T5 aluminum, designed to lock to post of adjoining panels by means of positive acting link plates.

POST COVERS: Post covers shall be extruded sections of 6063-T6 aluminum, designed to snap on and off readily without distortion. Post covers shall be fitted neatly against the floor and ceiling.

RAILS: Rails shall be 18 ga. steel rolled shape. Flat trim of extruded sections of 6063-T5 aluminum shall be applied to faces of transom rails.

BASE: Base shall be an 18 ga. steel rolled shape in panel unit lengths to fit neatly between post covers. Base shall be designed to accommodate unevenness in the floor, and shall be readily removable from either side.

TOP FILLERS: Top filler closures shall be of recessed steel construction adjustable to unevenness in ceiling and shall be readily removable.

DOORS AND FRAMES: Doors shall be of 18 ga. steel, hollow metal construction, flush design, 1¾" thick. Faces and vertical edges of doors shall be smooth and shall have no visible grooves nor unfilled joints. Doors requiring lights of glass shall have flush square glazing stops on room side only. Glazing stops shall be removable by small counter-sunk Phillips head screws to assure easy replacement of glass.

Door frames shall be of 18 ga. steel rolled shapes and shall be floating type to allow for shimming and leveling of the partition independently of the frame. Doors and frames shall be provided with proper mortises, cutouts and reinforcements for any specified hardware.

HARDWARE: Unless otherwise specified, hardware shall be Aetnawall manufacturer's standard: one heavy duty cylindrical type latchset interchangeable with locksets of different operations, one pair of 4½ x 4½ ball bearing button tip butts, and one floor stop per door.

FINISH: Aluminum posts shall be anodized with a matte black "as extruded" finish. Post covers and rail trim shall be anodized in natural finish to standard specification No. 204-C1.

All surfaces of steel panels and parts shall be thoroughly degreased, clean and dry before painting. All surfaces of panels and parts shall receive a prime coat of oven-baked enamel. An oven-baked synthetic enamel finish coat of matte black shall be applied to all exposed surfaces except panel plates. Panel plates shall be finished in color as selected.

GLASS AND GLAZING: Glass for partitions and top fillers shall be furnished and installed by the partition contractor. Glass shall be as specified by the Architect. Glass shall be installed in neatly fitted aluminum channels of natural finish.

ERECTION: All metal partitions shall be erected in a workman-like manner, straight and plumb, with all horizontal lines level. Partitions shall be neatly scribed to fit existing building conditions. Hardware shall be properly adjusted and left in perfect working order.

CLEANING: All wrappings and waste shall be removed and the premises left broom clean. Finger marks shall be removed from the partition and construction marks and scratches neatly touched-up. Cleaning glass, washing partition and removing erection dust shall be performed by others.

GUARANTEE: All work shall be guaranteed for a period of one year against defective material and workmanship.

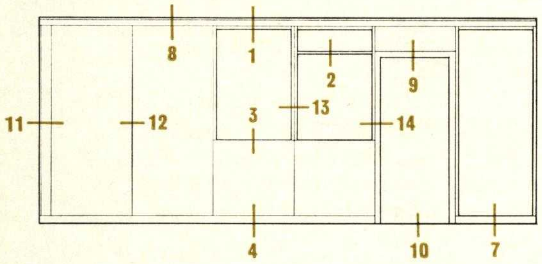
T

AETNAWALL-T

Aetnawall-T is the pioneer single-line-joint partitioning. Sixteen miles of it are used in a single office building in New York. More and more, Aetnawall-T is being specified in place of masonry and plaster. Its advantages include speed of original installation, re-useability of components, time saved in making space-division changes for tenants, lesser thickness (compared with masonry and plaster) resulting in floor-space savings.

AETNAWALL-T IS SHOWN HERE WITH TRANSLUCENT GLASS, FLOOR TO CEILING. IT IS ALSO AVAILABLE IN HALF-GLASS AND ALL-STEEL.

T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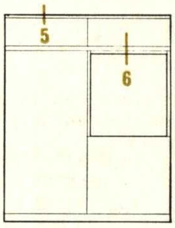
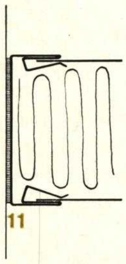


STANDARD HEIGHTS

Cornice high partitions . . . 7′4″
Ceiling high partitions (non stock)
As required. Check style.

STANDARD PANEL WIDTHS

All steel panels . . . 6″ to 42″ in 3″ increments
Steel and glass panels . . . 12″ to 60″ in 3″ increments
Door opening size . . . 2′6″ 3′0″ 3′6″ 5′6″
End filler width . . . 4″ to 18″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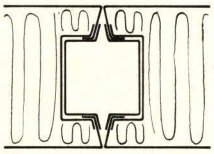
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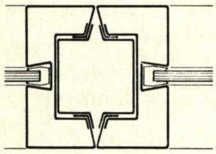
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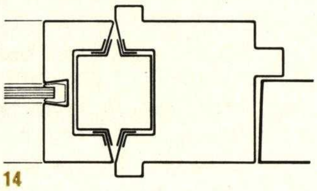
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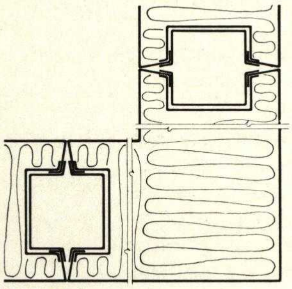
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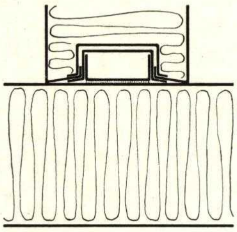
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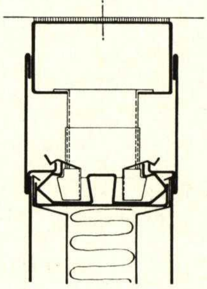
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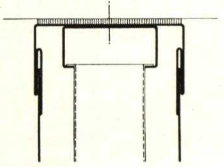
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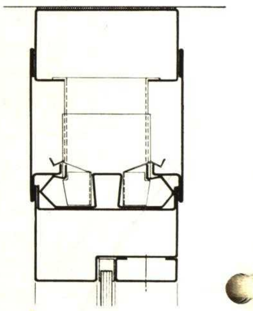
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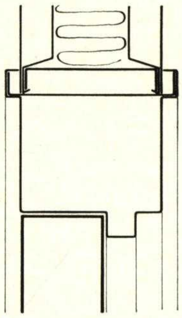
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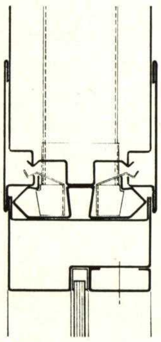
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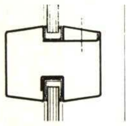
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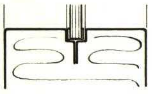
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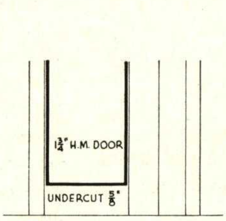
1¾″ H.M. DOOR
UNDERCUT ⅝″
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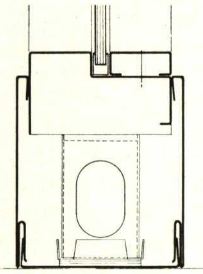
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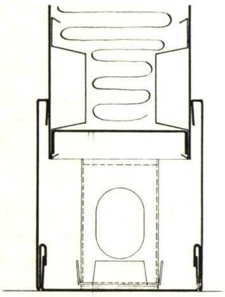
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DETAILS: ¼ F.S.

SPECIFICATIONS FOR AETNAWALL-T

SCOPE OF WORK: Furnish and install complete Aetna Steel Products Corporation's 3″ thick flush Aetnawall partition, as indicated on the plans and specified as follows:

SHOP DRAWINGS: Submit in triplicate drawings showing the complete plan layout with typical details and elevations, special conditions, hardware schedule, extent and type of glass and extent and colors of finish. Shop drawings must be approved by the Architect before proceeding with the work.

GENERAL DESIGN: Units shall be designed so that the partition may be extended in 2, 3, or 4 way directions from any post connection without disturbing any existing material or using fillers or adapters. Any unit shall be readily removable without disturbing the adjacent panels and shall be interchangeable with an Aetnawall unit of the same size. The partition shall have flat panel surfaces with only one vertical flush hairline joint defining each post connection.

MATERIALS: Steel shall be full pickled, cold rolled furniture steel, stretcher levelled and free from visible surface defects. All gauges referred to herein are U. S. Standard.

PANEL UNIT: Panel units shall be 3″ thick, fully packed with rock wool, and shall effect a sound transmission loss of no less than 45 decibels. Panel plates shall be 20 ga. steel with horizontal stiffeners 9″ on center welded to back face of panel plates with a double row of spot welds 3″ on centers.

POSTS: The structural vertical posts of the panel unit shall be 18 ga. rolled shape, formed at the bottom to permit wiring behind the base.

GLAZED PARTITION RAILS: Top rails and transom rails shall be 20 ga. rolled shapes. Glazing mouldings shall be removable for easy replacement of glass.

BASE: Base shall be an 18 ga. rolled shape continuous, without plinths. Base on both sides shall be independently adjustable to unevenness in floor and shall be removable from both sides for access to wiring.

Base shall be 4″ high with smooth flat surface, free horizontal lines or grooves and shall have 1/4″ projection.

CORNICE: Cornice shall be 20 ga. rolled steep shape 3″ high, designed as trim to snap on both sides of partition. Cornice pieces shall be adjustable to unevenness in ceiling and shall be readily removable for access to wire space between top of panel and ceiling channel.

END FILLERS: End fillers to columns, walls or partitions other than Aetnawall shall be a pair of 20 ga. sheets, flush with the partition and packed with rock wool. End filler sheets shall be field scribed to job conditions, and fit snugly into a channel securely anchored to the wall.

TOP FILLERS: Double steel for fillers shall extend from cornice to ceiling where required. Top fillers shall be 20 ga. flush steel plates both sides with vertical single line joint uniformly spaced and shall be factory finished. Steel top filler shall be packed with rock wool and shall be readily removable.

DOORS AND FRAMES: Doors shall be of 18 ga. steel, hollow metal construction, flush design, 1 3/4″ thick. Faces and vertical edges of doors shall be smooth and shall have no visible grooves nor unfilled joints. Doors requiring lights of glass shall have flush square glazing stops on room side only. Glazing stops shall be removable by small countersunk Phillips head screws to assure easy replacement of glass.

Door frames shall be of 18 ga. rolled shape having a projection from the face of the partition panel sufficient to permit the base to butt against the jambs without the use of plinths. Door frames shall be floating type to allow for shimming and levelling of the partition independently of the frame. The jambs and head shall be equipped with continuous rubber cushioned stops.

Doors and frames shall be provided with proper mortises, cutouts and reinforcements for any specified hardware.

HARDWARE: Unless otherwise specified, hardware shall be Aetnawall manufacturer's standard: one heavy duty cylindrical type latchset interchangeable with locksets of different operations, one pair of 4 1/2″ x 4 1/2″ ball bearing, button tip butts and one floor stop per door.

PAINT FINISH: All surfaces of panels and parts shall be thoroughly degreased, clean and dry before painting. All surfaces of panels and parts shall receive a prime coat of oven-baked enamel. An oven-baked synthetic enamel finish coat, color as specified, shall be applied to all exposed surfaces. (See AETNAWALL Color Guide for suggested range of colors.)

GLASS AND GLAZING: Glass for partitions shall be furnished and installed by partition contractor. Glass shall be as specified or called for on drawings and be installed in neatly fitted aluminum channels of natural finish.

ERECTION: All metal partitions shall be erected in a workman-like manner, straight and plumb, with all horizontal lines level. Partitions shall be neatly scribed to fit existing building conditions. Hardware shall be properly adjusted and left in perfect working order.

CLEANING: All wrappings and waste shall be removed and the premises left broom clean. Finger marks shall be removed from the partition and construction marks and scratches neatly touched-up. Cleaning glass, washing partition and removing erection dust shall be performed by others.

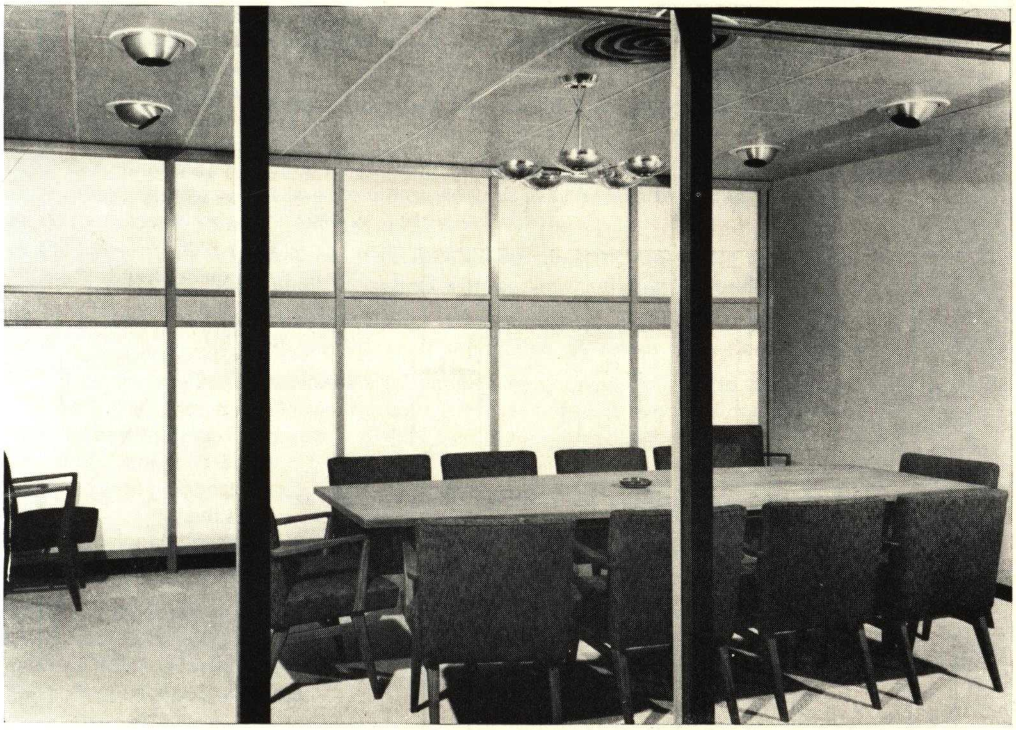
GUARANTEE: All work shall be guaranteed for a period of one year against defective materials and workmanship.

ELECTRIC WIRING DATA: Aetnawall metal partitions have through-ways for electrical wiring in the base, cornice and door frames. Rigid conduit entering Aetnawall partitions from the floor should be located along the centerline of the partition at least 6″ from any post. Conduit connections to flexible cable can be readily made within the base with elbow connectors or handy size junction boxes.

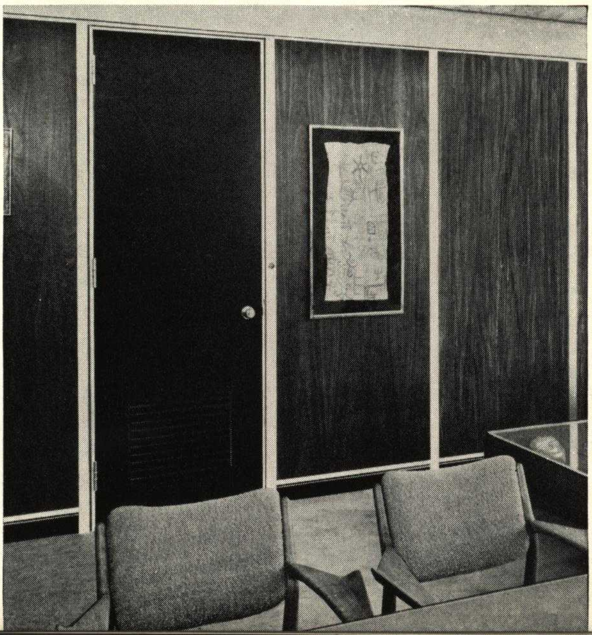
Aetnawall partition is designed to accommodate standard outlet boxes, standard wiring devices and escutcheon plates. No special boxes are required. Switches can be located in the door jambs at any desired height from the floor. Outlets can be located in the base. All electrical wiring devices, boxes, escutcheons, conduit, wiring and connections, etc., are furnished and installed by others.

AETNAWALL-PERSPEC

Perspec is one of the most significant forward steps in partition design that the trade has known for many years. The variety of materials that can be used for insert panels—wood, steel, fabric surfacing, etc.—gives the architect or interior designer working with Perspec an unusual opportunity to achieve custom individuality. Drawings will be prepared by Aetna Steel Products Corporation in cooperation with the architect.



ILLUSTRATIONS ON THESE PAGES SHOW ONLY A FEW OF THE MANY WAYS IN WHICH VERSATILE AETNAWALL-PERSPEC PARTITIONING HAS BEEN USED BY ARCHITECTS AND INTERIOR DESIGNERS. A TWO-INCH WIDE CLEAN VERTICAL POST PROVIDES MODERN SLIM STYLING.



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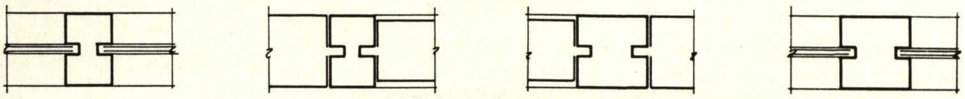
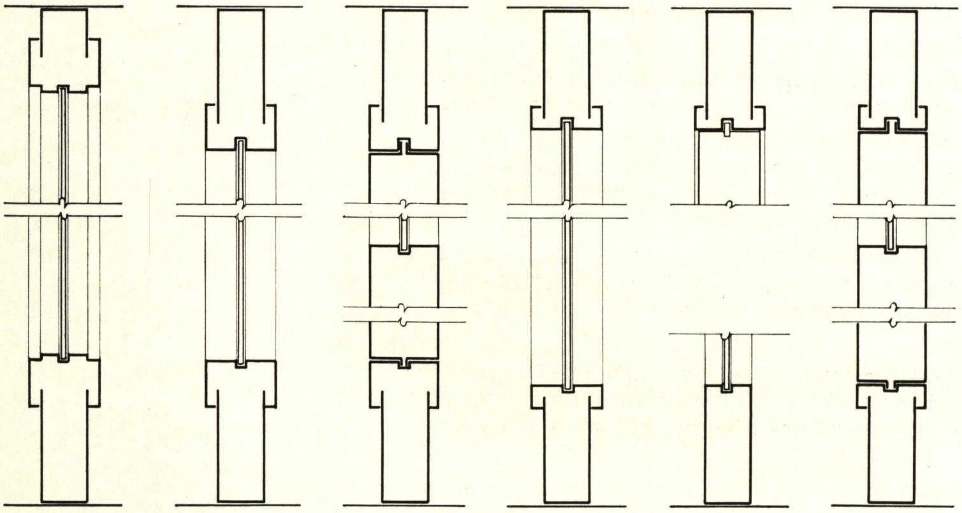
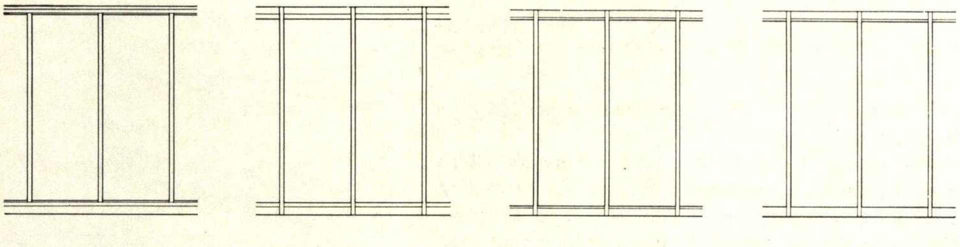






AETNAWALL PERSPEC is a custom partition manufactured to any ceiling height and to any panel width. Ceiling heights greater than 10′0″ and panel widths greater than 5′0″ are not recommended. From a variety of standard parts, the designer can create his own combination of vertical and horizontal lines with flush or recessed panels.

SPECIFICATIONS FOR AETNAWALL-PERSPEC

GENERAL: Furnish and install PERSPEC partitions as indicated on architect's drawings. Partition panels shall be arranged in modular widths as required by the layout. Door units shall be interchangeable with panel units of like widths. End fillers at walls shall be insulated. Construction of panels shall permit two, three or four way connection without disturbing adjacent units.

SHOP DRAWINGS: Shop drawings, in triplicate, shall be furnished for approval before proceeding with work.

MATERIALS: All materials shall be of the best quality. All structural members shall be of steel. All gauges are U.S. Standard and are the minimum acceptable. All steel shall be free from visible surface defects.

POSTS: Posts shall be formed of 16 ga. steel integral with panel and designed to lock to post of adjoining panels by means of a positive acting link plate.

POSTCOVERS: Post covers shall be formed of 18 ga. steel of snap-on type, permitting easy removal for electrical wiring and replacement without damage. The face width shall be 2" or 3" as desired.

PANELS: Panel plates shall be of 20 ga. cold rolled stretcher levelled steel, reinforced with steel stiffeners welded to panel plates on 9" centers by a double row of spot welds on 3" centers. Panels shall be packed with inorganic filler to form a firm backing and insulation. Panel plates shall be 3" apart (flush with post covers), or 2⅜" apart (recessed back of post covers) as desired.

RAILS: Rails shall be of 18 ga. cold rolled steel. Rails shall have a face width of ⅞", 1⅛" or 2" as desired.

BASE: Base shall be formed of 18 ga. cold rolled steel with vertical adjustment to floor and be independently removable on either side for easy access to wiring raceway. Base shall be recessed ½" on both sides of partition.

TOP FILLER: Top fillers shall be of recessed steel construction neatly scribed to ceiling. Where specified, fillers shall be packed with sound insulating material.

END FILLERS: End fillers shall be of 20 ga. steel double construction, insulated, securely anchored to walls, and shall permit adjustment and alteration to various conditions.

DOORS: Doors shall be of hollow metal construction, flush design. No grooves or unfilled joints shall appear on door surfaces. Clearance between door and door frame to be not more than 3/32". Provide proper mortises and reinforcements for all types of hardware application.

HARDWARE: Unless otherwise specified, hardware shall be partition manufacturer's standard: one heavy duty cylindrical latchset interchangeable with locksets of different operations, one pair of 4½" x 4½" ball bearing—button tip butts and one floor stop per door.

FINISH: All surfaces shall be thoroughly degreased and dry before application of finish. All surfaces shall receive a pre-assembly coat of rust-resisting paint baked on. After assembly, finish of color specified shall be applied to all surfaces horizontally and vertically to insure proper coverage.

GLASS AND GLAZING: Glass for partitions shall be furnished and installed by partition contractor. Glass shall be as specified or called for on drawings. Glass shall be installed in neatly fitted aluminum channels of natural finish.

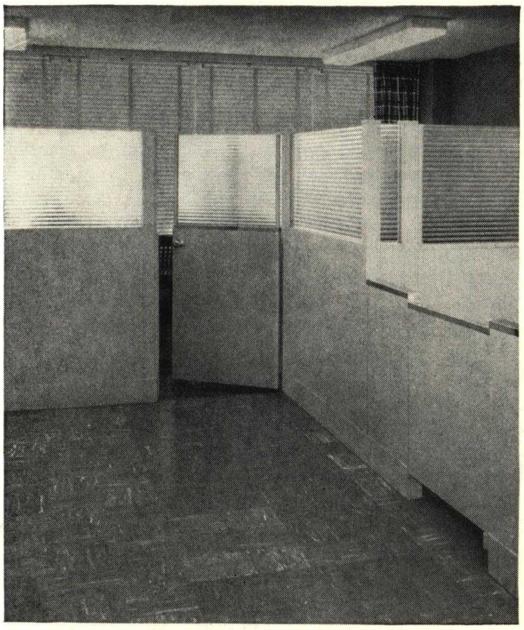
ERECTION: All metal partitions shall be erected in a workman-like manner, straight and plumb, with all horizontal lines level. Partitions shall be neatly scribed to fit existing building conditions. Hardware shall be properly adjusted and left in perfect working order.

CLEANING: Wrappings and waste shall be removed and the premises left broom clean. Finger marks shall be removed from the partition; construction marks and scratches shall be neatly touched up. Cleaning glass, washing partition and removing erection dust shall be performed by others.

GUARANTEE: All work shall be guaranteed for a period of one year against defective materials and workmanship.

ELECTRIC WIRING DATA: Vertical members, top filler and base shall be designed to be readily accessible for installation of electrical wiring.

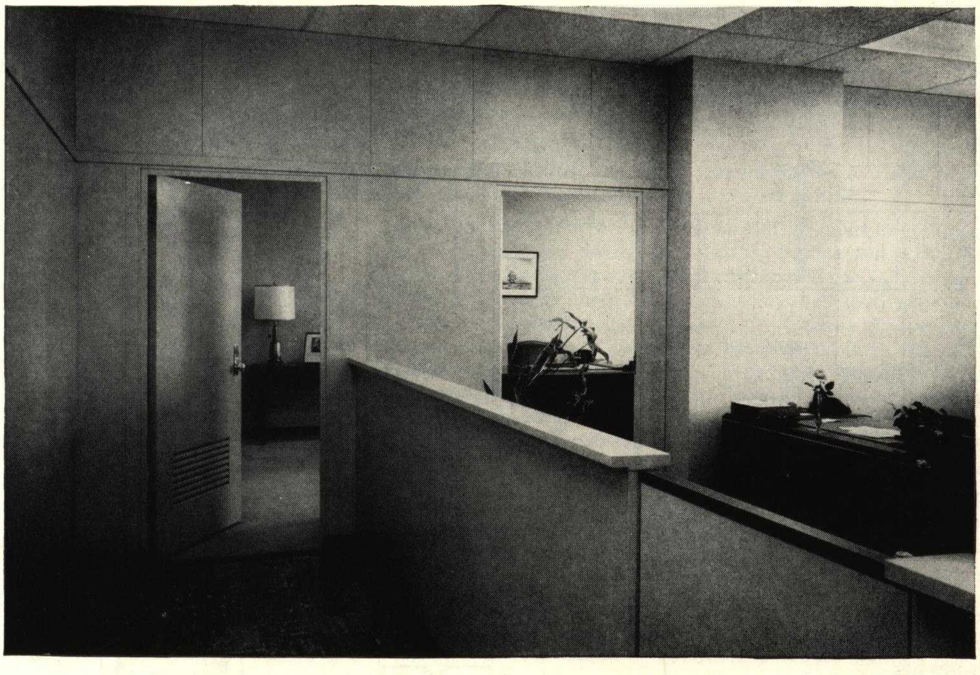
Wiring may enter partition thru the ceiling by means of BX cable at post centers only. Holes thru partition ceiling channel are cut on job by partition mechanics to admit cable. Wiring may enter partition thru floor by means of rigid conduit with connectors to BX cable located as close to floor as possible within base. Conduit stubs should not be closer than 6" to any post and must be on centerline of partition. Holes thru partition floor channel are cut on job by partition mechanics to accommodate conduit stubs.



CORRIDOR IN FULL-PAGE ILLUSTRATION AT LEFT SHOWS 7′ HIGH STEEL AND GLASS PANELS BOTH WITH AND WITHOUT TOP FILLER. ABOVE: 5′7″ GLAZED RAIL WITH FLUTED GLASS. BELOW: 3′ HIGH RAILING WITH GATE.

AETNAWALL-238

The design and engineering of Aetnawall-238 are the result of long years of experience with movable partitions. All improvements in this Aetnawall category over the years have been made with partitioning's three outstanding requirements in mind—flexibility of performance in dividing space, speed in installation, re-useabililty.



AETNAWALL-238

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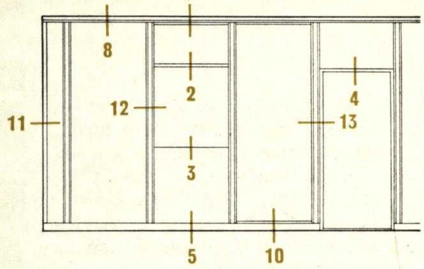

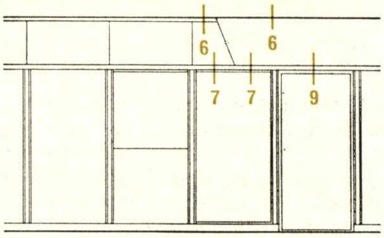

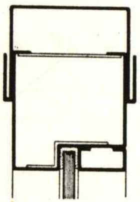
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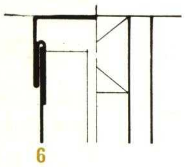
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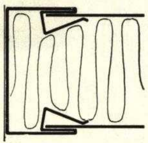
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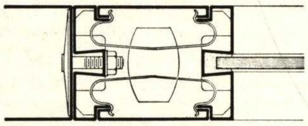
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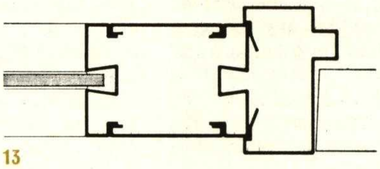
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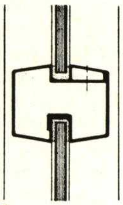
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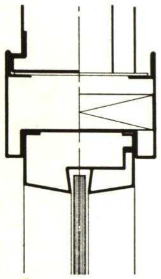
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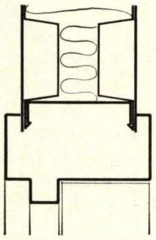
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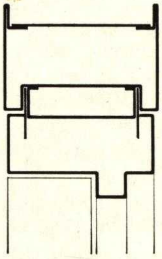
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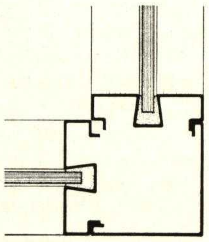
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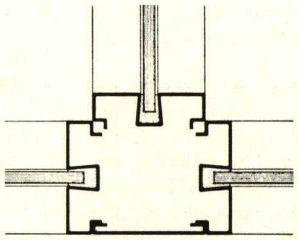
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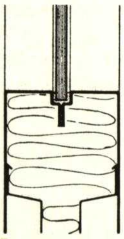
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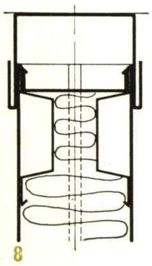
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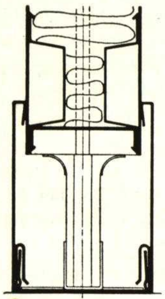
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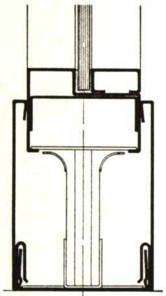
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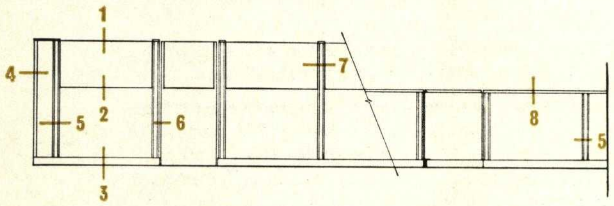
STANDARD HEIGHTS

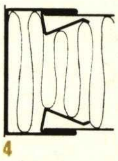
Cornice high partitions...7′2″ 8′4″ 9′2″
Ceiling high partitions...8′4″ 9′2″
Other heights available but non-stock

STANDARD WIDTHS

All steel panels...6″ to 48″ in 6″ increments
Steel and glass, glass line 43″ from flr....
12″ to 60″ in 6″ increments
Steel and glass, glass line 54″ from flr.
(non-stock) 12″ to 48″ in 6″ increments
All glass panels...12″ to 60″ in
6″ increments
Door—opening widths...2′6″ 3′0″ 3′6″
5′6″ (pair)
End fillers...4″ to 18″

RAILINGS AND GLAZED RAILINGS

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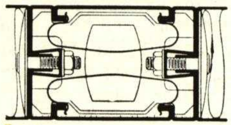
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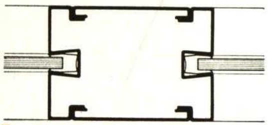
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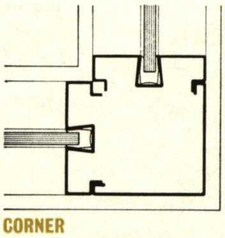
GLAZED RAIL

Standard height...5′7″
Standard panel widths...12″ to 72″
in 6″ increments
Gate opening width...2′7½″

RAIL

Standard heights...3′0″ 3′6″
Standard panel widths...6″ to 72″
in 6″ increments
Gate opening width...2′7½″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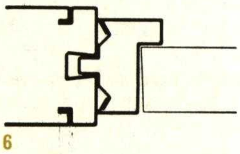
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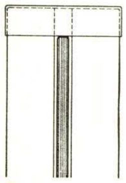
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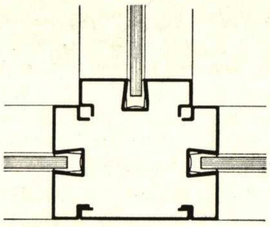
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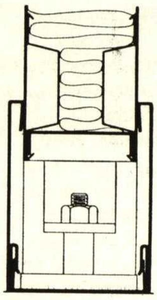
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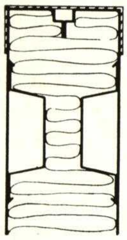
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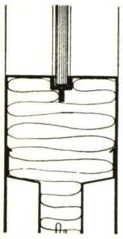
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SPECIFICATIONS FOR AETNAWALL-238

SCOPE OF WORK: Furnish and install complete Aetnawall Standard 2⅜" thick flush partition, as indicated on plans and specified as follows:

SHOP DRAWINGS: Submit in triplicate drawings showing the complete plan layout with typical details and elevations, special conditions, hardware schedule, extent and type of glass and extent and color of finish. Shop drawings must be approved by architect before proceeding.

GENERAL DESIGN: Units shall be designed so that the partition may be extended in 2, 3 or 4 way directions from any post connection without disturbing any existing material or using fillers or adapters. Any unit shall be readily removable, without disturbing adjacent panels or filler above, and interchangeable with an Aetnawall unit of the same size. The partition shall have flat panel surfaces with a maximum of four vertical flush hairline joints defining each post connection.

MATERIALS: Steel shall be full pickled, cold rolled furniture steel, stretcher levelled and free from visible surface defects. Gauges referred to herein are U. S. Standard.

PANEL UNIT: Panel units shall be 2⅜" thick, fully packed with rock wool, and effect a sound transmission loss of no less than 45 decibels. Panel plates shall be 20 ga. steel with horizontal stiffeners 9" on center welded to back face of panel plates with a double row of spot welds 3" on centers.

POSTS: The structural vertical posts of the panel unit shall be No. 18 ga. rolled shape, flush with panel plates and designed to lock to post of adjoining panels by means of positive acting link plates. Posts shall be formed at bottom to permit continuous lay-in wiring behind the base.

POST COVERS: Post covers shall be 18 ga. rolled shape designed to snap on and off readily without distortion. Post covers shall be flush with posts and panel plates.

GLAZED PARTITION RAILS: (Omit for Railing and Glazed Railing.) Top rails and transom rails shall be 18 ga. rolled shapes. Removable glazing mouldings shall be applied with small counter sunk Phillips head screws to assure positive positioning and easy replacement of glass.

BASE: Base shall be an 18 ga. rolled shape continuous, without plinths. Base on both sides shall be independently adjustable to unevenness in floor and removable from both sides for access to lay-in wiring. Base shall be 4" high with smooth flat surface, free from horizontal lines or grooves and have ¼" projection. If 6" high base is desired, so specify.

CORNICE: (Omit for Railing and Glazed Railing) Cornice shall be 16 ga. rolled steel shape 2¼" high with smooth flat surfaces free from horizontal lines or grooves, and project no more than ⅜" from face of partition panels. Cornice shall be designed to receive either a double steel top filler or a double ⅜" thick mineral board top filler as specified. A concealed pull-up and alignment device of 12 ga. steel shall be provided for each field splice.

END FILLERS: End fillers to columns, walls or partitions other than Aetnawall, shall be a pair of 20 ga. sheets, flush with partition and packed with rock wool. End filler sheets shall be field scribed to job conditions and fit snugly into a channel securely anchored to wall.

TOP FILLERS: Where double mineral board is specified, top filler shall be ⅜" thick mineral board applied to both sides of studs spaced 24" on center, extending from top of partition cornice to ceiling. Taping joints, spackling, and painting shall be by others. Where double steel is specified, top filler shall be 20 ga. flush steel plates both sides with vertical single-line joint uniformly spaced and factory finished. Steel top filler shall be packed with rock wool and readily removable. Full height floor-to-ceiling panels shall telescope into a continuous fixed ceiling channel securely fastened to suspended ceiling system.

DOORS AND FRAMES: Doors shall be of 18 ga. steel, hollow metal construction, flush design, 1¾" thick. Faces and vertical edges of doors shall be smooth and have no visible grooves nor unfilled joints. Doors requiring lights of glass shall have flush square glazing stops on room side only. Glazing stops shall be removable by small countersunk Phillips head screws to assure easy replacement of glass. Door frames shall be of 18 ga. rolled shape having a projection from face of partition panel sufficient to permit base to butt against the jambs without use of plinths. Door frames shall be floating type to allow for shimming and leveling of the partition independently of the frame. Doors and frames shall be provided with proper mortises, cutouts and reinforcements for any specified hardware.

HARDWARE: Unless otherwise specified, hardware shall be Aetnawall manufacturer's standard: one heavy duty cylindrical type latchset, interchangeable with locksets of different operations, one pair of 4½ x 4½ ball bearing button tip butts and one floor stop per door.

PAINT FINISH: All surfaces of panels and parts shall be thoroughly degreased, clean and dry before painting. All surfaces of panels and parts shall receive a prime coat of oven-baked enamel. An oven-baked synthetic enamel finish coat, color as specified, shall be applied to all exposed surfaces. (See AETNAWALL Color Guide.)

GLASS AND GLAZING: Glass for partitions shall be furnished and installed by partition contractor. Glass shall be as specified or called for on the drawings. Glass shall be bedded in non-hardening putty and back puttied. Putty color shall match color of partition.

ERECTION: Partitions shall be erected in a workman-like manner, straight and plumb, with all horizontal lines level. Partitions shall be neatly scribed to fit existing building conditions. Hardware shall be properly adjusted and left in perfect working order.

CLEANING: All wrappings and waste shall be removed and premises left broom clean. Finger marks shall be removed from partition and construction marks and scratches neatly touched-up. Cleaning glass, washing partition and removing erection dust shall be performed by others.

GUARANTEE: All work shall be guaranteed for a period of one year against defective materials and workmanship.

ELECTRIC WIRING DATA: Aetnawall metal partitions have throughways for electrical wiring in the base, cornice and posts. The minimum wireway clearance will accommodate one ¾" Greenfield flexible conduit or three BX 3-wire cables. Aetnawall partition is designed to accommodate standard 1½" deep, shallow handy boxes, standard wiring devices and escutcheon plates. No special boxes are required. Outlets and switches can be located in vertical posts at any desired height from floor. All electrical wiring devices, boxes, escutcheons, conduit, wiring and connections, etc., are furnished and installed by others.

SPECIFICATIONS FOR RAILINGS AND GLAZED RAILINGS

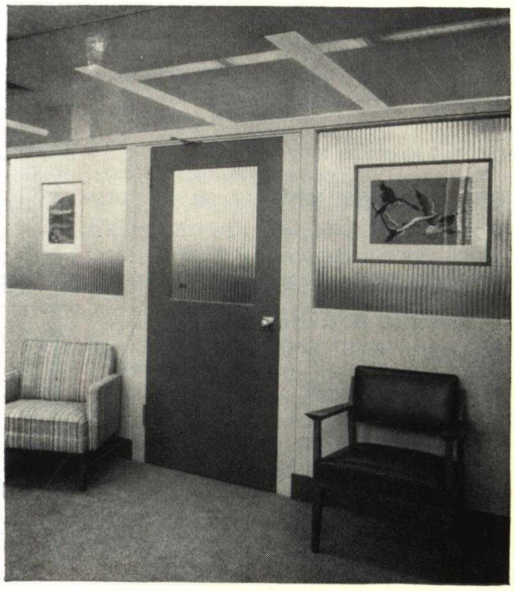
Specifications for Aetnawall-238 partition applies to Aetnawall railing and glazed railing, except that non-pertinent paragraphs such as cornice, top fillers, etc., shall not apply.

SUPPLEMENT TO PARAGRAPH 3: GENERAL DESIGN Railing and glazed railing shall be rigidly secured to floor with completely concealed anchors. No portion of floor anchor shall project the base. Anchor shall provide for concealed fish wiring. Glazed Railing shall be designed so that glazed portion is an integral part of each panel unit. Glazed railing units shall be readily movable without disturbing glass or requiring reglazing.

SUBSTITUTE FOR PARAGRAPH 13: GATES AND JAMBS All gates shall be of 18 ga. steel hollow metal construction, flush design, 1⅜" thick. Gates and jambs shall be provided with proper mortises, cutouts and reinforcements for any specified hardware.

SUBSTITUTE FOR PARAGRAPH 14: HARDWARE Unless otherwise specified, hardware for Glazed Railing gates shall be partition manufacturer's standard cylindrical type lockset and one pair of 3½" x 3½" butts per gate. Unless otherwise specified, hardware shall be partition manufacturer's standard self-centering checking hinge and a continuous stainless steel cap on the top edge of the gate.

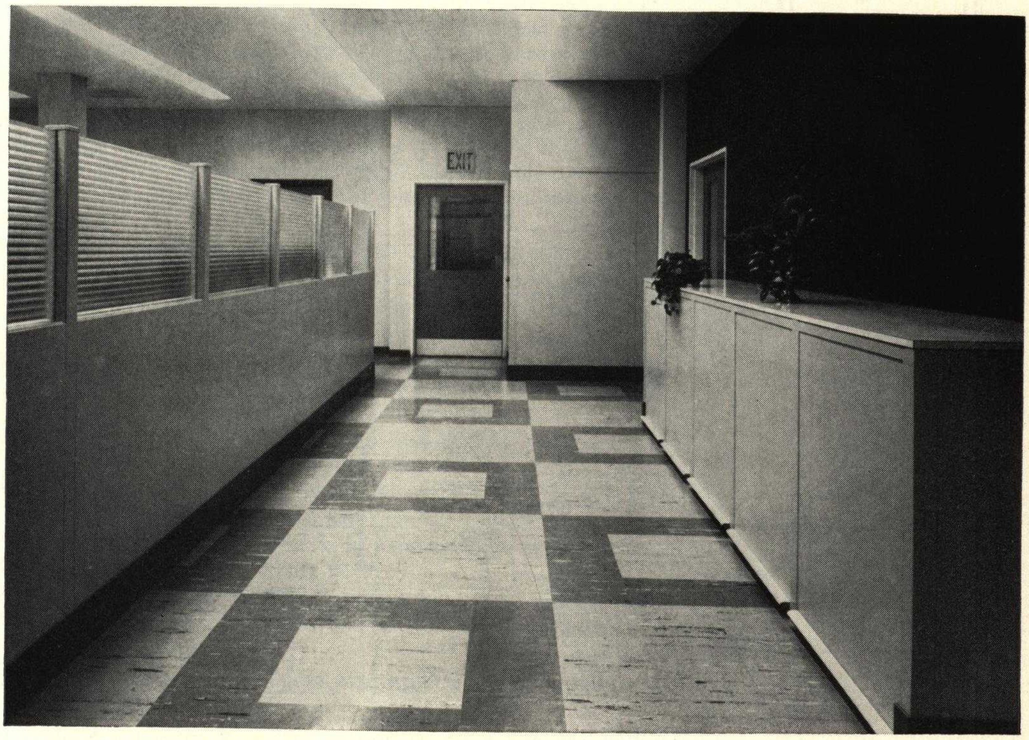
GLASS AND GLAZING: Glass for partitions shall be furnished and installed by partition contractor. Glass shall be as specified or called for on drawings. Glass shall be installed in neatly fitted aluminum channels of natural finish. Exposed top edge of glass shall be ground and chamferred.



LEFT-HAND PAGE: FLUSH, ALL-STEEL PARTITION, 7′ HIGH WITH STEEL TOP FILLER; 6″ HIGH BASE. ABOVE: 7′ HIGH, STEEL AND GLASS, GLASS TOP FILLER. LOWER RIGHT: GLAZED RAILING (5′7″); STEEL, 3′7″. CASEWORK BY AETNA STEEL PRODUCTS CORPORATION BUILT INTO STANDARD AETNAWALL RAIL.

AETNAWALL-B

Three-inch thick Aetnawall-B satisfies the requirement, frequently found in specifications, for extra thickness in post-and-pilaster steel partitioning. This partitioning type, which meets federal specifications, is especially in demand for laboratory and industrial applications as well as in offices.



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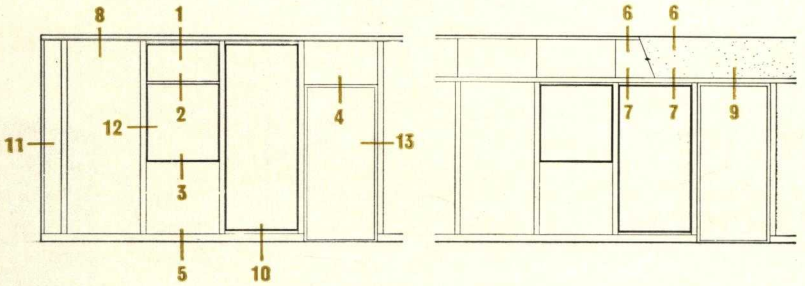
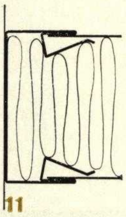


STANDARD HEIGHTS

Cornice high partitions . . . 7′2″ 8′4″ 9′2″
Ceiling high partitions . . . 8′4″ 9′2″
Other heights available but non stock

STANDARD WIDTHS

All steel panels . . . 6″ to 48″ in 6″ increments
Steel and glass, glass line 43″ from flr. 12″ to 60″ in 6″ increments
Steel and glass, glass line 54″ from flr. (non stock) 12″ to 48″ in 6″ increments
All glass panels . . . 12″ to 60″ in 6″ increments
Doors, opening widths . . . 2′6″ 3′0″ 3′6″ 5′6″ (pr.)
End fillers . . . 4″ to 18″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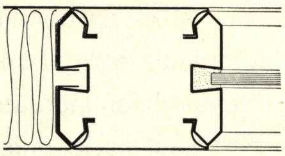
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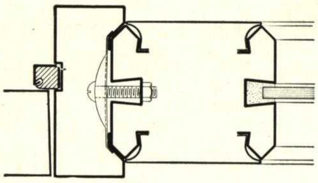
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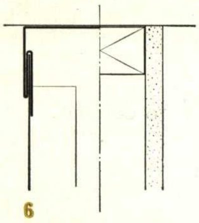
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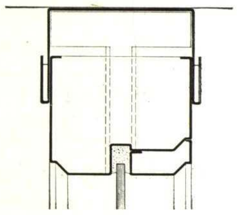
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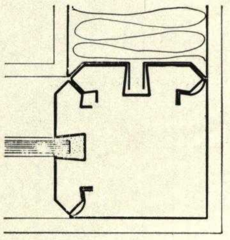
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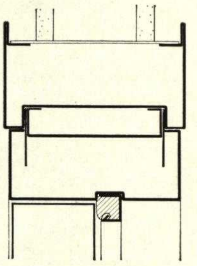
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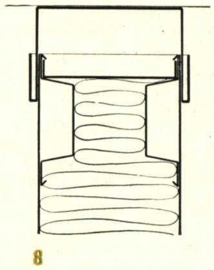
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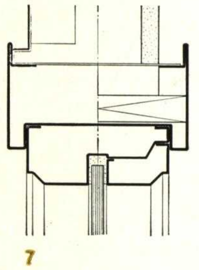
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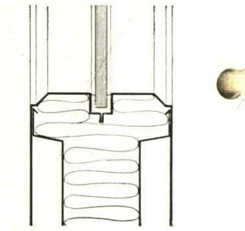
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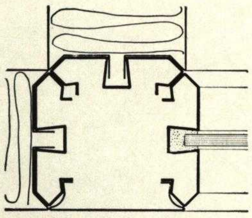
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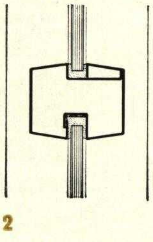
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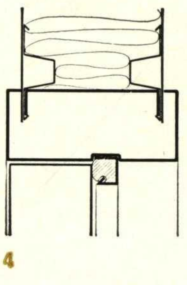
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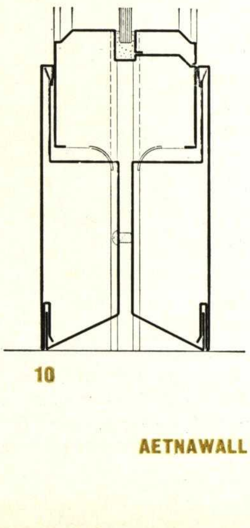
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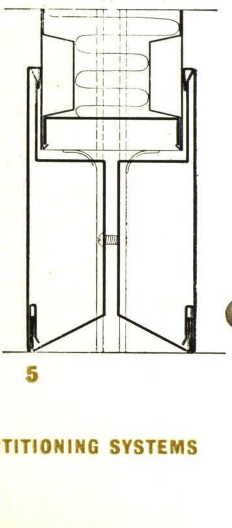
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DETAILS: ¼ F.S.

SPECIFICATIONS FOR AETNAWALL-B PARTITION

SCOPE OF WORK: Furnish and install complete the Aetna Steel Products Corporation's Standard 3" thick flush Aetnawall partition, as indicated on the plans and specified as follows:

SHOP DRAWINGS: Submit in triplicate drawings showing complete plan layout with typical details and elevations, special conditions, hardware schedule, extent and type of glass and extent and colors of finish. Shop drawings must be approved by Architect before proceeding with the work.

GENERAL DESIGN: Units shall be designed so that partition may be extended in 2, 3 or 4 way directions from any post connection without disturbing existing material or using fillers or adapters. Any unit shall be readily removable without disturbing adjacent panels or filler above, and shall be interchangeable with an Aetnawall unit of same size. Partition shall have flat panel surfaces with a maximum of two vertical flush hairline joints defining each post connection.

MATERIALS: Steel shall be full pickled, cold rolled furniture steel, stretcher levelled and free from visible surface defects. All gauges referred to herein are U. S. Standard.

PANEL UNIT: Panel units shall be 3" thick, fully packed with rock wool, and shall effect a sound transmission loss of no less than 45 decibels. Panel plates shall be 20 ga. steel with horizontal stiffeners 9" on center welded to back face of panel plates with a double row of spot welds 3" on centers.

POSTS: The structural vertical posts of the panel unit shall be 16 ga. rolled shape, designed to lock to post of adjoining panels by means of positive acting link plates. Posts shall be formed at the bottom to permit continuous lay-in wiring behind the base.

POST COVERS: Post covers shall be 18 ga. rolled shape designed to snap on and off readily without distortion. Post covers shall be flush with panel plates.

GLAZED PARTITION RAILS: Top rails and transom rails shall be 18 ga. rolled shapes. Glazing mouldings shall be removable for easy replacement of glass.

BASE: Base shall be an 18 ga. rolled shape continuous, without plinths. Base on both sides shall be independently adjustable to uneveness in floor and be removable from both sides for access to lay-in wiring. Base shall be 4" high with smooth flat surface, free from horizontal lines or grooves and have 1/4" projection. If 6" high base in unit lengths, with plinths, is desired, so specify.

CORNICE: Cornice shall be 16 ga. rolled steel shape 3" high with smooth flat surfaces free from horizontal lines or grooves, and shall project no more than 3/8" from face of partition panels. Cornice shall be snap-on type designed to be readily removable for access to wire space between top of panel and ceiling channel.

CEILING CHANNEL: Ceiling channel shall be 18 ga. steel, backed up by a neoprene gasket, securely fastened to rigid ceiling in continuous lengths. Post extensions shall be anchored to the ceiling channel and shall be designed to engage the back of the glazing groove of the posts and slide freely in vertical direction to accommodate deflection of ceiling.

END FILLERS: End fillers to columns, walls or partitions other than Aetnawall shall be a pair of 20 ga. sheets, flush with the partition and packed with rockwool. End filler sheets shall be field scribed to job conditions, and fit snugly into a channel securely anchored to wall.

DOORS AND FRAMES: Doors shall be 18 ga. steel, hollow metal construction, flush design, 1 3/4" thick. Faces and vertical edges of doors shall be smooth and shall have no visible grooves or unfilled joints. Doors requiring lights of glass shall have flush square glazing stops on room side only. Glazing stops shall be removable by small countersunk Phillips head screws to assure easy replacement of glass. Door frames shall be 18 ga. rolled shape having a projection from the face of partition panel sufficient to permit base to butt against the jambs without use of plinths. Door frames shall be floating type to allow for shimming and levelling of the partition independently of the frame. The jambs and head shall be equipped with continuous rubber cushioned stops. Doors and frames shall be provided with proper mortises, cutouts and reinforcements for any specified hardware.

HARDWARE: Unless otherwise specified, hardware shall be Aetnawall manufacturer's standard: one heavy duty cylindrical type latchset, interchangeable with locksets of different operations, one pair 4 1/2" x 4 1/2" ball bearing button tip butts and one floor stop per door.

PAINT FINISH: All surfaces of panels and parts shall be thoroughly degreased, clean and dry before painting. All surfaces of panels and parts shall receive a prime coat of oven-baked enamel. An oven-baked synthetic enamel finish coat, color as specified shall be applied to all exposed surfaces. (See Aetnawall Color Guide).

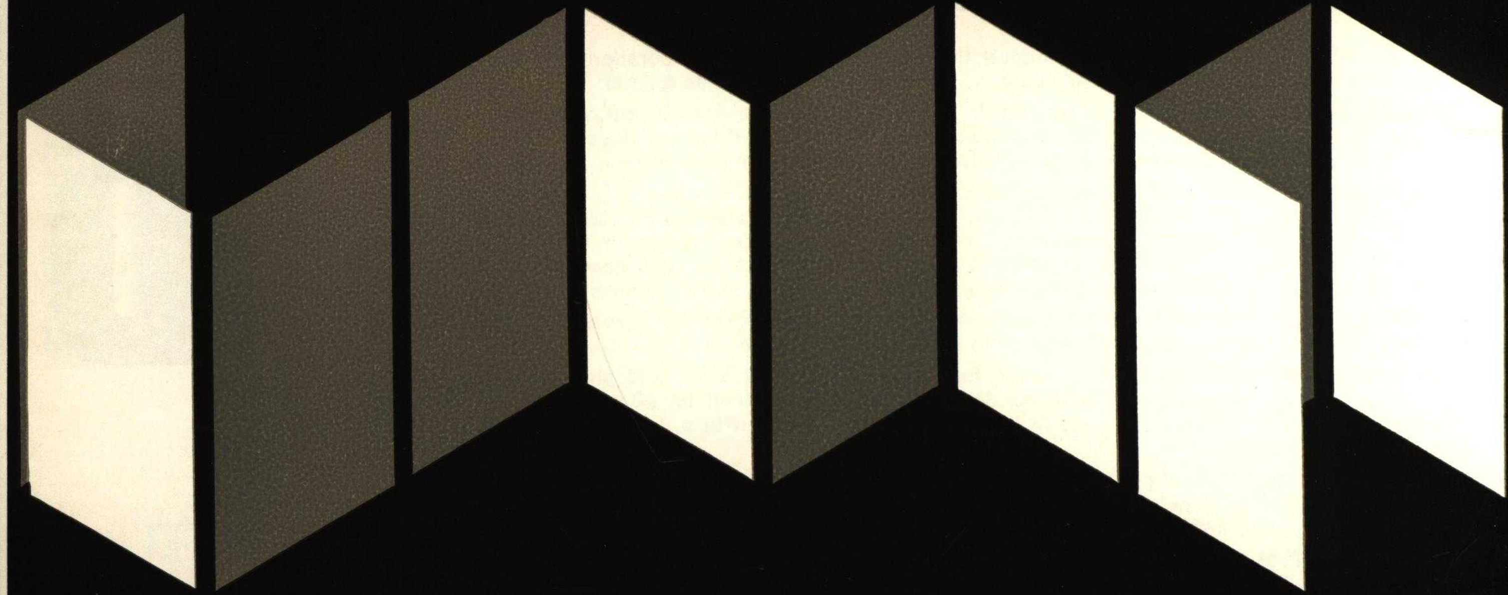
GLASS AND GLAZING: Glass for partitions shall be furnished and installed by partition contractor. Glass shall be as specified or called for on the drawings. Glass shall be bedded in non-hardening putty and back puttied. Putty color shall match color of partition.

ERECTION: All metal partitions shall be erected in a workman-like manner straight and plumb, with all horizontal lines level. Partitions shall be neatly scribed to fit existing building conditions. Hardware shall be properly adjusted and left in perfect working order.

CLEANING: All cuttings and waste shall be removed and the premises left broom clean. Finger marks shall be removed from the partition and construction marks and scratches neatly touched up. Glass and erection dust shall be cleaned by others.

GUARANTEE: All work shall be guaranteed for a period of one year against defective materials and workmanship.

ELECTRICAL WIRING DATA: Aetnawall metal partitions have through-ways for electrical wiring in the base, cornice and posts. The minimum wireway clearance will accommodate one 3/4" Greenfield flexible conduit and three BX 3-wire cables. Aetnawall 3" partition is designed to accommodate standard 1 1/2" shallow handy boxes, standard wiring devices and escutcheon plates. No special boxes are required. Outlets and switches can be located in the vertical posts at any desired height from floor. All electrical wiring devices, boxes, escutcheons, conduit, wiring, connections, etc. are furnished and installed by **others** unless otherwise specified.



AETNAWALL

PARTITIONING SYSTEMS

AETNA STEEL PRODUCTS CORPORATION, 730 FIFTH AVENUE, NEW YORK

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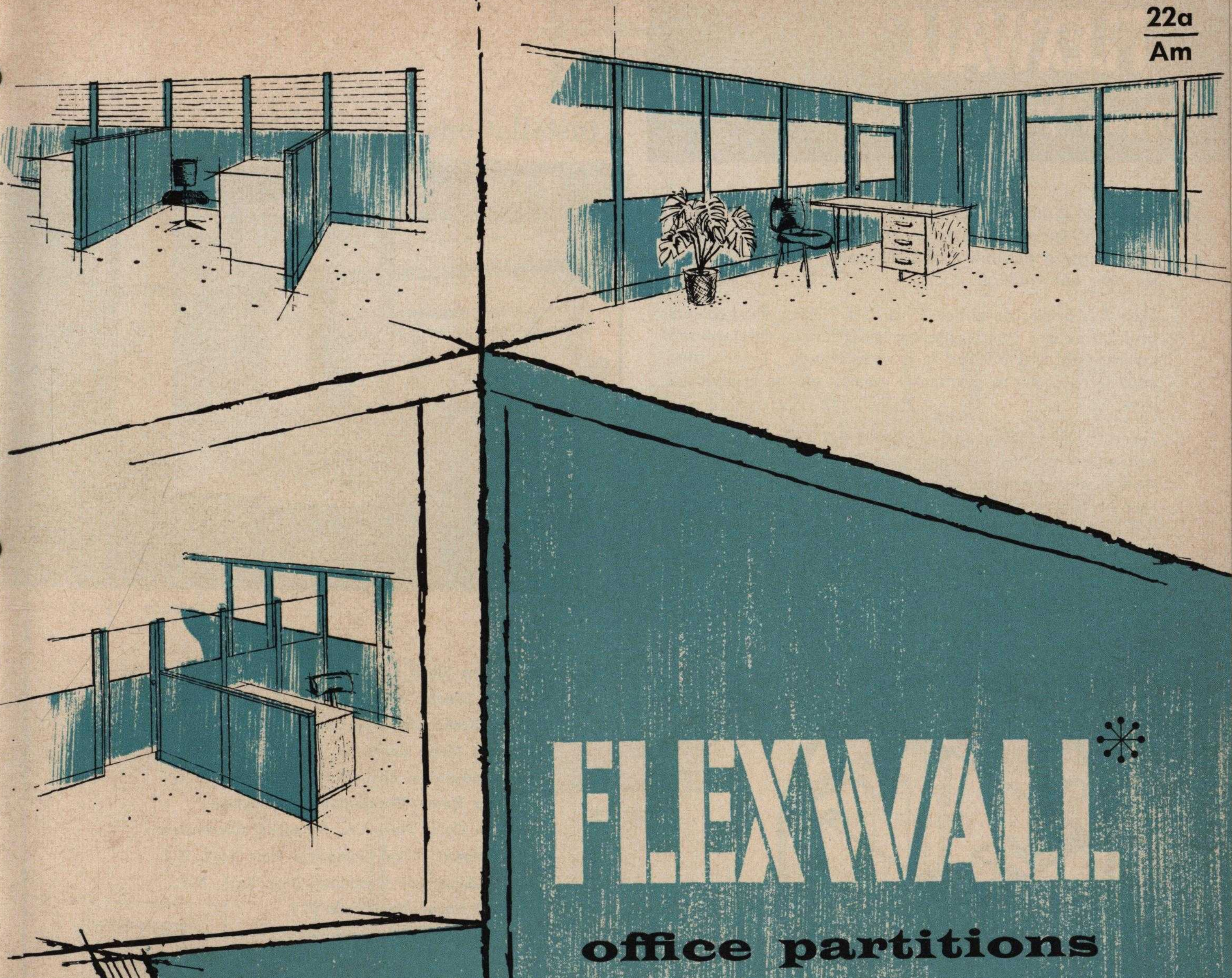
Am



FLEXWALL*

office partitions

AMERICAN SANITARY
PARTITION CORPORATION

* REG. U.S. PAT. OFF.

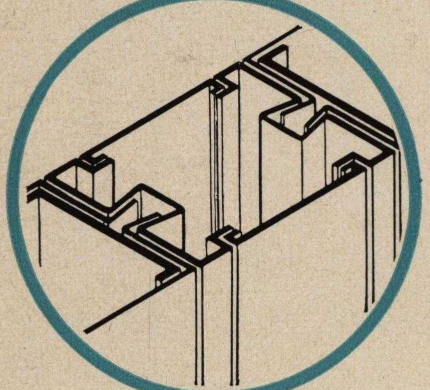
FLEXWALL*

flush "F" partitions

American Sanitary Partition Corporation offers office partitions for modernization of existing buildings and for complete flexibility and economy in office layouts for new construction.

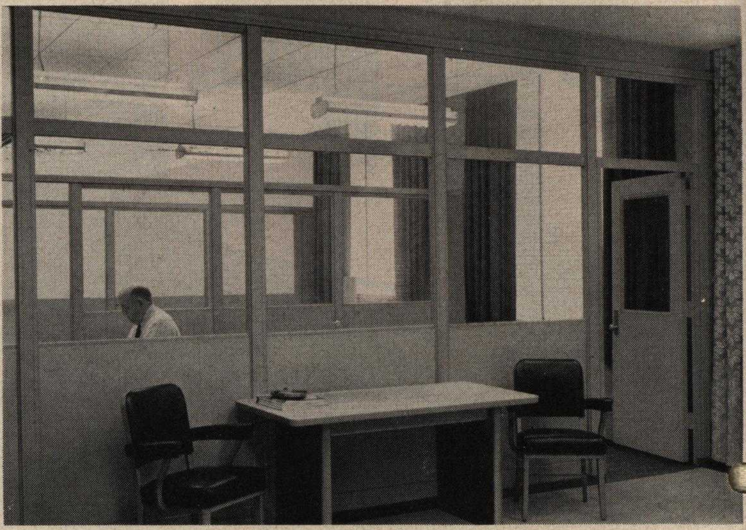
Type F is available either 3" or 2⅜" thick. Post covers and bases are removable for electrical and telephone installation. It is offered in a wide choice of decorator colors, to suit the particular needs of the individual user.

For additional information about the Type F partition presented in this catalog and for assistance in the design and planning of your particular partition problem or for any custom partition service, write or call the American Sanitary Partition Corporation.



1. Available in types to suit the users needs.
2. Available in a wide range of stock heights and widths.
3. Panels are of veneer steel, laminated to a honeycomb core, resulting in a strong and uniformly flat construction.
4. Panels are pre-pierced to provide openings for concealed electrical and telephone wiring.
5. Gates and doors are adjustable to floor variations and are furnished with all necessary hardware.
6. Partitions are available in ten, factory-finished, decorator colors.
7. Installation or alterations can be made by the individual's maintenance crews following our simple installation manual.

installations



American Stock Exchange Building, New York, N.Y.
Loew's Theatre Building, New York, N.Y.
Grand Forks Air Force Base, Grand Forks, North Dakota
Neptune Meter Company, New York, N.Y.
Fiber Industries, Earl, North Carolina
Masonic Home, Wallingford, Connecticut
Graphic Color Plate Co., Stamford, Connecticut
International Nickel Company, New York, N.Y.
Kaiser Aluminum Company, New York, N.Y.
67 Wall Street, New York, N.Y.
American Brass Company, Ansonia, Connecticut
Springfield Labor Lyceum, Springfield, Massachusetts
60 Wall Street, New York, N.Y.
Baldwin Piano Company, Fayetteville, Arkansas
Volkswagen Sales Company, Westport, Connecticut
Edwards & Hanely Office Building, Huntington, N.Y.

* REG. U.S. PAT. OFF.

railings F2⅜" and F3" details: 3" = 1' 0"

standard widths

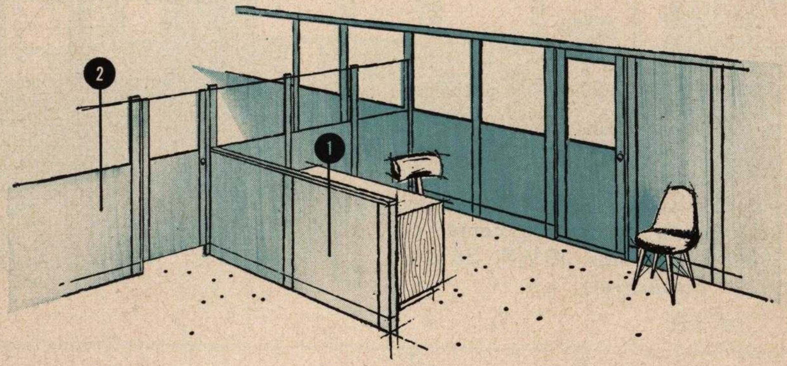
24", 30", 36", 42", 48", 54" and 60" (i.e. from center of post to center of post.)

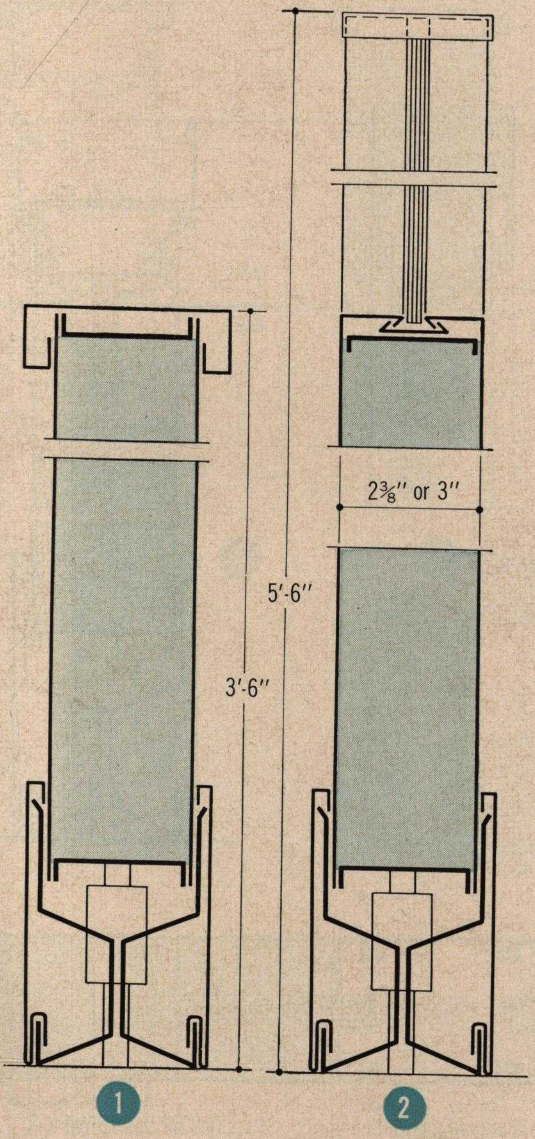
standard heights

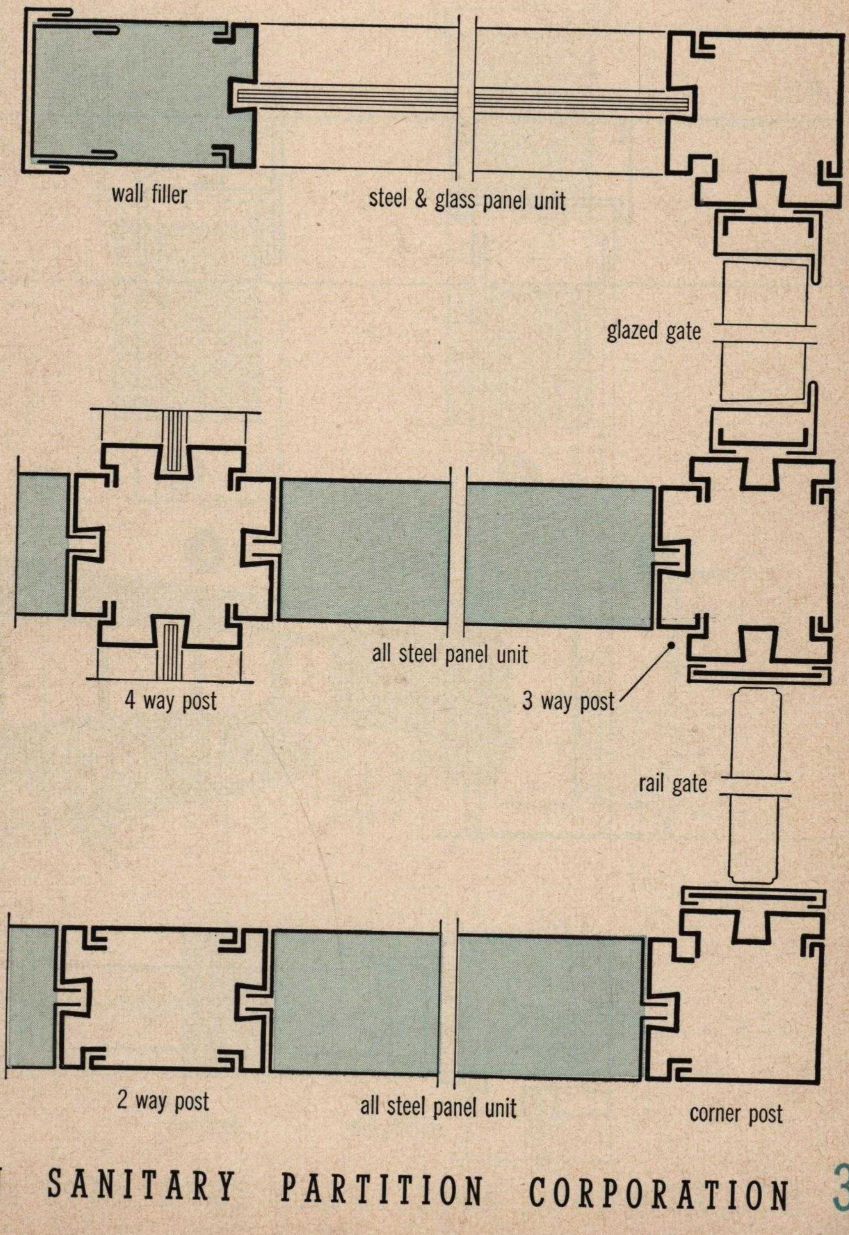
3'-6" railing, 5'-6" glazed railing.

door units

36" and 42" (i.e. from center of post to center of post).
Actual openings 30½" and 36½" and 66½" respectively.




5'-6"
3'-6"
2⅜" or 3"
①
②


wall filler
steel & glass panel unit
glazed gate
4 way post
all steel panel unit
3 way post
rail gate
2 way post
all steel panel unit
corner post

partitions

F2 3/8" and F3"

details: 3" = 1' 0"

standard widths

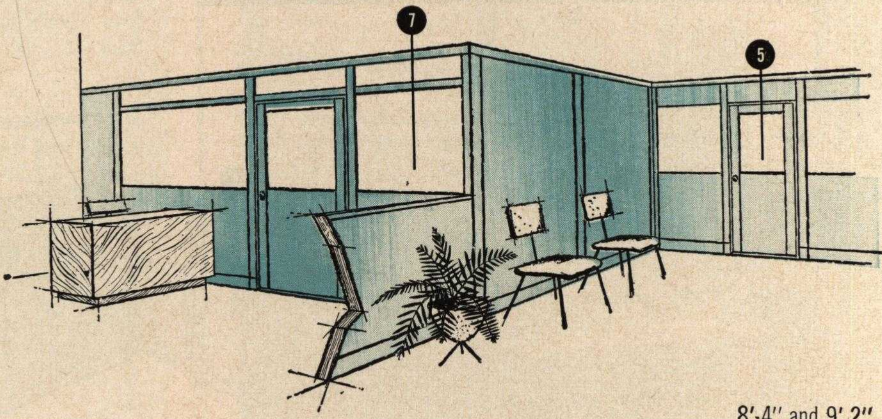
24", 30", 36", 42", 48", 54", and 60" (i.e. from center of post to center of post).

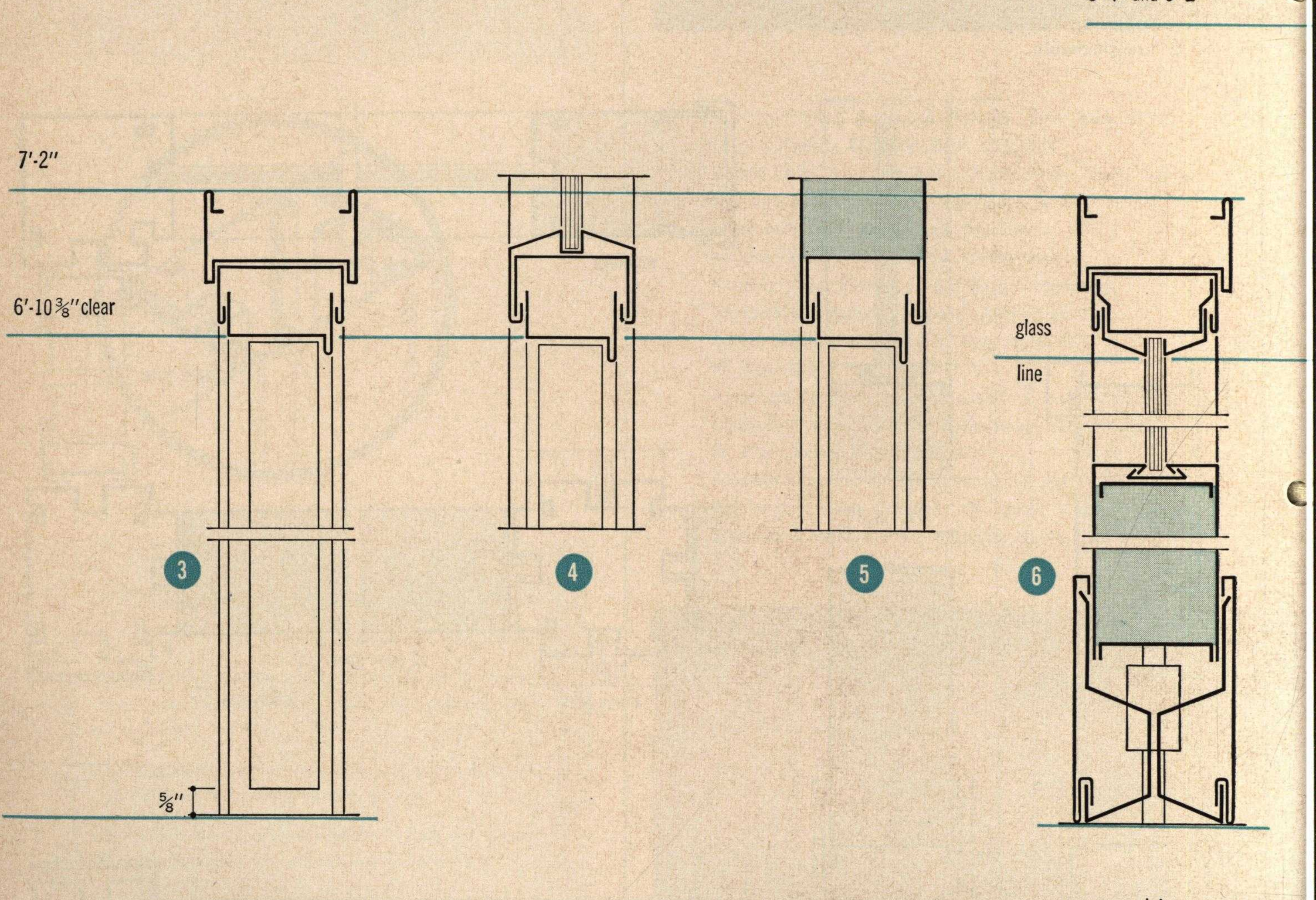
standard heights

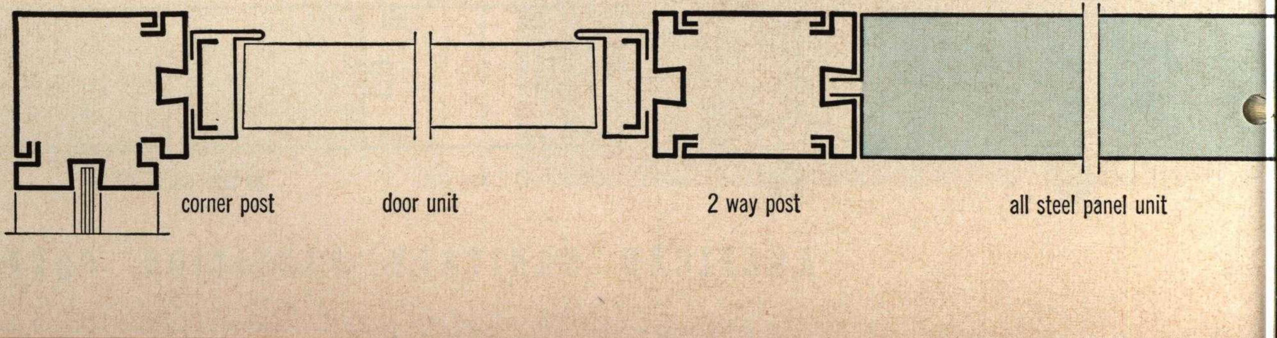
7'-2", 8'-4", and 9'-2" office partition.

door units

36" and 42" (single), and 72" (double) (i.e. from center of post to center of post). Actual openings 30½", 36½", and 66½" respectively.




8'-4" and 9' 2"
7'-2"
6'-10⅜" clear
glass
line
5/8"
3
4
5
6

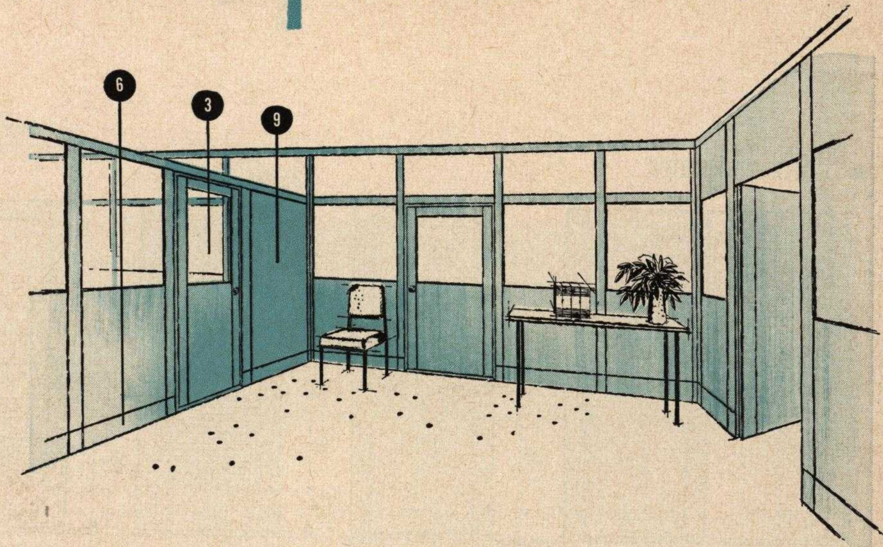

corner post
door unit
2 way post
all steel panel unit

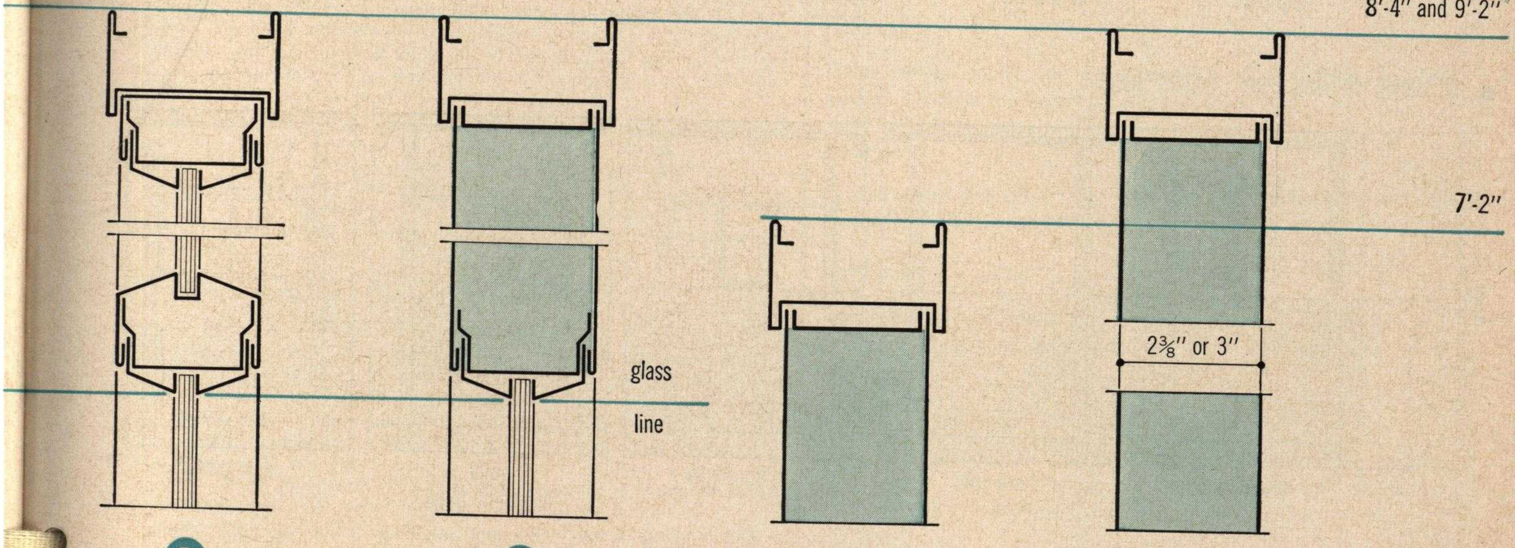
vertical sections

Shown are vertical sections of various panel units and combinations of units. Note the flexibility of installation provided by the common rail and opening heights.

horizontal sections

Horizontal sections of typical posts show the variety available. New panels may be added without disturbing existing units. Note the simplicity of joint lines.



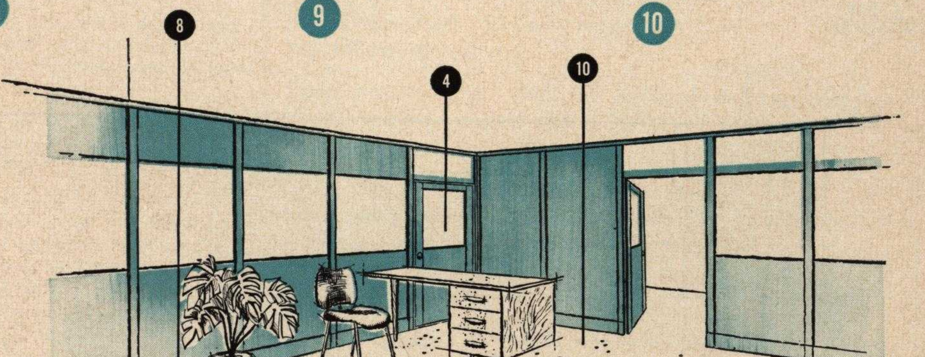

8'-4" and 9'-2"
7'-2"
glass
line
2⅜" or 3"

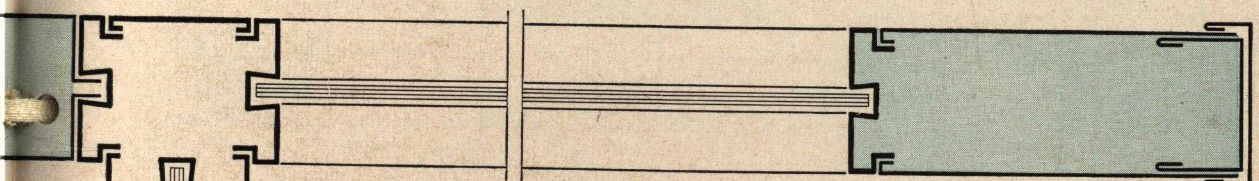
7

8

9

10

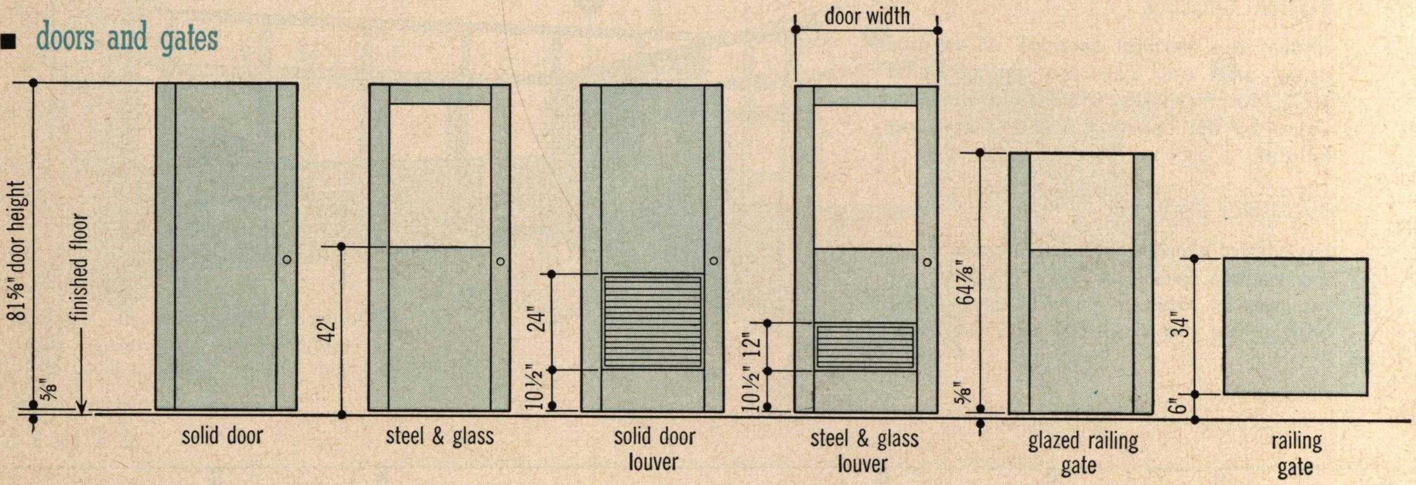



3 way post
steel & glass panel unit
wall filler

doors and specialties

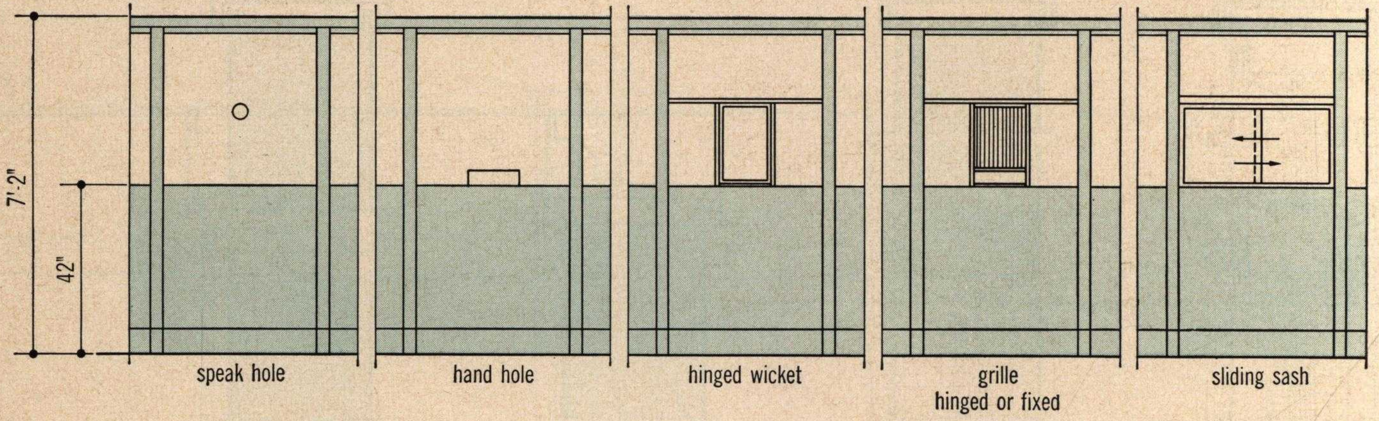
scales: ¼″ & 3″=1′-0″

doors and gates



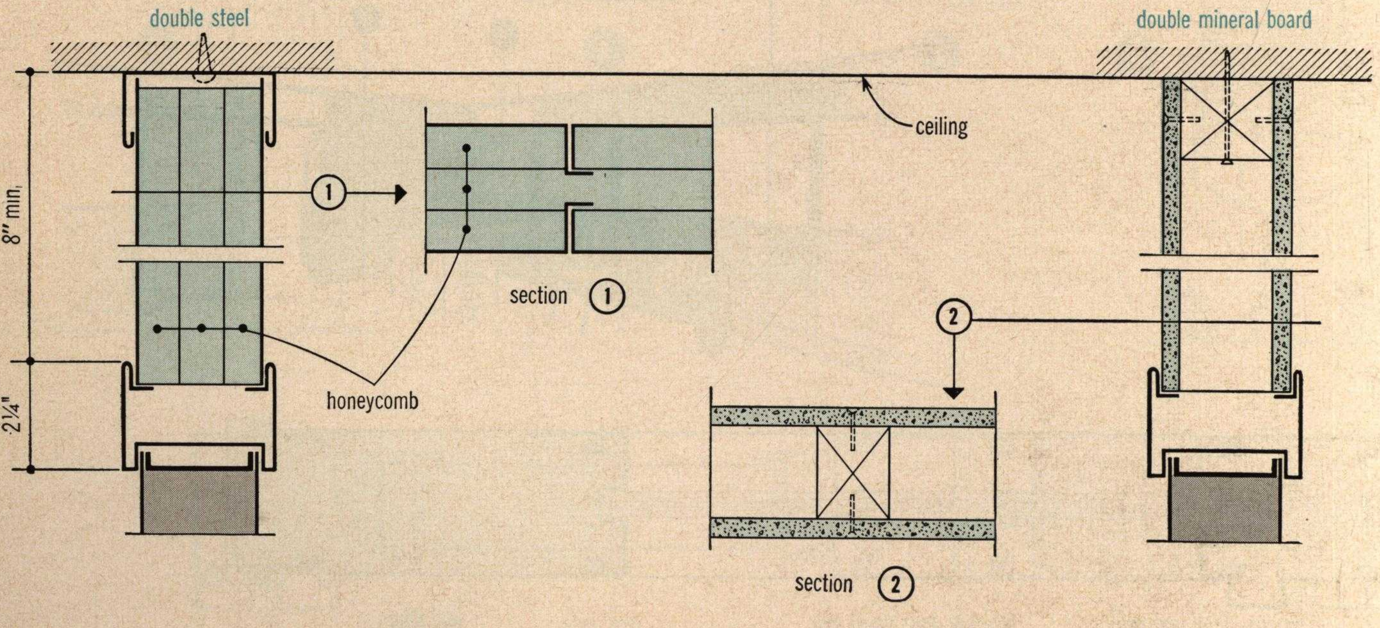
door width
81⅝" door height
finished floor
⅝"
42"
24"
10½"
12"
10½"
64⅞"
⅝"
34"
6"
solid door
steel & glass
solid door louver
steel & glass louver
glazed railing gate
railing gate

wickets, grilles and sliding sash



7'-2"
42"
speak hole
hand hole
hinged wicket
grille hinged or fixed
sliding sash

top fillers



double steel
double mineral board
ceiling
8" min.
2¼"
①
section ①
honeycomb
②
section ②

specifications

partitions types F 2 3/8 and F3

general

Scope of Work Furnish and erect complete "Flex-Wall" Flush Type F-2⅜ or F-3 Steel and Glass or All Steel Partitions as manufactured by the American Sanitary Partition Corp., Long Island City, N. Y.

Shop Drawings Detail shop drawings indicating plans, typical elevations, hardware, finish, special conditions and construction shall be submitted to the architect in triplicate for approval before proceeding with the work.

Unit Sizes Panels shall be from 24" to 60" wide in multiples of 6"; cornice height shall be 7'-2", 8'-4" or 9'-2".

Materials All exposed steel shall be cold rolled furniture steel. Gauges specified are U. S. Standard.

Construction Face plates of Panels shall be laminated to a honeycomb core to form a solid uniformly strong panel. This Panel unit and horizontal rails shall be constructed so that extensions of different height units can be made in any straight or rectangular direction. Door units are interchangeable with panel units of similar size.

Finish All surfaces shall be chemically cleaned and finished with one coat of rust inhibitive primer and one finish coat of solid color, marproof, baked on enamel.

Installation Partitions shall be erected to be rigid, straight and plumb, securely anchored to floor and cornice. Ceiling braces shall be provided on runs of over 20 lineal feet, unsupported by crossruns. Top fillers shall be neatly scribed to any wall or ceiling variations and all cutouts or joints shall be reenforced properly.

Glass and Glazing Glass as specified shall be furnished as required. Removable glass mouldings, replaceable without use of screws shall be used for glazing panels and doors. Glass shall be embedded in metal sash putty colored to match partitions.

materials and construction

Bases Bases shall be 18 gauge steel, 6" high and adjustable to the floor variations and shall have provisions for electric wiring. Adjustable plinth shall be provided for the post section.

Panels Panels shall be of 20 gauge steel and completely flush with post and pilasters, reenforced with a 16 gauge channel laminated to a honeycomb filler of respective thickness to produce a solid, uniformly strong panel unit. This filler shall be made of 33 pound board, ¾" cells, and have a compression strength of 55 lbs. p.s.i.

Rails Rails and glass mouldings shall be of 20 gauge steel and of sloped design to prevent the accumulation of dirt and dust.

Posts Posts shall be of 18 gauge steel and designed to permit future changes; two, three or four way connections without disturbing the adjacent units. Post covers shall be of 18 gauge steel—snap on type.

end filler

End Filler shall be of Flush construction; set into wall channel and locked into position at post. Both wall filler plates and wall channel shall be of 20 gauge steel.

cornice and top filler

Cornice Cornice shall be of 16 gauge steel furnished in 12 foot lengths and corners. Reenforced joints insure true alignment and rigidity.

Top Filler Top filler where required shall be of ¼" double mineral board construction. Double steel top filler if specified shall be 20 gauge steel, single line joints uniformly spaced.

doors

Door Frames Door frames shall be of 16 gauge steel adjustable to floor variations, and interchangeable with panel units of similar size.

Doors Doors shall be Flush 1¾" thick with 18 gauge stiles and 20 gauge steel panels laminated to a honeycomb core. Each door shall be properly mortised and reenforced for all hardware.

Hardware Standard hardware shall consist of one pair of 4½" x 4½" ball bearing template butts painted and a Schlage A-51-WD Lockset in a U. S. #10 Finish.

Transoms Fixed transoms are standard on all partitions over 7'-2" high. Movable transoms are center pivoted friction type with transom catch. All transoms are constructed of 18 gauge steel moulding designed to match general construction.

railings

3'-6" (no glazing)

Furnish and erect complete Flex-Wall Type Railing, 3'-6" high, Type F-2⅜ or F-3 as manufactured by American Sanitary Partition Corp., Long Island City, N. Y.

Panel, Post and End Filler construction and design shall be as specified for and to include the following features:

handrail

Handrail shall be of 18 gauge steel designed to harmonize with the adjacent members.

floor shoe

Floor shoes shall be concealed except on gate posts where additional floor support is required.

gate

Gates shall be of 1" thick flush construction set 6" off floor 34" high and 2" from top of panels.

hardware

Hardware shall consist of a pivot type spring hinge, adjustable, single or double acting and a secret gate latch.

5'-6" glazed

Furnish and erect complete Flex-Wall Glazed Railing 5'-6" high, Type F2⅜ or F-3 as manufactured by American Sanitary Partition Corp., Long Island City. N. Y.

Panel, Post and End Filler Construction and Design shall be as specified for each respective type and to include the following features:

Solid panel height shall be 42", glass height 24", all posts shall be finished with a 16 gauge steel cap.

floor shoes

Floor shoes shall be concealed except on the gate post where additional floor support is required.

gates

Gates shall be 1¾" thick set 6" off floor; all railing gates shall swing in.

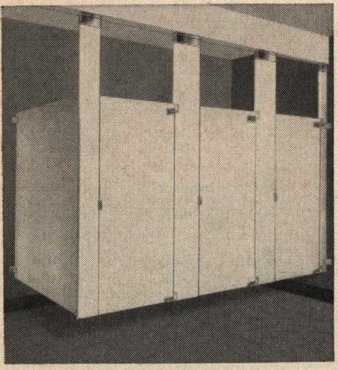
hardware

Hardware for glazed railing gates shall consist of Hydraulic Hinges, adjustable single acting and a Schlage Lockset No. A-51-WD.

glass

Minimum glass thickness for this type shall be 7/32" thick and the exposed top edge shall be ground smooth.

toilet partitions

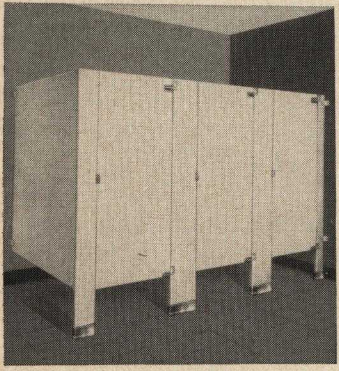


type "CS", ceiling stile

The latest type of toilet partitions to be developed is the suspended Ceiling Stile model. This outstanding development creates an absolutely unobstructed floor area, simplifying cleaning and lowering the continuous cost of maintenance.

Stiles are suspended from the ceiling and are fastened to structural members provided by others. Rigid installation is assured because panels and stiles are connected with three concealed tension cleats.

Stiles, panels and doors are all of flush design, finished with high quality baked-on enamel in a selection of modern colors.

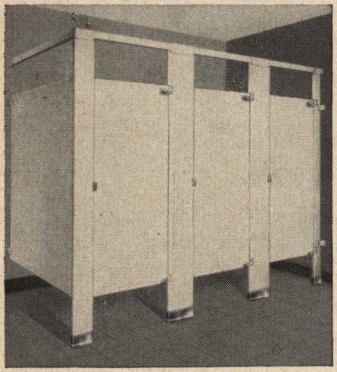


type "FS", floor stile

This type of partition is a reflection of modern building design. The elimination of headrails adds to its modern appearance. Posts have been replaced by flush stiles which eliminate dirt catching corners and minimize maintenance operations.

Stiles are extremely rigid. They are fastened to the sub-floor, provided by others, and are connected to panels with three concealed tension cleats.

Stiles, panels and doors are all of flush design, finished with high quality baked-on enamel in a selection of modern colors.



type "FF", full flush

The Full Flush model is the most popular type of toilet partition available today. It reflects the modern appearance of more expensive types, yet does not require special structural provisions to effect a rigid installation. Flush stiles minimize maintenance operations, just as on all expensive types.

The headrail bracing makes this model self-supporting, permitting installation in any desirable position. Stiles are fastened to the finished floor and are connected to panels with three concealed tension cleats.

This type is frequently used in conjunction with types "CS" and "FS" where headrail bracing is needed. Stiles, panels and doors are all flush, finished with baked-on enamel.

type "PL", plastic laminate

Toilet partitions surfaced with high pressure decorative laminated plastic are the latest development of modern materials and design for sanitary and attractive restrooms.

Our use of laminated plastic with its proven superiority to other more commonly used materials together with our many years of experience in the toilet partition industry has produced a toilet partition unit that offers more advantages and beauty than any other materials used to date.

Our design is developed from our metal partition line, incorporating all of the features required to produce a sound, rigid and lasting installation. To these important basic principles, we have added the permanence, beauty and warmth of laminated plastic thus making possible an economical unit which requires little or no maintenance.

These partitions are available in a wide variety of warm, glowing colors and patterns and will delight the architect and decorator with their beauty.

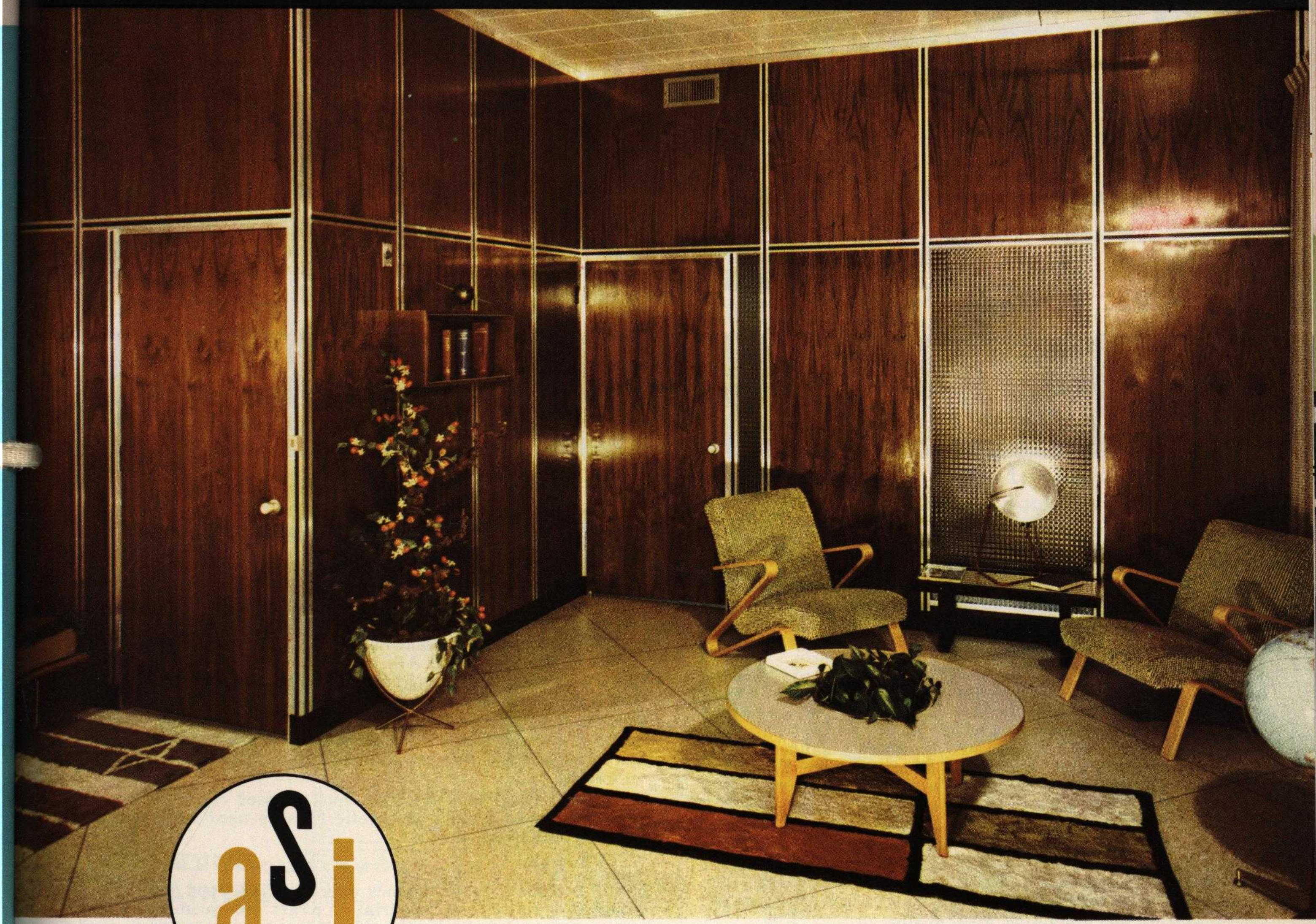
for further information consult toilet partition catalogue in section 22b

AMERICAN SANITARY PARTITION CORPORATION

37-03 21st STREET, LONG ISLAND CITY 1, NEW YORK, PHONE STILLWELL 4-5987

ARCHITECTURAL SYSTEMS, INC.

1045 COTTAGE GROVE, S. E., GRAND RAPIDS 7, MICHIGAN
In Canada: 136 Du Pont Street, Toronto, Ontario



aSi

Custom Line

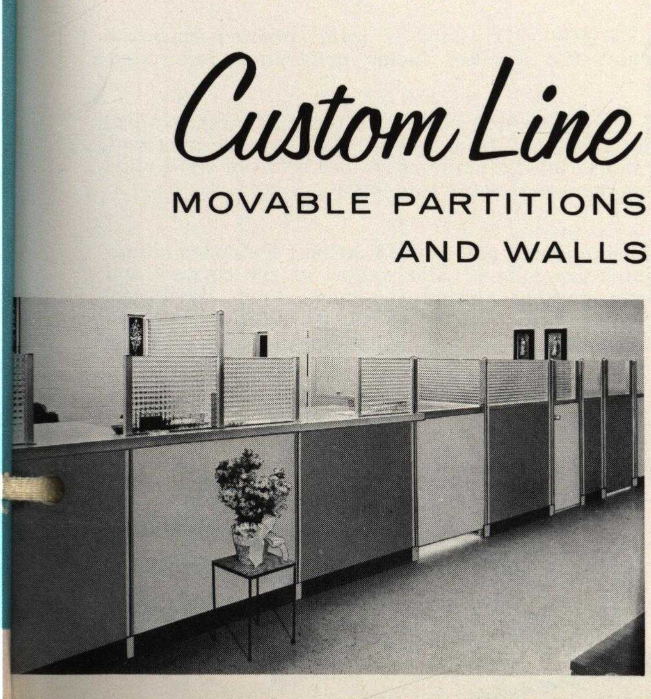
MOVABLE PARTITIONS AND WALLS

Architectural Systems' Custom Line is a complete and highly versatile system of movable partitions and walls that create beautiful and distinctive modern interiors at costs approximating those of conventional partitions. The system offers architects and building owners these unique advantages:

COMPLETE FREEDOM OF DESIGN—The extruded aluminum components of the Custom Line system have been developed by ASI to allow unlimited variations in floor layout and interior styling. Panel runs can start at any post. Partitions of varying heights can be simply and easily combined. The wide range of panel facings, finishes and core constructions available will fit virtually any requirement for appearance, durability, noise reduction and fire resistance.

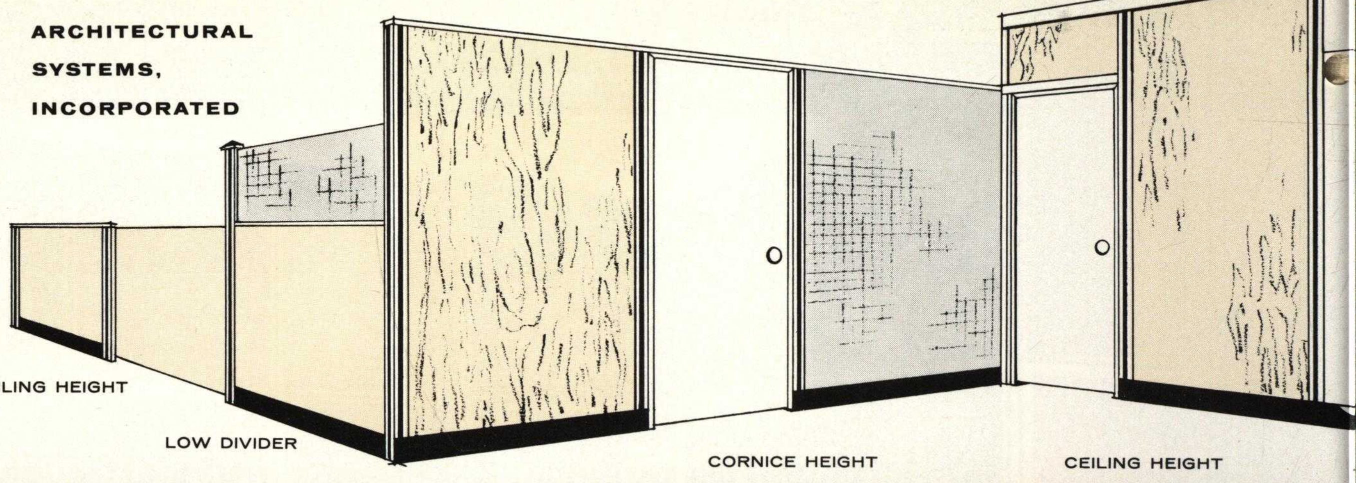
INTERCHANGEABILITY—Solid panels, glass panels and door units can be interchanged without moving adjacent panels and with 100% salvageability.

EASE OF INSTALLATION—The Custom Line's basic post design makes wall erection fast and economical. ASI's panel adjustment feature compensates for uneven floors and allows the partition runs to be squared up and levelled quickly and accurately.



At left, a typical Custom Line low divider partition with built-in counter. Panels are finished in a combination of modern pastel colors. Above, in color, a typical office interior with Custom Line ceiling height walls. Note the clean lines and conservative modern beauty achieved.

ARCHITECTURAL SYSTEMS, INCORPORATED



Custom Line CONSTRUCTION DETAILS

DIMENSIONS

Custom Line partitions and walls can vary from 42″ vertically to any ceiling height. Panel widths available from 12″ to 60″ in any 12″ increment. Special filler panels available for odd dimensions. All panels, regardless of facing or core materials, are 1¾″ thick.

ASI PANEL FACINGS

WOOD: Panels are faced with "A" grade hardwood veneers in a wide variety of wood types and grains. Any of three standard core constructions (see below) can be employed. Veneer facings are permanently laminated to the frame and core under pressure. Surfaces are thoroughly sanded, toned and sealed, nub sanded and filled where needed. The final synthetic dull gloss finish is scratch and mar resistant.

HARDBOARD AND PLASTIC LAMINATES: Hardboard facing ⅛″ thick is finished in a special semi-gloss paint, selected for its durability and ease of maintenance. ASI standard colors, recommended by leading color consultants, include Sandtone, Graylight and Softgreen. Special colors available on order. Plastic laminates also available in a wide range of colors, finishes and simulated wood grains.

STEEL: 22-gauge steel is laminated to the ASI honeycomb core and the panel encased in a 16-gauge "U" channel steel framing on all four edges. Surfaces are cleaned, primed, sanded and finished with synthetic enamel in any specified color. ASI recommends one of three standard colors — Sandtone, Graylight or Softgreen.

GYPSUM BOARD: Gypsum board facing ⅜″ thick is laminated to gypsum core spacers (see below) and finished with one coat of primer. ASI recommends that final finish be applied by others after installation of the panels.

ASBESTOS: Asbestos-cement board ⅛″ thick is laminated to any one of the standard ASI cores described below. Available factory finished in ASI standard synthetic colors — Sandtone, Graylight or Softgreen — or as specified.

VINYL-METAL LAMINATES: Available in a variety of textures and simulated wood grains. Vinyl offers a permanent facing material, highly resistant to abrasion, soil and chemical corrosion.

PRESSED CHIPWOOD: 1¾″ thick pressed chipwood board is used in solid panels. Synthetic finishes used the same as for HARDBOARD above.

ASI CORE CONSTRUCTIONS

HONEYCOMB: Panel frames of kiln dried wood have 1½″ stiles, 2½″ rails. Core material is Kraft honeycomb 1″ cells between expanded sheets. Specified facing is laminated to the core and frame.

GYPSUM: Fire resistant core is formed of two ⅜″ gypsum sheets between which gypsum spacers 3″ wide on 12″ centers are laminated. Selected facing is laminated to the outer core surfaces.

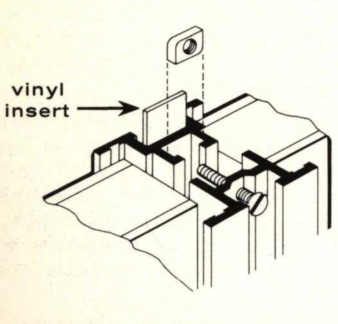
PRESSED CHIPWOOD: Core is solid, pressed chipwood board, to which the specified facing material is laminated.

GLASS PANELS

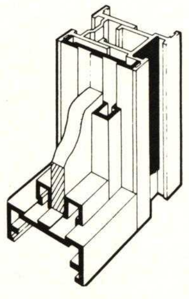
Any one of the many makes and patterns of architectural glass, in any thickness from ⅛″ to ²¹⁄₆₄″, can be specified. Glass is set in extruded aluminum frames between rigid vinyl stops without the use of screws or putty.

DOORS

Doors available to match panel specifications. Extruded aluminum door jams are mitered and welded at the corners and have synthetic gaskets around the door stops. Hardware, either supplied by ASI or otherwise furnished to specification, is factory installed.



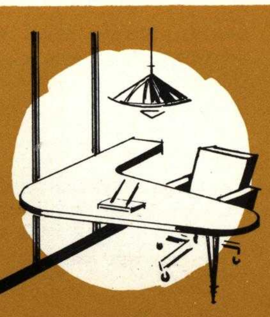
STANDARD POST ASSEMBLY

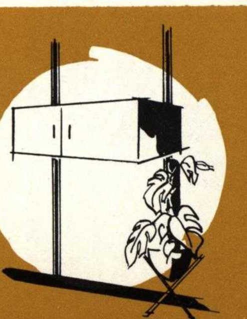


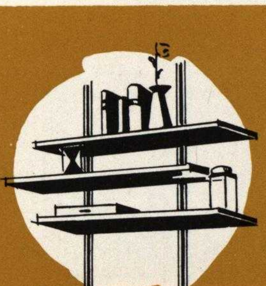
GLASS PANEL ASSEMBLY

Custom Line ACCESSORIES

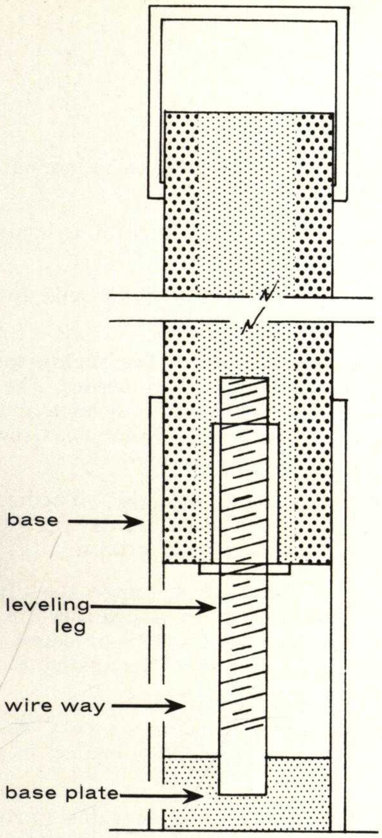
ASI will manufacture to order any one of several accessories such as the table-desk, wall cabinet and shelves illustrated. They are simply and securely attached to the Custom Line post assemblies without marring the panels in any way.





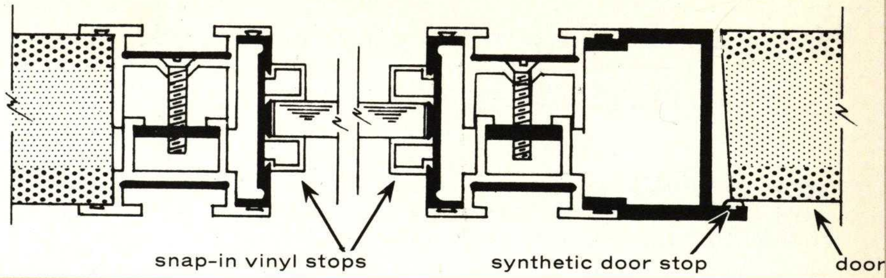


① CEILING CAP

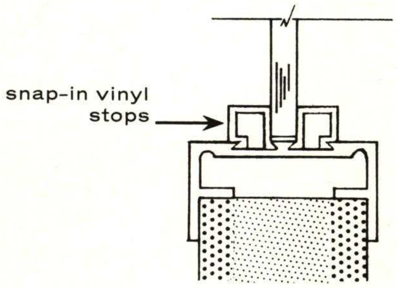

base
leveling leg
wire way
base plate

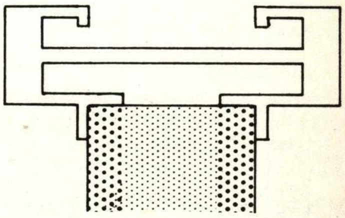
② BASE ASSEMBLY

⑤ GLASS AND DOOR JAMB ASSEMBLY


snap-in vinyl stops
synthetic door stop
door

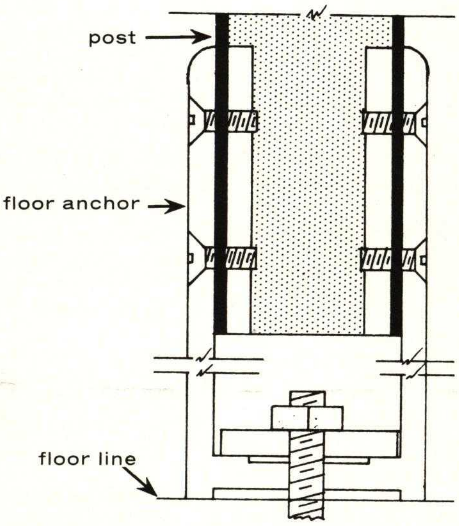
⑥ LOW DIVIDER GLASS


snap-in vinyl stops



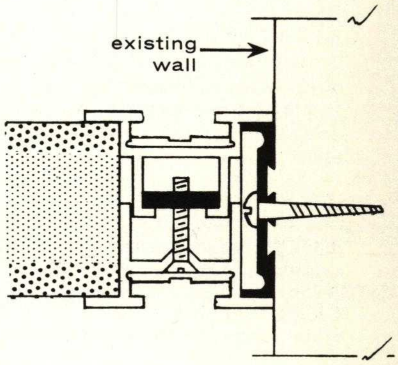
⑧ LATERAL STIFFENER

(cornice height only)


post
floor anchor
floor line

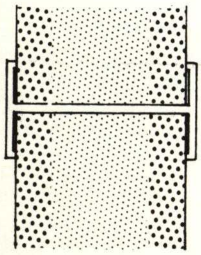
⑦ FLOOR ANCHOR

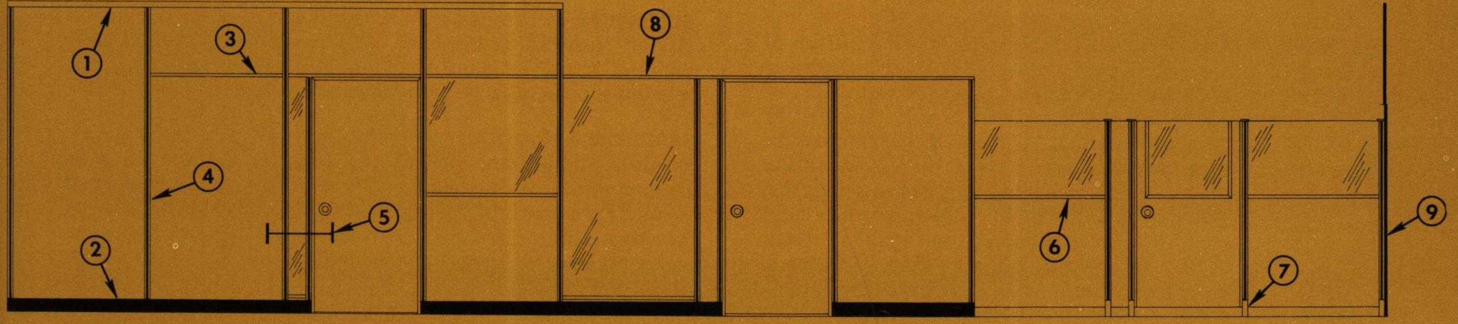
(low divider only)


existing wall

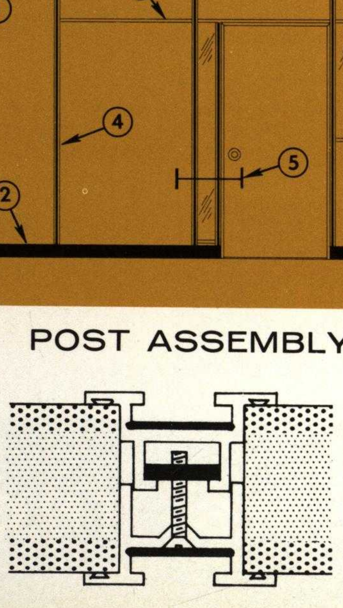
⑨ WALL ANCHOR

③ DIVIDING CHANNEL

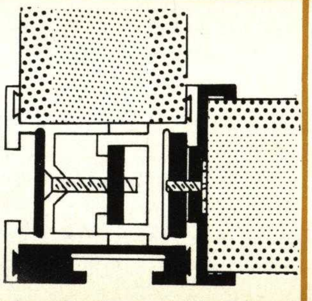




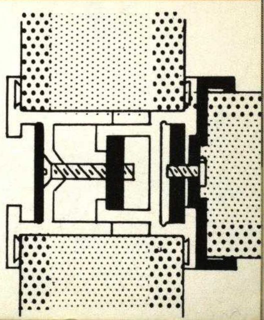
④ POST ASSEMBLY



2-WAY CORNER



3-WAY CORNER



MOVABLE PARTITIONS AND WALLS
specifications

SCOPE OF WORK — Furnish and install complete the "CUSTOM LINE" Movable Partition as manufactured by Architectural Systems, Inc., of Grand Rapids, Michigan.

SHOP DRAWINGS — Submit in accordance with requirements of standard and special conditions all shop drawings in triplicate, detailing panel type and sizes, floor layout, typical elevations, finish and other pertinent information for final approval before commencing fabrication.

PARTITION FRAMEWORK

Aluminum — All posts, glass channel, door jambs, ceiling cap, stiffener section and related accessories to be of 6063-T5 Alloy, Bright Mill Finish Extruded Aluminum. Anodizing treatment available to architect's specifications.

Posts — Standard posts (Patent Pending) shall consist of two extruded sections assembled with machine screw and eliptical nut drawn tightly over panel edge or glass channel. Vinyl insert to be provided to conceal bolt face and opposite face forming decorative strip. Recess post face to permit self hanging desk, cabinets and shelves with Standard ASI bolt and nut. Post to permit complete interchangeability of panel and door units without removing adjacent units. Each post shall provide for panel runs in 2, 3 or 4 directions.

Door Jamb — ASI aluminum extruded door jamb shall be mitered at top corners and welded from the inside so as to provide a structurally sound jamb and give a clean exterior appearance. Hinges shall be face mounted or milled into jamb to present flush appearance, as specified. Jamb shall accommodate 1¾″ thick door. Stops shall have a continuous vinyl bumper.

Glass Channel and Stops — Aluminum extruded glass channel and extruded vinyl glass stops shall be provided to accommodate glass in varying thicknesses from ⅛″ to 21/64″ without the use of screws or putty.

Ceiling Channel — Shall be extruded aluminum and shall allow for adjustment to compensate for uneven ceilings.

Module — Shall consist of modular units consistent with the building module. Panels available in 6″ increments. Panels 48″ center line to center line of post recommended, however most solid panel types available up to 60″ with some to 72″. Heights as specified.

PANEL TYPES

Wood Panels — Panels shall be 1¾″ thick. Core shall be of solid Pressed Chipwood, Kraft 1″ Cell Honeycomb between expanded sheets or a fire resistant Gypsum Core formed of two ⅜″ Gypsum sheets between which Gypsum spacers 3″ wide on 12″ centers are laminated. Face Veneers shall be "A" grade specially selected for architectural adaptation with respect to cutting lengths, uniformity in color, figure and grain character, and shall be Book Matched. High quality "B" grade veneers, random selected with intentional mismatched, dimensioned faces at less cost. Specie of wood to be selected and sample submitted.

Hardboard — Hardboard facing ⅛″ thick to be laminated to one of the cores specified above.

Asbestos — Asbestos cement board ⅛″ thick to be laminated to one of the Standard ASI Cores.

Pressed Chipwood — Panel shall be 1¾″ thick solid Pressed Chipwood Board.

Wood Finishes — All surfaces are to be thoroughly sanded, toned, sealed, nub sanded and filled where needed. The final finish is a synthetic dull gloss finish and is scratch and mar resistant. ASI standard colors include Sandtone, Greylight and Softgreen. Special colors available on order.

Plastic Laminates and/or Vinyl-Metal Laminates — Facing to be laminated to solid Pressed Chipwood Core. Available in a variety of textures and simulated wood grains.

Steel Panels — Panel to be made of 22-gauge steel facing laminated to the ASI Honeycomb Core and encased in a 16 gauge "U" channel steel framing on all four edges. Also available with face of 26 gauge steel laminated to ASI Pressed Chipwood Core.

Steel Finishes — Surfaces are to be thoroughly cleaned, primed, sanded and finished with synthetic enamel in specified colors.

Glazed Panels and Glazing — Glass for Movable Partitions shall be furnished and installed by partition manufacturer of design, quality and thicknesses as specified. Glass shall be set in Standard ASI rigid vinyl glass stops without the use of putty or screws and shall accommodate glass thicknesses from ⅛″ to 21/64″ or single panel materials of similar thicknesses.

Doors — Doors shall be 1¾″ thick in widths as specified in wood or steel. All doors shall be properly worked for hinges, locks or passage sets and door check. Doors available with louvered or glazed opening as specified. Door units with glazed sidelight or side panel to conform to selected module.

HARDWARE — Hardware to be as specified under hardware heading, to be furnished by partition contractor or hardware supplier. Hardware to be installed by partition contractor. If supplied by other than partition contractor butts and lock set templets to be forwarded to partition contractor for installation and cut out. Wood Doors to have 1½ pairs of 4 by 4 butts.

ELECTRICAL — Provision for lay-in wiring shall be made in wiring raceway at the base, door jambs, cornice and ceiling channel. Provision shall be made for conduit raceways, switch and plug outlets in panels where required.

ERECTION — Partitions shall be erected in a rigid manner, straight and plumb, with all horizontal lines level. They shall be mounted over finished flooring. All joints shall be perfectly membered and tight fitting. All hardware shall be in proper working order.

CLEANING — Thoroughly clean panels and posts. Replace any damaged or defective work. All rubbish and cartons shall be removed and the job left broom clean. Cleaning of glass and washing are to be done by others.

ARCHITECTURAL SYSTEMS, INC.

1045 COTTAGE GROVE, S. E., GRAND RAPIDS 7, MICHIGAN • CHerry 1-3456

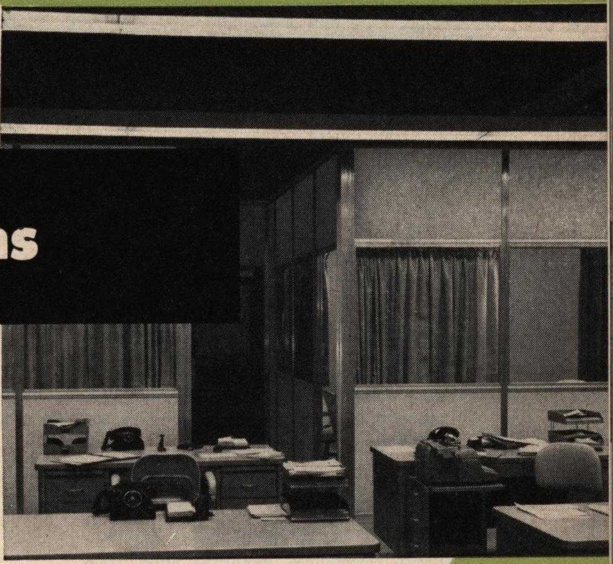
In Canada: 136 DuPont Street, Toronto, Ontario • WAlnut 4-7324

22a
Ca

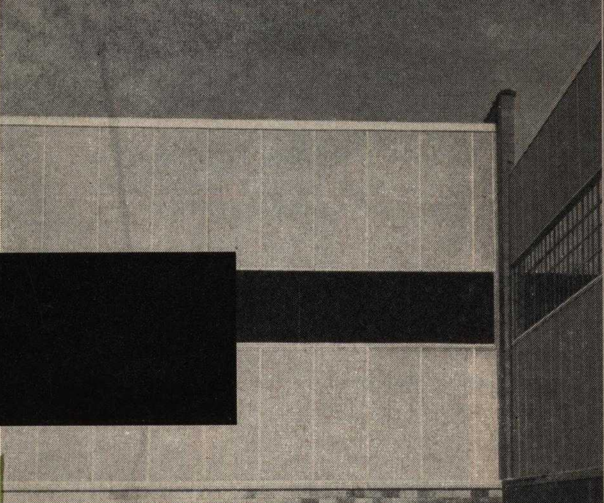
AIA FILE NO. 17-A

EXTRUDED ALUMINUM SECTIONS

keyline partitions



CAPITOL BATTENS



curtain walls

Division of
HAUSMAN STEEL COMPANY

CAPITOL BATTENS _ _ _ for KEYLINE PARTITIONS CURTAIN WALLS

CAPITOL BATTENS for KEYLINE PARTITIONS

1. **AVAILABILITY**—adequate stocks permit prompt shipment—conveniently packaged for job storage or field distribution.
2. **ERECTION**—made easy by having the proper temper for spring fitting of parts and panels.
3. **APPEARANCE**—all visible parts have an anodized finish.
4. **FLEXIBILITY**—of erection is unexcelled since battens and panels can be field sawed.
5. **FEATURES**—
   (A) movability or permanence.
   (B) completely enclosed raceways wherever needed.
   (C) two piece ceiling combination allows for ease of erection and for differences in floor to ceiling height.
   (D) 1 9/16", 1 1/8" or 11/16" panels may be used.

CAPITOL BATTENS for CURTAIN WALLS

—Designed for use with panels of 1 1/8", 1 9/16" or 2" thickness.

EXTRUDED ALUMINUM BATTENS—Corner Combinations —Angles—H-Sections—Rosettes—All extruded parts plain mill finish.

FASTENERS—4 designs using galvanized metals.

Z-Angles and Flashings—using sheet aluminum.

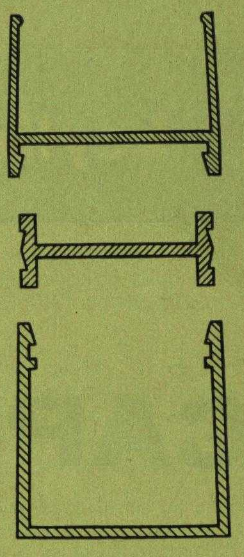
SELECT YOUR OWN PANELING

from a Number of Proven Panel Manufacturers, such as:

Cemesto Board—by The Celotex Corp.
Thermo-Bord—by The Philip Carey Mfg. Co.
Kaylo-Panels—by The Owens-Illinois Plywood Co.
Asbestone Panels—by The National Gypsum Co.
Transitop Panels—by The Johns-Manville Sales Corp.
Simpson Insulating Panel Board—by Simpson Logging Company,
Or any paneling of your choice.

Custom designed parts are also available.

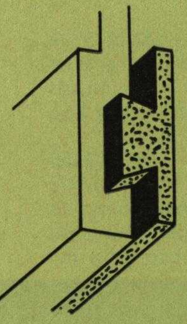
exclusive features



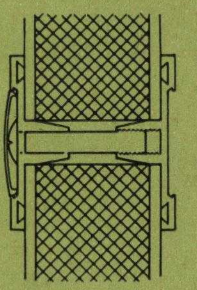
Snap-fit anodized extrusions for Keyline Partitions.

Keyline Raceway interchangeable as a base or wherever a Raceway is needed.

patents pending

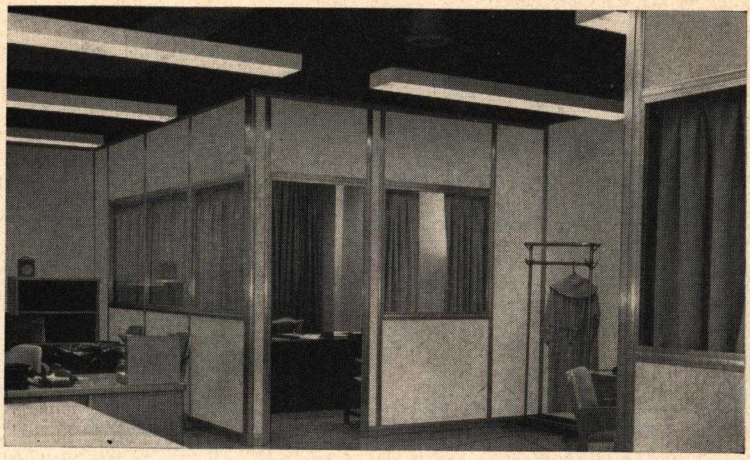


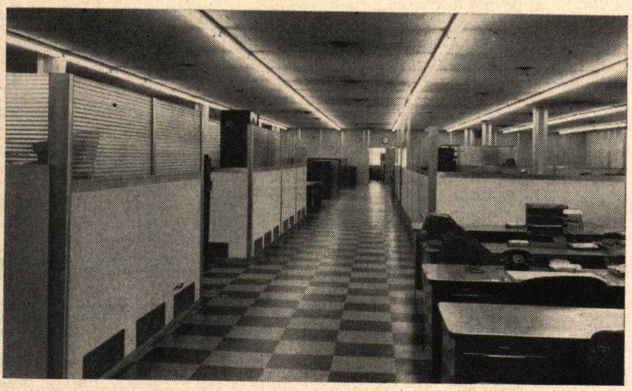
EXTRUDED NEOPRENE GASKET—this OVERSIZED GASKET is a SLIP-FIT—easily installed in the field. No stretching necessary, designed for weather-proofing exterior curtain walls; eliminates rattle when used with GLASS-STOP and DOOR JAMB in partitioning.



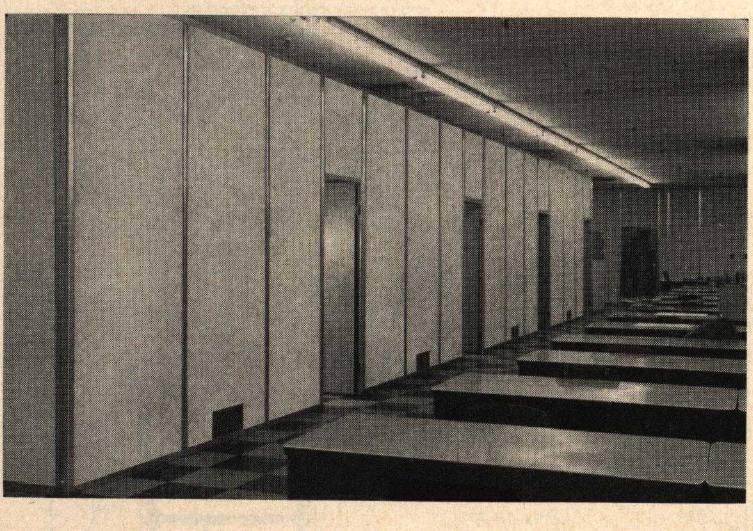
SNAP-CAPS cover bolt heads in batten (when desired) in curtain walls or partitions.

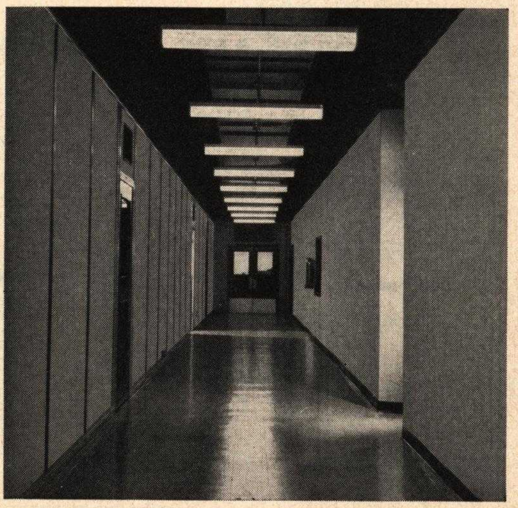
keyline partitions





Typical installations using Capitol Battens with Cement Asbestos Insulating Panels. The design may be of your own choice—or let us help you.



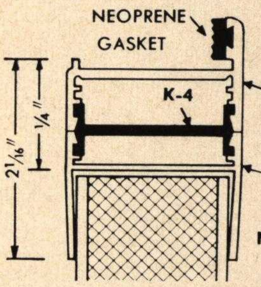


scale: 6″=1′-0″
(approx.)

keyline partition details

(For Panel Thickness of 1⁹⁄₁₆″, 1⅛″, and 1¹⁄₁₆″.)

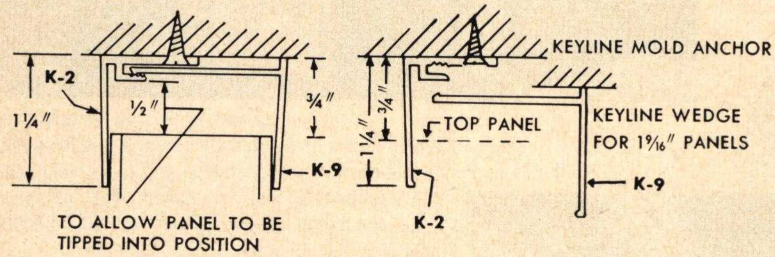
7 KEYLINE DOOR JAMB



NEOPRENE GASKET
K-5
K-4
K-16
2¹⁄₁₆″
¼″

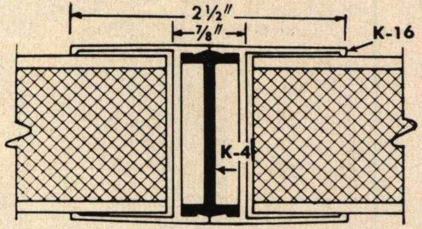
NOTE: Door Jamb mitered for 2′-8″ or 3′0″ x 7′0″ doors

1 & 3



K-2
1¼″
½″
¾″
K-9
TO ALLOW PANEL TO BE TIPPED INTO POSITION
KEYLINE MOLD ANCHOR
¾″
1¼″
TOP PANEL
KEYLINE WEDGE FOR 1⁹⁄₁₆″ PANELS
K-9
K-2

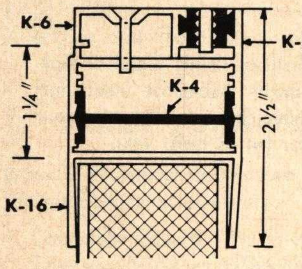
KEYLINE ANCHOR WEDGE COMBINATION OR BUTT MOLDINGS



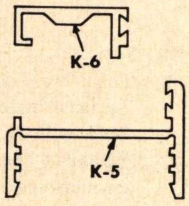
5 KEYLINE BATTEN COMBINATION

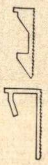
6 KEYLINE GLASS STOP

(Glass Thickness ⅛″ and ³⁄₁₆″)



K-6
K-5
K-4
1¼″
2½″
K-16

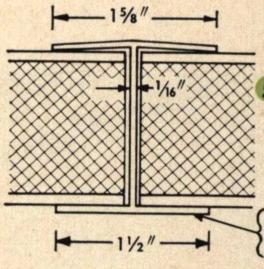




K-15 for 1⅛

K-20 for 1¹⁄₁₆

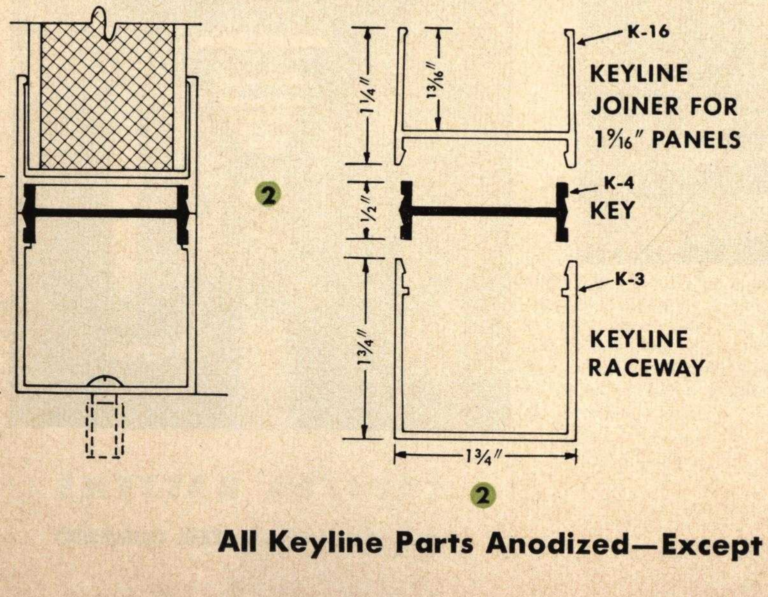
Filler Strip for Shadow-Line effect to be used with K-16 Keyline Joiner



1⅝″
¹⁄₁₆″
1½″
D-350 (1⅛″)
D-375 (1⁹⁄₁₆″)

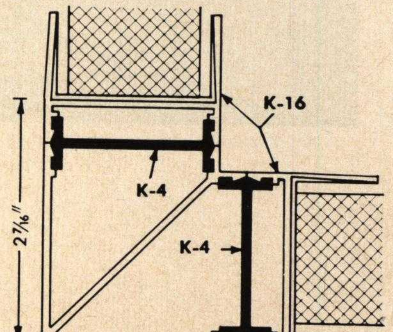
5 OPTIONAL BATTEN DETAIL

KEYLINE BASE COMBINATION



2⁵⁄₁₆″
2
K-16
1¼″
1³⁄₁₆″
KEYLINE JOINER FOR 1⁹⁄₁₆″ PANELS
K-4
½″
KEY
K-3
1¾″
KEYLINE RACEWAY
1¾″
2

4 KEYLINE CORNER



K-16
K-4
K-4
2⁷⁄₁₆″
K-10

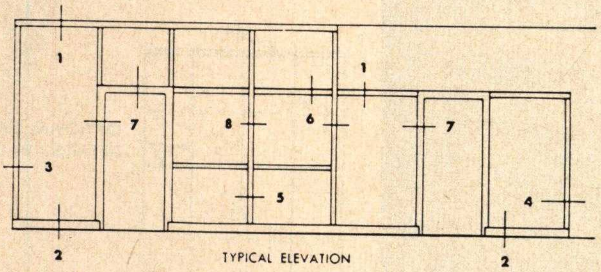
All Keyline Parts Anodized—Except K-4, K-15 and K-20

alternate partition details

(designed for 1 9/16 panels only)

The elevation below shows typical conditions found in ceiling-high and door-high partitions.

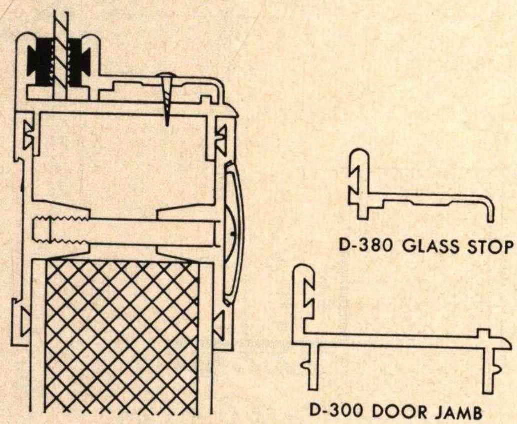
Essential details include attachments to floor, ceiling, and wall; door jamb and head; window section; corner.


1
1
7
8
6
7
3
5
4
2
2

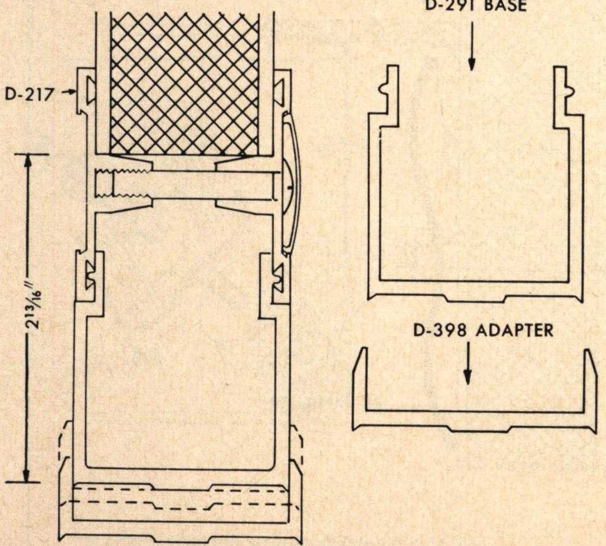
TYPICAL ELEVATION

8 GLASS STOP ASSEMBLY

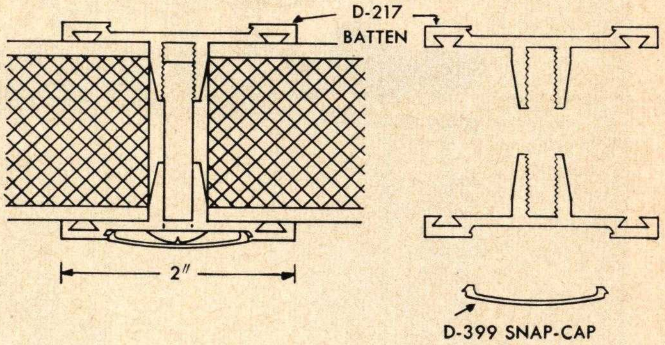
(Glass Thickness 1/8″ to 5/16″)


D-380 GLASS STOP
D-300 DOOR JAMB

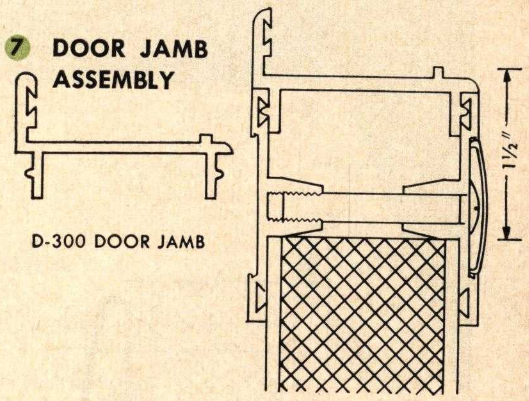
2 BASE ASSEMBLY


D-217
2 13/16″
D-291 BASE
D-398 ADAPTER

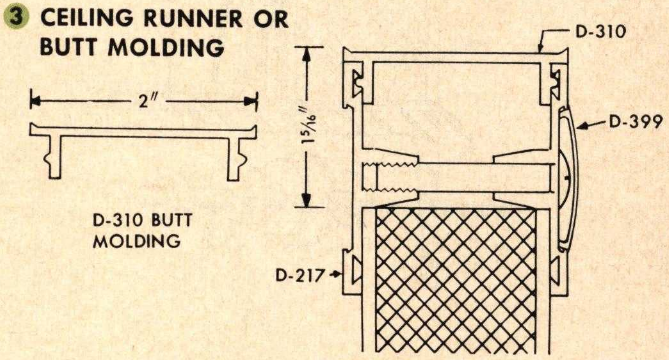
5 BATTEN COMBINATION


D-217
BATTEN
2″
D-399 SNAP-CAP

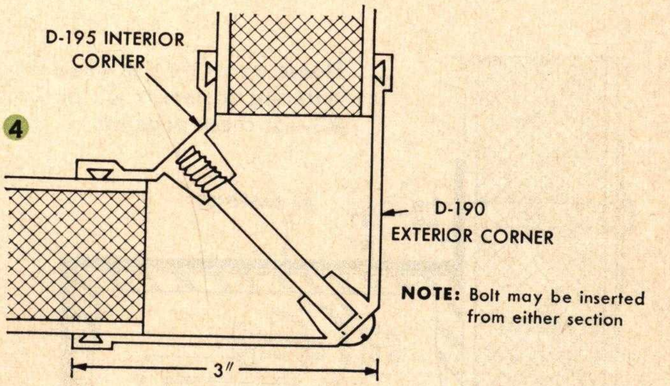
7 DOOR JAMB ASSEMBLY


1 1/2″
D-300 DOOR JAMB

1 & 3 CEILING RUNNER OR BUTT MOLDING


D-310
2″
15/16″
D-399
D-310 BUTT
MOLDING
D-217

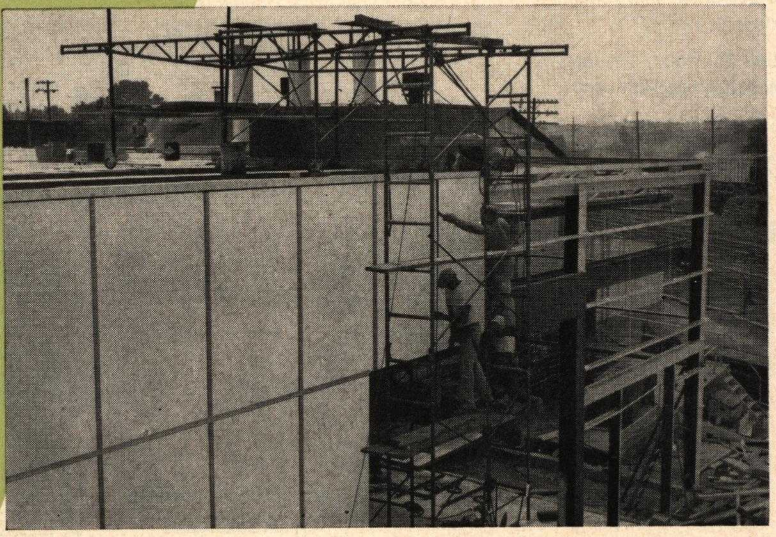
4

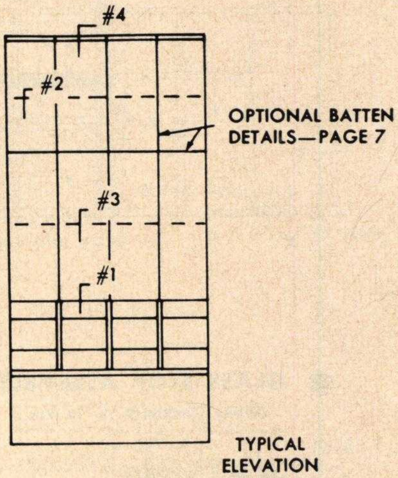

D-195 INTERIOR
CORNER
D-190
EXTERIOR CORNER
3″

NOTE: Bolt may be inserted from either section

The above partition parts plain mill finish.

curtain walls

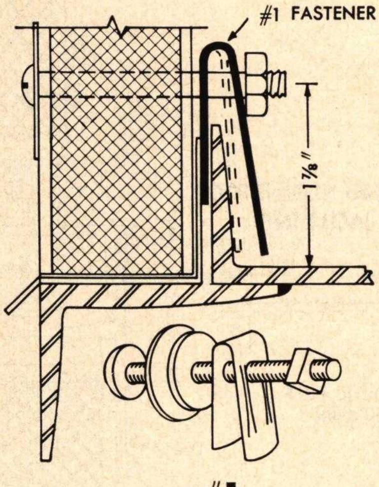




#4
#2
#3
#1
OPTIONAL BATTEN DETAILS—PAGE 7

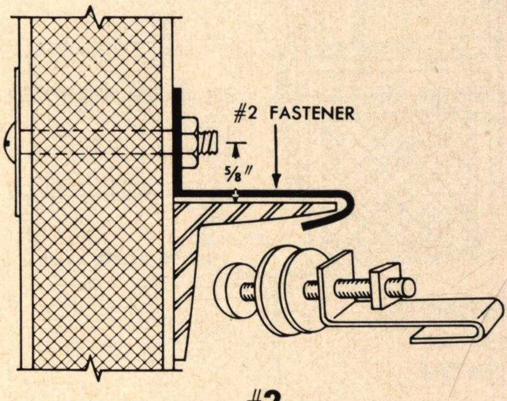
TYPICAL ELEVATION

fasteners



#1 FASTENER
1⅞"

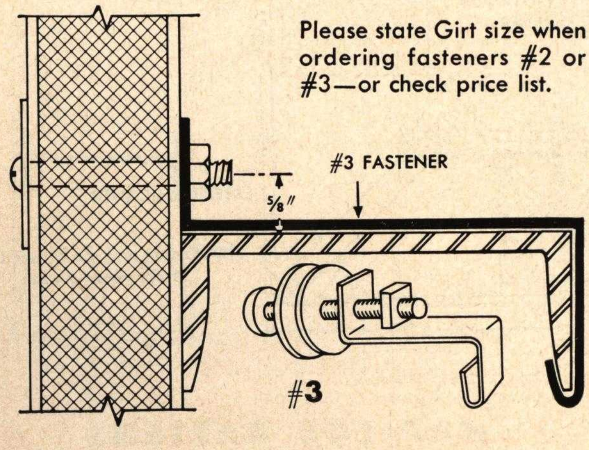
#1



#2 FASTENER
⅝"

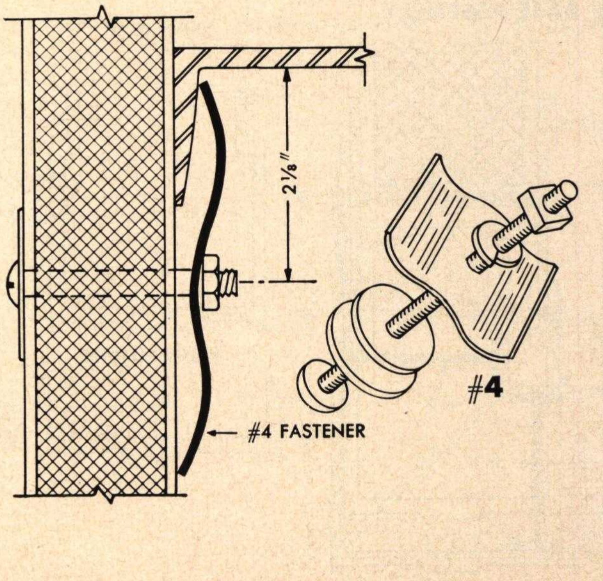
#2

Please state Girt size when ordering fasteners #2 or #3—or check price list.



#3 FASTENER
⅝"

#3

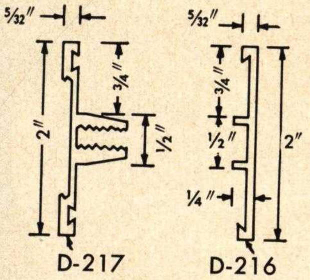


2⅛"
#4 FASTENER

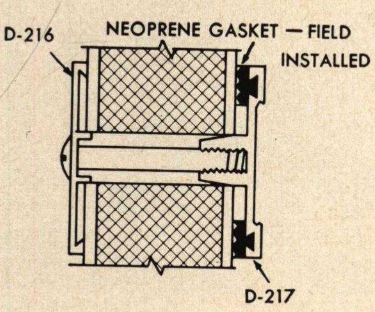
#4

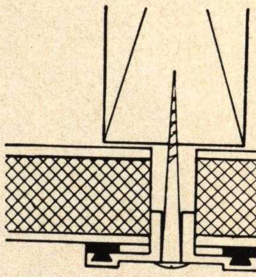
optional batten details

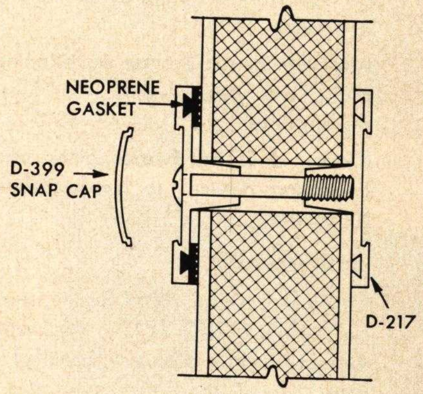
scale: 6″=1′-0″
(approx.)

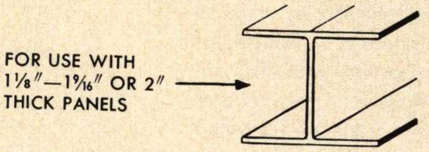

5⁄32″
2″
3⁄4″
1⁄2″
D-217
5⁄32″
3⁄4″
1⁄2″
2″
1⁄4″
D-216

NOTE: All curtain wall extrusions are *plain* mill finish.

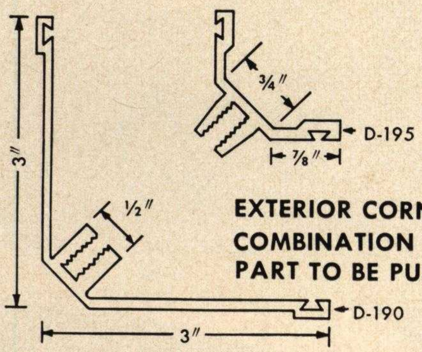

D-216
NEOPRENE GASKET — FIELD INSTALLED
D-217


BATTEN WITH WOOD BACKING

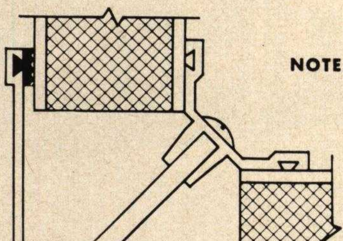

NEOPRENE GASKET
D-399 SNAP CAP
D-217


FOR USE WITH 1⅛″—1⁹⁄₁₆″ OR 2″ THICK PANELS

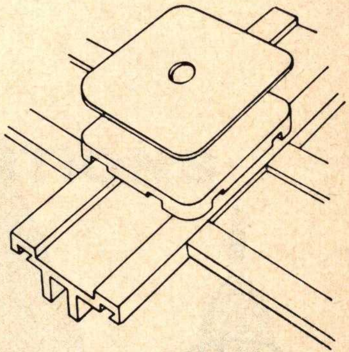
EXTRUDED H-SECTION


3⁄4″
D-195
7⁄8″
3″
1⁄2″
D-190
3″

EXTERIOR CORNER BATTEN COMBINATION (STATE WHICH PART TO BE PUNCHED)



NOTE: Bolt may be installed from either side.


ROSETTE
4-WAY, 3-WAY OR 2-WAY

For additional curtain wall accessories such as flashings, U-Bars, etc., write for our price catalog No. 5.

CAPITOL BATTENS • keyline partitions • curtain walls

short form specifications

keyline partitions

Battens, Base, Butt Moldings, Door Jambs, Corner Combinations and Glass Stop shall be as produced by Capitol Battens, 1408 Fuller St., Lansing, Michigan. Extruded from 63ST5 Aluminum Alloy with anodized finish and used with either 1⁹⁄₁₆″, 1⅛″ or ¹¹⁄₁₆″ panels as specified by the architect.

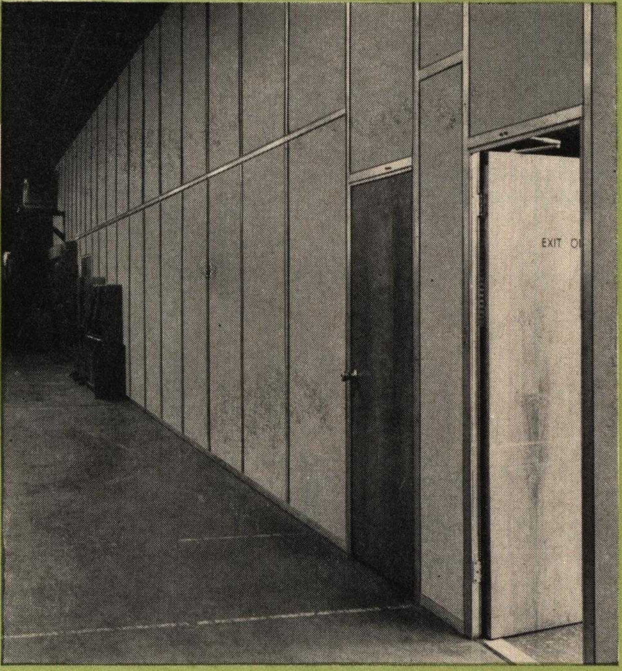
Alternate or screw type partitioning plain mill finish—and for 1⁹⁄₁₆″ panels only.

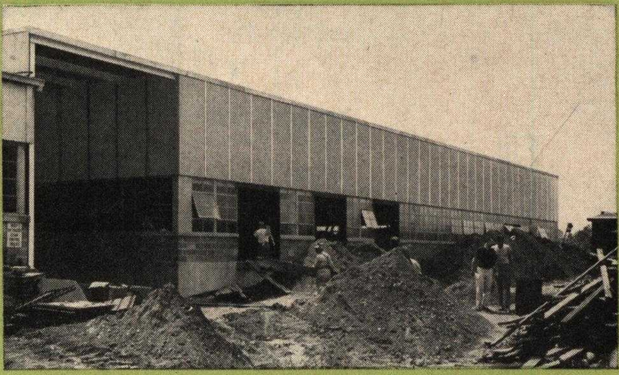
(Doors, door hardware, glass and anchoring devices to be furnished by others.)

curtain walls

PANELS—Curtain Wall Panels shall be (1⅛″), (1⁹⁄₁₆″), (2″) in thickness, 4-ft. or less in width, and (specify) in length.

ACCESSORIES—Panels shall be (vertically) (horizontally) applied to framing and fastened to flanges of girts with appropriate clips, fasteners, bolts and washers. Vertical and horizontal joints shall be covered with extruded aluminum battens with plain mill finish and extruded neoprene gasket—all as produced by Capitol Battens.



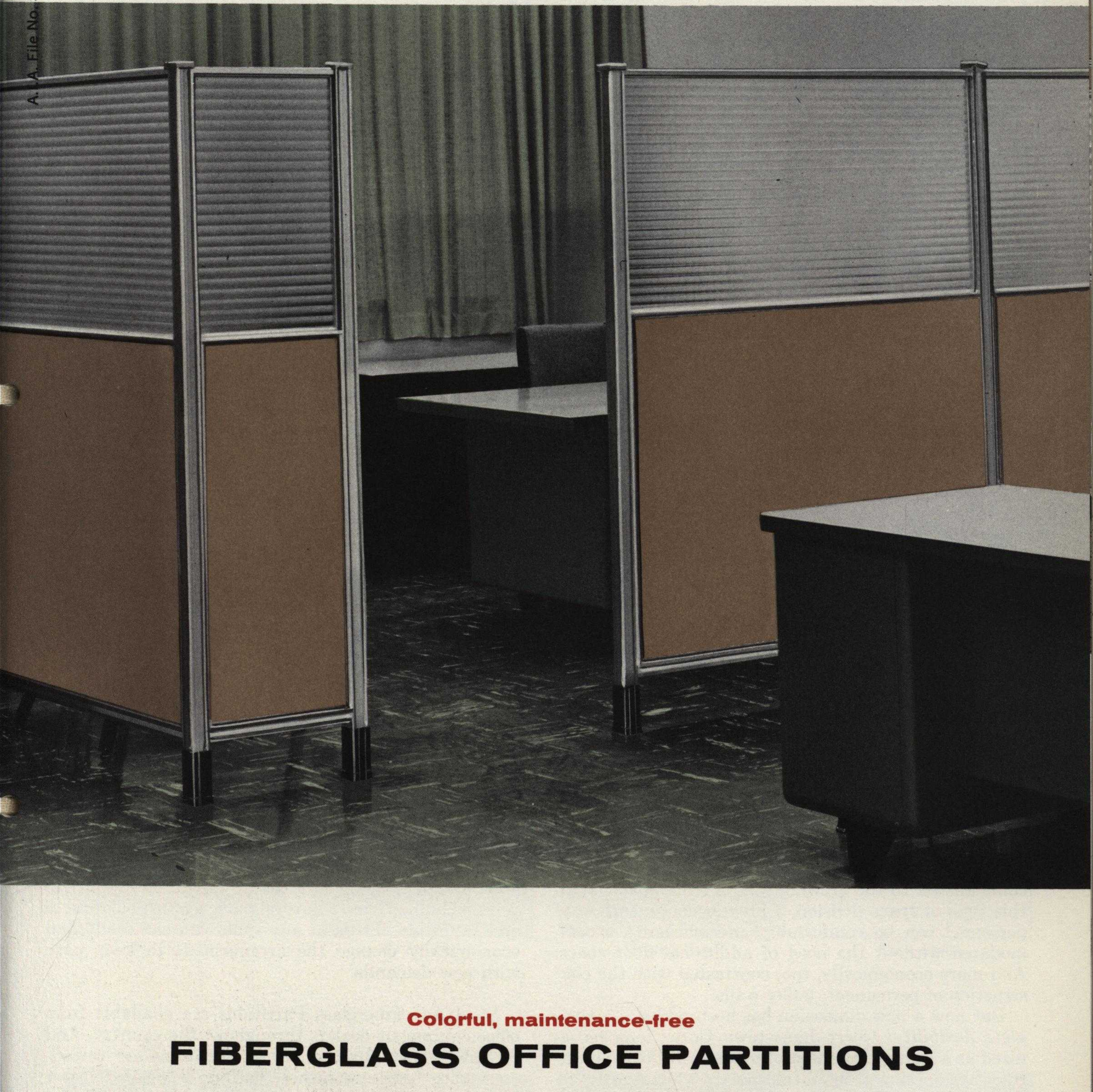


Erection drawings showing proper installation for either Partitions or Curtain Walls will be furnished on request. Field service to show proper methods of layout and installation is available.

Capitol Battens

Division of HAUSMAN STEEL COMPANY

1408 Fuller Street Lansing, Michigan
Mail P. O. Box 44
IVanhoe 9-4192



Colorful, maintenance-free

FIBERGLASS OFFICE PARTITIONS

MODULAR • MOVABLE • FREE-STANDING

CORRY
JAMESTOWN CORPORATION
CORRY, PENNSYLVANIA

STEEL AGE OFFICE PARTITIONS

- **A complete range of panels in carefully selected colors, heights and widths.**
- **Completely prefabricated panels and posts ready for installation. No plastering, painting or carpentry work.**
- **No change in heating, lighting or air conditioning systems.**
- **Quickly installed by regular maintenance personnel without disrupting office routine.**
- **All connections completely hidden from sight, and no unsightly plug buttons.**
- **Changes in arrangement can be made at any time without reconditioning expenses.**
- **All parts 100 per cent reusable.**
- **A lifetime of handsome, like-new appearance with little or no maintenance.**

a new dimension in space

With today's emphasis on attractive and efficient offices, free-standing, movable partitions provide a welcome answer to the growing cost of office space. With this type of space division, a greater concentration of personnel can be comfortably and efficiently accommodated without the need of additional floor space. And more economically, too, contrasted with the construction of permanent, bulky walls.

But now a new dimension has been added . . . *complete flexibility!* Corry-Jamestown Corp., long recognized as a leading manufacturer of quality office furniture, has developed the revolutionary Steel Age *Fiberglass* Office Partition. Colorful, durable and completely flexible, this unique partition line combines the first truly universal post-and-panel design with the finest in modern materials.

Thanks to the flexibility of new *Steel Age* Partitions, you can divide office space to meet virtually any work plan, create economical areas of individual and group privacy, and provide a natural baffle against office noise and confusion. Then, at any time, you can easily and economically change the arrangement to keep pace with new demands.

Steel Age Fiberglass Partitions are available from office equipment dealers throughout the country. And for investment purposes, these partitions are considered office furniture rather than an addition to your building.

Only Steel Age Fiberglass Partitions offer all these features . . .

CORRY
JAMESTOWN CORPORATION
CORRY, PENNSYLVANIA

Exclusive COLOR BEAUTY IN PARTITIONS

Interesting and subtle textures of fiberglass, the natural beauty of satin finished aluminum and discriminate color selection make these the most attractive partitions available. Panel colors were especially chosen by decorators to harmonize with modern trends in office decor, and with the combined colors offered in the complete line of Corry Jamestown office furniture.

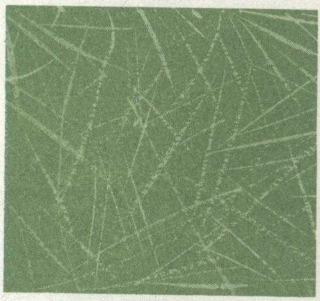
These select colors, molded through the entire cross-section of the fiberglass sheet, are permanent and stainproof. And from this depth comes a beauty and lustre impossible to obtain with ordinary painted surfaces. Contrasting or complementary colors can be chosen for each side of the partition or door panel so that varying color schemes can be used by adjacent departments sharing a common panel wall.

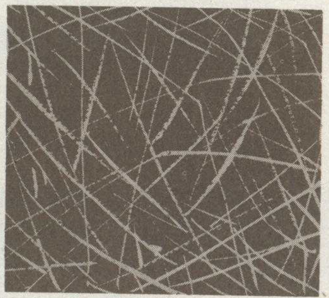
Color selection and modular flexibility of these finely crafted panels permit easy blending into any setting for beauty combined with efficiency.

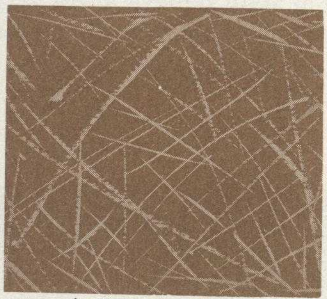
Beauty that lasts . . . indefinitely

When you specify these exclusive Corry Jamestown fiberglass partitions, you assure a lifetime of worry-free, care-free service. For the rugged construction of framing materials is matched by the lasting qualities of the fiberglass itself.

Standard Colors for panels and doors


Surf Green

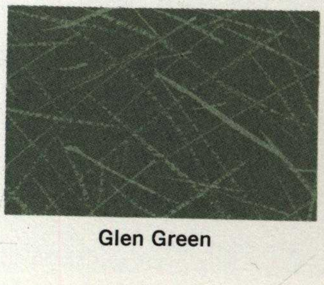

Birch Gray

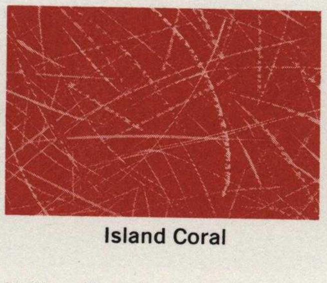

Harvest Tan

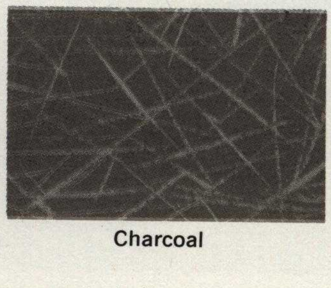
Smooth-textured

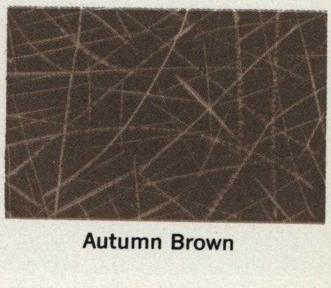
Shell White

Standard accent colors for doors


Glen Green


Island Coral


Charcoal


Autumn Brown

For special colors, consult the Corry Jamestown representative, or write to Corry, Pa.

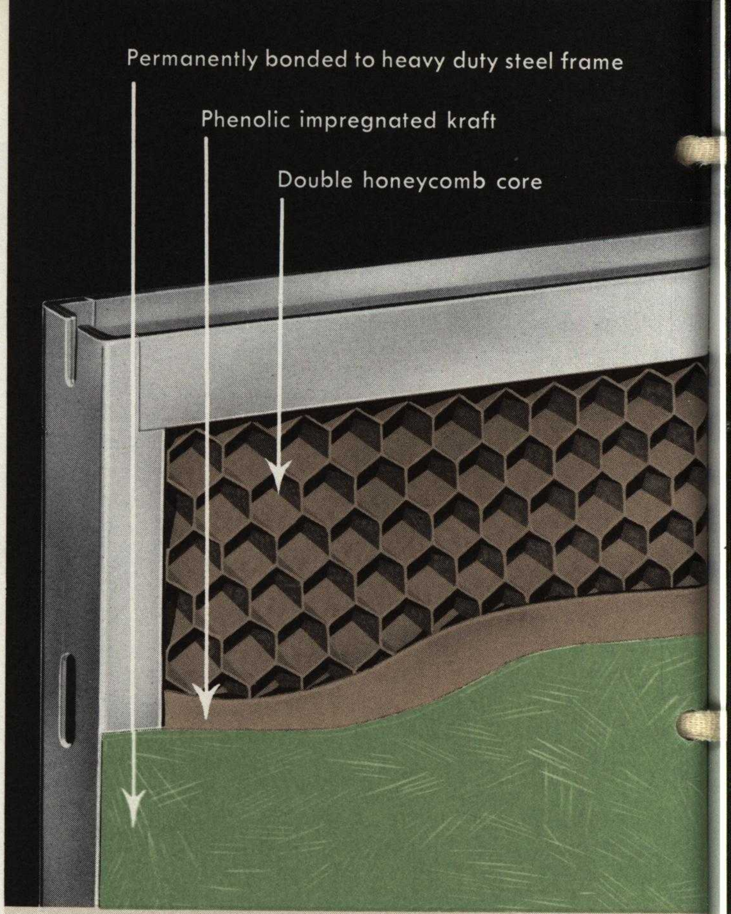
Exclusive

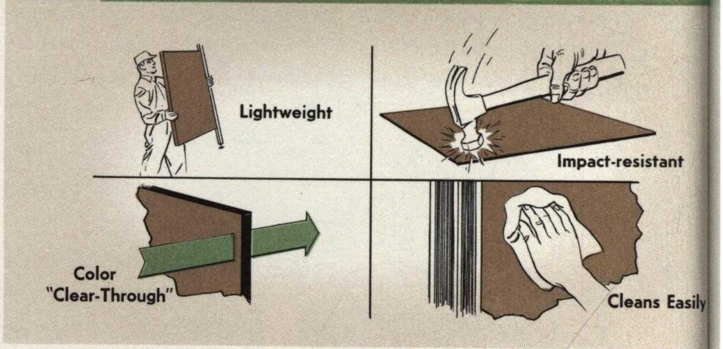
FIBERGLASS PANEL

This new and completely unique *Steel Age* Partition panel is a homogeneous construction consisting of a specially-designed double honeycomb core, phenolic impregnated kraft and two fiberglass sheets, permanently bonded to a 16-gauge steel channel frame. The result is a 1¾″ panel, exceptionally strong, lightweight and capable of absorbing severe impact punishment. Surfaces are plumb and will not buckle or warp, regardless of the length of "run" or installation.

Steel Age Partition panels can be cut at any point without diminishing the structural strength, because of this revolutionary construction. And in special cases where it is required, panels can be custom cut with a hacksaw and common handsaw at the installation site for perfect fit.

Because the fiberglass has color "clear-through", the assembled panel is essentially scratch-proof and marproof. *There is no paint to chip or peel*, and the panel can be used and re-used continually without wear or damage. Soil of any type, including indelible and duplicator inks, paints and varnishes can be easily wiped off. And of course, soap and water, commercial cleaning compounds, solvents and stain removers will never damage the natural finish of the fiberglass or the aluminum posts and trim (all anodized).


Permanently bonded to heavy duty steel frame
Phenolic impregnated kraft
Double honeycomb core

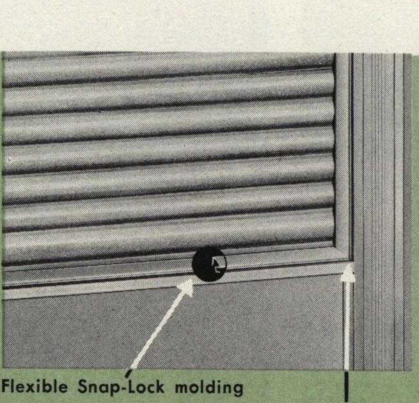


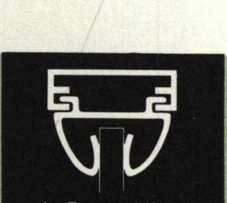
Exclusive

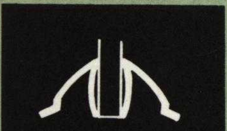
SNAP-LOCK GLAZING FOR PANEL INSERTS

Glass in a variety of patterns, and other upper panel materials, are quickly and easily installed into *Steel Age* Fiberglass Partitions. No tools or special skills are required. The exclusive Snap-Lock* molding snaps firmly and positively into place with only finger-tip pressure, forming perfectly mitered corners and providing firm support for the insert.

Strong, satin-finished aluminum trim channels are attached to the fiberglass panel by hidden connections, framing the panel opening on three sides. The unique, flexible Snap-Lock molding strips are then positively locked into recesses in these channels. A specially-designed top molding strip locks on the top edge of the insert and fastens to the vertical posts for a neatly finished assembly. The upper panel cannot rattle, or be accidentally displaced. And *Steel Age* Partition design leaves no exposed glass edges to become damaged or cause injury.

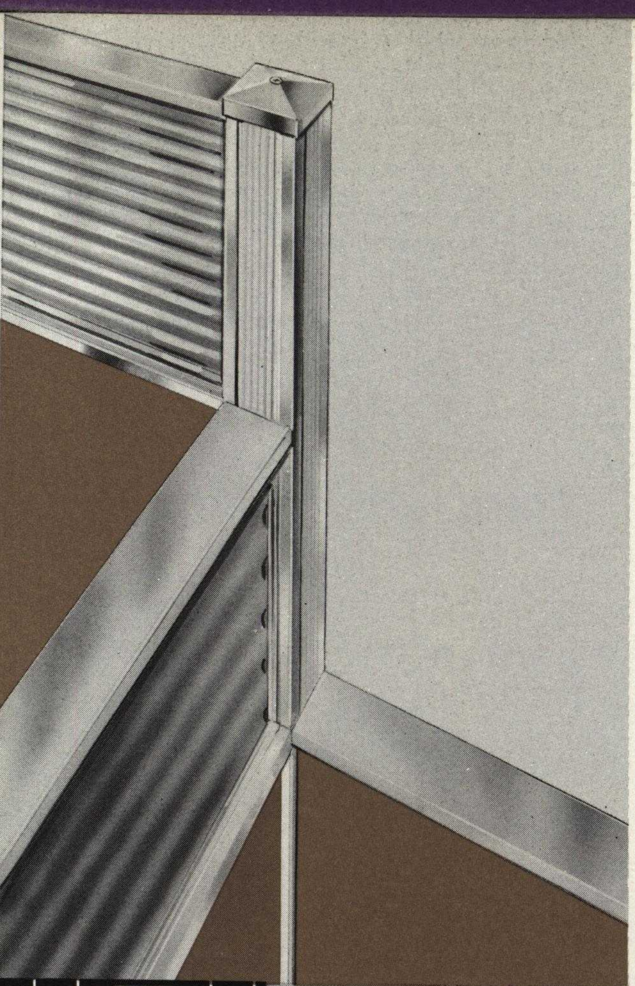


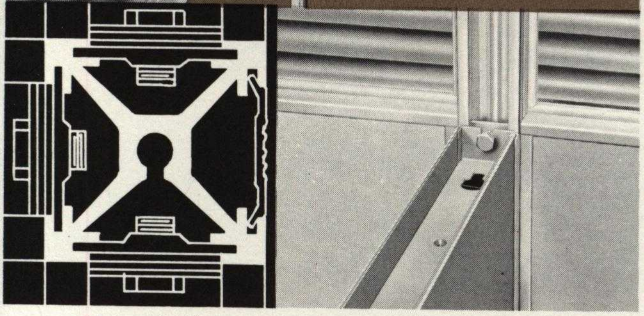

A. Top molding


B. Bottom and side molding

All trim and molding used in *Steel Age* Partitions are precut and matched for fit before shipping. Like all other parts, they can be changed and re-used at any time.

**Pat. Pending*





Exclusive

UNIVERSAL POST AND POSITIVE PANEL ATTACHMENT

The *Steel Age* Fiberglass Partition design is the first to permit a completely *practical* rearrangement of partition members. The universal post construction and positive method of panel attachment are chief reasons for this exceptional flexibility.

Only one post style is required throughout any installation to accommodate one-two-three or four-way panel junctions. This same post also serves for electrical outlets and switches at any point in the installation, and will accommodate floor anchors where specified. Each post is conveniently furnished as a prefabricated member to fit the installation.

Panels and posts are joined together by positive, screw connections, and the overlapping trim channel makes the fit continuous from top to bottom of the panel. There are no force-fits, springs or slides to weaken or cause damage, and each part is 100 per cent reusable.

The tubular center of the post receives the post cap and expansion screw at the top, and the leveling screw at the bottom. The leveling screw is then fully supported and cannot tip.

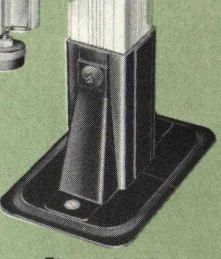
These points of superior design are exclusive with Steel Age partitions:

a. One universal post for any combination of panel junctions and panel heights.

b. Butyrate filler strip . . . universal post cross-section . . . tubular section for cap and leveling screw . . . positive screw connection . . . overlapping trim channel.

Exclusive FLOOR MOUNTINGS

Leveling Foot



Floor Anchor

The advanced design of *Steel Age* floor mountings permits handsome, neatly-aligned installations, regardless of floor conditions. Posts are furnished complete with foot leveling device and attractive plinth. Floor anchors, cups and base enclosures are used where specified.

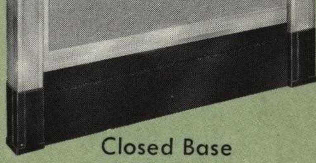
FOOT LEVELING DEVICE—The extra sturdy, 3/8" screw allows a 2" level adjustment and is supported for entire thread length inside post. Screw cannot tip or wobble. A mar-proof, anti-skid pad totally encloses the foot. All steel parts are cadmium-plated for complete protection against washing compounds.

FLOOR ANCHOR—Rugged, two-piece construction does not interfere with height adjustment. Easily attached or removed (no special anchor-post required), anchor is recommended for end-of-run, through long runs and at door openings.

PLINTH—The simplified, two-piece interlocking plinth is made of high-impact polystyrene and eliminates interference with erection or leveling. Easily attached as the *last* step in installation, plinth cannot mar floors and is completely impervious to washing compounds.

CLOSED BASE—Two-piece, vertical telescoping design fits even irregular floor conditions. Positively bolted to bottom of panel and equipped with leveling screws, enclosure can be added at any time.

Plinth



Closed Base

STEEL AGE PANEL STYLES AND SIZES

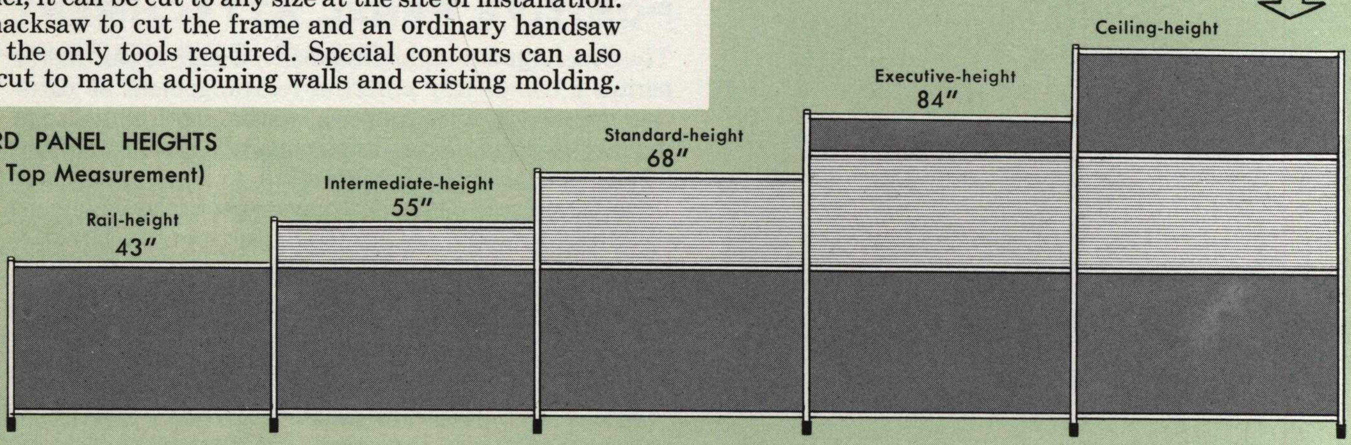
This wide range of panel heights, widths and top styles adds to the unique flexibility of *Steel Age* Fiberglass Partition design. Unlimited office space problems can be solved with combinations of these panel sizes and the *Steel Age* universal post. But *Steel Age* Fiberglass Panels can be readily furnished in custom sizes as well. And because of the homogeneous construction of the panel, it can be cut to any size at the site of installation. A hacksaw to cut the frame and an ordinary handsaw are the only tools required. Special contours can also be cut to match adjoining walls and existing molding.

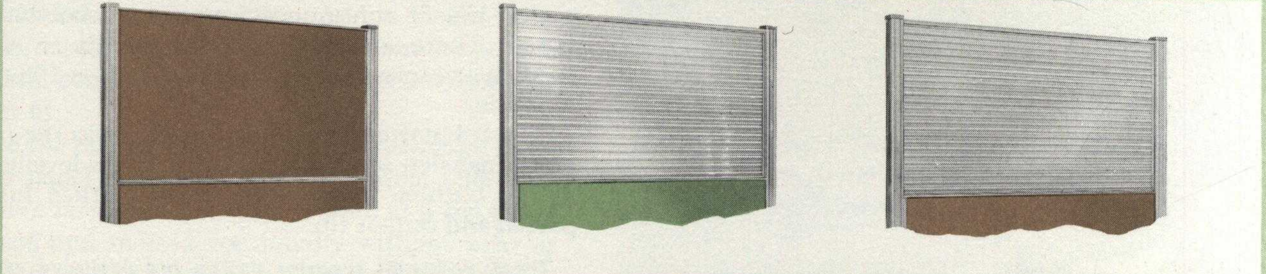
CEILING HEIGHT

Ceiling height partitions are sometimes required to enclose special private offices. To match general installations, *Steel Age* can supply this type of unit, although it is not a typical free-standing partition. Partitions are erected to a maximum height of 114" for this purpose. For greater height, top filler can be added from the partition top to meet the ceiling.

STANDARD PANEL HEIGHTS

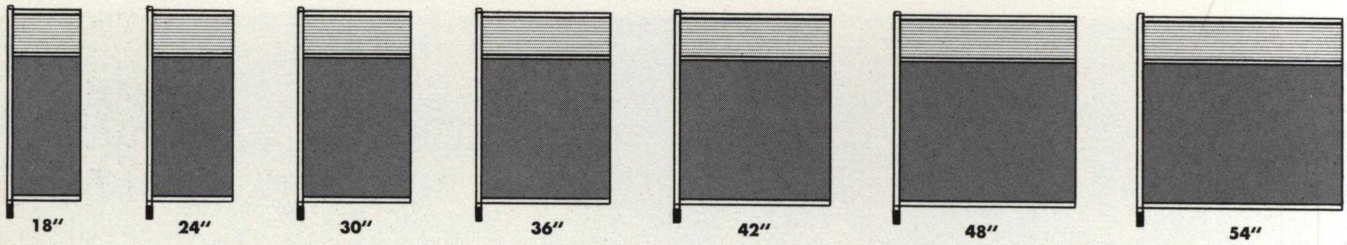
(Floor to Top Measurement)





UPPER PANEL STYLES

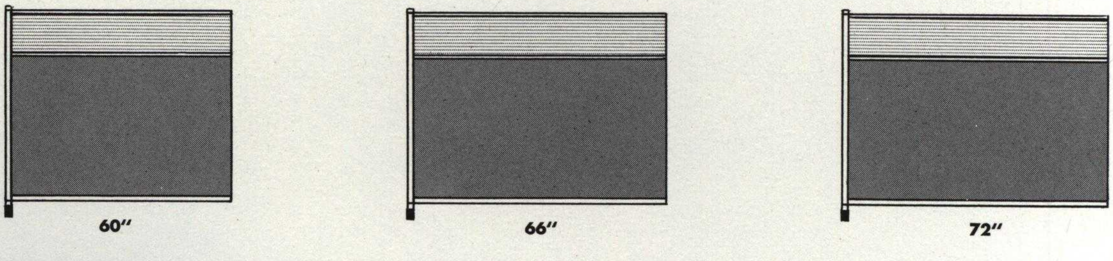
Any of these materials can be furnished, or special materials can be used by purchaser, when required: Clear glass — Translucent, fluted glass — Translucent, fiberglass — Opaque fiberglass panels — Pegboard — Cork board — Acoustical board — Chalk board — Double, sliding glass panes.

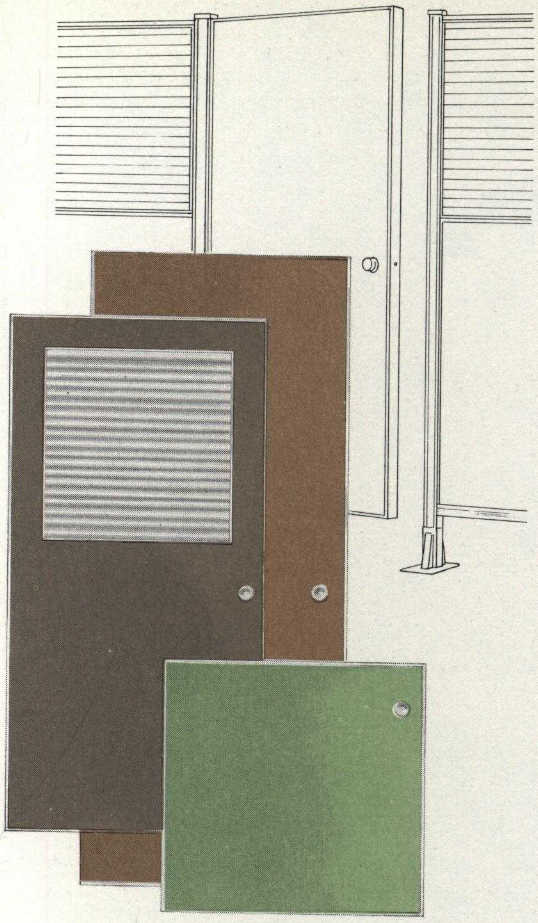


STANDARD PANEL LENGTHS

(Dimension Includes Panel and One Post)

additional sizes include 9", 12" and 62" lengths





GATE (43″ floor-to-top)

FLUSH DOOR (55″, 68″, 78″ standard height—68″ or 78″ Executive-Style)

GLASS TOP (68″ and 78″ standard height, or 68″, 78″ Executive-Style)

DOORS FOR STEEL AGE PARTITIONS

Steel Age Partition doors feature the same fiberglass construction, and share the inherent advantages of the partition panels. All doors can be furnished in three standard colors to match the partitions, or if you desire a distinguishing touch, there are four accent colors available. Contrasting colored panels can be used on opposite sides of any door.

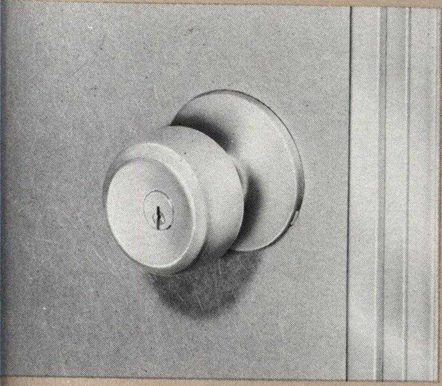
Door panels are a standard 34″ wide to provide room for moving most desks and furniture without up-ending. And—maintaining the flexible design of *Steel Age* Partitions—doors and hardware are completely reversible to allow for rearrangement. Doors can not warp, sag or spring because of sturdy hinge design and rigid door construction.

To match all partition heights and provide optional selections, there are four standard door sizes and ten model variations. Included are flush doors and gates and doors with top panels to match the partition style. (See page 6) Both styles are available in standard or floor-length (floor-to-top) Executive Style.

DOOR SIZES AND MODELS
(Floor to door-top measurement)

43″ Flush Door
55″ Flush Door
68″ Flush Door
68″ Standard Glass Top*
68″ Flush Door Executive-Style
68″ Executive-Style, Glass Top*
78″ Flush Door
78″ Standard Glass Top*
78″ Executive-Style Flush Door
78″ Executive-Style, Glass Top*

**Other insert materials listed on page 6.*



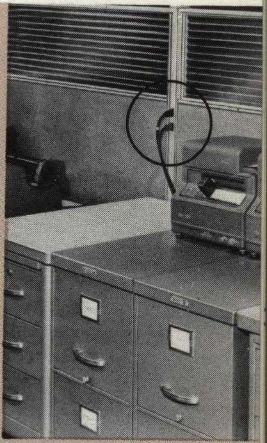
PARTITION HARDWARE

Modern, anodized aluminum hardware gracefully complements the color and beauty of *Steel Age* partitions and doors. Tubular lock sets are standard equipment on all except 43″ height doors.

Neat, concealed-type door hinges are fully reversible and designed for long, maintenance-free operation.

ELECTRICAL WIRING

Here again the complete flexibility of *Steel Age* Office Partitions is evident. Because of the *universal* post design, electrical wiring can be provided on order, or added at the installation site—quickly and easily. And switches or outlets can be located wherever they're needed along base molding or on the post. In many cases, wiring plans need *not* be complete before the partitions are installed.



SIMPLE, FAST INSTALLATION

Simplicity of design means minimum supervision when you install *Steel Age* Office Partitions. Even an inexperienced worker can quickly assemble panels and posts with only two or three simple tools. A layout drawing, accurate shipping list and practical instructions are furnished for each installation. There are a minimum number of parts involved, and each post and panel are prefabricated to match the layout.

Here is the simple, step-by-step method of erecting a *Steel Age* Partition:

STEP 1. Attach panel to post by means of two bolts, inserted into slots at top and bottom of panel end-face, tightening these bolts into post clamps. Note strength of overlapping bolt connection.

STEP 2. Attach second post to opposite end of this panel.

STEP 3. Place horizontal trim channel on top edge of panel. Bottom horizontal trim is then attached by means of two spring clips on bottom edge of panel.

STEP 4. Level partition by adjusting foot leveling devices in post base.

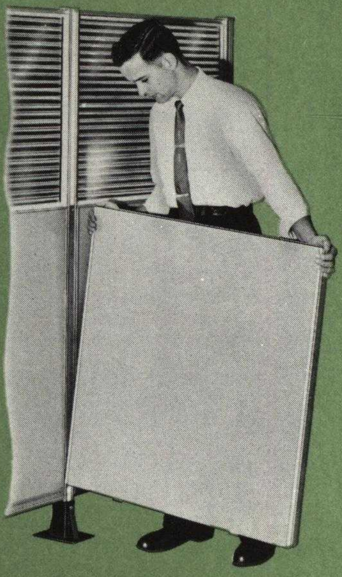
STEP 5. Rest glass in aluminum trim strip at top of panel, at the same time locating the glass into the trim strips on the posts. *(Note:* Glass is positioned from the side—*not* overhead).

STEP 6. Now press the Snap-Lock molding into place at the base of the glass, and on both sides. Only fingertip pressure is required, yet molding *locks* in place, holding glass securely. Note neat fit of molding and miter-like corners.

STEP 7. Place the factory assembled glass molding and top aluminum trim strip on top edge of glass.

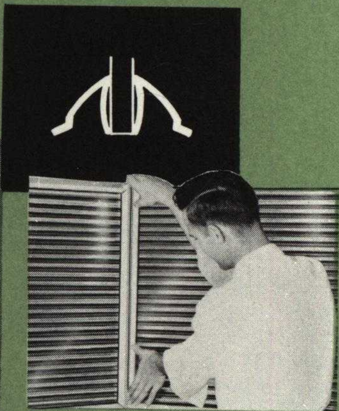
STEP 8. Put post caps into place and secure with expansion screws. *(Note:* Caps, secured in place, hold top trim rigidly in position.)

STEP 9. Finish base of post with two-piece interlocking plinth. By adding plinth last, in this manner, these do not interfere with erection or leveling.



1 Attach panel to post.

5 Insert glass.



6 Secure glass with Snap-Lock molding.

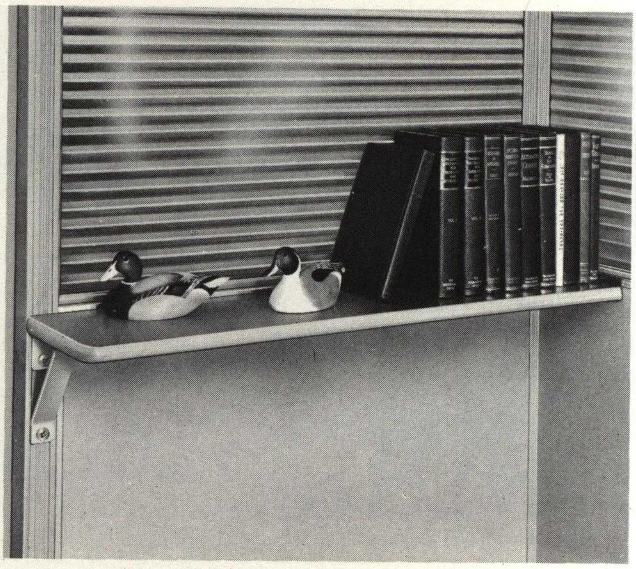
PARTITION ACCESSORIES

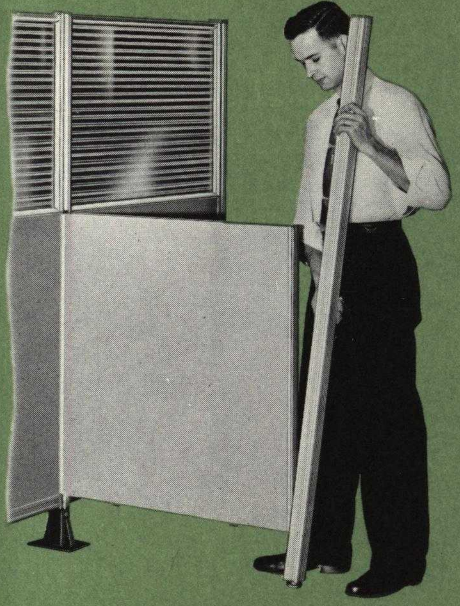
To complete the requirements of many customers, some accessories are available as complements to the finished partition.

Like the basic partition components, these items are designed for appearance and efficiency. Without exception, they can be easily installed where required during, or after, the initial installation.

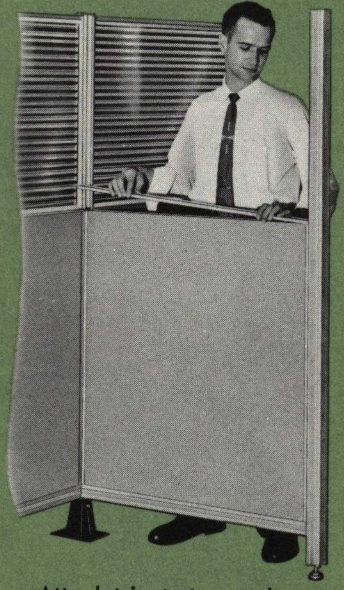
BOOKSHELF

The convenience of having shelf space available is, in fact, doubled by the flexible *Steel Age* design. It permits the shelf to fit between any two posts throughout the installation, and can be located at any desired height. This sturdy, attractive bookshelf is available in panel lengths from 9″ to 72″.

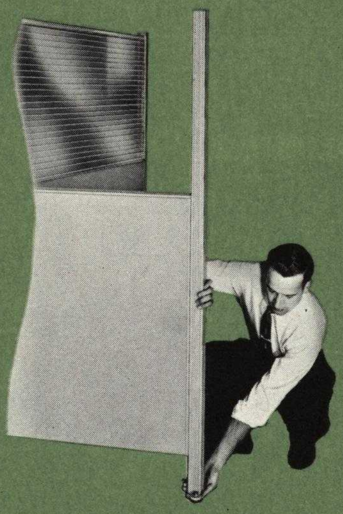




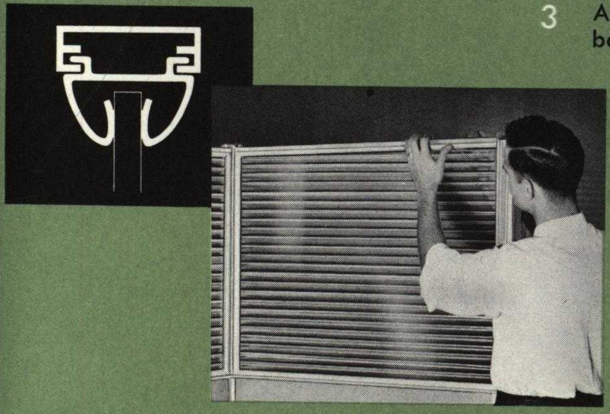
2 Attach second post to panel.



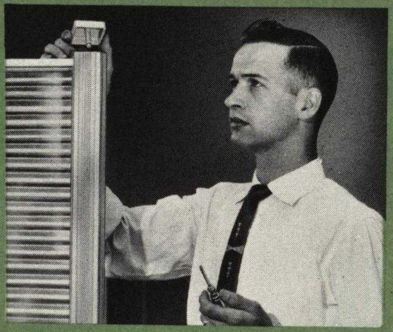
3 Attach trim to top and bottom of panel.



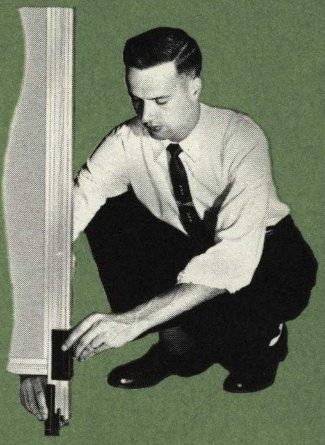
4 Level the partition.



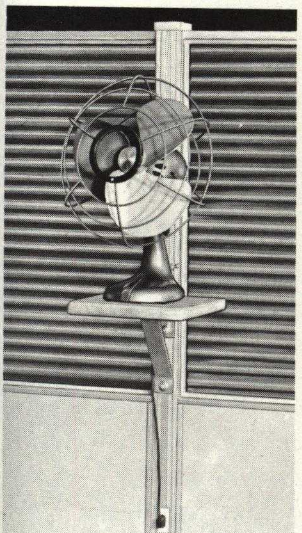
7 Add top molding and trim—lock into place.



8 Put on post cap.



9 Attach plinth.

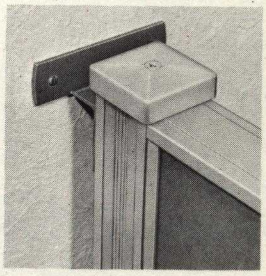


FAN SHELF

Quickly installed, this shelf will support normal-sized office fans, or decorative items, and can be located anywhere on an open-sided post.

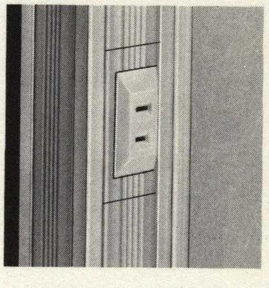
WALL BRACKETS

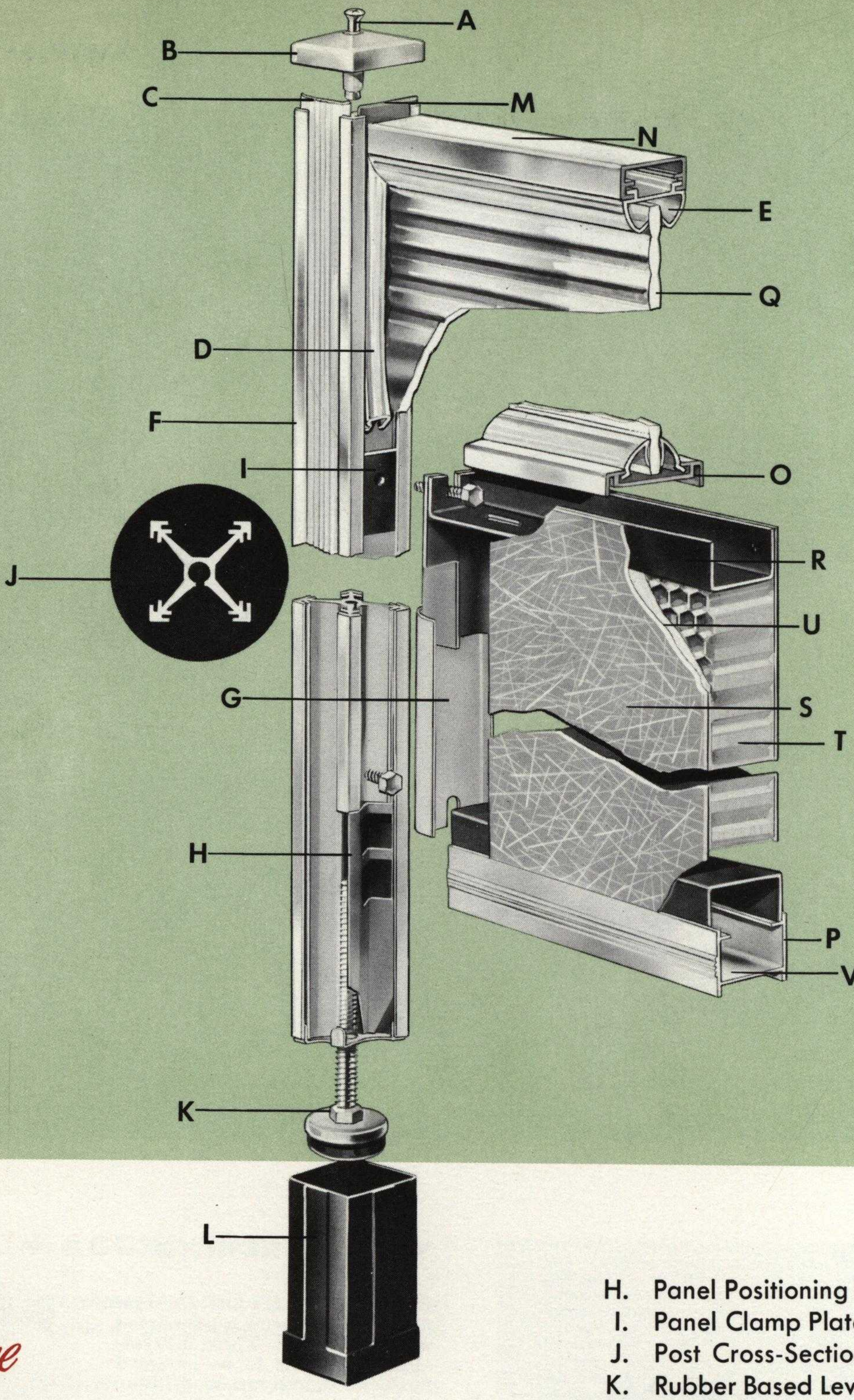
Recommended for use wherever partition run meets a permanent wall structure. These brackets allow partitions to be mounted flush, or spaced up to 6″ from walls.



ELECTRICAL SWITCHES AND OUTLETS

Providing convenient access for office machines, lights, and other electrical devices, these neat-appearing, easily installed switches and outlets can be located at random points on the panel base trim or posts.

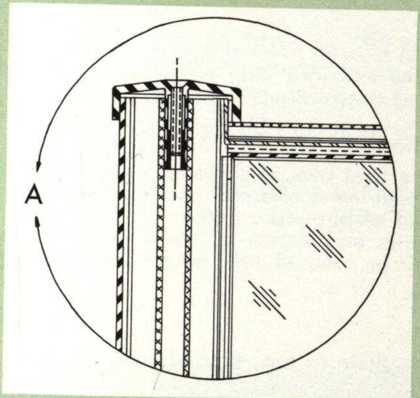


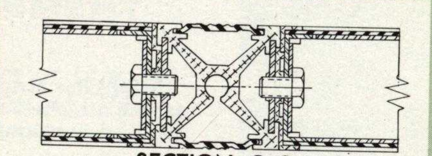


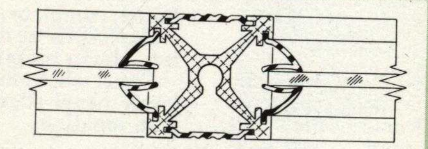
Exclusive CONSTRUCTION FEATURES

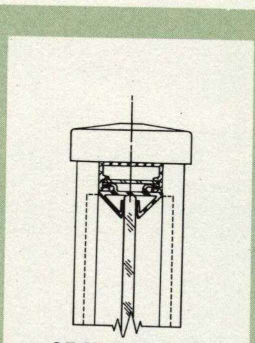
A. Cap Expansion Screw
B. Post Cap
C. Post Filler Strip
D. Snap-Lock Molding (2 pc.—bottom, sides)
E. Snap-Lock Molding (1 pc.—top)
F. Universal Post
G. Overlapping Panel Trim, Vertical
H. Panel Positioning Plate
I. Panel Clamp Plate
J. Post Cross-Section
K. Rubber Based Leveling Foot
L. Interlocking Plinth (2 pc.)
M. Upper Trim Locking Bracket
N. Top Trim
O. Middle Trim
P. Bottom Trim
Q. Upper Panel Material (Glass, etc.)
R. Steel Channel Frame (16-gauge)
S. Fiberglass Panel
T. Double Honeycomb Core
U. Phenolic Impregnated Kraft
V. Wire Space

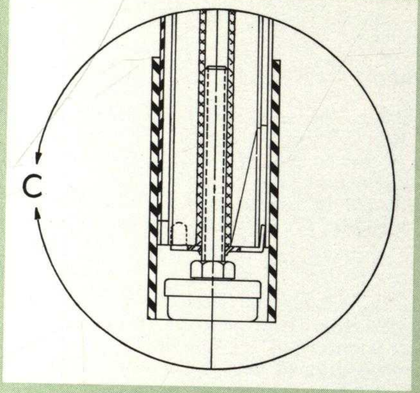
STEEL AGE FIBERGLASS PARTITION DETAILS

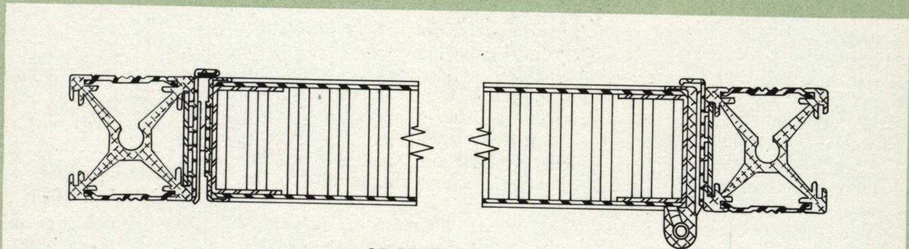


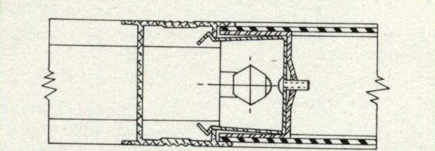

SECTION G-G


SECTION F-F


SECTION D-D




SECTION H-H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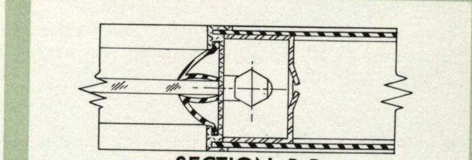
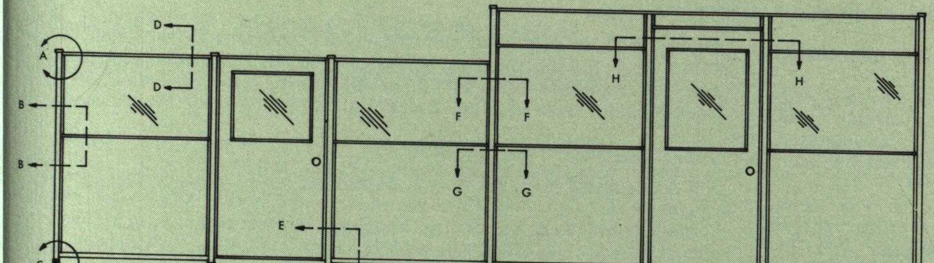
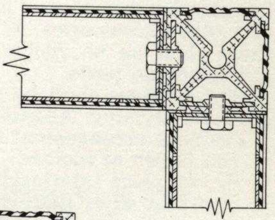
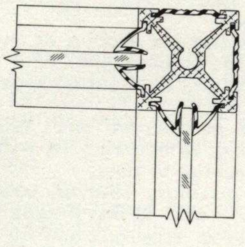

SECTION B-B



KEY DRAWING

TYPICAL SECTION G-G AT CORNER





TYPICAL SECTION F-F AT CORNER

SUGGESTED SPECIFICATION

Scope of Work

Furnish and erect STEEL AGE Office Partitions as manufactured by Corry Jamestown Corp. Partitions shall be Rail-height, Intermediate-height, Standard-height, Executive-height and/or Ceiling-height as indicated on the plans and specified hereunder.

Panel Construction

Panels shall be comprised of two sheets of molded fiberglass bonded to #16 gauge steel channel frame and reinforced honeycomb core, to form 1¾″ thick panel. Bonding materials to remain stable to temperatures of 200°F. and to soften at 275°F. minimum.

Upper Panels

Except for 43″ (hand-rail) high partitions, each partition section shall consist of an upper and lower panel. The upper panel shall be available in a variety of materials, such as: clear glass, or fluted translucent glass, peg board, cork board, chalk board, opaque or translucent fiberglass panels, etc. Panels shall be as indicated on the drawings.

Flexible plastic extruded molding shall be provided for securing the transparent or translucent material used above the fiberglass panels.

Top trim over glass panel shall be an aluminum extrusion which provides base for self-locking plastic molding. Hidden brackets shall be used to secure trim assembly to posts at each end.

Shop Drawings

Shop drawings indicating plan, elevation, hardware, and panel treatment shall be submitted to the architect for approval before fabrication.

Panel Colors

Colors of fiberglass used in lower panels (standard or special) shall be molded into fiberglass sheets with pigmented polyester or Hetron (as specified) resin. Colors shall be as shown or as selected by architect.

Post and Trim Construction

All posts and decorative trim molding material shall be extruded aluminum, anodized in natural finish.

Post cross section shall be "X" shape with retaining slots at each side for fitting with flush filler strips or panel clamping plates and glass moldings. Each post shall be universal, not only with respect to its use for attaching any number of panels, but also for provision of electric wiring, attaching floor anchors and other accessories. When partition is completely installed there shall be no visible indication of additional attachment provisions on posts.

Post bottoms shall be provided with an inserted adjustable glide for leveling. Adjustment range to be 2″.

Leveling arrangement at post bottoms shall be covered with a trim plinth of molded, high-impact polystyrene. Plinth shall be of two-piece interlocking construction that may be attached at post base after final leveling operation, electric wiring, etc., has been completed.

A ⅜″ diameter tubular section at the center of post cross section shall provide stable support for bottom leveling screw for its entire length and the adapter socket for locking post cap in place.

Post tops shall be covered with molded acetate-butyrate plastic cap. This cap to be provided with a screw expander to provide positive locking to post.

Attachment of auxiliary shelves, coat hooks, etc., shall be provided on any post side, at any height, by substituting a slide-in clamp plate in post retaining slot for a section of post filler strip.

Post filler strips, used to close in open post side where panel is not attached, shall be extruded butyrate plastic, providing finished appearance and desirable styling effect.

Panel Attachment Method

Panel, complete with vertical trim, shall be fastened to post by clamp screw at upper and lower corners. These screws tighten into clamp plate located within post recess.

Panel clamping screws and access channels at upper and lower panel edges shall be covered with horizontal aluminum trim molding.

Partition Heights

Standard heights from floor to top edge of partition are as follows:

(a) Top of Hand Rail-height partition .... 43″
(b) Top of Intermediate-height partition .... 55″
(c) Top of Standard-height partition .... 68″
(d) Top of Executive-height partition .... 84″
(e) Top of Ceiling-height partition .... to 114″ max.

Panel Lengths

Partitions shall be made of standard panel lengths and shall be interchangeable.

Standard panel lengths including one post shall be 9″, 12″, 18″, 24″, 30″, 36″, 42″, 48″, 54″, 60″, 62″, 66″, 72″.

Special lengths shall be made from the next larger standard size panel, either at installations site, or at factory.

Special irregular contours to panel ends for direct joining with walls, etc., shall be made, either in field or at factory.

Corrosion Resistance

All exposed surfaces of the partitions, (fiberglass panels, aluminum extruded posts, molding pieces, and plastic filler strips) shall be completely corrosion proof by the nature of the materials used. No finish coatings of any kind are to be used, with the exception of floor anchors and closed bases, which are of heavy gauge welded steel phosphatised, and finished with a durable baked black enamel.

Electrical Wiring

Easy installation of electrical outlets on post at any height, and on lower panel molding channel shall be provided for, either at factory before original installation, or at any subsequent time, after installation is complete. No special posts or molding pieces shall be required.

Floor Anchors

Floor anchors shall be provided for posts on both sides of doors and intermittently, where required by good partition practice. Anchors shall be so designed that they may be easily attached or removed, that height adjustments may be effected.

Doors and Door Hardware

All doors shall be flush doors, 34-inches wide, of the same construction as the partition panels unless noted otherwise on plans. Trim and hardware shall be aluminum anodized in natural finish. (All doors except 43″ height fitted with key lock.)

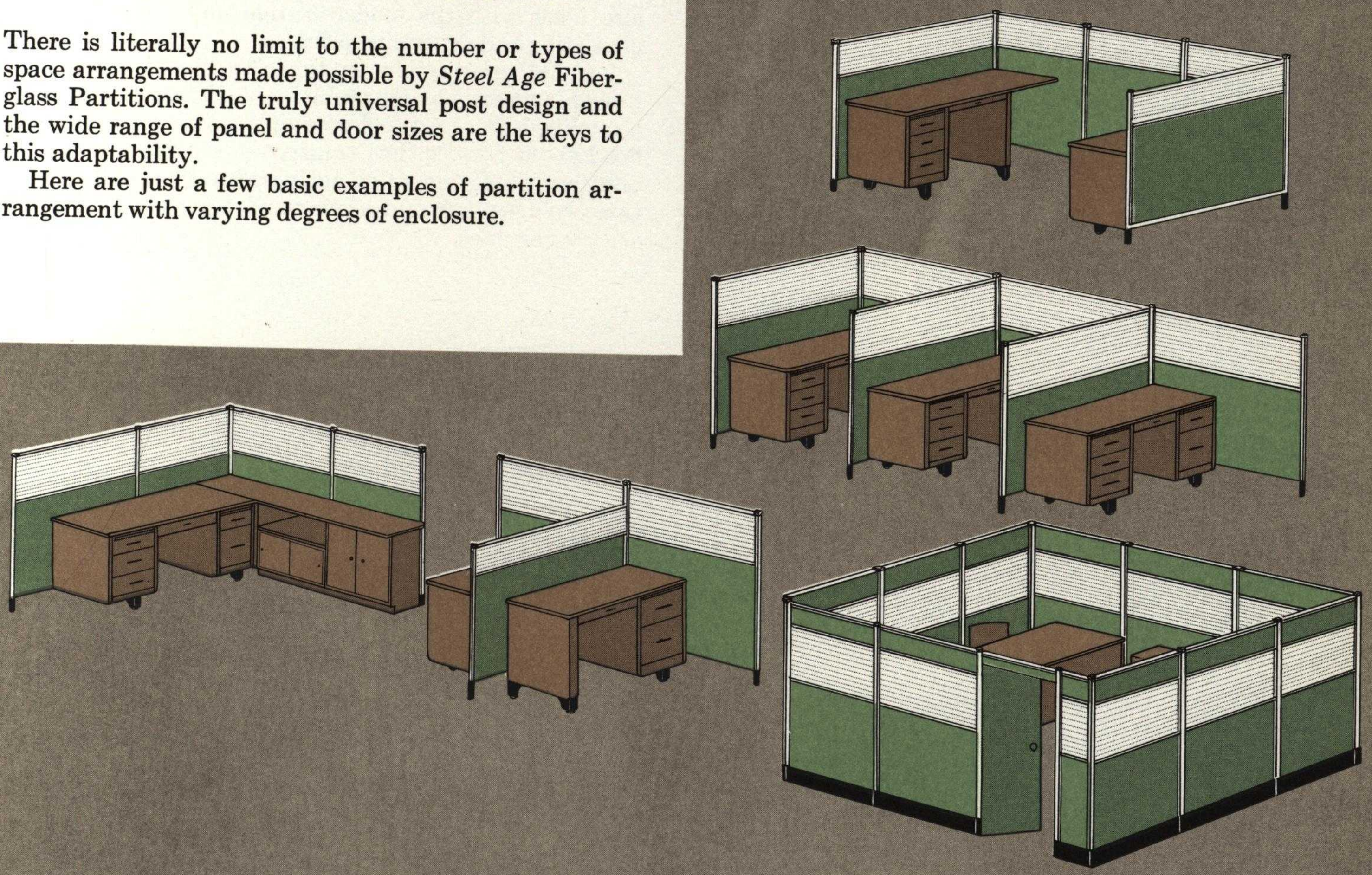
Panel Weight

Due to highly developed honeycombed core and fiberglass construction, rigidity and durability are obtained with minimum weight (approximately 2½ pounds per square foot). This greatly facilitates handling for both shipping and erection and provides minimum floor load weight.

EXAMPLES OF ARRANGEMENT

There is literally no limit to the number or types of space arrangements made possible by *Steel Age* Fiberglass Partitions. The truly universal post design and the wide range of panel and door sizes are the keys to this adaptability.

Here are just a few basic examples of partition arrangement with varying degrees of enclosure.



LAYOUT PRACTICES FOR FREE-STANDING PARTITIONS

Avoid long straight runs, unsupported by corners or "Tees". Floor anchors should be used for runs greater than 15 feet in length.

Intermittent use of floor anchors is recommended where there are more than 3 panels between corners.

Proper coordination of desks and furniture and proper division of space will provide ample "cross runs" and eliminate long, unsupported runs.

In planning for doorways in partitions less than 84″ high, (no fixed header above doorway) floor anchors, corners or "Tees" should be planned for, to preclude binding or springing of doors. (Allow 34⅛″ for door opening)

Floor cups are recommended to prevent inadvertent misalignment of partition installation. Adhesive is recommended for attaching cups to avoid marring floors, however, guide studs or screws may be used.

Because few permanent walls are plumb, and space usually is allowed for baseboard pipes and molding, wall brackets are recommended where partition post is adjacent to wall. Proper space between post and wall usually is from ¾″ to 1½″. Where flush wall bracket is recommended, add ⅛″ for thickness of bracket.

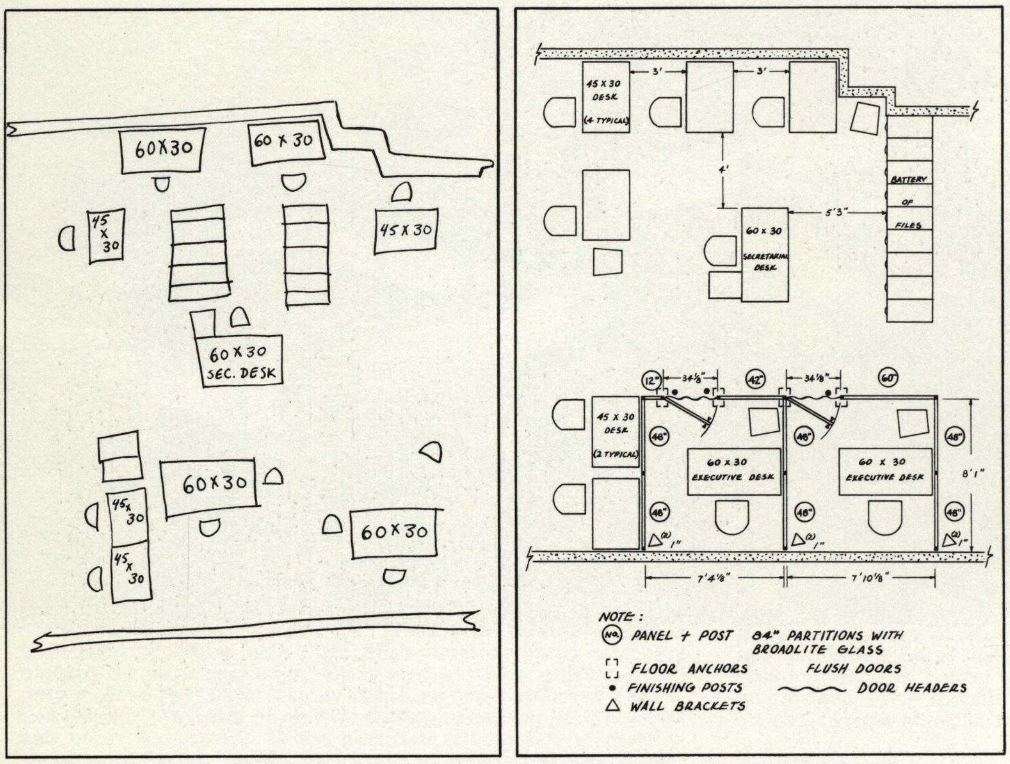
Do not use partition heights in excess of functional requirements. 43″ height divides space but affords complete visual control, even from seated position. 54″ height provides semi-privacy and eliminates visual and some audible distractions to seated worker . . . but permits supervisory control. 68″ height provides complete visual privacy. 84″ height provides additional sound level reduction.

STEEL AGE OFFICE LAYOUT SERVICE

Steel Age maintains an experienced staff which devotes full time to office planning and layout. Their very specialized knowledge is offered as a free service in connection with the installation of *Steel Age* office furniture and partitions.

This Office Layout staff is trained to relieve the busy architect of lengthy detail work, and to help business firms plan attractive, well organized offices. In addition to the design of new office space, this department also deals with the modernization and improvement of existing and expanding offices.

General information on the office involved can be provided directly by the architect or submitted through a qualified *Steel Age* office equipment dealer. The Office Layout Service then transposes this data into specific floor plans, including notes on furniture and partition arrangements and recommendations for color and office accessories.


60X30
60 x 30
45 x 30
45X30
60X30
SEC. DESK
60X30
45x30
45x30
60X30
45 X 30 DESK
(4 TYPICAL)
3'
3'
4'
5'3"
BATTERY OF FILES
60 X 30 SECRETARIAL DESK
12"
34⅛"
42"
34⅛"
60"
45 X 30 DESK
(2 TYPICAL)
48"
60 X 30 EXECUTIVE DESK
60 X 30 EXECUTIVE DESK
8'1"
7'4⅛"
7'10⅛"
NOTE:
(NO.) PANEL + POST 84" PARTITIONS WITH BROADLITE GLASS
FLOOR ANCHORS
FLUSH DOORS
FINISHING POSTS
DOOR HEADERS
WALL BRACKETS

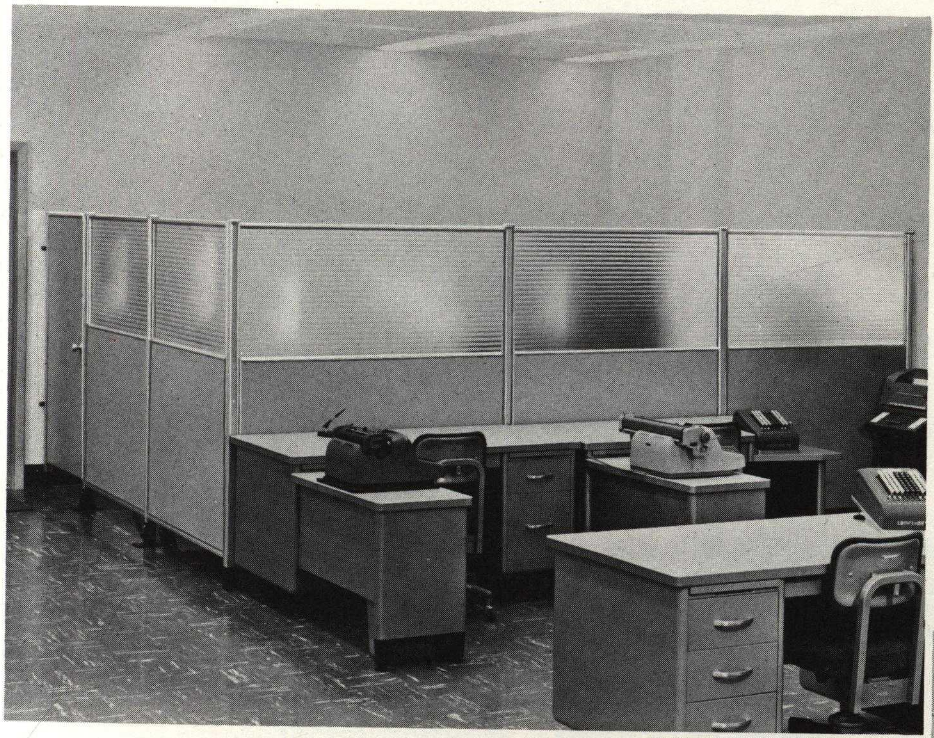
from a rough sketch . . . to an accurate, detailed layout

MATERIALS AND COLOR PANEL FURNISHED WITH DETAILED PLAN.

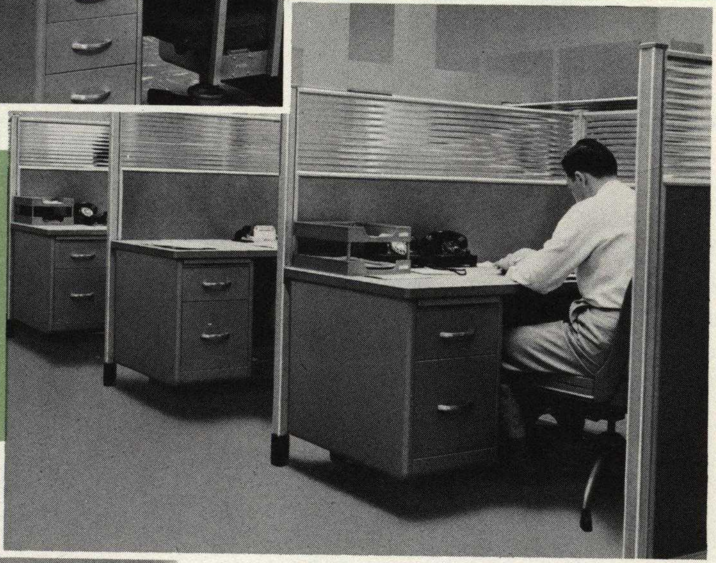
HERE'S HOW OFFICE PLANNING WORKS

The success of any office planning project depends on the completeness of the information that can be supplied. Information should include a brief description, generally outlining job functions and titles, along with any rough sketches submitted. In the case of major new construction, or the expansion of existing quarters, the architect's plan of the space should be submitted. Pertinent dimensions and notes on locations of windows, heaters, telephones, and any other more or less "permanent" features are very important. Where a revision of existing space is to be considered, a rough sketch will suffice as long as this same data accompanies it.

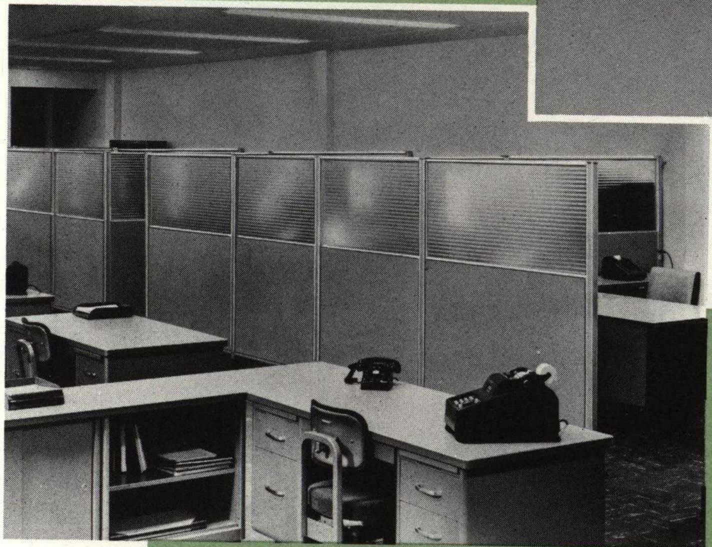
Through the Office Layout Service, completely professional office planning is now available not only to the architect faced with a tight work schedule, but also the businessman without trained personnel or proper facilities for this function. To the businessman particularly, this is a valuable service, offered without cost.



Installations of *Steel Age* Office Partitions showing well planned, functional divisions of space. Note the varying degrees of privacy achieved.



A private office easily created from available floor space. Privacy and a desirable touch of prestige are important aids for supervisory personnel.



Space-saving compartments make it easier to concentrate, control office traffic.

A smart, attractive appearance goes hand in hand with office order and efficiency.

The Perfect Partner for

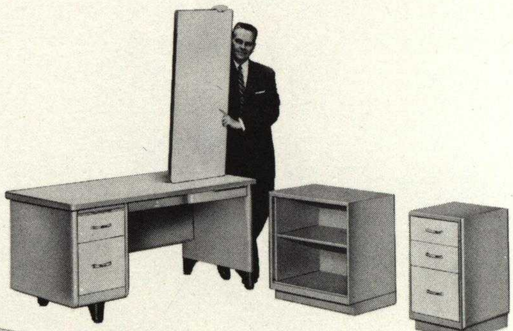
Corry Jamestown Fiberglass Office Partitions

MODULAR CORRELATION FURNITURE

Matched in Flexibility

Matched in Functional Efficiency

Matched in Fine Craftsmanship



The flexibility and adaptability of the Correlation line is unequalled. You can *start* with basic units and *add* to them later . . . or, you can create custom groupings you need at the outset. At *any* time you can add or expand . . . or rearrange to suit the job needs (just as you can with Fiberglass Office Partitions). Many distinctive optional features, and a wide choice of colors, makes it possible to outfit an office from "top to bottom" with Correlation . . . always suiting the job and the person just right.

COUNTER EQUIPMENT • FILES

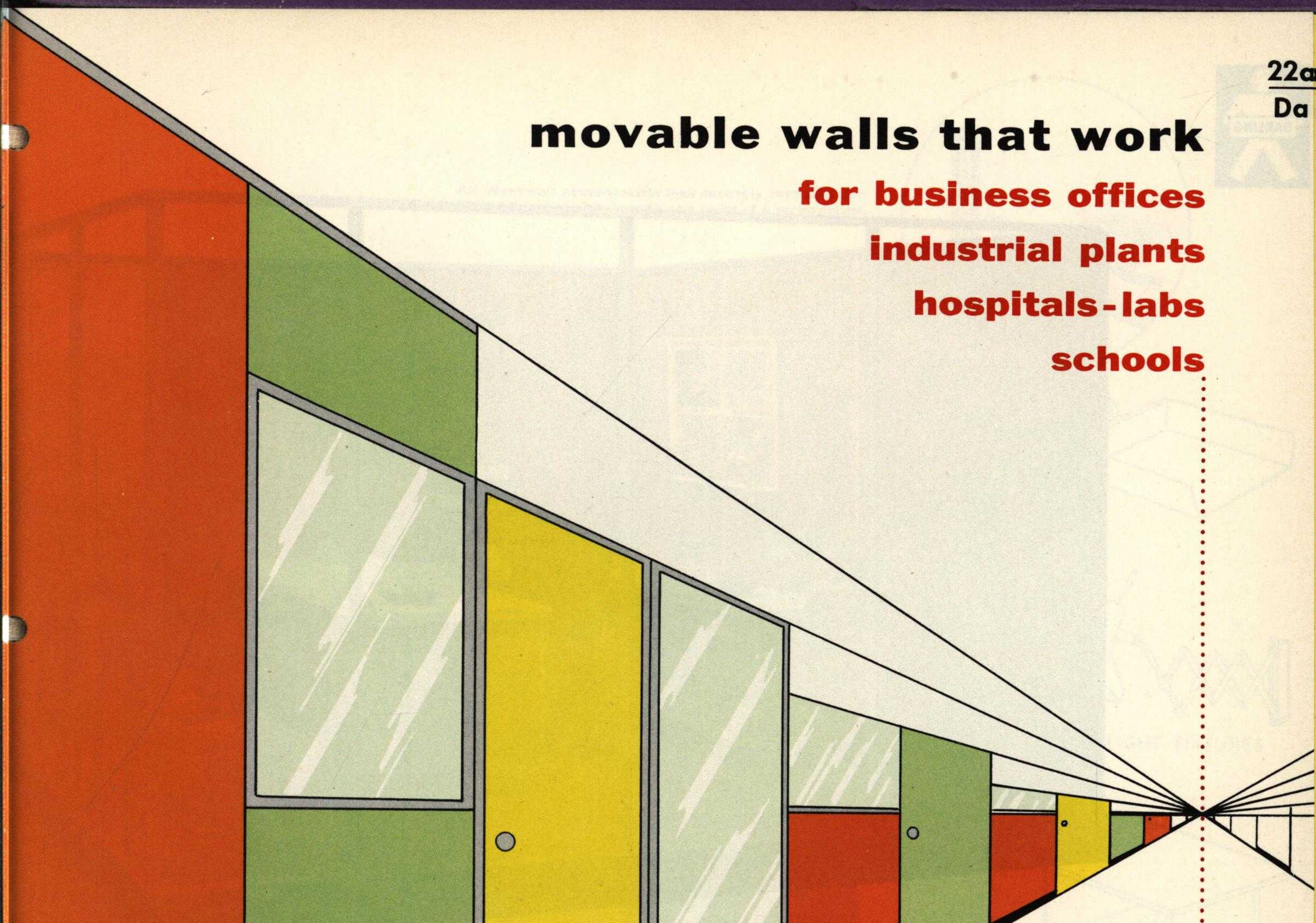
The Corry Jamestown line of quality office furniture features a variety of efficient counter units and a complete range of types and sizes of filing cabinets.

CORRY
JAMESTOWN CORPORATION
CORRY, PENNSYLVANIA

Form No. 657-60

movable walls that work

for business offices
industrial plants
hospitals-labs
schools



WORKWALL

MOVABLE PARTITIONS
AND PANELING

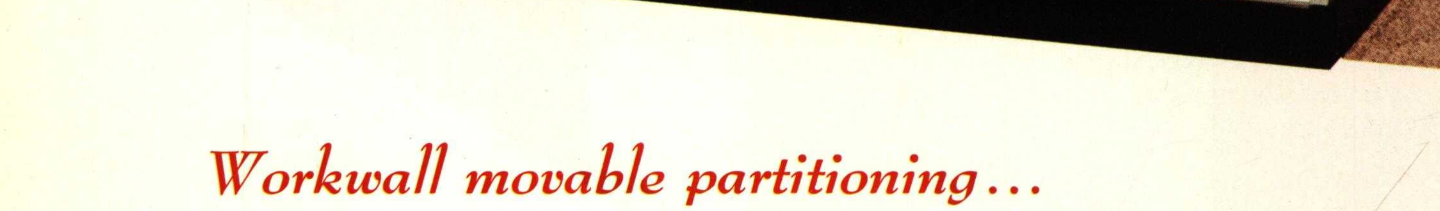
DIVISION OF L. A. DARLING COMPANY • BRONSON, MICHIGAN

DARLING

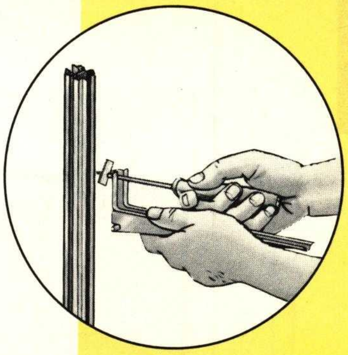
Workwall movable partitioning...

offers a fresh new concept in functional space division

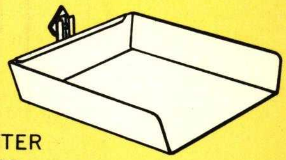
Designed to combine beauty, economy and complete flexibility, Workwall also offers an added advantage... an exclusive feature that actually puts the walls to work, providing a more functional work area in a minimum of space. Aluminum posts and Plastic finished or Natural wood panels are designed for ease of installation with a minimum loss of floor area, low maintenance costs, and complete reusability when relocation is desired.



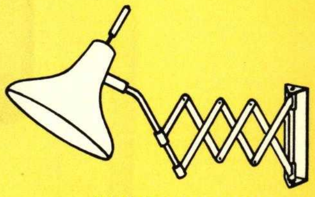
Typical Partition Elevations Showing Various Arrangements in All Heights



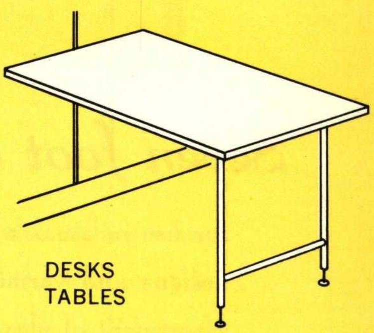
All Workwall attachments lock securely into position in post channels with the twist of a screwdriver.



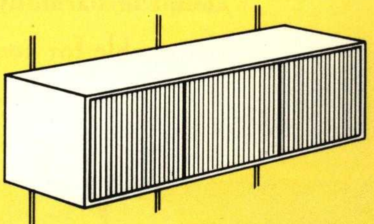
LETTER FILES



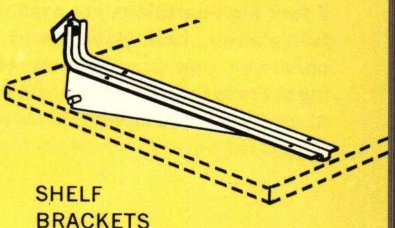
LIGHT FIXTURES



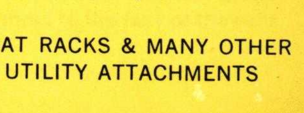
DESKS
TABLES



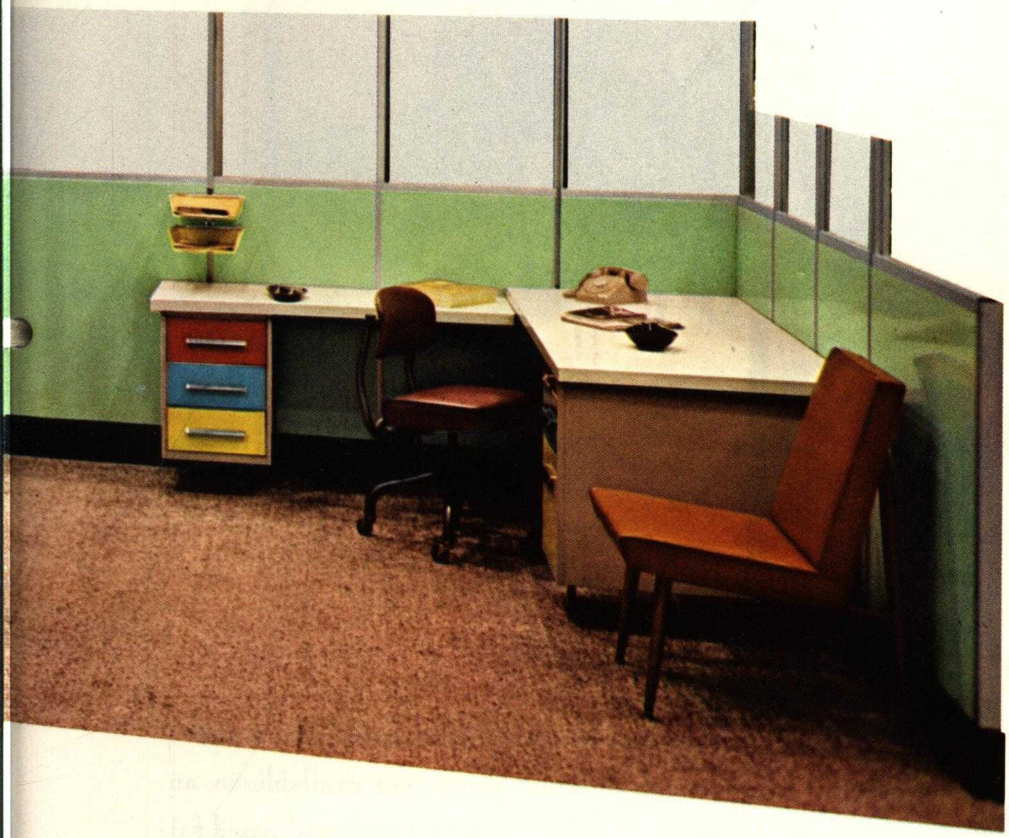
CREDENZAS



SHELF
BRACKETS



COAT RACKS & MANY OTHER
UTILITY ATTACHMENTS



Workwall's patented locking principle...

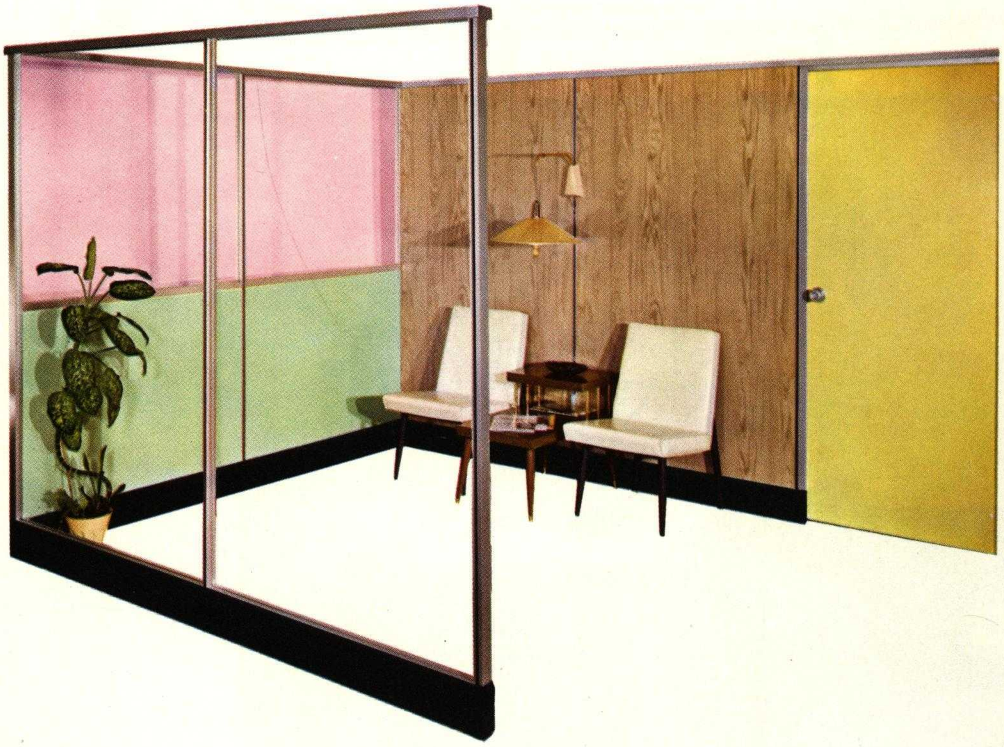
permits all types of utility attachments to be locked into post channels, without defacing the walls in any way. Table and desk tops, cabinets, shelving, letter files, pictures – even floor vases, lighting fixtures and many other attachments go on and come off with the simple twist of a screwdriver.

Work wall channels brackets and wall attachments are the same type as those used in Darling's famous Vizusell store merchandising system. The Vizusell system of channels and attachments is fully protected by U.S. Patent 2,744,714.

WORKWALL movable partitioning

DIVISION OF L. A. DARLING COMPANY • BRONSON, MICHIGAN

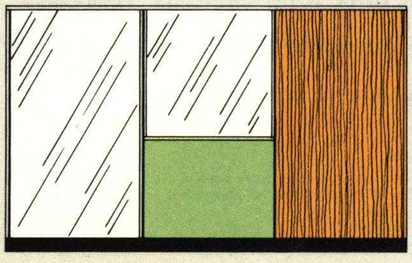
DARLING



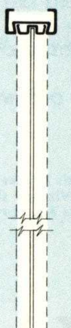
Seven foot high partitions...

for use in areas where complete privacy is not required ... available in a choice of attractive designs and variations. Beautiful, Plastic finished or natural wood panels are available in an assortment of pleasing pastel colors and natural wood grain finishes ... all colors coordinated for complete harmony when used in combination. Doors and panels of like dimensions are interchangeable for complete flexibility.

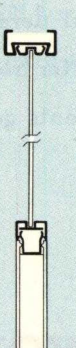
7 foot high partitions are available in full glazed, half glazed and solid panels for semi-private areas. Matching fillers to ceiling can be easily added at anytime for complete privacy.



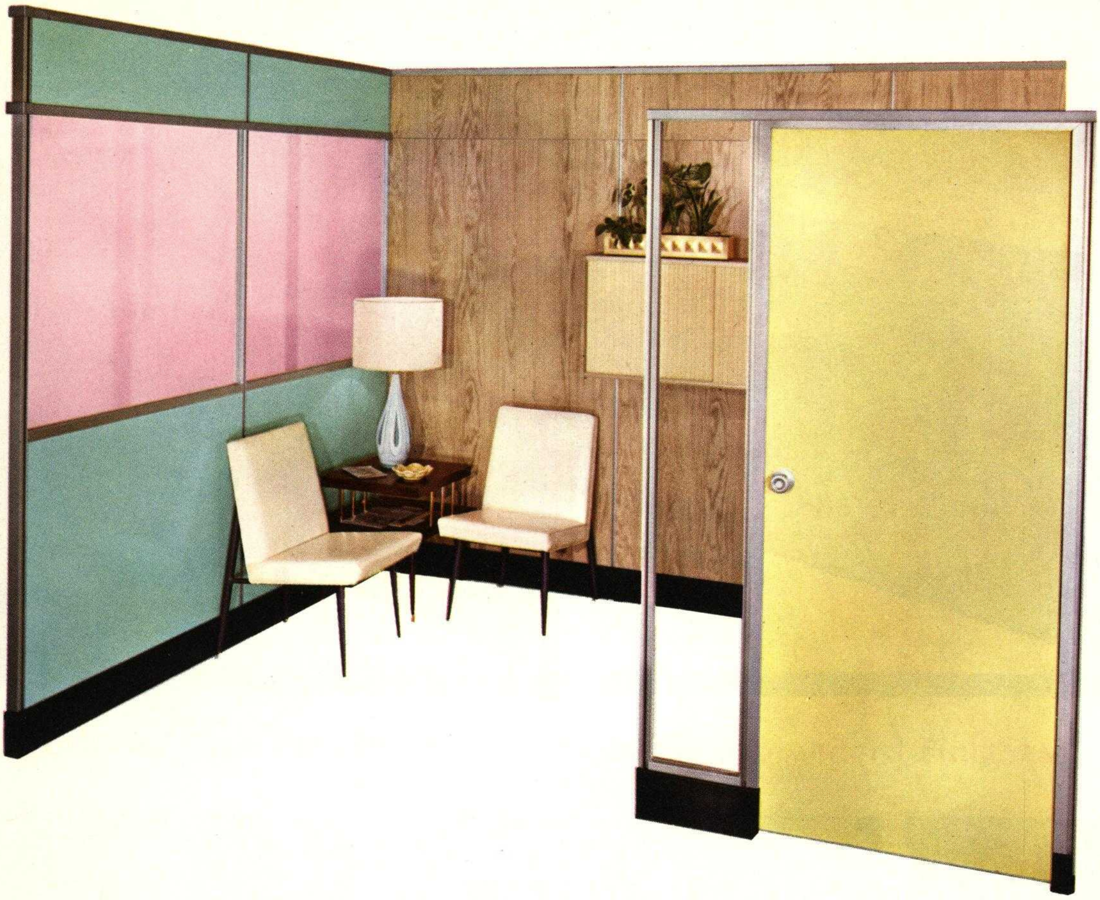
Simplicity of design is basic throughout the Workwall system, incorporating a minimum of parts for construction ease and flexibility ... thus assuring low labor costs on both the initial installation and future rearrangements.



FULL GLAZED PANEL

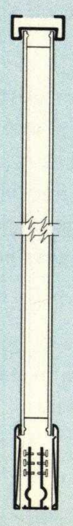


HALF GLAZED PANEL

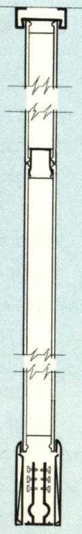


Ceiling high partitions...

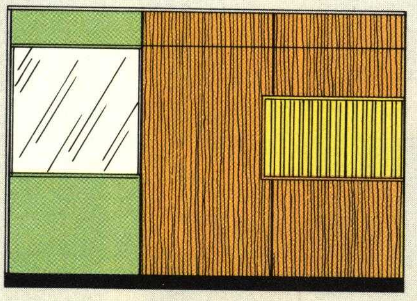
84″ or 96″ high glazed or solid panels are used with a matching filler to the ceiling where complete privacy is desired. Sound transmission is kept at a minimum with the unique cellular core construction of Workwall panels. The omission of the cornice strip on the solid panels leaves but a hair line between panel and ceiling filler giving the appearance of a solid wall from floor to ceiling.



SOLID PANEL
WITH CORNICE



SOLID PANEL
W/ CEILING FILLER

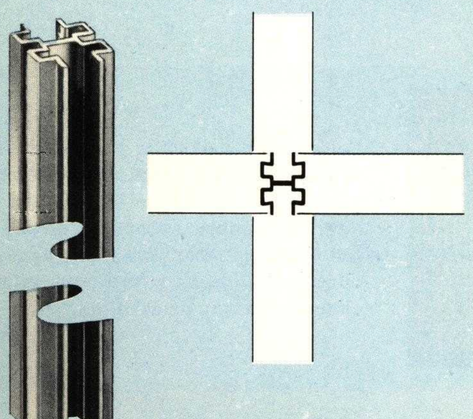


Ceiling high partitions are available in glazed or solid panels and, like all Workwall units, they are completely interchangeable. Attractive and usefull Workwall credenzas are easily constructed and locked into post channels at any desired height.

Ceiling filler panels are pre-cut to fit each installation and contain the same construction and low sound transmission qualities as the standard panels. Full allowance is made for all practical types of concealed electrical wiring and special clips are available for locking standard plug mold to the face of thewalls at any desired height.

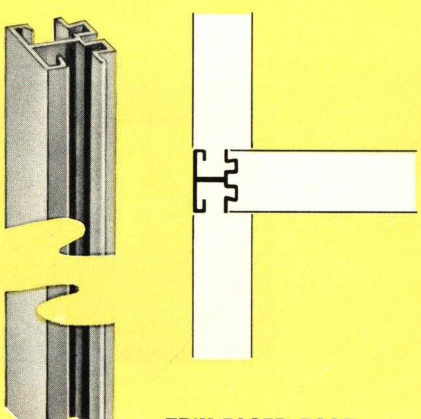
Rail high space dividers...

where space division is required in general office areas, Workwall offers partitions in three standard heights combining the ultimate in beauty, flexibility and economy. Panels can be added, omitted, or rearranged in a matter of minutes to accommodate changes and variations in procedure.



STANDARD POST

The Standard Post is used as an intermediate post or may be used as a 3 or 4 way post by using the optional connecting key (#537) as shown on page 7.



TRIM-FACED POST

The Trim-Faced Post is used as an end post or may be utilized as a corner or 3 way post by using the optional connecting key as shown on page 7.

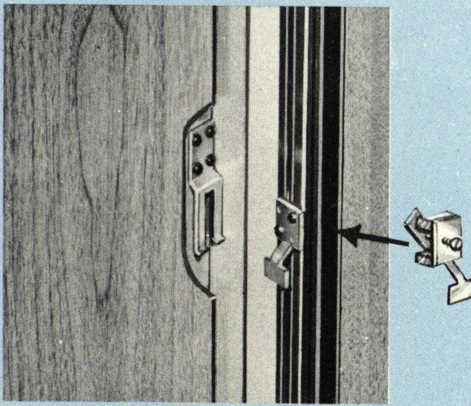
ONLY TWO BASIC POSTS ARE NEEDED WITH THE WORKWALL SYSTEM...

Keeping the number of posts and component parts at a minimum offers distinct advantages . . . ordering, inventory control and installation are simplified and greater economy and flexibility are possible with Workwall.

All posts are equipped with standard floor anchors and levelers.

Workwall Partitions are easy to assemble — divide space with a minimum loss of floor area . . .

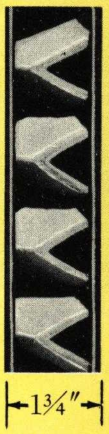
Posts and panels snap-lock together (without the use of special tools) to form sturdy free standing or floor to ceiling partitions. The narrow (1¾″ thick) panels can save many square feet of valuable floor space as compared with other methods of construction.



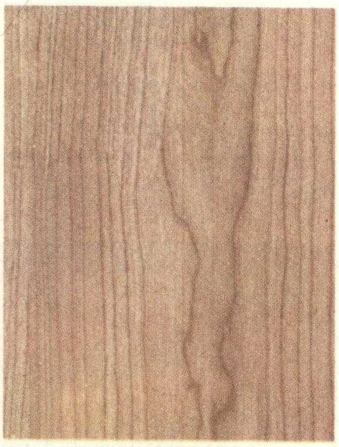
Simple locking sleeves on the panels slip over connecting keys on the posts and lock tightly into position. For corner, 3 way and 4 way returns an optional connecting key (#537) locks into the post channel with the twist of a screwdriver and panels can then be secured in the above manner.

SOUND CONTROLLED PANEL CONSTRUCTION

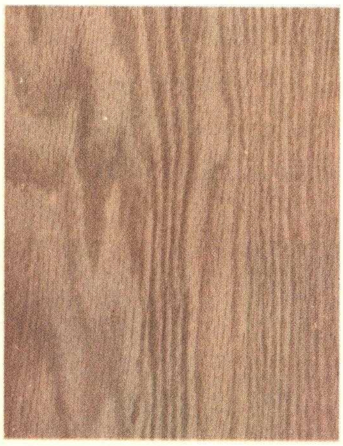
Exclusive cellular construction provides light weight partitions of exceptional strength and excellent sound reduction characteristics.



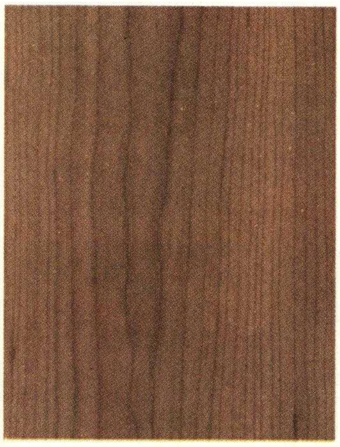
Workwall Type "M" Panels offered in Eight Standard Finishes



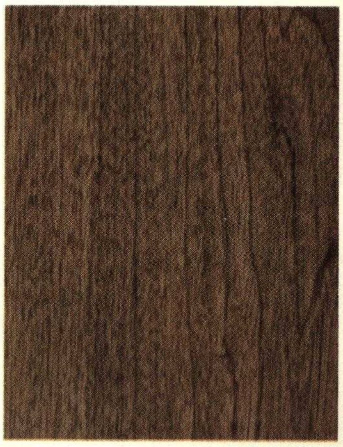
SWEDISH CHERRY



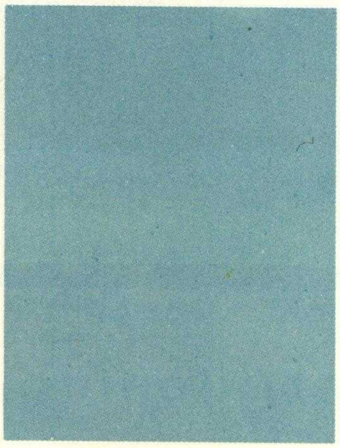
ENGLISH OAK



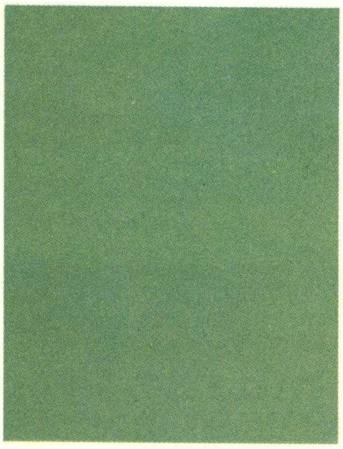
ITALIAN CHERRY



AMERICAN WALNUT

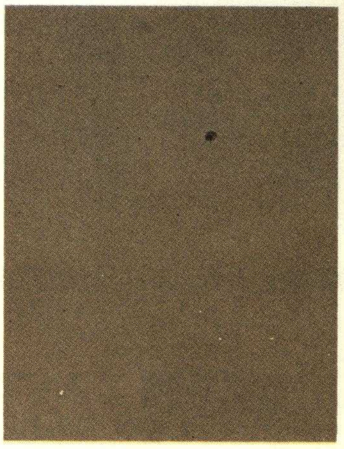


LIGHT AQUA



SAGE GREEN

BEIGE



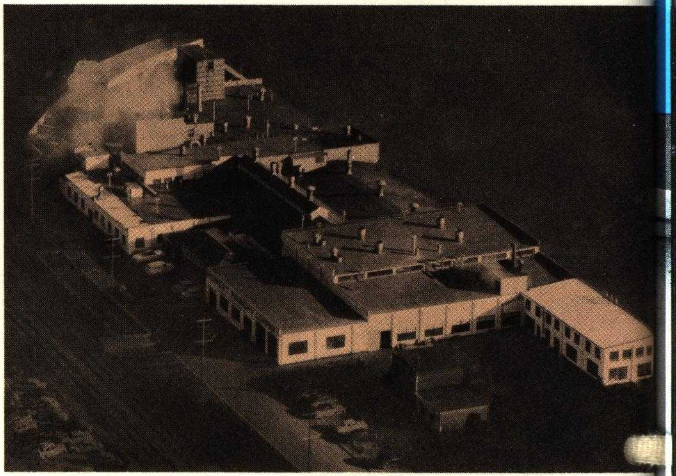
SANDALWOOD

The finishes shown are thermosetting melamine plastic fused to the base material at 275° F. forming a tough, stain resistant surface that is exceptionally easy to maintain.

Economical Type "W" Plywood Paneling (not shown) in an attractive natural wood finish is also available.

Complete specifications on the entire Workwall system are available on request.

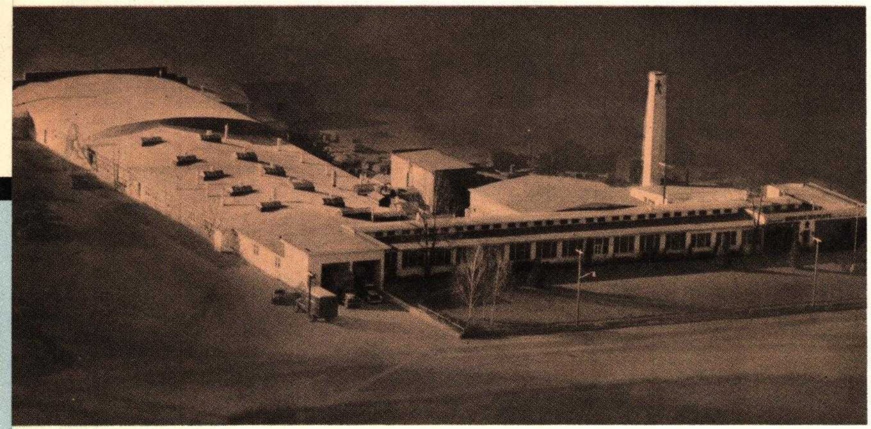
METAL PLANT and EXECUTIVE OFFICE—Bronson, Michigan, 200,000 square feet devoted to fabricating metal.



MIDWEST FOUNDRY DIVISION—Coldwater, Michigan, 80,000 square feet producing sand mold, shell mold and steel castings.

The L. A. Darling Company...

maintains four plants covering approximately 400,000 square feet. For over 60 years the company has operated a successful and steadily expanding business, Initially (and presently) a manufacturer of metal display and merchandising equipment for retail stores... Darling has grown to include Workwall movable partitioning, Panelock walls and attachments for the home, fabrication of Industrial Plastics, plus a wide range of quality castings for the automotive, appliance and implement industries.



PLASTIC PLANT—Coldwater, Michigan, 50,000 square feet devoted to papier-mache, composition, rubber and plastic fabrication.

WAREHOUSE and ASSEMBLY PLANT—Coldwater, Michigan, 65,000 square feet devoted to warehousing and assembly for all plants.

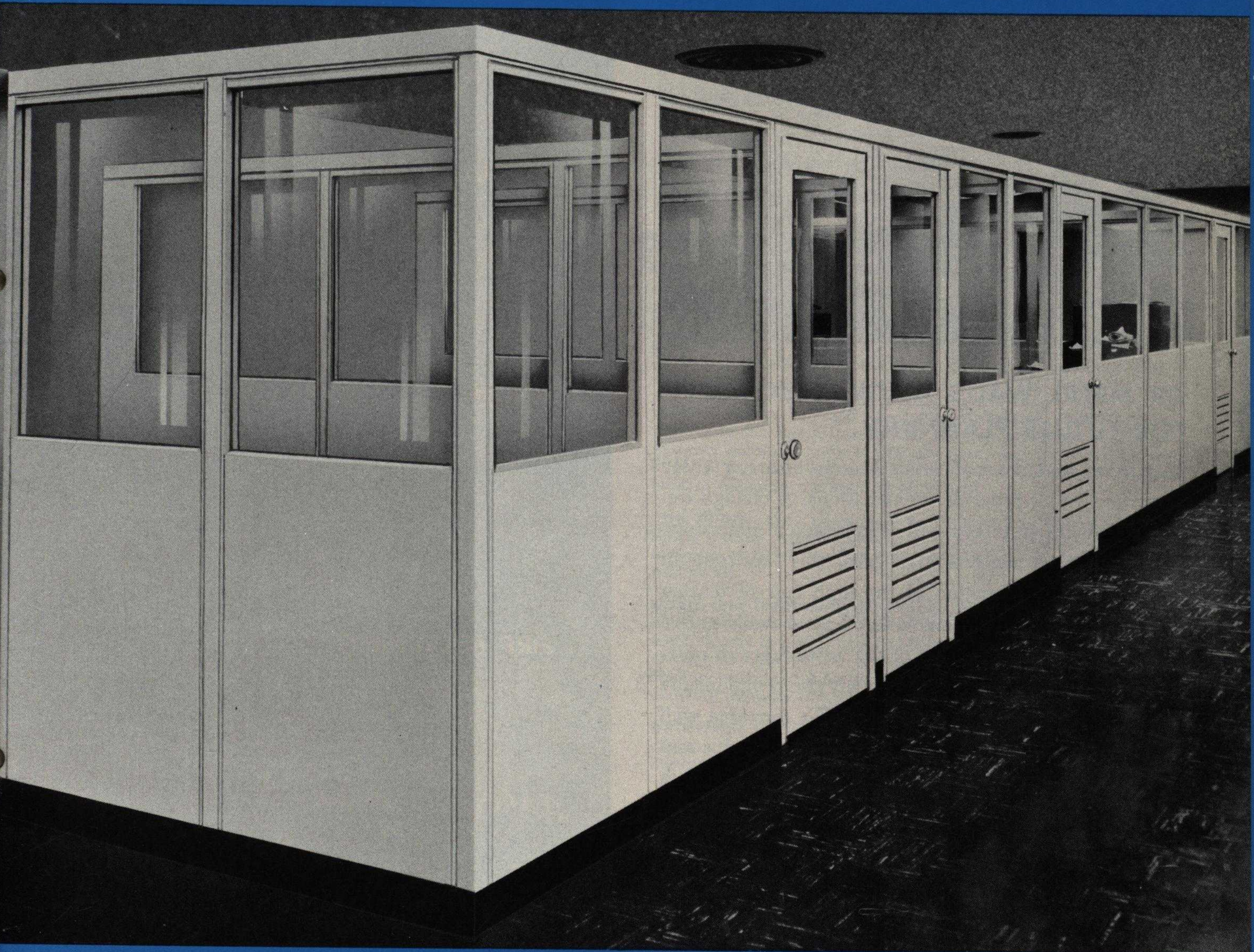
WORKWALL movable partitioning

DIVISION OF L. A. DARLING COMPANY

BRONSON, MICHIGAN

22a
Ga

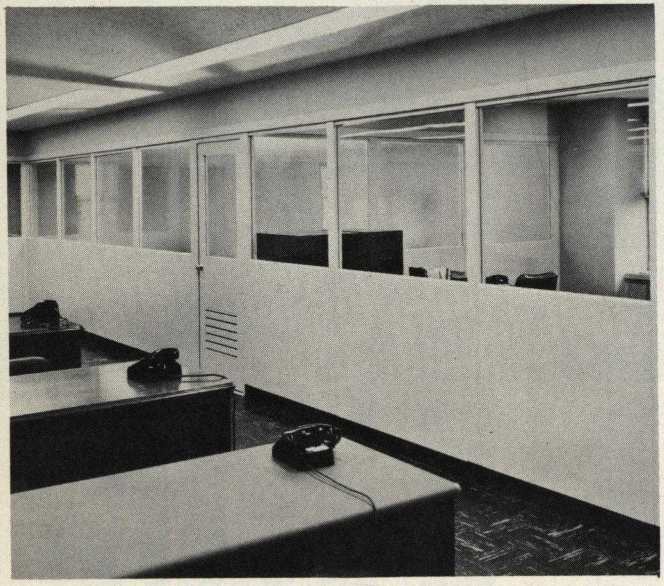
GR METAL WALLS



Adjust to changing needds

Quickly...economically

GR | PRODUCTS INC.
Steel Division — 47-01 35th St.
Long Island City, New York



GR METAL WALLS ALLOW FLEXIBILITY FOR FUTURE PLANNING

Expansion and diversification has become vitally important to all types of organizations. A change frequently makes an increase in office space or rearrangement of offices necessary. In turn, this has brought about a wider realization of the high cost of tearing down and rebuilding conventional type walls and a rapidly growing acceptance of the advantages of movable walls which can be easily, quickly and economically adapted to changing requirements. The movable wall concept is in perfect step with modern conditions and the modern trend toward greater efficiency through maximum flexibility. Recognizing the importance of functional design, GR engineers have developed movable walls which offer the user many practical advantages as well as the satisfying architectural effect of contemporary interior design.

GR METAL WALLS REDUCE CONSTRUCTION COSTS

The building owner can realize a substantial savings in construction costs with GR Metal Walls. They are shipped complete . . . installation time is at a minimum and work area occupancy after erection of the panels is immediate. In new construction the weight of sturdy, rigid GR Metal Walls is less than conventional construction and, as a result, normal building dead loads are reduced as well as the costs involved in structural framing.

10 YEARS OF "KNOW-HOW"

Over 10 years of experience in the fabrication of movable walls and partitions, plus an organization ever alert to modern requirements of industry make it possible for GR to offer continually improved metal walls. Yet these changes in design and erection methods have not been so radical that matching additions to or changes to present installations at a later date are unfeasible.

MODULAR SIZES

GR movable walls are planned in modular sizes which meet the demands of all normal partitioning problems. Fillers and accessories permit adaptability to any type construction and, in instances of unusual space requirements, GR can fabricate special sizes.

FINISH

Two coat baked enamel gives a lifetime finish. This combined with flush lines, provides walls which are easily maintained by ordinary methods. GR Metal Walls are immediately available in a wide selection of standard colors or can be furnished promptly in the color of your choice.

FIRE RETARDING

All frames, panels, cornices, and bases, as well as the glass wool interior lining are of incombustible materials which greatly reduce fire hazards.

EARLY OCCUPANCY

Overhead is reduced by utilizing valuable office or factory space within hours after the panels are erected. There are no costly delays waiting for plaster or paint to dry.

INSTALLATION BY GR . . . ADVISORY SERVICE

To assist you in planning, GR offers the experienced services of its specialists and design engineers. To assure perfect installation GR trained crews are available at strategic locations throughout the country. GR traveling installation supervisors are also available to provide any initial instruction which will enable regular maintenance personnel to install or move GR walls as required.

SPECIFICATIONS

flush type—"B" series and "C" series

Contractor shall furnish and install complete, GR Metal Partitions (Architect: Indicate "B" Series 3″ thick, or "C" Series 2⅜″ thick) as manufactured by GR Products, Inc., Grand Rapids, Michigan.

construction: Partitions shall be assembled from post and panel units of the same thickness and be completely flush across the face of the partition. Partitions to be of hollow metal construction. Panel and door units shall be interchangeable with units of the same size. Units to be manufactured in 6″ increments from 12″ to a maximum of 48″ for solid partitions and 60″ maximum for glazed type. All measurements to be made to centerline of posts. (5″ module available on special order.)

panels: Panels shall be constructed of #20 gauge, cold-rolled, stretcher leveled, steel sheets with horizontal channel reinforcements spot welded to back face of panel. Panels shall be completely packed with rockwool and factory assembled by bolting to #18 gauge post legs. Panel thickness shall be 3″ (for "B" Series) or 2⅜″ (for "C" Series).

posts: Posts shall be composed of the two vertical legs of adjacent panel units rigidly connected with #12 gauge friction type clips. A #18 gauge snap-on pilaster shall provide a closure between the two legs. Pilaster to be readily removable for access to the wireway thus created.

base: Base to be 6″ high and formed of #20 gauge steel. Base shall be slip-on type and readily removable for access to wireway. Base sections shall be individual for each panel unit and adjustable to meet floor variations. Continuous base available on request.

semi-flush type—"D" series

construction: Semi-flush type partitions shall have 3″ thick posts and 2″ thick panels to obtain a paneled effect. Partitions shall be hollow metal construction. Panel and door units shall be interchangeable with units of the same size. Units are to be furnished in 6″ increments from 12″ to a maximum of 48″ for solid partitions and 60″ maximum for glazed type. (5″ module available on special order.)

panels: Panels shall be constructed of #20 gauge, cold-rolled, stretcher leveled, steel sheets with horizontal channel reinforcements spot welded to back of face panels. Panels to be completely packed with rockwool and factory assembled by bolting to #18 gauge post legs. Panel thickness 2″.

posts: Posts shall be composed of the two vertical legs of adjacent panel units rigidly connected with #12 gauge friction type clips. Post thickness 3″. #18 gauge snap-on pilaster shall provide a closure between the legs. Pilaster to be readily removable for access to the wireway thus created.

base: Base shall be 2″ high and formed of #20 gauge steel. Base to be individual for, and fastened to, each panel unit. Vertical adjustment to be provided to meet floor variations.

OPTIONAL ACCESSORIES

Wickets and grilles, hinged or fixed, sliding doors, clutch doors, fire hose cabinets, window embrasures, transoms, column covers, wainscoting, closets and louvers in panels may be specified.

sound absorption: Where the desire is to reduce the noise level in rooms, perforated acoustical panels in all heights of "B" Series may be specified on one or both sides. "C" Series available perforated one side only.

dust proofing: Where it is desired that partitions be dust proof, architects should specify as follows: Doorways shall be provided with thresholds, all doors shall be provided with wipers and all connections at walls, columns, floors and ceilings shall be sealed to provide a dust proof installation.

light proofing: Where it is desired that partitions be light proof, architects should specify as follows: Doorways shall be provided with thresholds, all doors shall be provided with wipers and all connections at walls, columns, floors and ceilings shall be sealed to provide a light proof installation.

maximum sound control: Solid partitions to the ceiling have a sound transmission loss of 42 decibels. When glass panels are used, to insure maximum transmission loss, double glazing may be specified.

fillers to ceiling: Specify fillers from crown to ceiling where desired.

a. Double Mineral Board, taped, spackled and painted to match partitions.

b. Double #20 gauge steel sheets inserted into ceiling channel (packed with rockwool if desired).

c. Single sheet steel ceiling filler.

(Steel fillers **(b)** and **(c)** to be factory finished to match partitions.)

GENERAL SPECIFICATIONS

General Specifications apply to all series partitions and should be added to the specifications of each series.

plinths: Plinths shall be formed of #18 gauge steel and shall be individual for each post. Plinths shall be snap-on type which are readily removable for access to wireway.

crown: Crown shall be a rolled #18 gauge steel member giving rigidity to the panel installation. Crown to provide continuous wireway across the top of the partition, and for receiving top filler. A concealed splice plate shall be provided at each crown joint to maintain rigidity and alignment.

end fillers: End fillers shall be composed of two #20 gauge sheets packed with rockwool. End filler panels to be inserted into wall channel members and assembled in the field to insure perfect fit.

doors and frames: Doors shall be of #18 gauge steel, hollow metal construction, and shall be completely packed with rockwool. Doors to be 1¾″ thick of solid type, with lite, with louver, or with both lite and louver as specified. Adequate reinforcement shall be provided for hardware. Frames to be of the floating type allowing adjustment to insure perfect door operation.

hardware: Hardware shall be GR Products standard hardware latch or lock type as specified, (or architect may specify any hardware desired.)

glass rails: Glass rails to be formed of #20 gauge steel. Top rail to have one friction stop which is removable to permit installation of glass.

glass and glazing: Glass shall be GR Products standard ⅛″ clear or obscure glass as specified, (architect may specify any glass desired). Glass shall be bedded in putty and back puttied. Color of putty shall match partition color.

finish: All exposed surfaces are to be thoroughly degreased and dried before painting. First coat shall be a metal primer and second coat to be baked-on enamel of color selected, eggshell texture.

bracing: Less than ceiling high partitions with no lateral support for 20 ft. or more, shall be braced to the ceiling.

shop drawings: Four copies of shop drawings showing layout, typical elevations and any special conditions shall be furnished for approval before proceeding with work.

The finished work shall be strong and rigid, neat in appearance and free from defects. Partitions shall be erected plumb and true and free from lateral movement in conformance with the highest standards of the industry.

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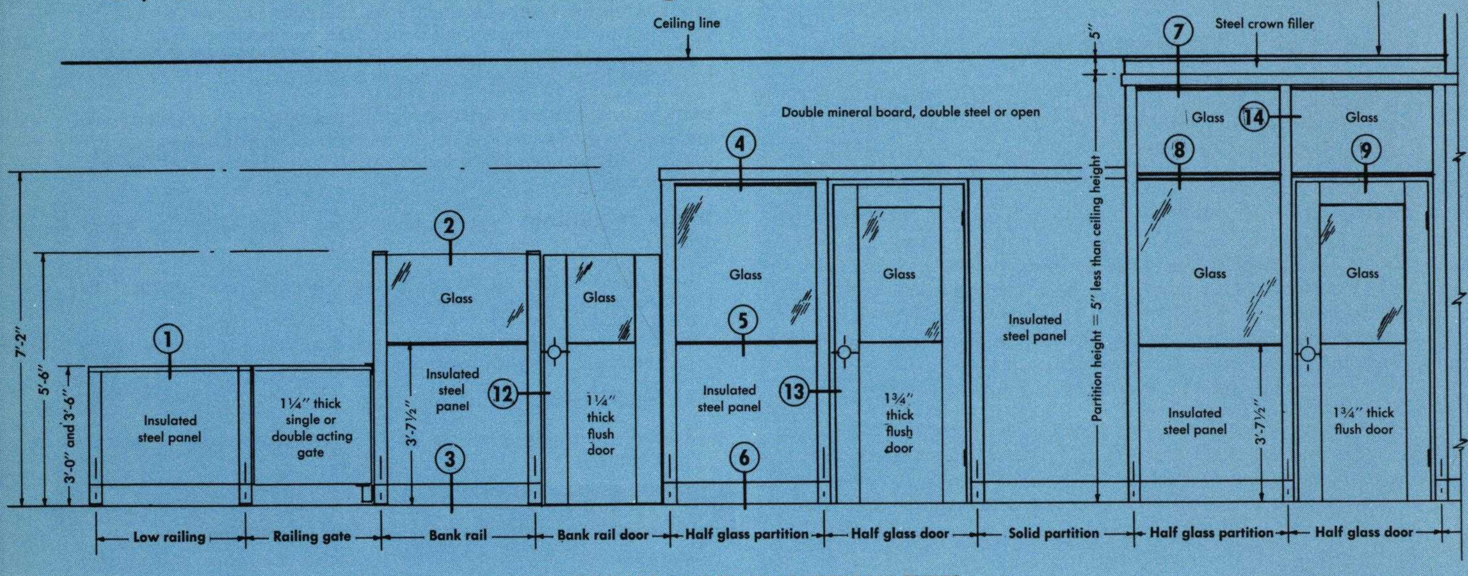
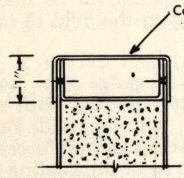
Steel Division — 47-01 35th St.
Long Island City, New York

“B”, “C” AND “D” SERIES—standard heights

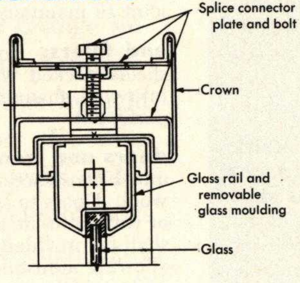

Ceiling line
Ceiling line
Steel crown filler
5″
Double mineral board, double steel or open
Glass
Glass
Glass
Glass
Glass
Glass
Glass
Glass
Insulated steel panel
1¼″ thick single or double acting gate
Insulated steel panel
1¼″ thick flush door
Insulated steel panel
1¾″ thick flush door
Insulated steel panel
Partition height = 5″ less than ceiling height
Insulated steel panel
1¾″ thick flush door
7′-2″
5′-6″
3′-0″ and 3′-6″
3′-7½″
3′-7½″
①
②
③
④
⑤
⑥
⑦
⑧
⑨
⑫
⑬
⑭
Low railing
Railing gate
Bank rail
Bank rail door
Half glass partition
Half glass door
Solid partition
Half glass partition
Half glass door

ELEVATION OF STANDARD PARTITION TYPES

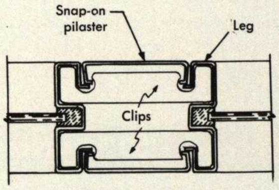
“B” AND “C” SERIES—typical conditions


Continuous capping
1″

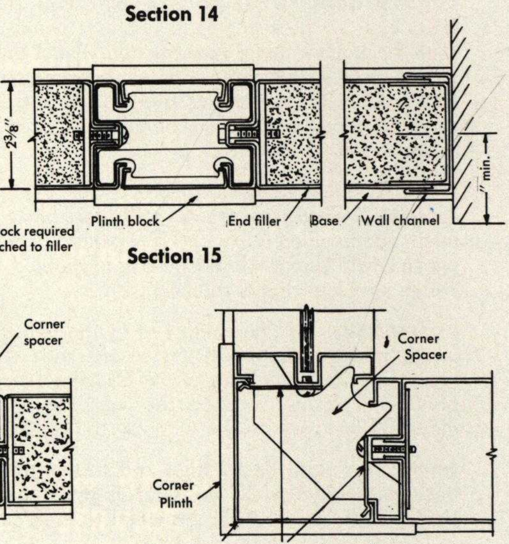
Section 1


Splice connector plate and bolt
Crown connector, angle and bolt
Crown
Glass rail and removable glass moulding
Glass

Section 4

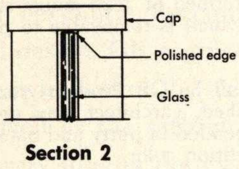

Snap-on pilaster
Leg
Clips

Section 14

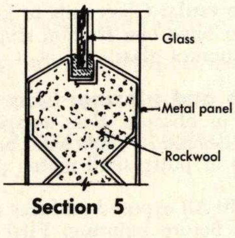

2⅜″
″ min.
Plinth block
End filler
Base
Wall channel

NOTE: No plinth block required where panel is attached to filler

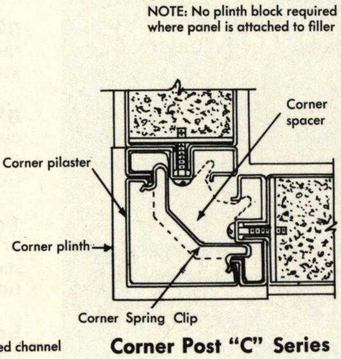
Section 15


Cap
Polished edge
Glass

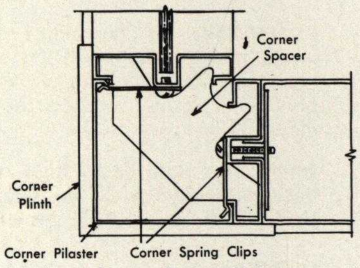
Section 2


Glass
Metal panel
Rockwool

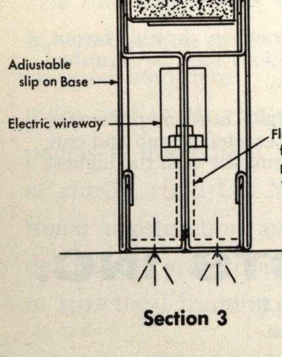
Section 5


Corner spacer
Corner pilaster
Corner plinth
Corner Spring Clip

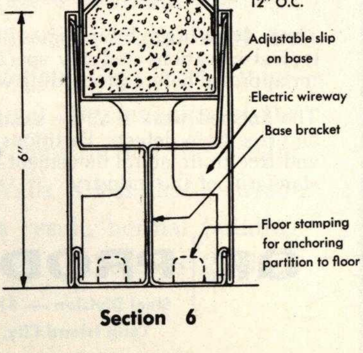
Corner Post “C” Series


Corner Spacer
Corner Plinth
Corner Pilaster
Corner Spring Clips

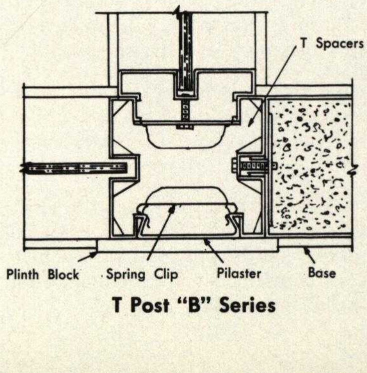
Corner Post “B” Series


Adjustable slip on Base
Electric wireway
Floor plate for anchoring partition to floor

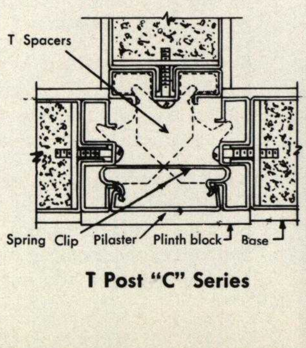
Section 3


Reinforced channel 12″ O.C.
Adjustable slip on base
Electric wireway
Base bracket
6″
Floor stamping for anchoring partition to floor

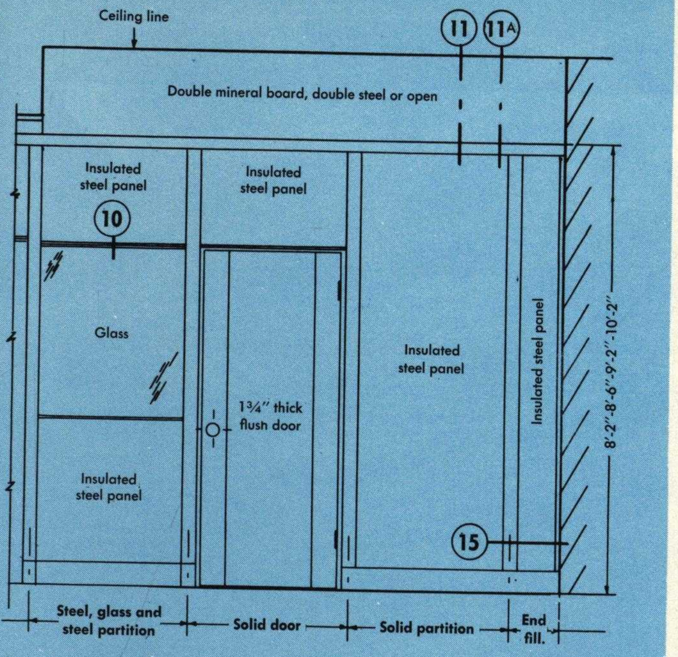
Section 6


T Spacers
Plinth Block
Spring Clip
Pilaster
Base

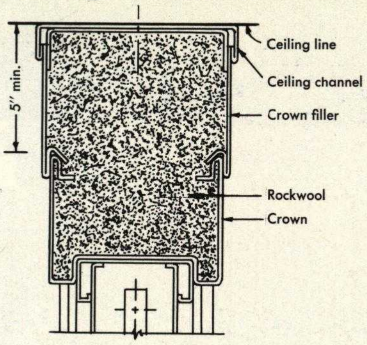
T Post “B” Series


T Spacers
Spring Clip
Pilaster
Plinth block
Base

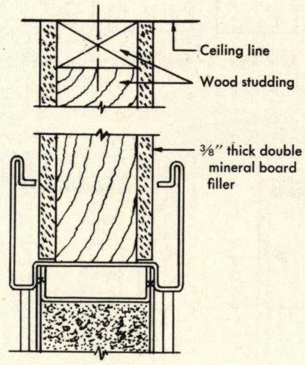
T Post “C” Series


Ceiling line
11
11A
Double mineral board, double steel or open
Insulated steel panel
Insulated steel panel
10
Glass
1¾" thick flush door
Insulated steel panel
Insulated steel panel
Insulated steel panel
8'-2"-8'-6"-9'-2"-10'-2"
15
Steel, glass and steel partition
Solid door
Solid partition
End fill.

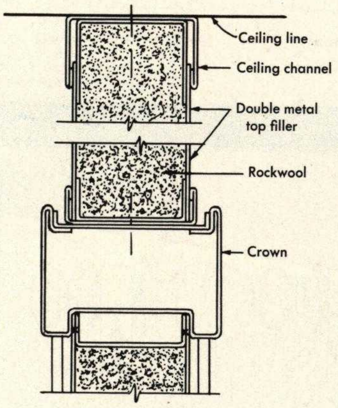
Ceiling Conditions


5" min.
Ceiling line
Ceiling channel
Crown filler
Rockwool
Crown

Section 7

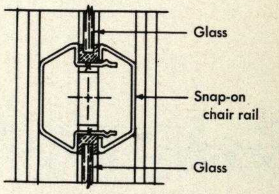

Ceiling line
Wood studding
⅜" thick double mineral board filler

Section 11

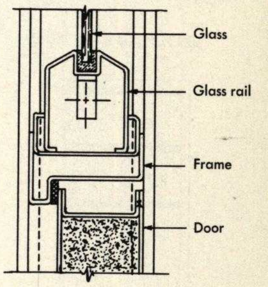

Ceiling line
Ceiling channel
Double metal top filler
Rockwool
Crown

Section 11A

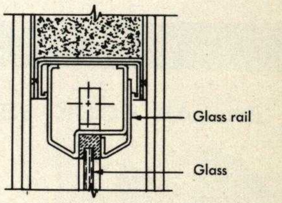
Glass Conditions


Glass
Snap-on chair rail
Glass

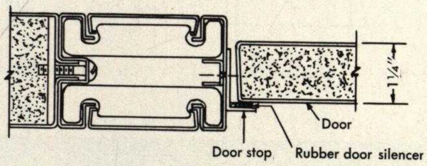
Section 8


Glass
Glass rail
Frame
Door

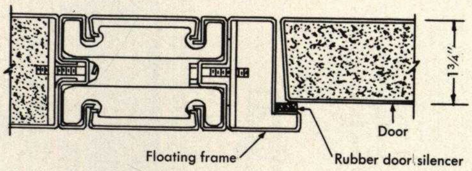
Section 9


Glass rail
Glass

Section 10

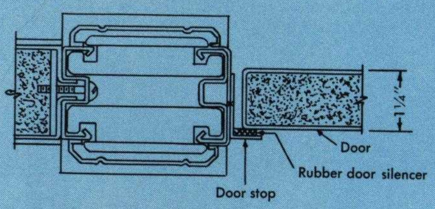

1¼"
Door
Door stop
Rubber door silencer

Section 12

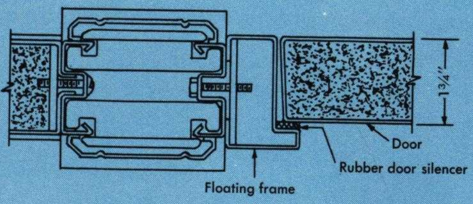

1¾"
Door
Floating frame
Rubber door silencer

Section 13

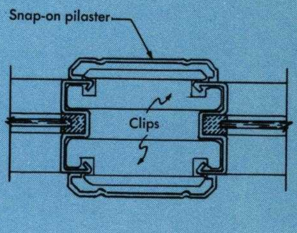
"D" Series Semi-Flush—2" panels—3" post


1¼"
Door
Rubber door silencer
Door stop

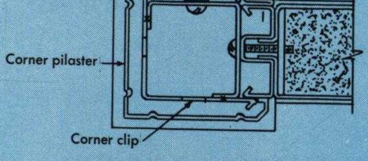
Section 12


1¾"
Door
Rubber door silencer
Floating frame

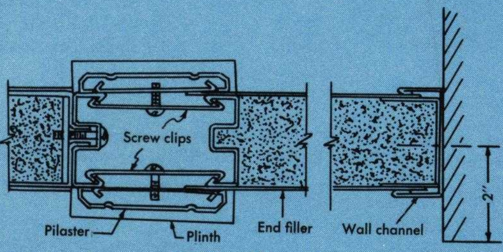
Section 13


Snap-on pilaster
Clips

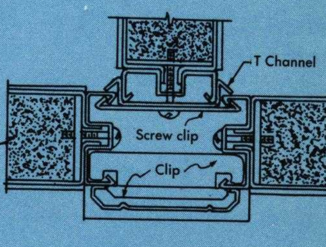
Section 14


Inside corner
Corner pilaster
Corner clip

Corner Post


Screw clips
2"
Pilaster
Plinth
End filler
Wall channel

Section 15

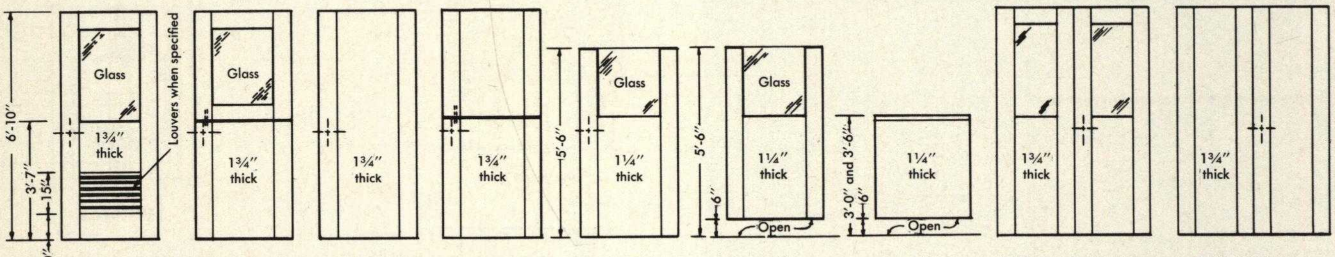

T Channel
Screw clip
Clip

T Post

DOORS • ACCESSORIES • HARDWARE

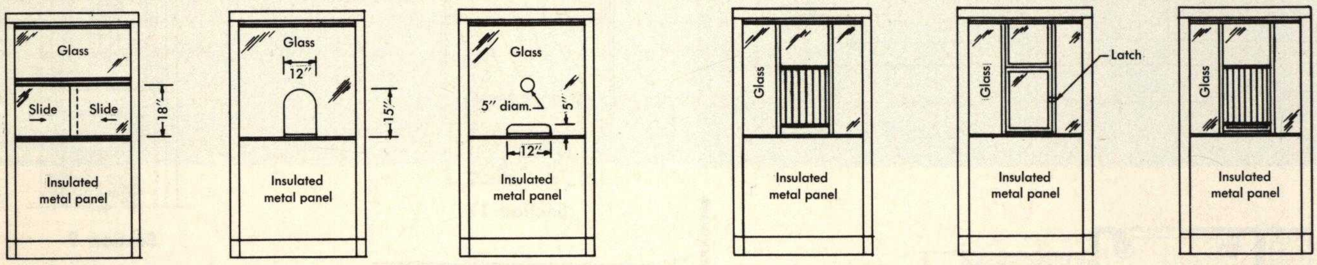
doors

Note: All doors are flush type construction


6'-10"
3'-7"
1 5/8"
10"
Glass
1¾" thick
Louvers when specified
1¾" thick
1¾" thick
1¾" thick
5'-6"
Glass
1¼" thick
5'-6"
6"
Glass
1¼" thick
Open
3'-0" and 3'-6"
6"
1¼" thick
Open
1¾" thick
1¾" thick

Half glass door · Half glass Dutch door · Solid door · Solid Dutch door · Bank rail door · Bank rail gate · Low rail gate · Half glass double doors · Solid double doors

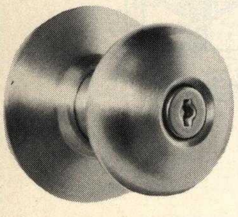
accessories


Glass
Slide
Slide
18"
Insulated metal panel
Glass
12"
15"
Insulated metal panel
Glass
5" diam.
5"
12"
Insulated metal panel
Glass
Insulated metal panel
Glass
Latch
Insulated metal panel
Glass
Insulated metal panel

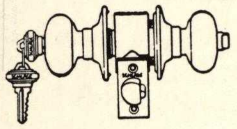
Sliding glass wicket · Information window · Speak hole and cash hole · Stationary grille · Hinged Wicket · Grille and Hinged Wicke'

NOTE: Black Aurora glass shelf supplied when specified

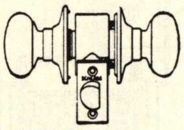
TUBULAR LOCK SETS



SCHLAGE
Plymouth design

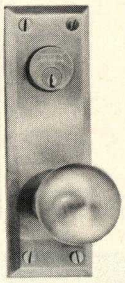


LOCK SET
A51W1
key one side
Th. turn one side

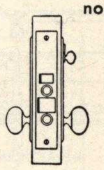


LATCH SET
A10S

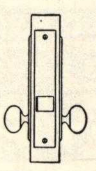
MORTISE LOCK SETS



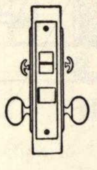
SARGENT
Tarlton design



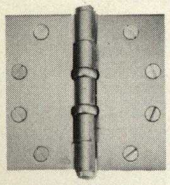
OFFICE LOCK SET no. 6705
outside by key
both sides by knob, outside knob lock by stop in front



LATCH SET
no. 6715

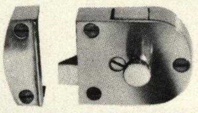


COMMUNICATING LOCK SET no. 6775
Latch bolt both sides independent. Dead bolts from both sides by thumb turn

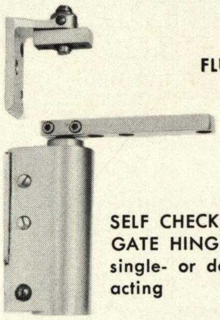


HINGES 4½" x 4½"
2 per door (ball bearing hinge supplied only when specified)

DOOR CLOSER
surface type no. 3
Concealed door closers available when specified

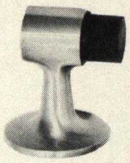


SECRET GATE LATCH



SELF CHECKING GATE HINGE
single- or double-acting

FLUSH BOLT



FLOOR STOP

FOOT ACTION DOOR HOLDER

NOTE: All hardware shown is standard stock hardware. Other hardware can be supplied when required, but will cause delay in delivery. Standard finish — #10 dull bronze: other finishes available on request.

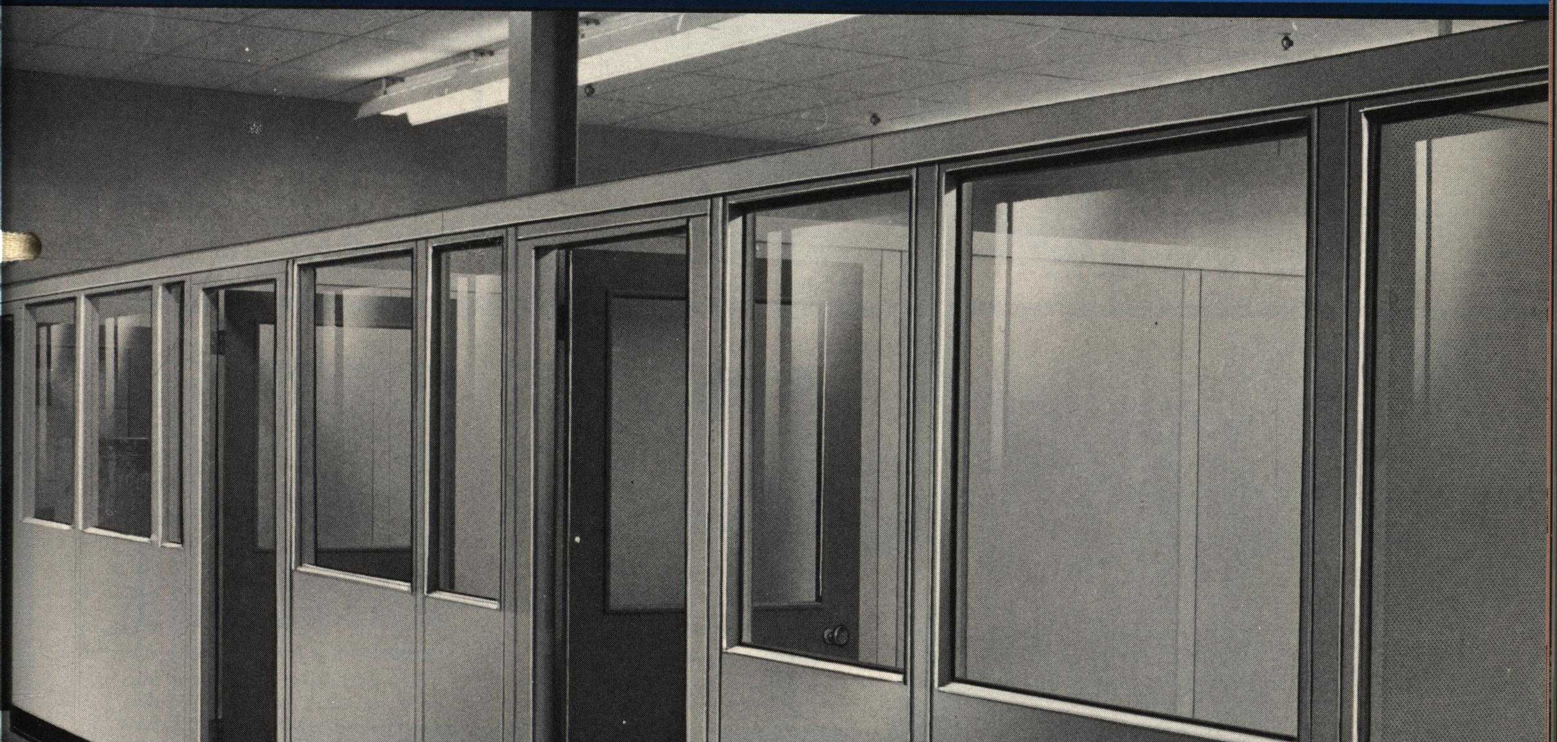
PARTS SUPPLY AND DELIVERY

A complete supply of stock sections and parts is maintained at all times for immediate finishing to meet emergency requirements. GR prides itself on prompt delivery. To assure this important service GR increases its area of distribution of metal partitions only as fast as it is convinced that it can maintain the excellent delivery record which it now enjoys.

GR | PRODUCTS INC.
Steel Division — 47-01 35th St.
Long Island City, New York

GR

MOVABLE PARTITIONS and WALLS



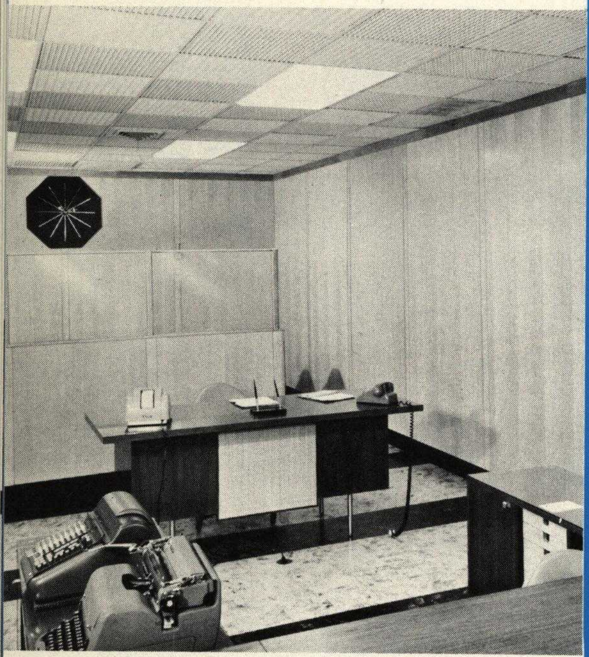
function Plus beauty in movable interiors

GR | PRODUCTS INC.
Wood Division — 2417 Eastern Ave., S.E.
Grand Rapids, Michigan

GR Richland

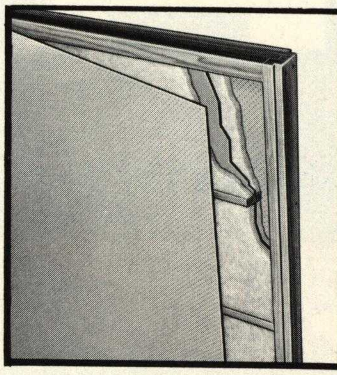
One Matching Design for Varying Requirements in the Same Office

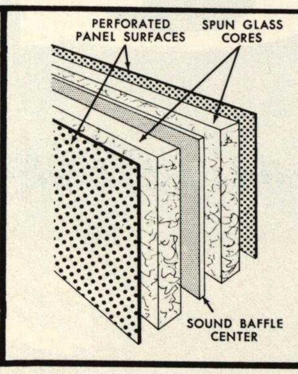
Engineered with one basic wood frame the Richland movable wall system permits a choice of wall surfaces to fit any special requirements – Executive offers plush offices for top management, Soundex for relief in noisy areas, Budgex for general offices or Full Glass for lobbies and halls. Richland panels are 100% salvageable, easy to install, easy to move – and permit easy access for service maintenance. The interior construction, frames, fastenings, leveling devices, cap and base construction of all Richland walls are identical except the Soundex type which features the "floating" acoustical core. Panels join flush with the pilaster presenting a smooth wall surface broken only by a hairline at pilaster. Choice of panel heights from 42″ bankrail to 10′ . . . in 2′, 3′, 3′6″ and 4′ widths. Panel frames braced at 12″ intervals. Panels when joined are securely fastened together by 2″ square metal rings. Pilaster clips to rings, forming flush wall surface. A new type leg bolt eliminates shimming and allows the wall to follow the contour of the floor. A recessed base lifts into wall, then drops into base rail for secure positioning without clips, screws or bolts.



MOVABLE WALL SYSTEM

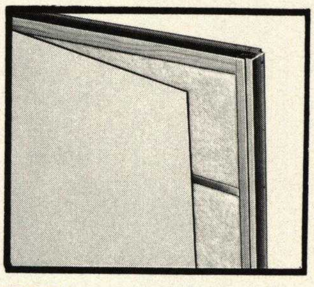
A SURFACE FOR EVERY PURPOSE





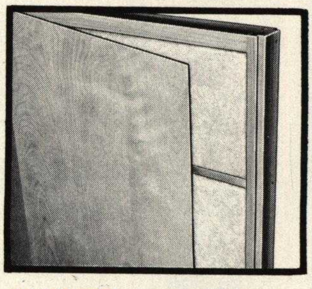
SOUNDEX— Panels 2 ¾″ thick

Soaks up noise as a sponge soaks up water. This partition differs from others shown in that it is an acoustical sandwich formed of perforated surfaces plus acoustical spun glass on both sides of a mineral board baffle. It absorbs and blocks noise. Choice of Sunrise Tan, Spring Green, Morning Grey, Autumn Tan, Summer Green and Twilight Grey, contrasting colored doors.



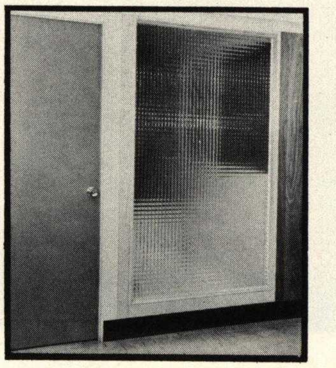
BUDGEX— Panels 2¾″ Thick

Initial cost is less than plaster walls. 100% salvageable. Attractive low-bake enamel ⅛″ tempered presdwood. Presents smooth functional wall. Choice of 6 standard surface colors. Contrasting colored doors.



EXECUTIVE— Panels 3″ Thick

Rich, natural grained wood surface for most exacting requirements of executive offices. Priced low enough to be used in general offices. In natural Birch, Candera, Oak and Walnut or in Birch with a Walnut, Mahogany, Cherry or Fruitwood finish.



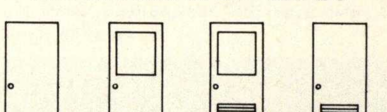
FULL GLASS

Full glass panels are available to harmonize with any of the other GR Richland panels.
In standard panels of 7′2″ to 10′ heights. Widths 2′, 3′, 3′-6″ and 4′. Choice of wide variety of decorative glasses. Glass of 3/16″ thickness or heavier recommended.

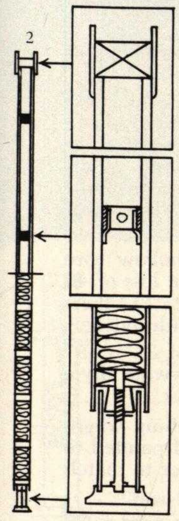
A Plastex Surface is also available. These partitions have plastic surfaces consisting of any wood grain in Marlite patterns.

DOORS

6′8″ High, 3′ Wide
Also Available in 2′6″ and 2′8″



PARTITION-PILASTER HOOK UP...SIMPLE, SURE



CAP

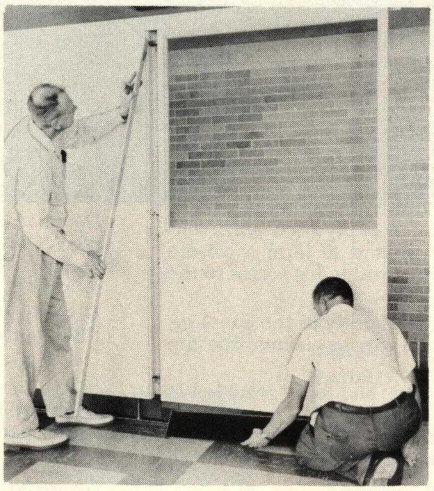
Wire raceway provided in 'H' shaped cap. Access to hollow pilaster is easily accomplished.

EASY CONNECTION

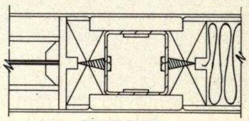
Pilaster connection is easily made. Partitions bolt to metal spacer. Pilaster-faces clip on, presenting a flush pilaster-wall front, readily accessible for inspection or wiring.

BASE

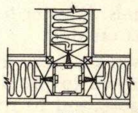
Threaded metal legs raise or lower partition to compensate for uneven floors. Legs rest firmly in floor plate. Presdwood base lifts into partition recess and drops into floor plate.



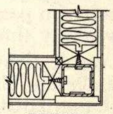
2″ square metal connector is fastened by hex bolts to partition. Connector holds pilaster face in place by clips.



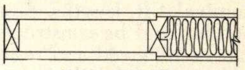
PARTITION PILASTER HOOKUP



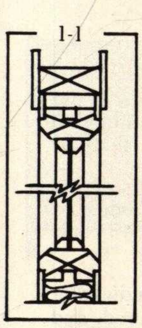
'T' APPLICATION



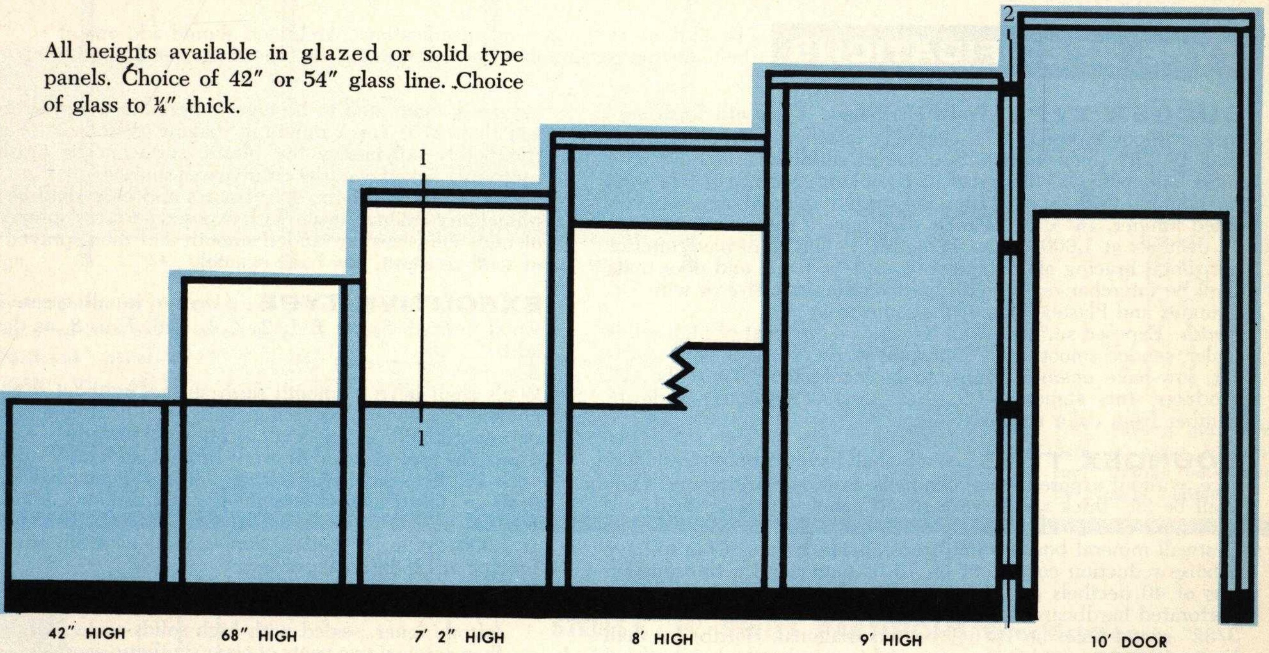
CORNER APPLICATION



WALL FILLER APPLICATION



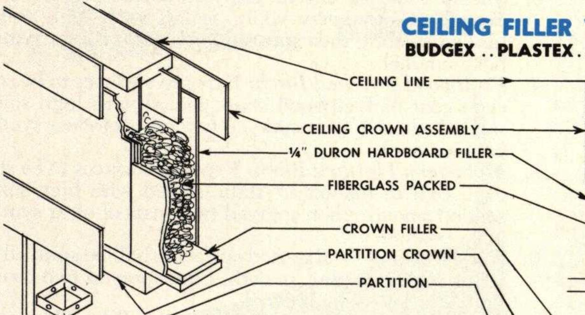
All heights available in glazed or solid type panels. Choice of 42″ or 54″ glass line. Choice of glass to ¼″ thick.


1
1
2
42″ HIGH
68″ HIGH
7′ 2″ HIGH
8′ HIGH
9′ HIGH
10′ DOOR SECTION

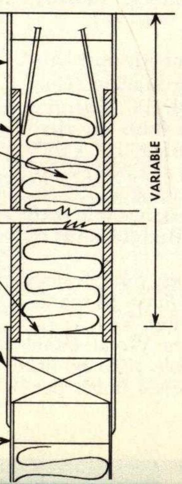
Ceiling high panels to maximum height of 10′ where ceilings are unobstructed.

Where pipes, ducts, and other ceiling obstructions are present, use "R" series ceiling fillers as shown below.

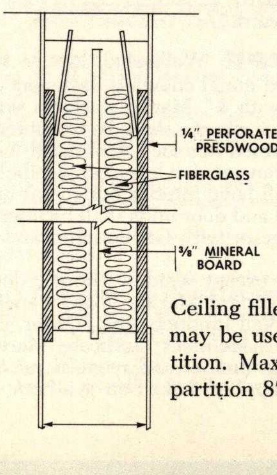
CEILING FILLER "R" SERIES


CEILING LINE
CEILING CROWN ASSEMBLY
¼″ DURON HARDBOARD FILLER
FIBERGLASS PACKED
CROWN FILLER
PARTITION CROWN
PARTITION

BUDGEX . . PLASTEX . . . EXECUTIVE



SOUNDEX


¼″ PERFORATED PRESDWOOD
FIBERGLASS
⅜″ MINERAL BOARD

Ceiling filler or "filler to ceiling" may be used on top of any partition. Maximum height on any partition 8′.

SUPPLY and DELIVERY: a complete stock of panel frames is maintained to expedite emergency requirements.

***Shipment* — all goods packed securely for rail or truck.**

***Installation* — Orders of over 250 lineal feet for installation east of the Mississippi by our crews.**

Free Layout and Estimating Service, write
Wood Division, GR Products, Inc., 2417
Eastern, S.E., Grand Rapids, Michigan

GENERAL SPECIFICATIONS "R" SERIES RICHLAND WALLS

General: Contractor shall furnish ("and install complete", if desired), "R" Series Richland Walls (____________) type. (Architect: Indicate glazed or solid sections or a combination of both), as manufactured by GR Products, Inc., Grand Rapids, Michigan. Walls shall be in heights. (Architect: Specify height. 8′, 7′-2″, 68″ and 42″.) (Special heights to 10′ available.)

Construction: Walls shall be assembled from panels joined with panel connectors which will receive a flush pilaster to form a post between panels. Walls shall be completely flush across the face. Panel units to be manufactured in 2′, 3′, 3′-6″ and 4′ lengths with special fillers as required. All measurements to be made to centerline of post. Construction shall be such that any panel unit may be removed and replaced without disturbing adjacent panels.

Pilasters: Pilasters shall be ⅜″ plastic faced plywood with concealed clips to snap to panel connectors and to form a closure between panels. Pilaster to be readily removable for access to the wireway thus created.

Crown: Crown shall be "H" type to give rigidity to the panel installation. Crown to provide continuous wireway across the top of the partition, and to receive top filler.

Base: Continuous base to be recessed type, and to be provided in nominal 4 ft. lengths. Base shall fit in continuous groove, top and bottom, and be constructed in such a manner that base sections can be removed and re-installed without use of tools. Base shall lock pilaster in place.

Floor Plate: Floor Plate to require no scribing but to follow contour of floor.

Leveling Devices: Panels shall be equipped with leveling devices which shall allow up to ¾″ adjustment to compensate for uneven floors without shimming.

Solid Type Panels: This type shall have solid panels to full height except for base and crown.

Glazed Panels: Glazed type sections shall have solid panels extending from the top of the base to a point (42″ or 54″) above floor. The glass shall extend from the sill line to 6′-10″ with solid panel above in 7′-2″ or higher and to 68″ in bankrail. Walls shall be furnished with (____________) glass, (Architect: Indicate Blue Ridge Glass Corporation Industrex obscure glass or DSB full strength window glass.)

Doors: Doors to be 1⅜″ thick flush, 3′-0″ x 6′-8″ hollow core type. (68″ in bankrail). Doors to have a transmission loss of 40 decibles at 1,000 cycles, or better. (Architect: Indicate (1) flush solid, (2) with lite, (3) with lite and louver, (4) with louver.)

Door Hardware: Doors to be hung with one pair of 3½″ x 3½″ FBT butts. Doors to be prehung with Yale Brandywine Style (____________) sets. (Architect: Indicate latch or lock.)

Fillers to Ceiling: (Specify fillers from crown to ceiling where desired.) Double mineral board, taped, spackled and painted to match partition or GR Products Richland ceiling filler to match walls.

Electrical Wiring: Walls shall have 2″ x 2″ or better wire raceway between panels and continuous 2″ x 4″ lay-in wire raceway in base.

TYPE SPECIFICATIONS

(In addition to the general specifications, Architects should add one of the following paragraphs after determining the type of surface desired.)

BUDGEX TYPE Walls shall have a smooth flush surface, without exposed metal channels, fasteners or bracing. They shall be 2¾″ thick with ⅛″ hardboard surfaces, tempered both sides, and with 1¼″ fiberglas batt packing. Surface sheets shall be mounted flush on rigid frame of straight grained hemlock, kiln dried lumber, 1¼″ x 2½″. Panels shall have a transmission loss of 42 decibels at 1,000 cycles, or better. Panels shall have interior horizontal bracing at 12″ intervals, or less. Panel and door units shall be interchangeable with units of the same size or with GR Soundex and Plastex units of the same size.

Finish: Exposed surfaces shall be sprayed one coat of high solids sealer, sanded smooth and then sprayed two coats of scuff-resistant, low-bake enamel. Finish to be semi-flat. Color to be GR Products, Inc. standard (____________). (Architect: Indicate number from color card.)

SOUNDEX TYPE Walls shall have a smooth flush surface, without exposed metal channels, fasteners or bracing. They shall be 2¾″ thick and have a sound panel with acoustical core consisting of 1¼″ fiberglas layers on each side of a ⅝″ Firestop Bestwall mineral board sound transmission barrier. Core to have a noise reduction coefficient of .75 or better and a transmission loss of 40 decibels at 1,000 cycles, or better. Surface to be ⅛″ perforated hardboard, tempered both sides. Perforations shall be 3/32″ round holes on 17/64″ centers diagonal. Hardboard shall be laminated to rigid frame of straight grain hemlock, kiln dried lumber, 1¼″ x 2½″. Panels shall have interior horizontal bracing at 12″ intervals, or less. Panel and door units shall be interchangeable with units of the same size or with GR Budgex and Plastex type units of the same size.

Finish: Exposed surfaces shall be sprayed one coat of high solids sealer, sanded smooth and then sprayed two coats of scuff-resistant, low-bake enamel. Finish to be semi-flat. Color to be GR Products, Inc. standard (____________). (Architect: Indicate number from color card.)

PLASTEX TYPE Walls shall have a smooth flush surface, without exposed metal channels, fasteners or bracing. They shall be 2¾″ thick with ⅛″ Marlite surfaces with 1¼″ fiberglas batt packing. Surface sheets shall be mounted flush on rigid frame of straight grained hemlock, kiln dried lumber, 1¼″ x 2½″. Panels shall have a transmission loss of 42 decibels at 1,000 cycles, or better. Panels shall have interior horizontal bracing at 12″ intervals, or less. Panel and door units shall be interchangeable with units of the same size or with GR Soundex and Budgex units of the same size.

Finish: All surfaces except window frames, doors, door frames and base shall be standard Marlite Wood Panel finish as manufactured by Marsh Wall Products, Inc., Dover, Ohio, No. ______, ____________. (Architect: Indicate Marlite Wood Panel finish desired, giving number and name if possible.) To be finished with factory applied baked-on synthetic resin finish permanently integrated to be base material at a temperature of not less than 275° for a minimum baking period of 25 minutes to completely polymerize the plastic surface. The finish shall be uniformly baked over the entire panel surface.

Window frames, doors, door frames and base shall be in a complimentary enamel finish, with exposed surfaces sprayed one coat of high solids sealer, sanded smooth and then sprayed two coats of scuff-resistant, low-bake enamel.

EXECUTIVE TYPE (Use A in all cases, indicating wood desired. Select B 1, 2, 3, 4, 5, 6, 7, or 8, as desired, and add.)

A.

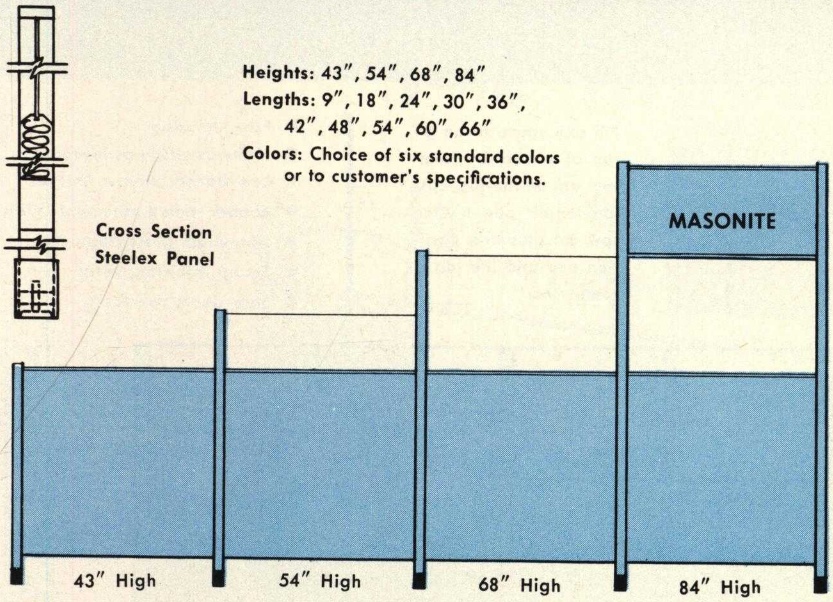
Walls shall have a smooth flush surface without exposed metal channels, fasteners or bracing. They shall be 3″ thick, with 3/16″ natural grained (____________) plywood surfaces. (Architect: Indicate the type of wood desired: Birch, Candera, Walnut or Oak), with 1¼″ fiberglas batt packing. Surface sheets shall be mounted flush on rigid frame of straight grained hemlock, kiln dried lumber, 1¼″ x 2½″. Panels shall have a transmission loss of 42 decibels at 1,000 cycles, or better. Panels shall have interior horizontal bracing at 12″ intervals, or less.

B.

1. *Softone Birch:* Exposed surfaces shall be sprayed one coat of softone toner, sealed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic enamel.
2. *Walnut Finished Birch:* Exposed surfaces to be stained one even coat of walnut stain, sealed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic low-bake enamel.
3. *Cherry Finished Birch:* Exposed surfaces to be stained one even coat of cherry stain, sealed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic low-bake enamel.
4. *Fruitwood Finished Birch:* Exposed surfaces to be stained one even coat of fruitwood stain, sealed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic low-bake enamel.
5. *Mahogany Finished Birch:* Exposed surfaces to be stained one even coat of mahogany stain, sealed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic low-bake enamel.
6. *Natural Candera:* Exposed surfaces shall be sprayed with high solids sealer, sanded smooth, then sprayed two coats of clear synthetic low-bake enamel.
7. *Natural Walnut:* Exposed surfaces shall be filled with natural walnut filler, sprayed with high solids sealer, sanded smooth, and then sprayed with two coats of clear synthetic low-bake enamel.
8. *Natural Oak:* Exposed surfaces shall be filled with natural oak filler, sprayed with high solids sealer, sanded smooth, and then sprayed two coats of clear synthetic low-bake enamel.

STEELEX

Here is portable steel partitioning combining utilitarian function with beauty and versatility. Steelex is the only 2″ flush steel partition on the market. It offers greater strength and stability than other partitions yet is economically priced. A unique internal bracing construction is another feature emphasizing Steelex sturdiness and rigidity. A patented spring tension locking device permits runs up to 15 feet without additional floor anchors. Steelex partitions are available in standard heights from 43″ to 84″ in standard modular lengths and in a choice of six colors . . . Sunrise Tan, Spring Green, Morning Grey, Autumn Tan, Summer Green and Twilight Grey. Installation, moving and servicing of Steelex is easy.



Cross Section Steelex Panel

Heights: 43″, 54″, 68″, 84″
Lengths: 9″, 18″, 24″, 30″, 36″, 42″, 48″, 54″, 60″, 66″
Colors: Choice of six standard colors or to customer's specifications.

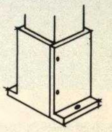
Color — keyed, contrasting stub doors and gates available

GLASS: Clear or obscure, any thickness to ¼″

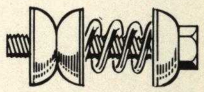
GLASS HEIGHT:	54″ panel — 12″	84″ panel — 24″	68″ panel — 24″
GLASS LENGTH:	9″ — 6⅝″	36″ — 33⅝″	54″ — 51⅝″
	18″ — 15⅝″	42″ — 39⅝″	60″ — 57⅝″
	24″ — 21⅝″	48″ — 45⅝″	66″ — 63⅝″
	30″ — 27⅝″		

STEELEX FEATURES

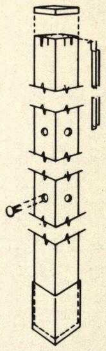
- X-large, rubber footed, adjustable floor glides.
- Aluminum and rubber glass top channel.
- Side glass channel locks fast to partitioning.
- Pressed-fit caps fit snug and tight.
- Post buttons snap in tight, can't come off.
- Stub door available.
- Baked enamel washable surfaces.



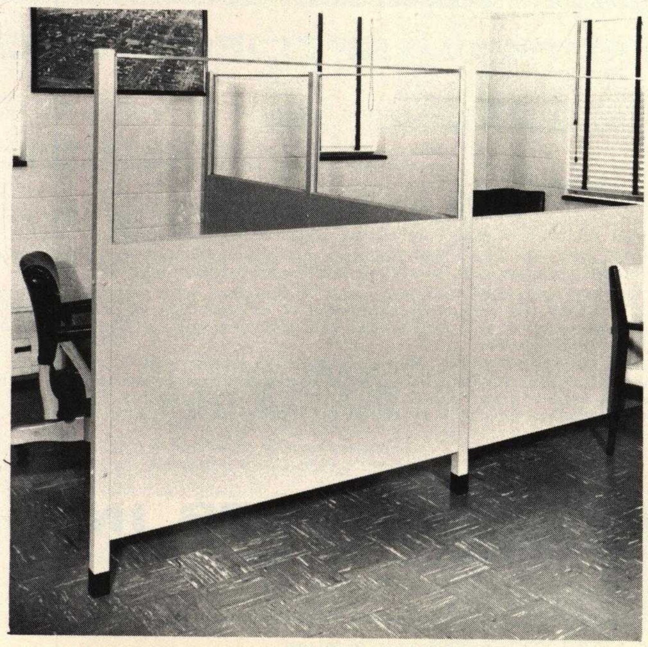
Bracing shoe for long runs insures plumb straight installation.



Patented locking device holds post, provides rigidity. Easy to unlock.



Post showing glass bracket held in place by press-fit cap. Unused holes capped by snap-in buttons.



STEELEX 'M' SERIES PARTITIONS Specifications

Contractor shall furnish and install complete "M" series Steelex partitions in (43″, 54″, 68″ or 84″ as specified) heights as manufactured by GR Products, Inc., Steel Division, 47-01 35th Street, Long Island City, New York.

CONSTRUCTION: Partitions shall be assembled from post and panel units of the same thickness. Panel units to be manufactured in 6″ increments from 18″ to a maximum of 66″ with a 9″ filler panel. Panels and posts shall be so designed as to permit disassembly and reassembly by semi-skilled labor or by shop maintenance personnel. Partition shall have open base 6″ high.

PANELS: Panels shall be constructed of 20 gauge, cold rolled, strecher-leveled sheets with horizontal channel reinforcements spot welded to back face of panel. Panels shall be completely factory assembled and solidly packed with mineral wool. Panel thickness shall be 2″. The lower 3″ of the panel shall contain no insulation to permit the use of concealed wiring.

POSTS: Posts shall be of 18 gauge square steel tubing. All posts shall be prepared to receive interlocking devices on all sides as required. Snap-in buttons shall be provided to fill interlocking provisions not used.

INTERLOCKING DEVICE: Interlocking device between panel and post shall consist of two spring loaded bolts which shall be securely fastened to the post. Assembly shall be accomplished by manual engagement of the interlocking device with the panel without the use of special tools.

LEVELING DEVICE: All posts shall be equipped with a screw type leveling device which will permit adjustment to meet floor irregularities. Leveling devices shall be concealed with 3″ black metal leg cover.

FLOOR ANCHOR: Heavy duty floor anchors shall be provided to be used at all gates and as required elsewhere for rigidity.

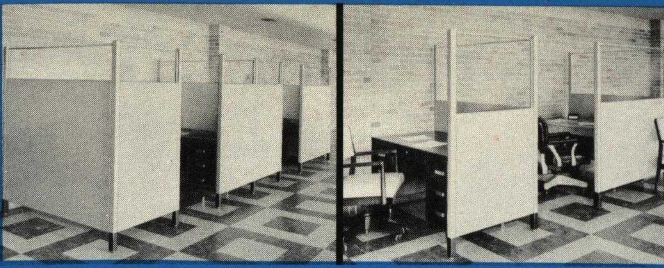
GATES: Gates shall be of same construction as panels reinforced to receive hardware as required. Standard hardware shall consist of 1½ prs. hinges and 1 Schlage A-10-S Latchset.

FINISH: All exposed surfaces shall be thoroughly degreased and dried before painting. First coat shall be a metal primer and second coat shall be baked-on enamel of eggshell texture. Color to be selected from GR Products standard color chart.

GLASS: Glass shall be of the highest quality specified. Glass shall be held firmly in place through the use of plastic glazing moulding without the use of putty.

SOUNDEX

Partitions — for noise control

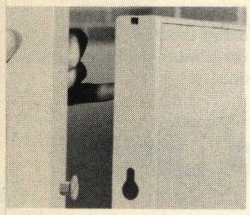


BUDGEX

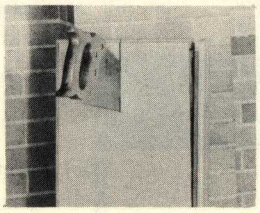
Partitions — for economy

Perforated presdwood surface for noise control. Economical Soundex partitions sound absorbing qualities help increase employee efficiency as well as raise employee morale. The Soundex partitions have a perforated, sound catching surface backed by acoustical spun glass and a sound retarding "floating" core. Partitions are 2″ thick, joined together with a positive locking device to form a flush surface. Available in four styles, 42″ to 68″ in modular lengths and six standard colors.

Budgex offers effective, low cost partitioning adaptable to any company budget. They are filled with spun glass and offer some measure of acoustical control. Budgex partitions also form a flush surface when joined with a positive locking device and are available in four styles, 42″ to 68″ in modular lengths and six standard colors. Partitions are 2″ thick.

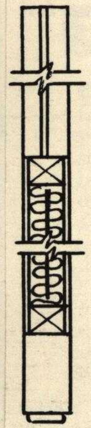


Patented locking device is simple, easy to use. Locks fast, holds securely, easy to disassemble.

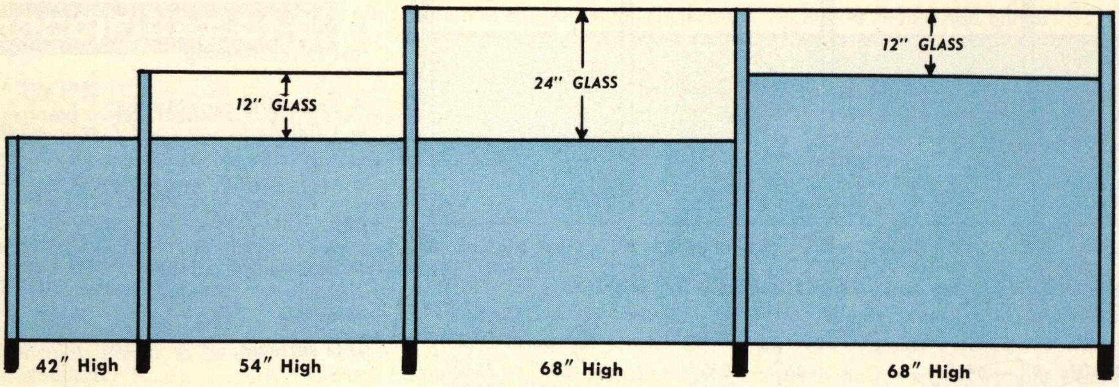


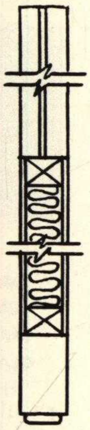
Fill any space in an off run of panels by forming an on-the-job custom-length panel. One saw cut plus one partition end and the job is completed.

- Free standing
- Move as easily as furniture
- Low-baked enamel finishes
- Rubber footed adjustable glides
- Aluminum glass channels
- Sound retarding cores
- Stub doors available



Cross Section Soundex Panel





Cross Section Budgex Panel

Glass: Clear or obscure to ¼″ thickness
Heights: 42″, 54″, 68″
Lengths: 2′, 3′, 4′, 5′ and 5½′
Colors: Sunrise Tan, Spring Green, Morning Grey, Autumn Tan, Summer Green and Twilight Grey

Glass Height
54″ panel — 12″
68″ panel — 24″
68″ panel — 12″

Glass Length
Panel length less 2⅜″
24″ — 21⅝″
36″ — 33⅝″
48″ — 45⅝″
60″ — 57⅝″
66″ — 63⅝″

Accessories

Partition ends, gates, stub doors, chalk boards, peg boards, cork boards.

SOUNDEX • BUDGEX "K" SERIES PARTITIONS • • SPECIFICATIONS

GENERAL: This contractor shall furnish and install complete "K" Series__________ Partitions,__________type. (Architect: Indicate "Soundex" or "Budgex", also (1) 42″ flush type, (2) 54″ type with panel to 42″ and 12″ of glass above, (3) 68″ type with panel to 42″ and 24″ glass above, or (4) 68″ type with panel of 54″ and 12″ glass above.) Glazed type shall have aluminum channel at top and sides and plastic molding at top and bottom of glass. Partitions shall be in 2′, 3′, 4′, 5′ and 5½′ lengths, all as manufactured by GR Products, Inc., 2417 Eastern Avenue, S.E., Grand Rapids 7, Michigan.

CONSTRUCTION: (Architect: Select construction desired, (A) or (B).

(A) SOUNDEX TYPE: Panels and posts shall be 2″ thick. Panels to have ⅛″ perforated hardboard surfaces, tempered both sides, laminated flush on hardwood frames. Interiors to have internal bracing and to be fiberglas packed. Perforations shall be 3/32″ round holes on 17/64″ centers diagonal. Panels shall have a sound absorbing core consisting of ¾″ fiberglas batts surrounding built-up fibrous baffle floated in the fiberglas. Core to have a noise reduction factor of .85 or better. Post to be select hardwood.

(B) BUDGEX TYPE: Panels and post shall be 2″ thick. Panels to have ⅛″ hardboard surfaces, tempered both sides, laminated flush on hardwood frames. Interiors to have internal bracing and to be fiberglas packed. Posts to be select hardwood.

PANEL FINISHES: All surfaces shall be sprayed one coat of high solids sealer, sanded smooth and then sprayed two coats of low-bake lacquer enamel. Finish to be GR Products standard __________, No.__________.

POST FINISHES: Finish to be GR Products standard __________, No. __________, with surfaces to be sprayed one coat of high solids sealer, sanded smooth and then sprayed two coats of low-bake lacquer enamel.

INTERLOCKING DEVICES: Partitions and accessories shall be equipped with interlocking devices such as will permit simple but firm attachment.

LEVELING DEVICES: All posts shall be equipped with screw type leveling devices which will permit an adjustment of at least 1½″, or with adjustable metal shoe such as will permit rigid floor fastening, with leveling devices and shoes interchangeable.

GLASS SPECIFICATIONS: Partitions shall be furnished with (__________) glass. (Architect: Indicate Industrex or Factrolite obscure glass or DSB double strength window glass.) Other glass up to 7/32″ thickness may be specified. Specify whether glass shall be provided by bidder or by separate contract.

ORDER STEELEX, SOUNDEX OR BUDGEX PARTITIONS BY THE LINEAL FOOT

Supply & Delivery — a complete supply of stock sections is maintained at all times for immediate finishing to meet emergency requirements. For complete layout and planning service for steel partitions write GR Products, Steel Division, 47-01 35th Street, Long Island City, New York. For wood partitions write GR Products, Wood Division, 2417 Eastern Ave., S.E., Grand Rapids, Michigan.

GR | PRODUCTS INC.

Steel Division — 47-01 35th St.
Long Island City, New York
Wood Division — 2417 Eastern Ave., S.E.
Grand Rapids, Michigan

22a
Ha

AIA File 35-H-6

H & B aluminum

1⁹⁄₁₆" movable partitions

Patented

Trade Mark copyright 1957

a custom designed partition

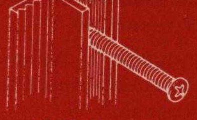
at a stock price . . . .

with your selection of any 1⁹⁄₁₆" paneling

and H & B standard aluminum sections

1960

AIA File 35-H-6



Patented

The SECRET of H & B Movable Partitions is the continuous threaded channel which allows the bolt to be threaded in at any location along the entire strip.

distributed by:

H & B ENTERPRISE CORPORATION

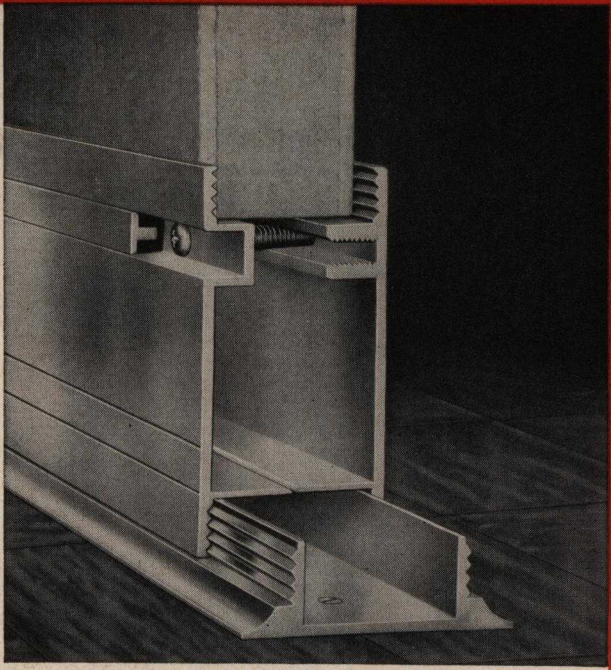
1150 SOUTHARD STREET · TRENTON 8, N. J. EXport 6-3516

*H & B

. . . the movable partition *you* design

- standardized extruded aluminum framing sections of 6063-T5 alloy, natural or anodized (satin) finish
- with your own selection of any 1-9/16″ paneling
- assembled like an "Erector" set
- with a minimum number of bolts
- through the interlocking aluminum components

result: a solid, sound resistant partition . . . movable as the need arises



the key to H & B design
the continuous ribbed channel and the interlocking aluminum sections

Patented

the *advantages* to YOU of the H & B aluminum partition

select your own paneling—and decorate it as you wish

With the H & B aluminum partition a designer is no longer handicapped by stock designs, stock sized panels or specified colors and finishes. Now he is free to choose from a number of preformed 1-9/16″ thick wall panels manufactured by leading companies throughout the country. He may select exactly the type of panel his installation requires . . . for sound resistance, for texture, for material, for cost. Then the selected paneling may be finished in any way most suitable to the office or other location. The manufacturers listed below are some of those recommending H & B sections with their 1-9/16″ panels for custom design and economical job-site fabrication.

Porcelain Enamel Panel • Atlas Enameling Co., Inc., 2020 N. Broadway, St. Louis, Mo.
Cemesto Panel • Celotex Corp., 120 S. LaSalle St., Chicago 3, Ill.
Plastic Faced Panel • Clad Rex Steel Co., 2101 Indiana Ave., Chicago 16, Ill.
Plywood Panel • General Plywood Corp., P.O. Box 1403, Louisville 1, Ky.
Transitop Panel • Johns-Manville Sales Corp., 22 E. 40th Street, New York 16, N.Y.
Insulpanel • Keasbey & Mattison Co., Ambler, Pennsylvania
Fiberglas Panel • Keller Products, Inc., 41 Union St., Manchester, N. H.
Asbestone Panel • National Gypsum Co., 325 Delaware Ave., Buffalo 2, N. Y.
Thermo-Bord Panel • Philip Carey Manufacturing Co., Lockland, Cincinnati 15, Ohio

available in most large cities

The companies listed below, as well as other manufacturers of panels suitable for H & B aluminum partitions have nation-wide distribution and panel stocks are available in most large cities. Any of these local distributors who assemble and deliver the complete partition will be glad to furnish you with information and wall panel details and cooperate in any way possible. Prompt service and delivery from local supplies speed partition installation. H & B has distributors throughout U.S. which handle our parts and the various panels.

economy in erection is assured

- simplicity of design and a minimum number of parts meet every condition and facilitate assembly.
- no specially trained crews are required. Your own men can erect the H & B partition or make immediate changes in layout without extra expense.
- no special layouts are needed. Field installation can proceed directly from architectural plans or rough sketches.
- panels and aluminum framing sections permit field sawing of parts without difficulty or delay. Except for door jambs, which are mitered at factory, all sections require only straight cuts.
- no special tools or equipment are required for original installation or subsequent revisions in layout. All that is needed is ¼″ Drill - Hacksaw - File.

other advantages of H & B aluminum partitions

saves valuable floor space

a partition only 1-9/16" thick saves hundreds of square feet of floor space compared with conventional types of partitions.

appearance

clean-cut and functional are the words describing the H & B aluminum partition. The beautiful natural or satin finish of aluminum may be featured by any panel color or finish you desire.

salvageable for re-erection

the threaded channel and interlocking sections permit easy removal of all bolts and the complete salvageability of all parts for use over and over again as space requirements change. A number of companies have used the same components for many years.

soundproofness and insulation

wall panels may be selected for their soundproofing and insulating value. The paneling manufacturers listed on page 2 state that these characteristics of their panels are equal to any on the market today. YOU choose the one best meeting your own conditions.

complete freedom of design

the H & B aluminum partition is made to your own plans and to meet your own special requirements. Stock materials, sizes, finishes no longer dictate your partition installation. Lay out your partitions as YOU want them.

wiring is simple

the large aluminum battens (shown opposite) accommodate wiring vertically or horizontally and standard full-size base or wall outlets may be located where required.

the manufacturer

the H & B Enterprise Corporation has been producing a wide range of products for the construction industry for 10 years. The Company's long experience in this field, highly trained engineering staff and completely modern manufacturing facilities guarantee the design, the quality and the durability of this unusual partition system.

short form specifications

Partitions shall be as manufactured by the H & B Enterprise Corporation, 1150 Southard St., Trenton N. J.

Architectural floor plans shall be used in conjunction with H & B standard details. Shop drawings shall not be required.

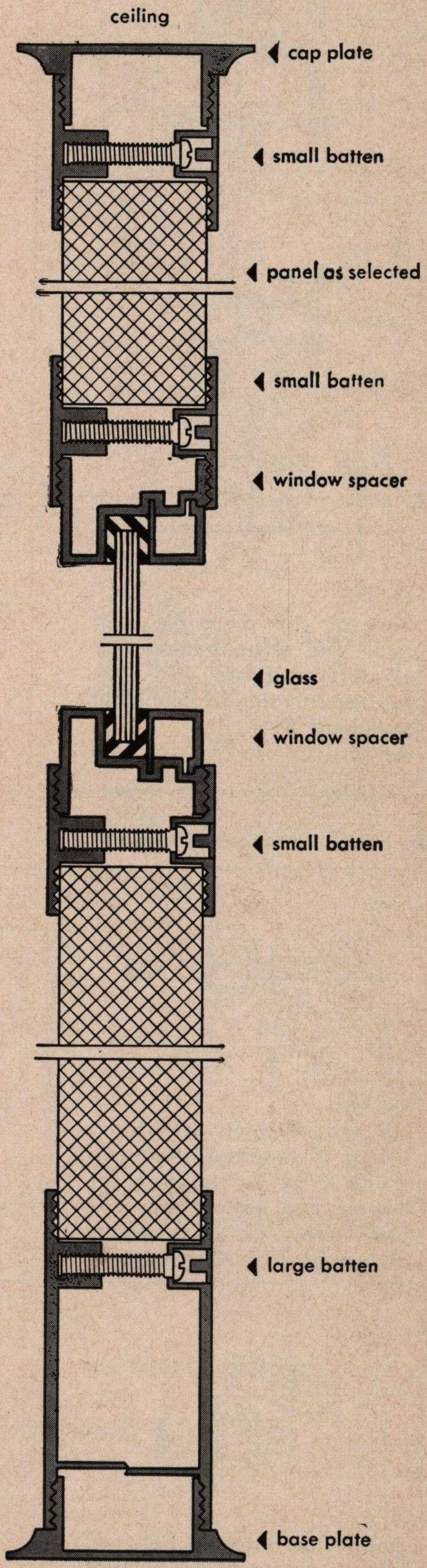
$1\frac{9}{16}$" panels as specified by the architect shall be used with H & B 6063-T 5 aluminum extrusions for Base, Cap, Battens, Door Jamb and Head Mouldings and Intersecting Channels. All extrusions and mouldings to be H & B Standard, designed structurally of required strength and thickness up to .125". Battens and Corners will have Threaded Coupling for easy erection and re-erection. Insulated panels of required decibel sound proofness and insulation characteristics to meet requirements specified by the architect.

All partition component parts shall be interchangeable and salvageable for economical re-erection. All aluminum framing and moulding members shall have straight cuts made without use of special tools. Door Jamb and Head Mouldings shall be mitered at factory. H & B simplified system does not require specially trained crews for erection.

All joints shall be straight and tight. Horizontal lines shall be level and all walls straight and plumb. Finished surfaces shall be thoroughly cleaned and left free of imperfections.

(Doors, door hardware, painting and glass to be furnished by others)

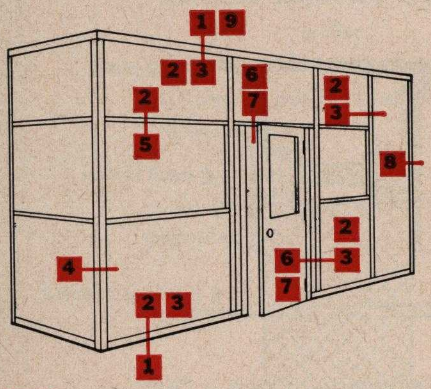
simplified H & B partition erection



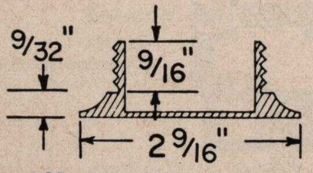
VERTICAL SECTION—½ FULL SIZE

basic components

scale ½ full size



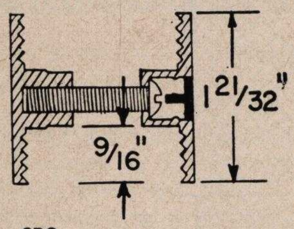
1 base or cap plate



no. BC1

Base or cap plate fits both small and large battens, for all partition bases, and caps for free standing or full height partitions.
Lengths: 12′

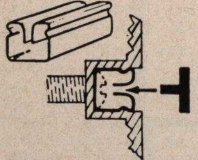
2 small batten



no. SB2

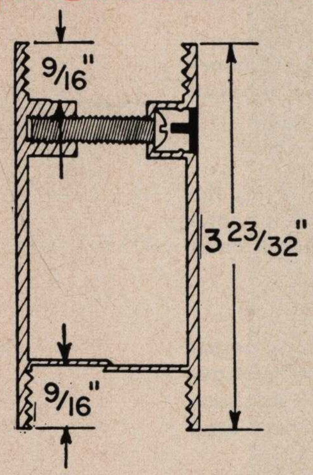
For use at joints where no wiring is required. Joints in sheets to be ⅝″ to allow for batten, and batten bolts approximately 12″ O.C. Available in 8′, 10′, 12′ lengths.

▲ snap-in "T"



Small clips inserted between bolt heads approximately 1′-6″ on center. "T" and clips are furnished with small and large aluminum battens.

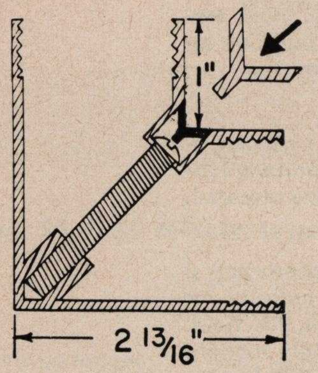
3 large batten



no. LB3

For use wherever wiring is required, to conceal wiring and retain outlet boxes. Bolts in battens are approximately 12″ on center. Lengths: 8′, 10′, 12′

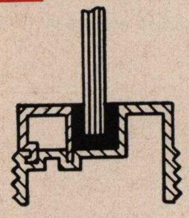
4 corner batten



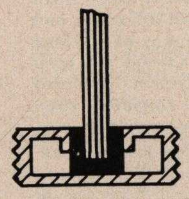
no. CB4

Bolts in batten are approx. 12″ O.C. Small clips inserted between bolt heads approx. 1′ O.C. (comes furnished with "Y" and clips.)
Lengths: 8′-6″, 10′-6″, 12′-6″

5 window spacer



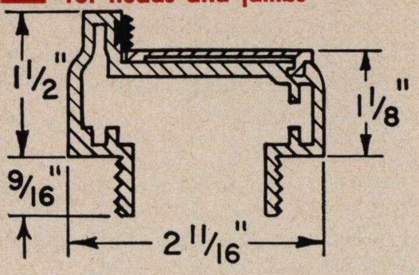
no. WS5



no. RWS5

For use in either large or small batten to frame for glass.
Lengths 6′, 7′, 8′
3/16″ or ¼″ glass—be sure to state glass size

6 door moulding for heads and jambs

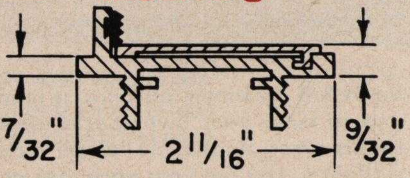


no. DJ6

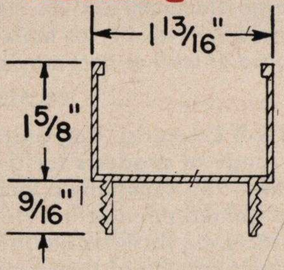
Comes in two sizes: one for doors 1 ⅜″ thick and the other size for doors 1 ¾″ or 2″ thick. Overall dimensions are the same for both types of moulding. Door heads mitred in our factory.
Be sure to state door size.
no. **DJ6** for door heads

7 standard door moulding

no. SDJ7



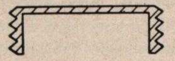
8 intersecting moulding



no. IM8

For use where partition intersects another wall.
Lengths: 10′, 12′

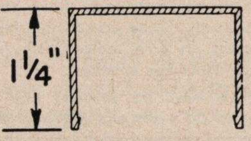
9 flat intersecting channel



no. FIC9

Can be used in place of cap plate. Is used in rail type partition.

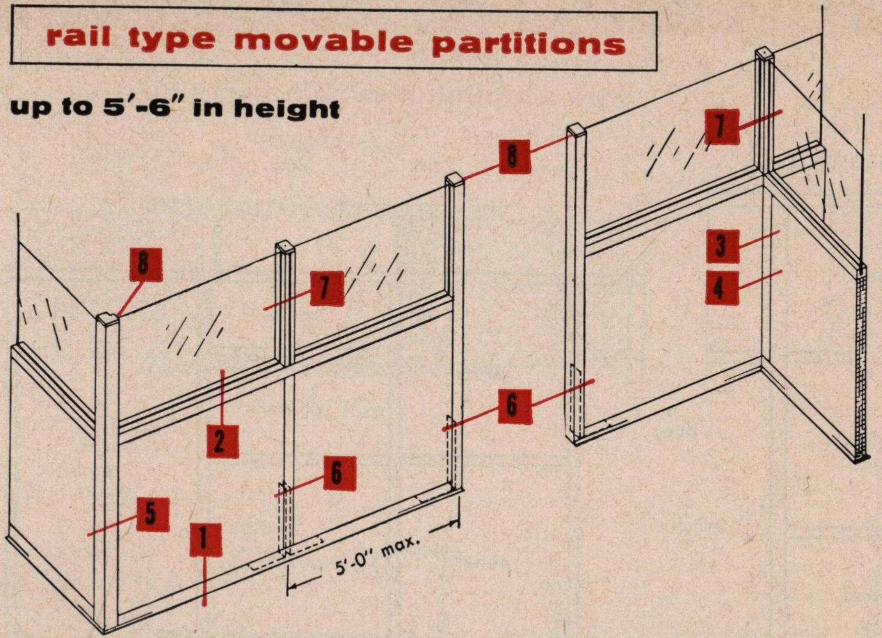
1⁹⁄₁₆″ CHANNEL



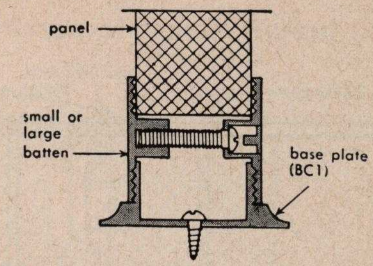
For use under special job conditions.

rail type movable partitions

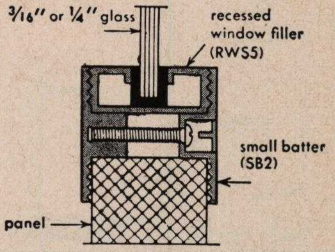
up to 5'-6" in height


8
7
8
7
3
4
2
6
6
5
1
5'-0" max.

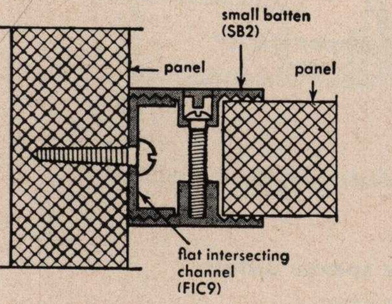
1 base assembly


panel
small or large batten
base plate (BC1)

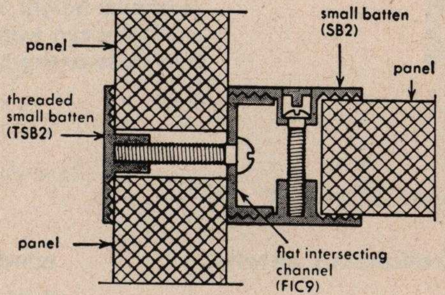
2 horizontal batten


3/16" or 1/4" glass
recessed window filler (RWS5)
small batten (SB2)
panel

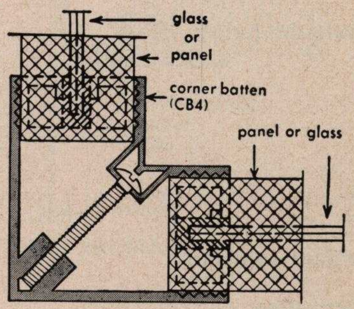
3 intersecting partitions


small batten (SB2)
panel
panel
flat intersecting channel (FIC9)

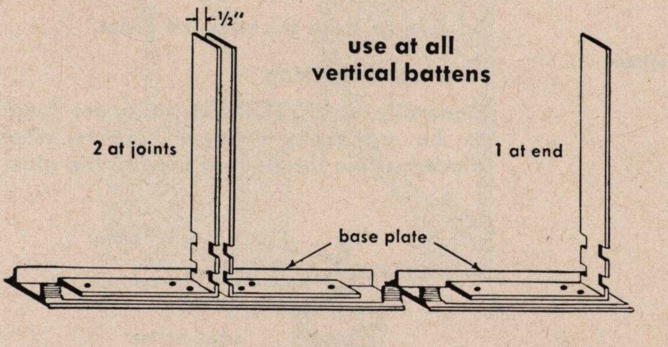
4


small batten (SB2)
panel
panel
threaded small batten (TSB2)
panel
flat intersecting channel (FIC9)

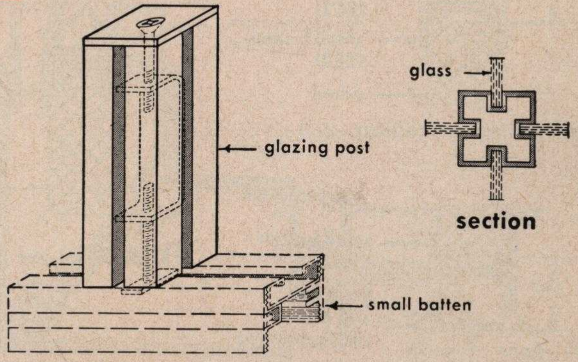
5 corner assembly


glass or panel
corner batten (CB4)
panel or glass

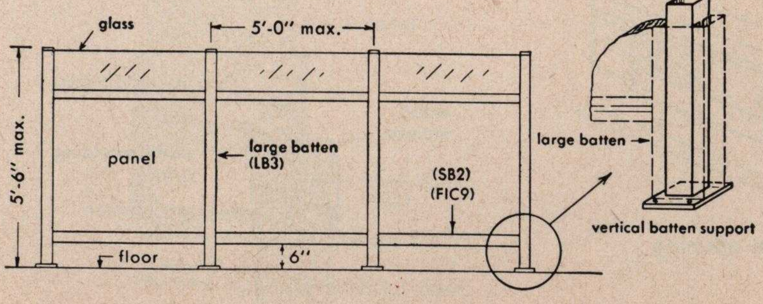
6 vertical angle support


1/2"
use at all vertical battens
2 at joints
1 at end
base plate

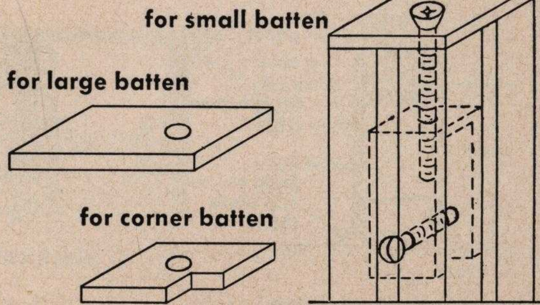
7 glazing post


glazing post
glass
section
small batten

rail type movable partitions with open base

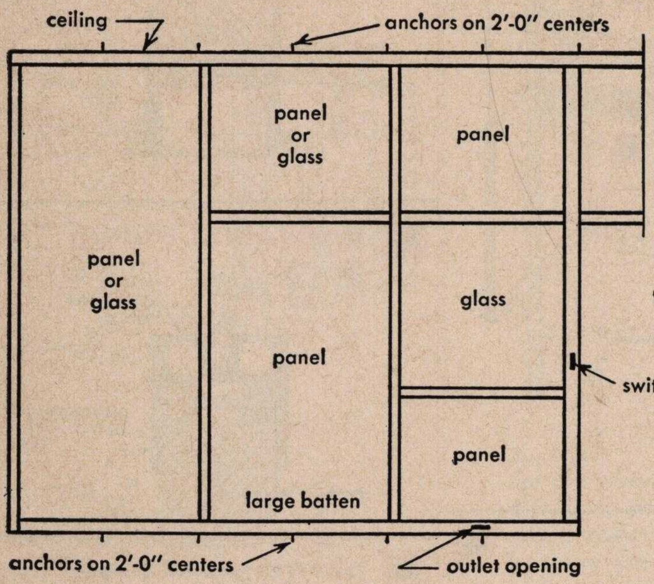

glass
5'-0" max.
5'-6" max.
panel
large batten (LB3)
(SB2) (FIC9)
floor
6"
large batten
vertical batten support

8 top caps


for small batten
for large batten
for corner batten

CONSTRUCTION DETAILS *H & B movable partitions

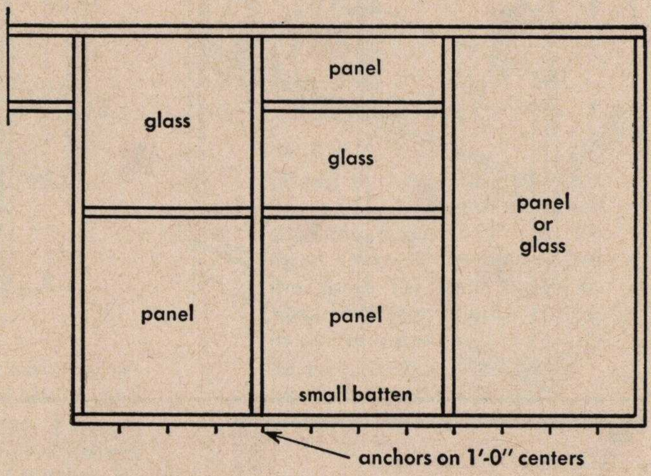
full height movable partitions


ceiling
anchors on 2'-0" centers
panel or glass
panel or glass
panel
panel
glass
panel
door
switch
large batten
anchors on 2'-0" centers
outlet opening

maximum height 12'-0"

with or without wiring

free standing movable partitions

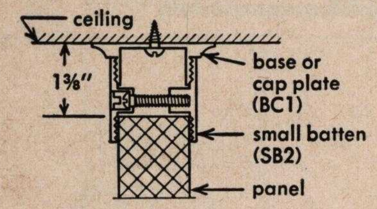

glass
panel
glass
panel or glass
panel
panel
small batten
anchors on 1'-0" centers

maximum height 10'-0"
maximum run without support 16'-0"
free ends anchored

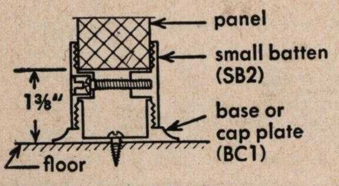
with or without wiring

component combinations scale 3" = 1'-0"

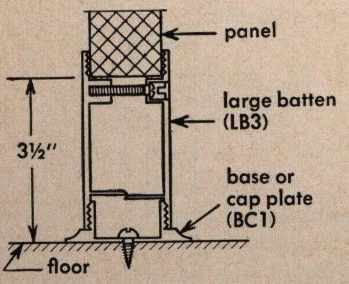
vertical sections


ceiling
1⅜"
base or cap plate (BC1)
small batten (SB2)
panel

small batten at ceiling

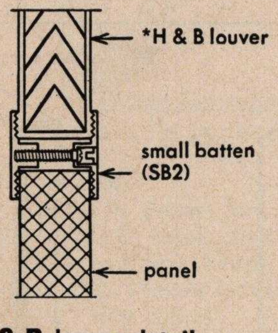

panel
small batten (SB2)
1⅜"
base or cap plate (BC1)
floor

small batten at base

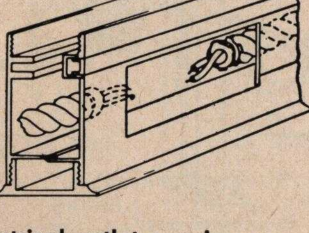

panel
large batten (LB3)
3½"
base or cap plate (BC1)
floor

large batten at base

miscellaneous details


*H & B louver
small batten (SB2)
panel

***H & B louver detail**



electrical outlet opening

window spacer details

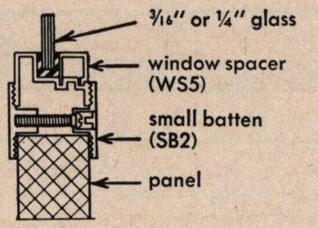
for glass windows

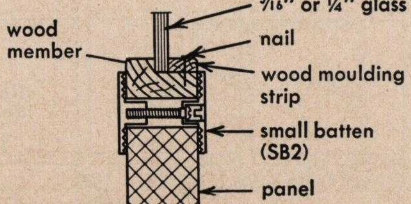
Complete Aluminum Window Spacer with Gaskets, fits either large or small battens.

Be sure to state thickness of glass.

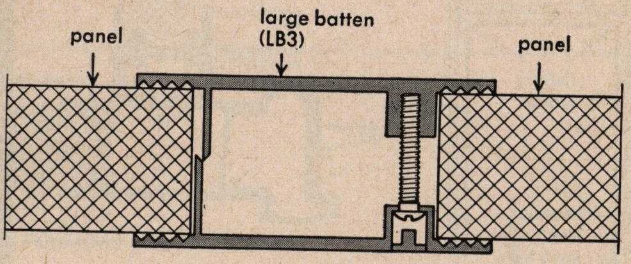
with wood blocking

Generally, strips of wood block are found to be adequate window spacers when placed within the battens around the glass.

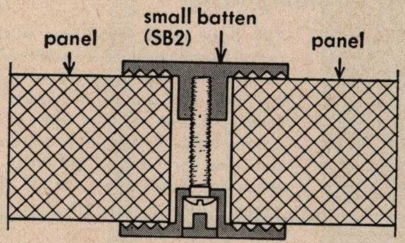

³⁄₁₆" or ¼" glass
window spacer (WS5)
small batten (SB2)
panel


³⁄₁₆" or ¼" glass
wood member
nail
wood moulding strip
small batten (SB2)
panel

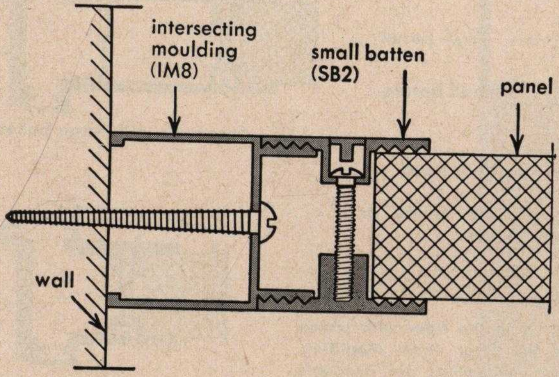
half size details typical conditions


panel
large batten
(LB3)
panel

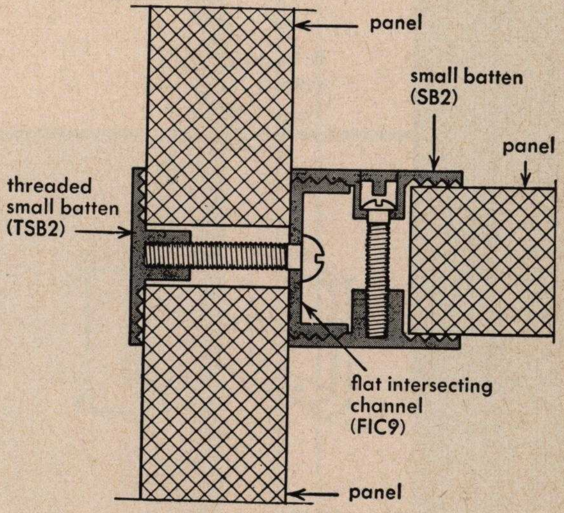
vertical joint


panel
small batten
(SB2)
panel

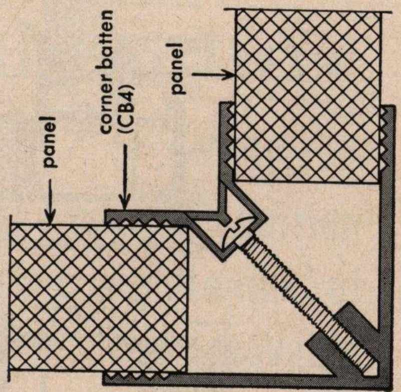
vertical joint


intersecting
moulding
(IM8)
small batten
(SB2)
panel
wall

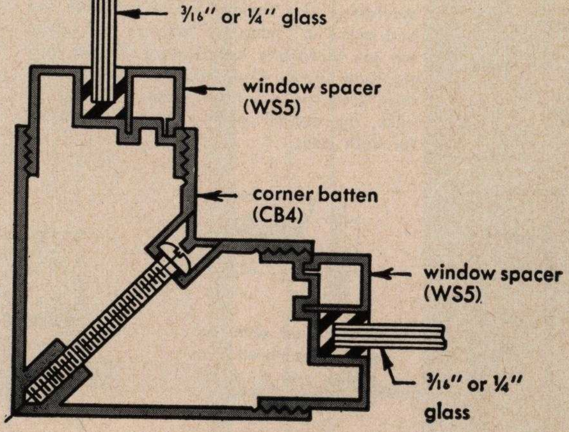
partition intersecting stationary wall


panel
small batten
(SB2)
panel
threaded
small batten
(TSB2)
flat intersecting
channel
(FIC9)
panel

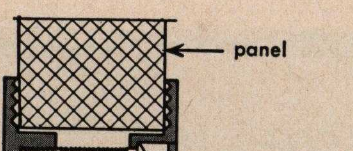
intersection of partitions


panel
corner batten
(CB4)
panel

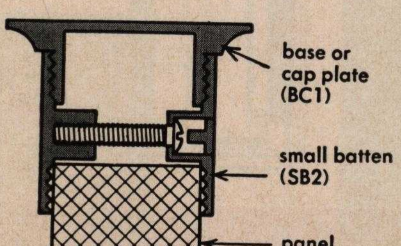
corner detail


3/16" or 1/4" glass
window spacer
(WS5)
corner batten
(CB4)
window spacer
(WS5)
3/16" or 1/4"
glass

corner detail with glass


panel
small batten
(SB2)
flat intersecting channel (FIC9)

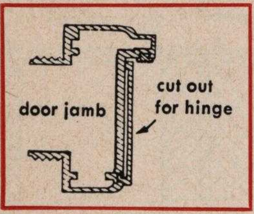
framed opening without door


base or
cap plate
(BC1)
small batten
(SB2)
panel

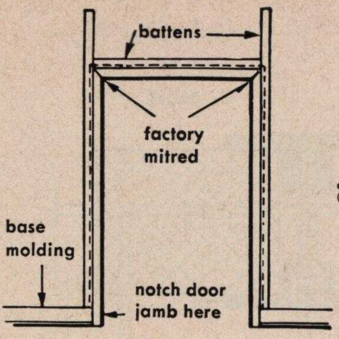
top of free standing partition

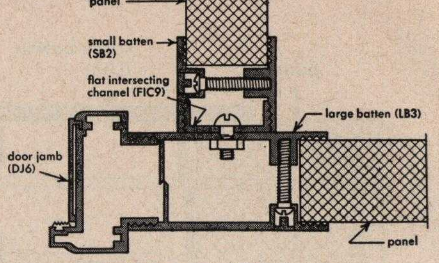
door details

aluminum door moulding (DJ6)

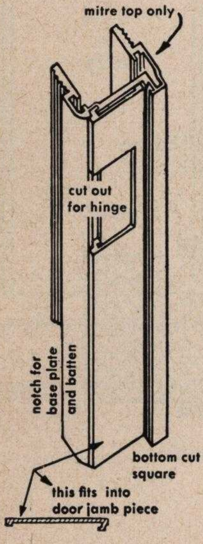

door jamb
cut out for hinge

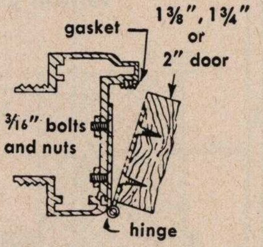
The Door Head Moulding must be mitered to a specific door width. The Door Jamb Mouldings are factory mitered at the top and are 7′ 6″ long; the bottoms are cut on the job to fit any height door. Comes in 2 standard sizes: one size for doors 1⅜″ thick and the other for doors 1¾″ or 2″ thick, the overall dimensions are the same for both sizes.

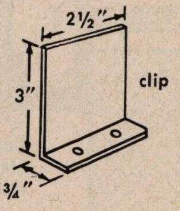

battens
factory mitred
base molding
notch door jamb here

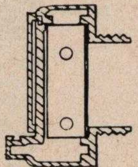

panel
small batten (SB2)
flat intersecting channel (FIC9)
large batten (LB3)
door jamb (DJ6)
panel

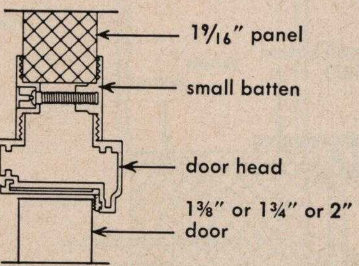
door jamb at partition intersection


mitre top only
cut out for hinge
notch for base plate and batten
bottom cut square
this fits into door jamb piece


gasket
1⅜″, 1¾″ or 2″ door
3/16″ bolts and nuts
hinge

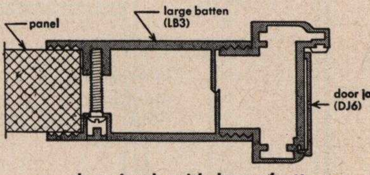




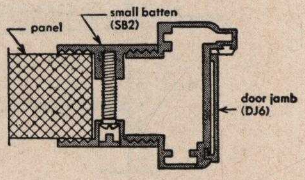

1 9/16″ panel
small batten
door head
1⅜″ or 1¾″ or 2″ door

door jamb clip

Clips are anchored to the floor with screws and set within the Door Jamb Moulding. #12 screws and rawl plugs are available for wood or concrete floor installations.

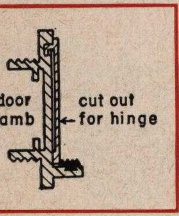

panel
large batten (LB3)
door jamb (DJ6)

door jamb with large batten

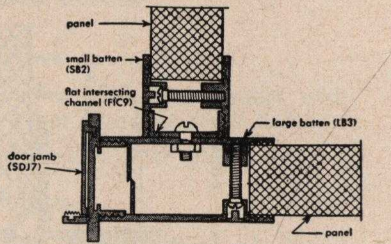

panel
small batten (SB2)
door jamb (DJ6)

door jamb with small batten

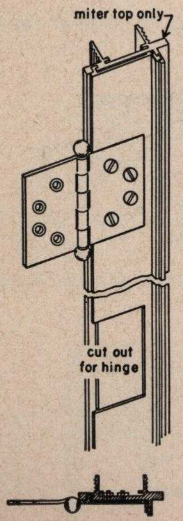
standard door moulding (SDJ7)

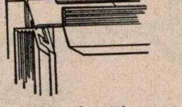

door jamb
cut out for hinge

The Door Head Moulding must be mitered to a specific door width. The Door Jamb Mouldings are factory mitered at the top and are 7′ 6″ long; the bottoms are cut on the job to fit any height door. Comes in 2 standard sizes: One size for doors 1⅜″ thick and the other for doors 1¾″ or 2″ thick, the overall dimensions are the same for both sizes.

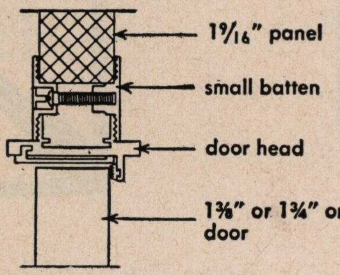

panel
small batten (SB2)
flat intersecting channel (FIC9)
large batten (LB3)
door jamb (SDJ7)
panel

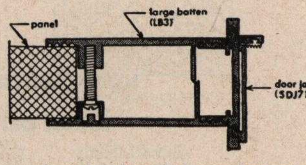
door jamb at partition intersection


miter top only
cut out for hinge

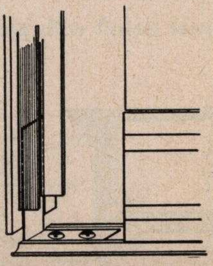


Drop head with angles assembled into jambs and close miters.

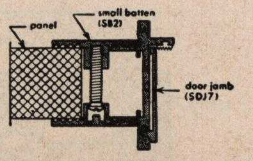

1 9/16″ panel
small batten
door head
1⅜″ or 1¾″ or 2″ door


panel
large batten (LB3)
door jamb (SDJ7)

door jamb with large batten



Drop jambs down over angles attached to floor.


panel
small batten (SB2)
door jamb (SDJ7)

door jamb with small batten

HAUSERMAN • HAUSERMAN • HAUSERMAN • HAUSERMAN • HAUSERMAN

signature

by Hauserman

... the newest addition
to a complete-line* of
movable
interior walls

*Which includes:

DELINEATOR • TYPE HP
SERIES CC • DIVIDER-WALL

Specific detailed literature is available for any Hauserman wall system on request. See address and telephone listing on back cover . . . or write direct:

THE E. F. HAUSERMAN CO., 7592 GRANT AVE., CLEVELAND 5, OHIO

THE E. F. HAUSERMAN COMPANY

Half a century of precision prefabrication is the background behind the design of the newest Hauserman movable walls—Signature.

Beginning in the infancy of the mass production movement, Hauserman pioneered the idea of furnishing building materials at the construction site, on an installed complete basis. This, combined with a unique policy of nationwide service, the creation of new designs in wall systems, and a reputation for quality and service, has established The E. F. Hauserman Company as the leader in the partition industry.

As the world's largest manufacturer of movable interior walls, Hauserman has the design and production facilities, the skilled craftsmen, the assembly line know-how, to offer you the very latest in proven movable wall designs and the economies of prefabrication. Extensive plant capacity and mechanization of operations, assures you fast, accurate and efficient service.

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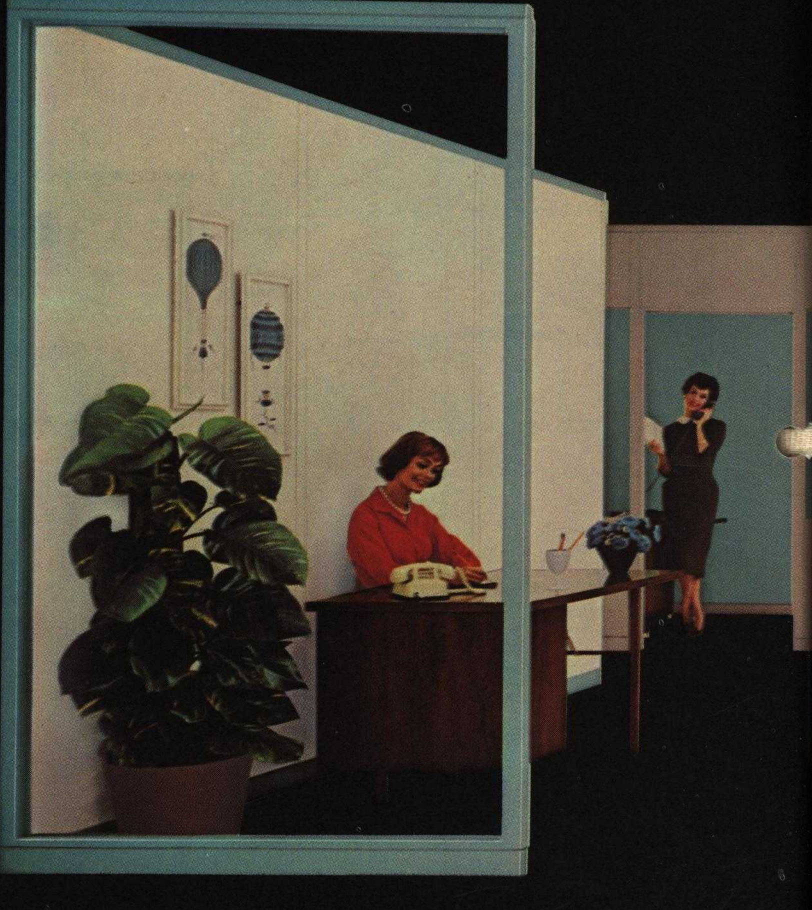
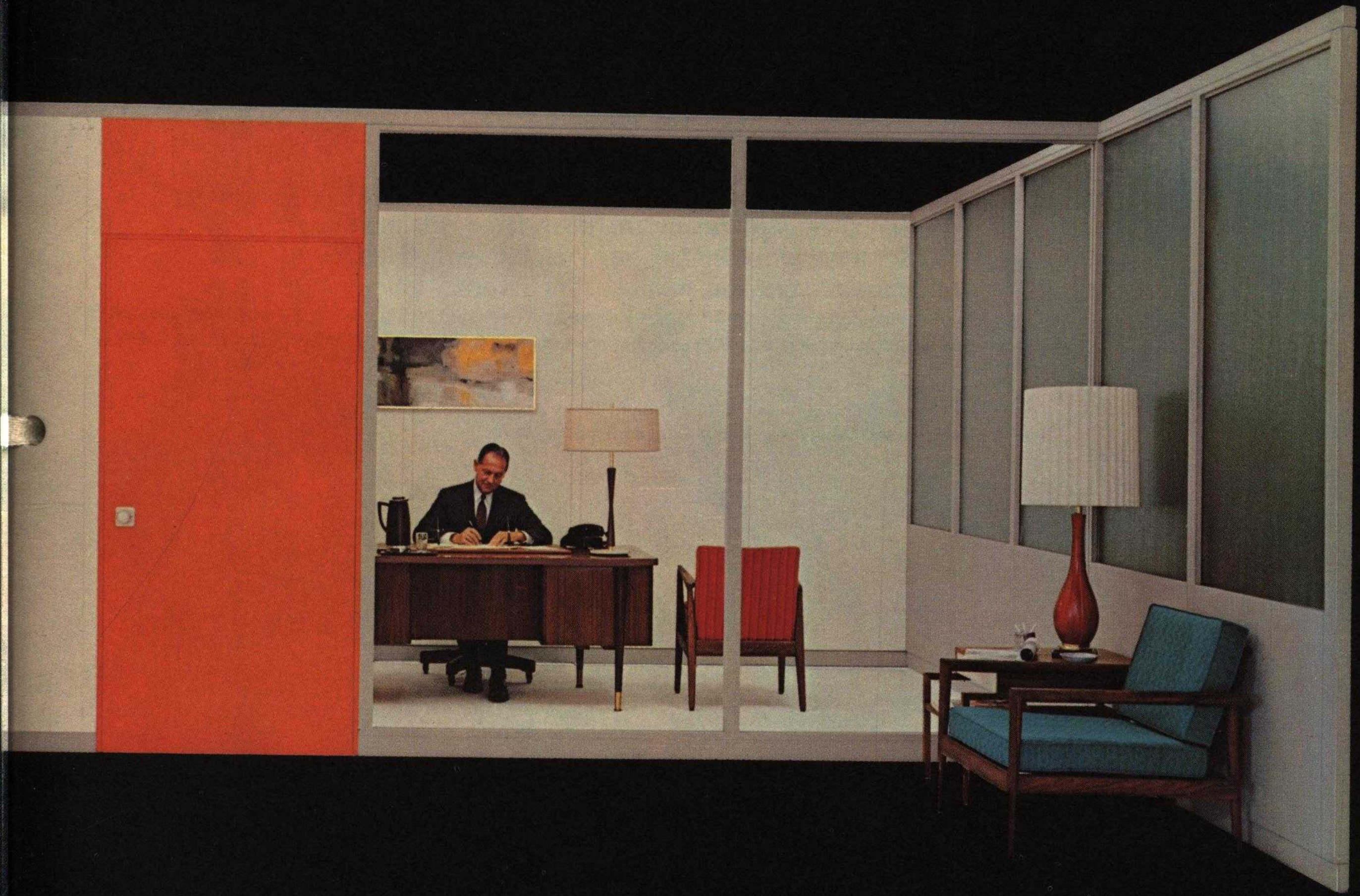
Typical Signature Applications . 9 thru 12
Basic Product Features 14, 15
Basic Design and Technical Planning Data 16, 17
Elevations—Product Details—Specifications . . . . . 18 thru 31
Index 31
Branch Office Address Listing . . Back Cover



distinctively new . . . .
architecturally attractive . . . .
universally adaptable

signature

by Hauserman



Signature . . . by Hauserman . . . tailors space to your needs with crisp, modern lines; offers universal application and function in both new and old buildings.

Signature has the slimness required for proper proportion. It offers the slimness that good architecture requires. Signature panels and posts are only 2¼″ thick with all of the benefits inherent in more cumbersome wall systems, plus new advantages in flexibility, application and appearance.

Simplicity characterizes Signature. It is designed and engineered to achieve strength without bulk, precision without complication, and beauty without sacrifice of function.

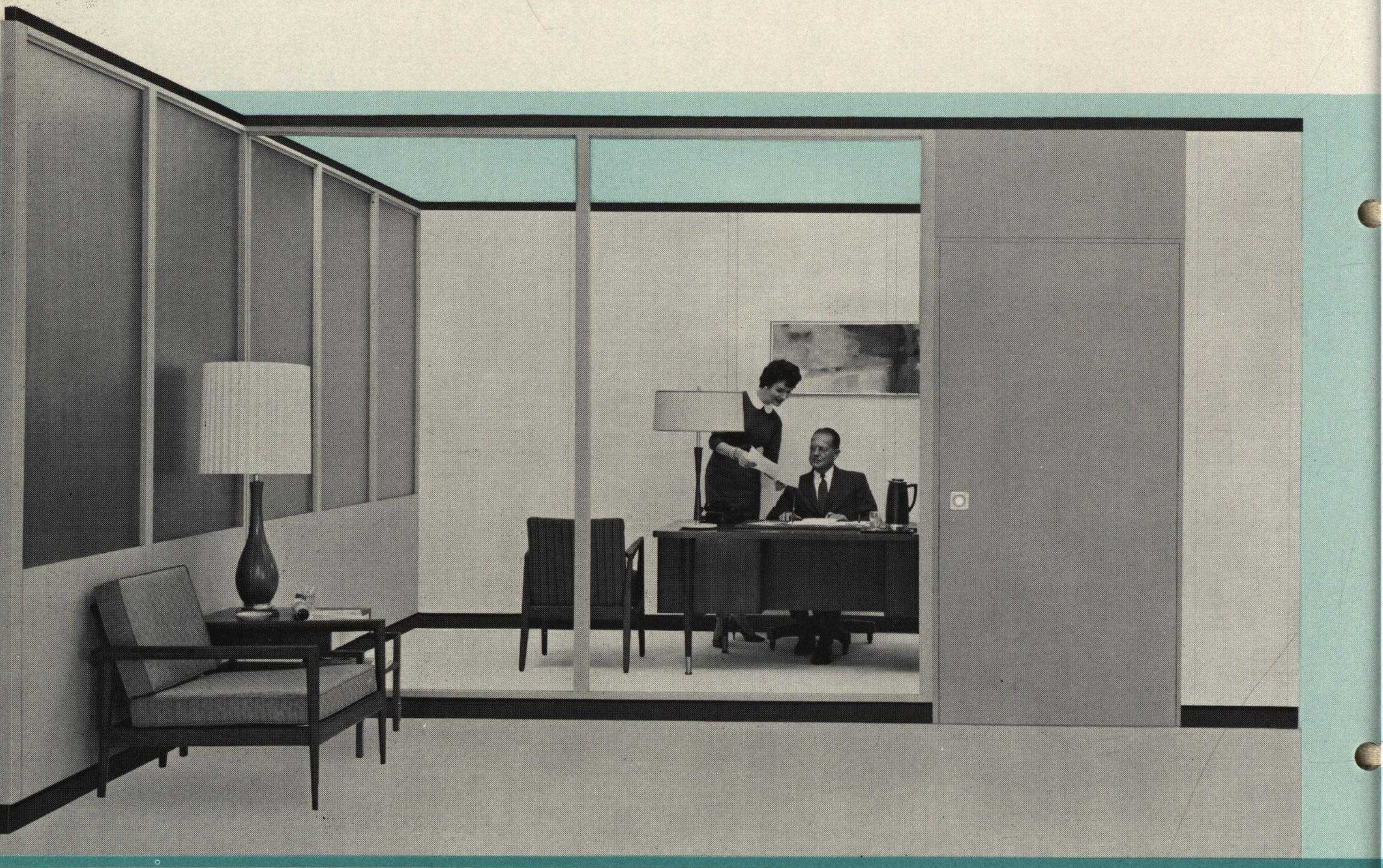
Trim posts, strikingly simple door units, interchangeable components and slim panels all contribute to the total result: Signature is an ideal solution to the space division needs in commercial and industrial buildings.

Signature makes it practical to carry out the desire of the architect and the designer for personal design expression and the demand of the building owners and tenants for the completely practical. A wide variety of design effects are possible through the use of borrowed light, clear and obscure glass patterns, natural woods, the textures of natural and synthetic wall coverings, and the colors of painted steel panels. The inherent flexibility of the Signature system makes changes in the office layout possible at any time—whether the alteration has to be made in a building under construction or in an occupied building where the layout has grown obsolete. Take-down and re-erection of panels is quick and easy and all components are completely reusable.

Because Signature has been designed as a complete system and is mass prefabricated, its basic values are much greater than those of other wall systems.

BASIC VALUES...

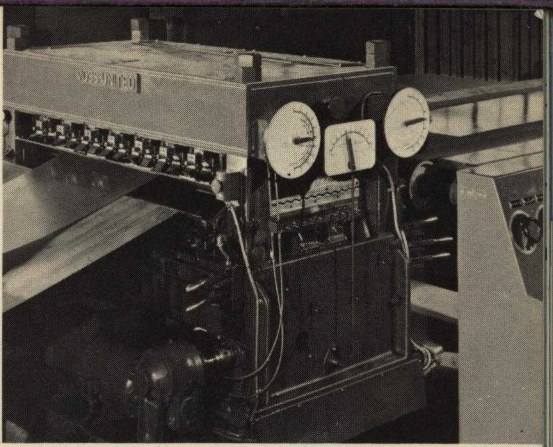
ATTRACTIVE APPEARANCE

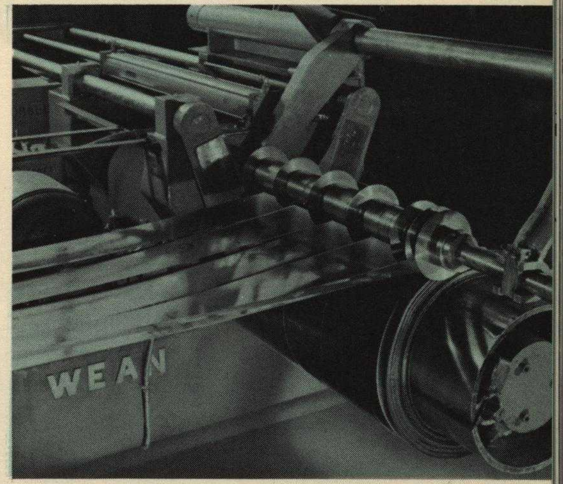


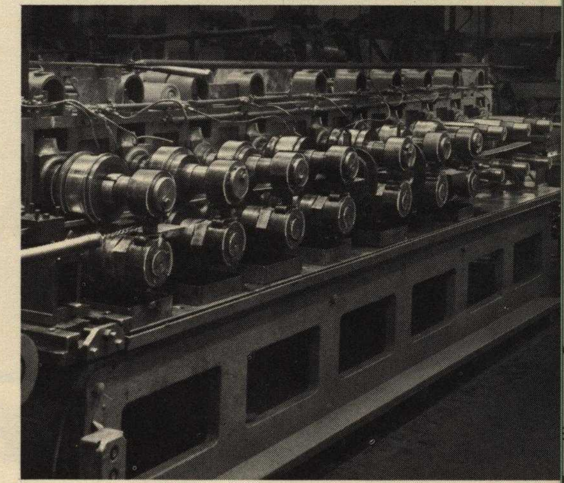
The proportionate slimness of Signature subordinates its presence in the interior decor, making it the supporting background for furnishings and human activity. Every detail, including slim new door units, has been refined to contribute to an overall effect of graceful privacy and efficient traffic flow. Glass, framed by trim posts between lites of obscure or polished plate, woods, fabrics and colors, are all elements which can contribute to a design which will be appropriate to any particular task area.

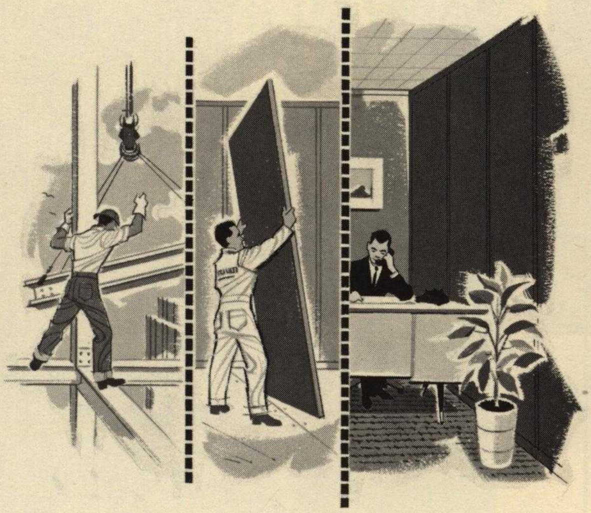
PRECISE PREFABRICATION

The skill and experience of Hauserman craftsmen, the most mechanized production facilities in the industry, an extensive system of quality control, all result in an end product that is always made to close tolerances. The designer can be confident that his layouts will be executed exactly; the building owner can be sure of consistent quality that provides the long-term advantages he bargained for.









EARLIER OCCUPANCY

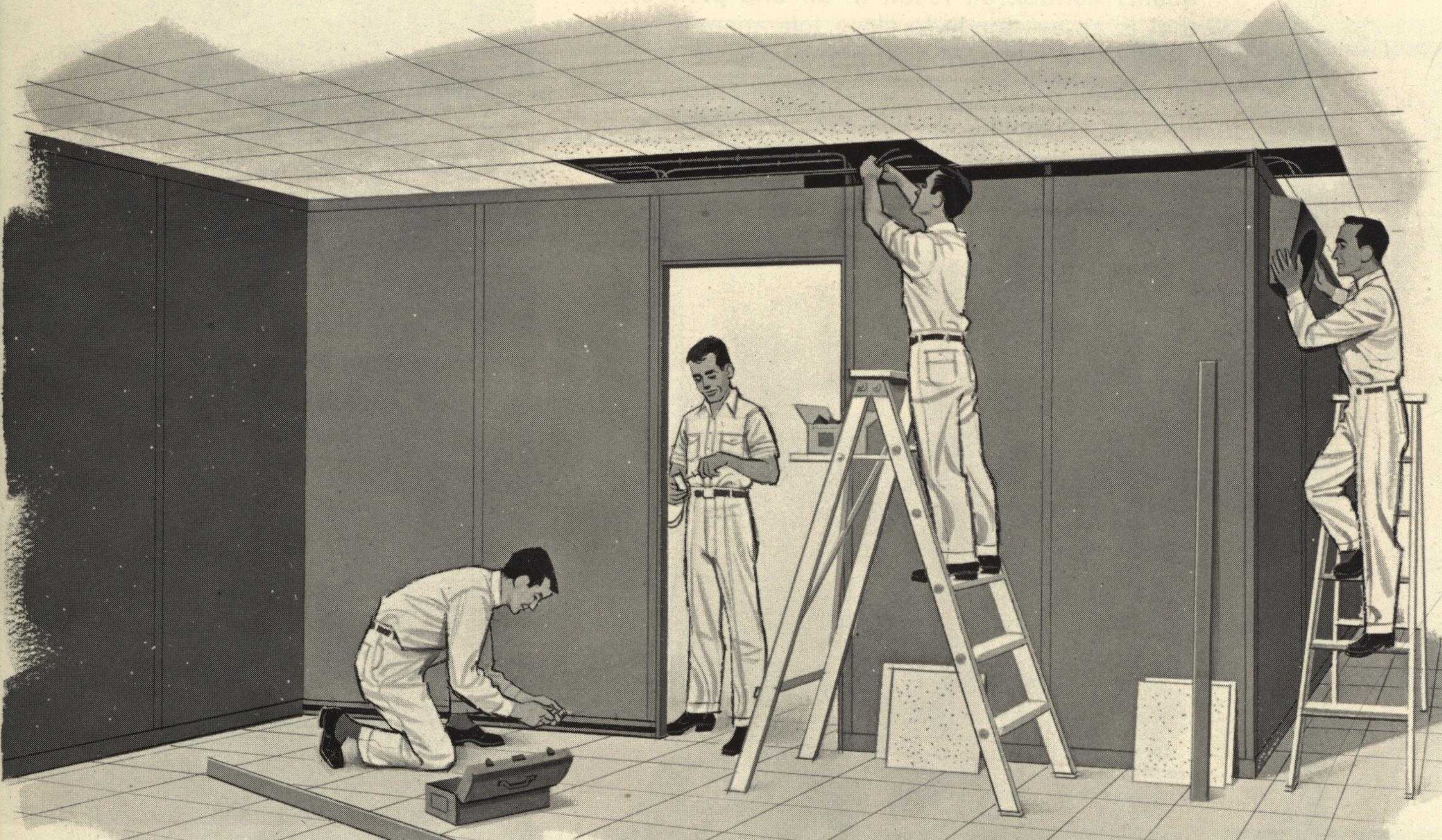
Because Signature is prefabricated, it eliminates the need for on-site construction of interior walls. This means earlier occupancy and an earlier return on the building investment. It's quicker, easier and less expensive to renovate occupied quarters when this Hauserman movable wall system is installed. Precisely engineered components and trained erection crews cut delays to an absolute minimum. Later changes, to adapt space to new needs, can be accomplished simply and inexpensively by relocating standard Signature units.

signature

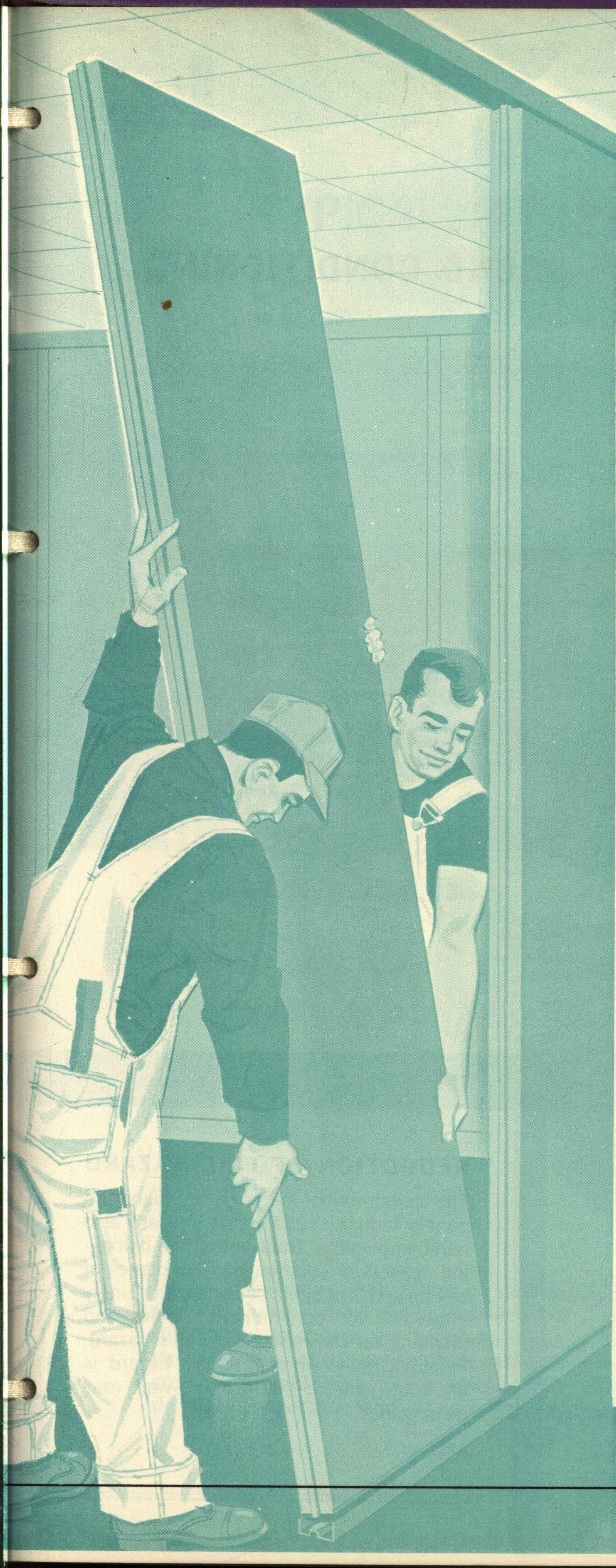
by Hauserman

BASIC VALUES...

EASY ACCESS . . . WIRING AND UTILITIES

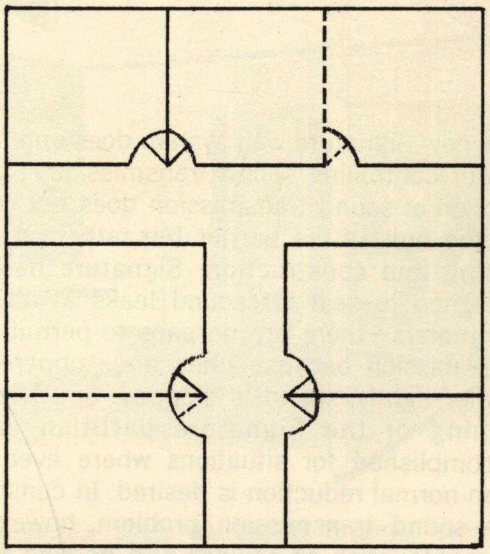


In the new Signature wall system flexibility means more than the ability to relocate panels. It is designed for quick, easy access to wiring and utilities — an important factor when changes must be made in the location of utilities, business machines and telephones. Permanent-appearing elements of this wall system can be removed simply, the desired changes made, and the elements replaced or changed.

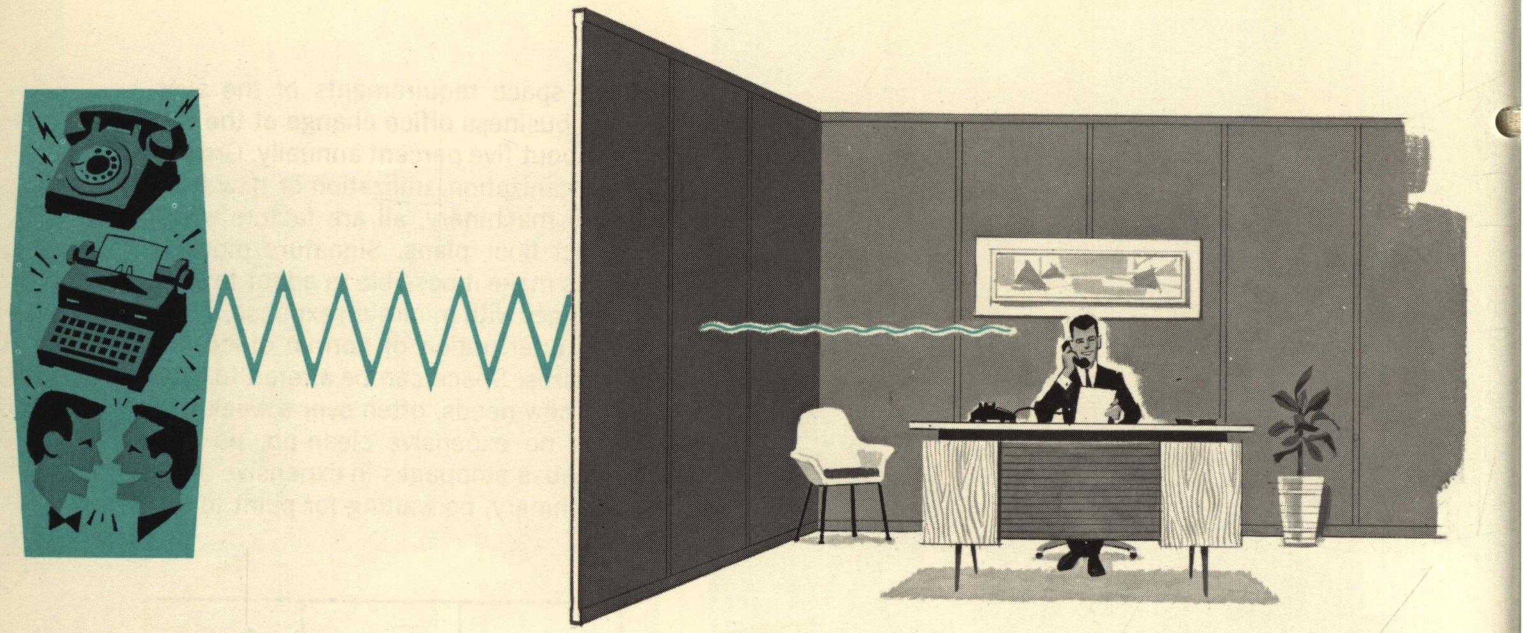


ENGINEERED MOVABILITY

The space requirements of the average business office change at the rate of about five percent annually. Growth, reorganization, utilization of new business machinery, all are factors which affect floor plans. Signature movable walls make it possible to adapt to such changes with minimum expense, delay, and interruption of normal office procedures. Space can be altered to meet the new needs, often over a week-end, with no expensive clean-up, no dust to cause stoppages in expensive office machinery, no waiting for paint to dry.



BASIC VALUES...
SOUND CONDITIONING

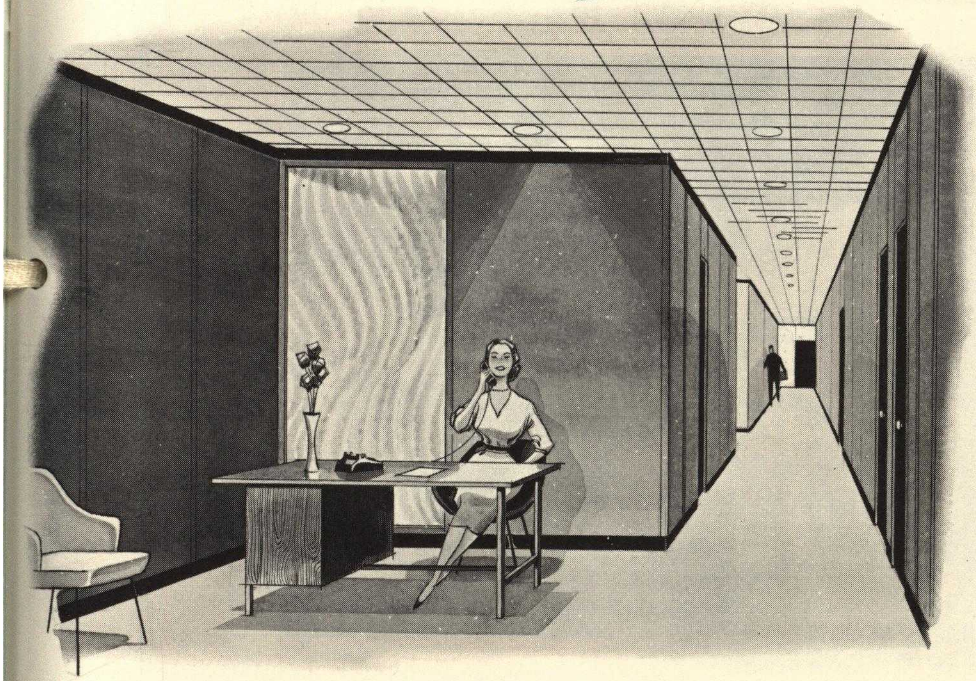


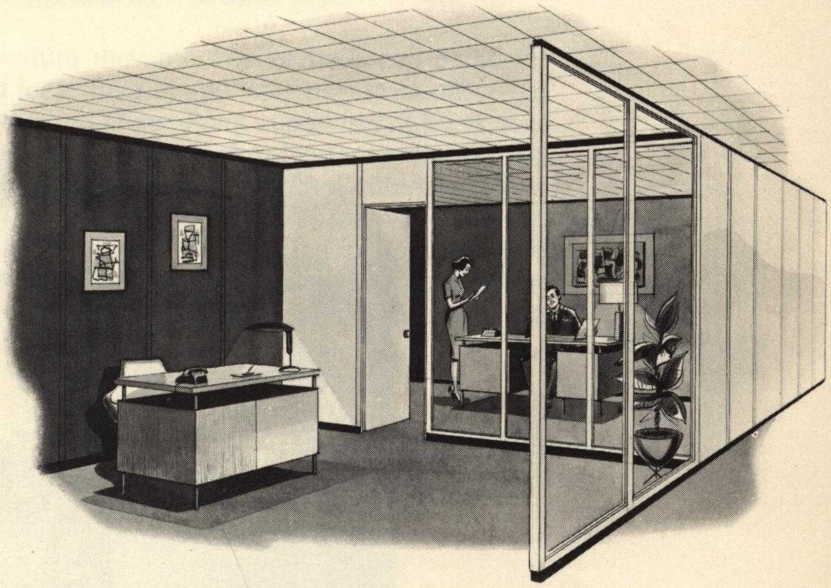
The new Signature wall system does an efficient job of controlling sound transmission. The prevention of sound transmission does not depend on the bulk of the barrier, but rather on its detailing and construction. Signature has been designed to seal off sound leaks at all of its perimeters—there are no gaps to permit sound transmission because units are "zippered" together tightly, sound is stopped. Special conditioning of the Signature partition can be accomplished for situations where even more than normal reduction is desired. In considering the sound transmission problem, however, all elements, such as ceilings and heating and air condition ducts must be considered and dealt with in the planning.

REDUCTION OF FIRE HAZARD

The construction materials in Signature panels reduce sound travel and are also non-combustible. They restrict the damaging aspects of combustion. The planes of ceiling and floor again become increasingly important for confinement of fire and planning for the reduction of this hazard. In applications where the fire hazard is an acute one, Signature fire-wall may be specified.

TYPICAL APPLICATIONS
IN OFFICES

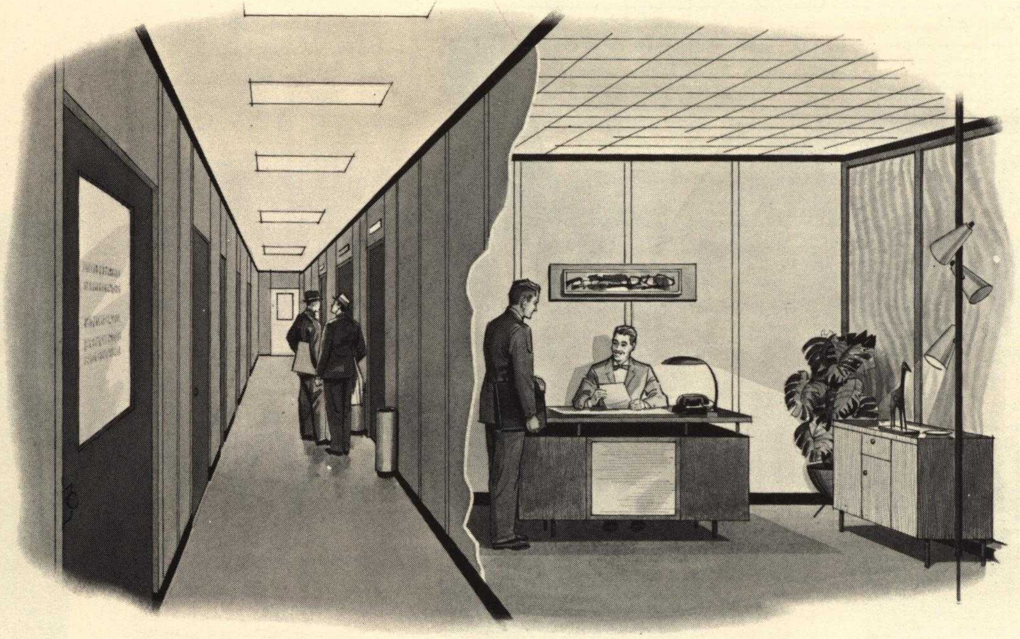


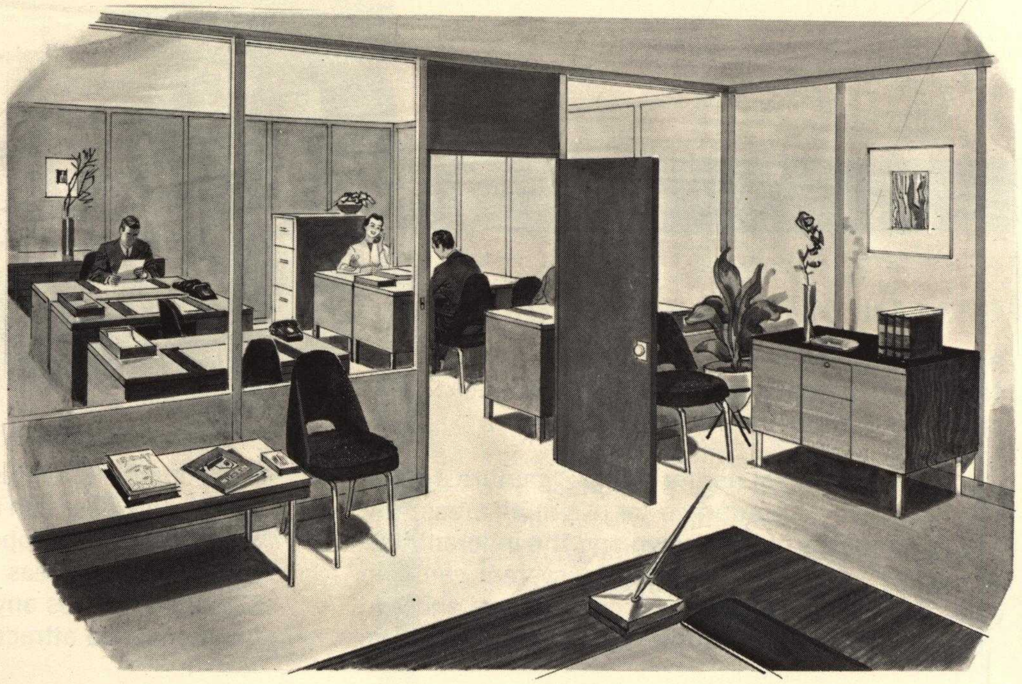


The universal nature of the Signature system makes it appropriate for use in all areas. The simplicity of the design and the inherent aesthetic qualities of this new system can help create a favorable corporate image and add prestige in executive and reception areas.

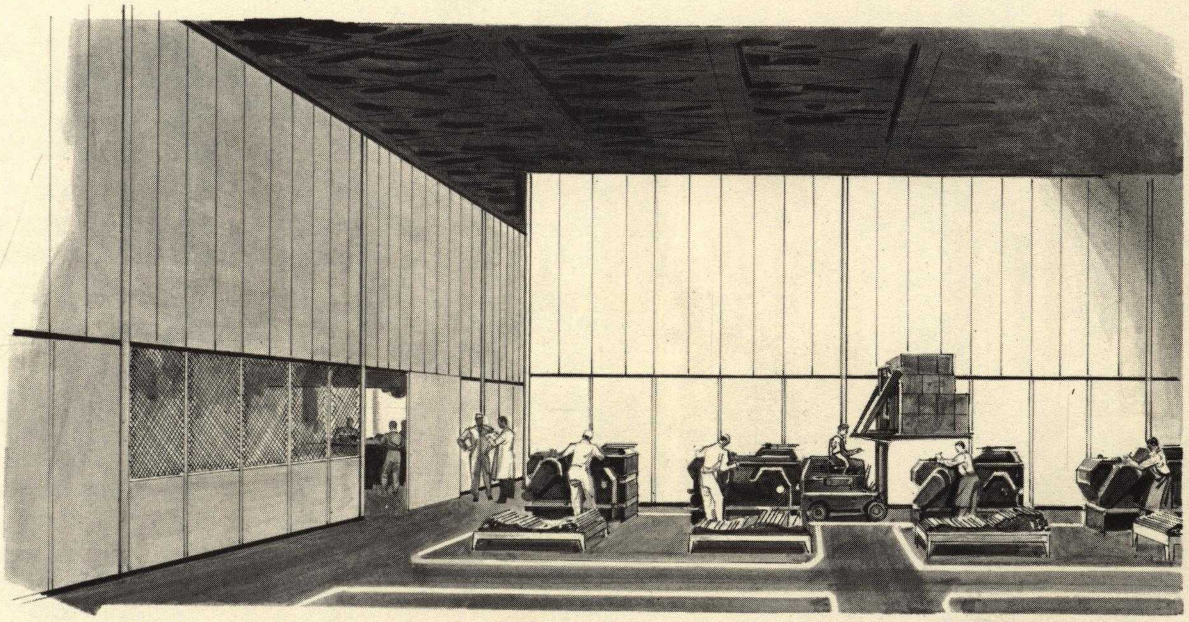
Components such as baked enamel steel panels and glass can be combined to provide visual control in supervisory areas and privacy in other areas where it is desirable. Signature defines any area precisely and is a functional and attractive way to divide space.

TYPICAL APPLICATIONS IN OFFICES

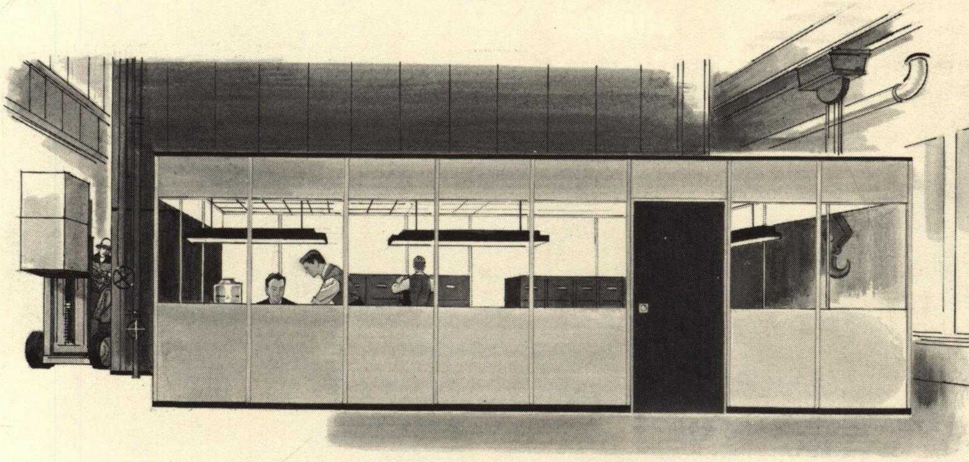




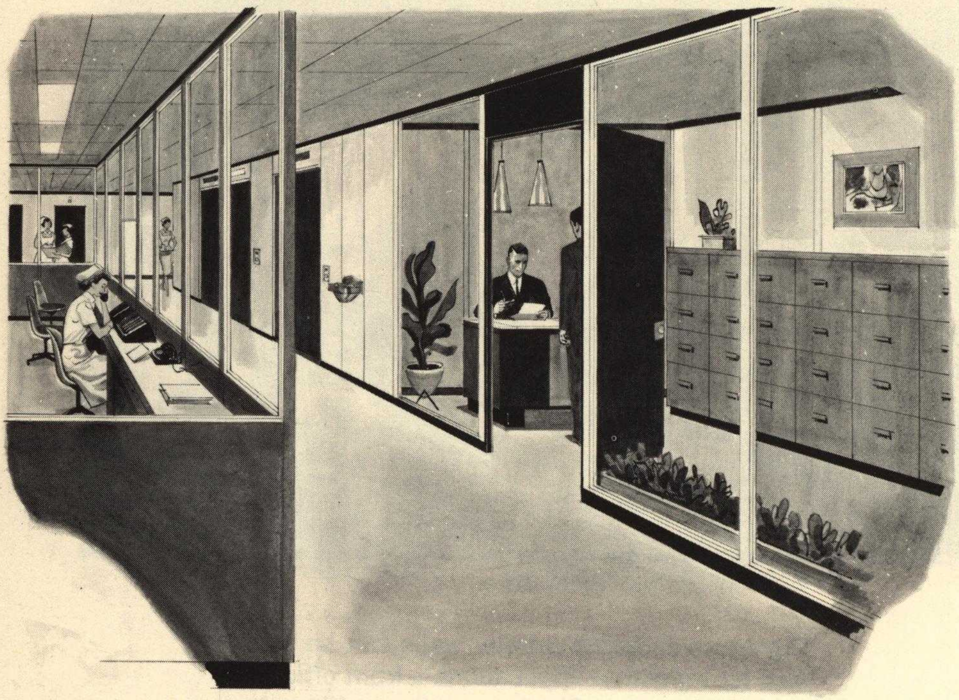
TYPICAL APPLICATIONS
IN INDUSTRIAL PLANTS



Signature movable interior walls can be specified for industrial applications—from offices to production areas. Plant supervisory offices, tool cribs or stores all use the standard prefabricated units. There is a practically unlimited variety of elevations and heights which can be achieved with different combination of panels. The Signature system can be used to help establish the most efficient and the safest traffic flow pattern.

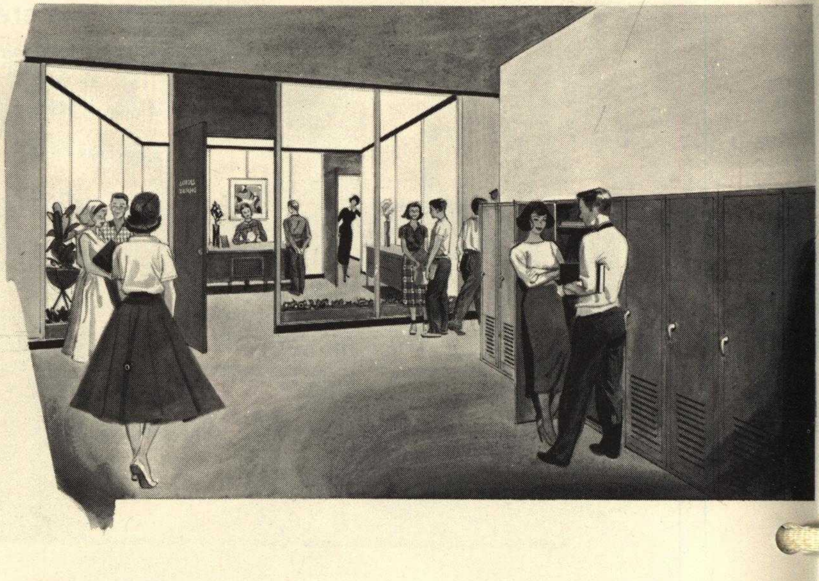


TYPICAL APPLICATIONS
IN HOSPITALS—SCHOOLS



The Signature system is particularly adaptable to many hospital applications—general administration, diagnostic offices and patient rooms, for example. The flexibility of this wall system permits easy movement of panels, either to rearrange space or, temporarily, to permit the movement of large pieces of equipment from one area to another. Because Signature panels are finished in baked-enamel they never need repainting; soap and water washing maintains original finish indefinitely. Maintenance costs are reduced to a minimum.

Schools can be occupied quicker when Signature walls are specified, and rearrangement of interior space to meet changing needs is possible without tearing down and rebuilding of interior walls. Lower maintenance costs are an important factor, too.



THE PRIMARY CONSIDERATION IN THE SELECTION OF A MOVABLE WALL SYSTEM

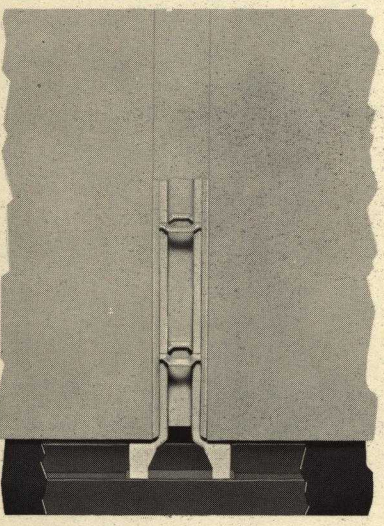
is the requirement of the job and the degree to which any particular system meets that requirement. All of the values offered in the Signature system are made possible by the details of its design and construction.

The following pages, of extreme interest to architects and designers, are equally important to the members of management charged with the responsibility of a decision on the kind of wall system a building will have. The product details presented in the following pages are further evidence of the advantages of specifying the Signature wall system . . . the very latest development in methods of dividing space.

basic product features
basic design and technical planning data
elevations
details
specifications

signature
by Hauserman

BASIC PRODUCT FEATURES



universal post

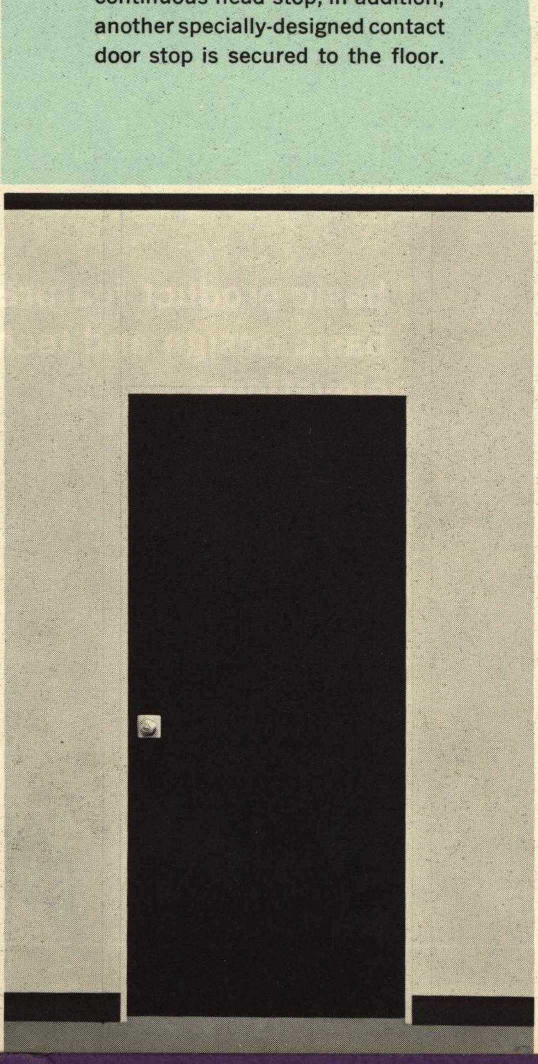
The flush Signature post is locked together by specially designed 10 ga. "keys" which are driven into key stops in a supporting inner member at pre-engineered locations. These keys draw adjacent panels tightly together at one, two, three and four-way conditions. The 14 ga. inner member is concealed behind a continuous grip snap-on post cap, reducing the number of exposed vertical lines between solid panels to two. Easy initial installation is made possible by these elements—and subsequent takedowns for relocation are accomplished quickly.

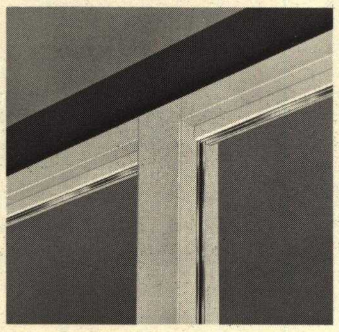
Adequate clearance is allowed in post for wiring . . . switches and outlets are placed in vertical positions on post caps.

To compensate for floor irregularities, the post is shimmed level with universal shims beneath a supporting 12 ga. stilt which has been designed to permit wiring in the base, and facilitates removal of panels individually.

door frame and door

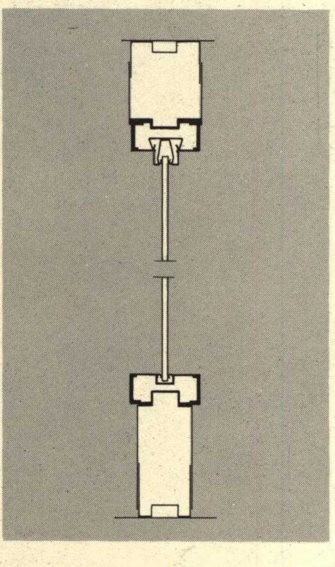
The trim balanced margin Signature adjustable door frame provides for adjustment to varying height floor coverings on opposite sides of the door unit. Jambs are designed to receive a door seal which prevents light leakage and reduces sound transmission. The top jamb overlaps . . . forming a continuous head stop; in addition, another specially-designed contact door stop is secured to the floor.





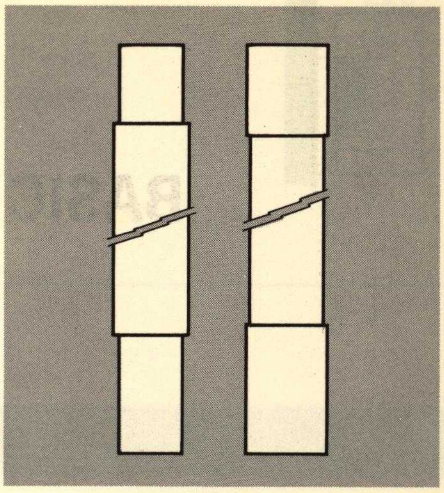
glazing

Aluminum glazing in the Signature system provides a secure, rattle-free installation, without messy putty. Glass can be installed or removed quickly and easily. Posts, horizontal chair rail and ceiling members are offset to take glazing stops pre-assembled to glass before insertion. Top horizontal details are identical for cornice high, ceiling high and transom rail.



recessed or overlapping base and ceiling trim

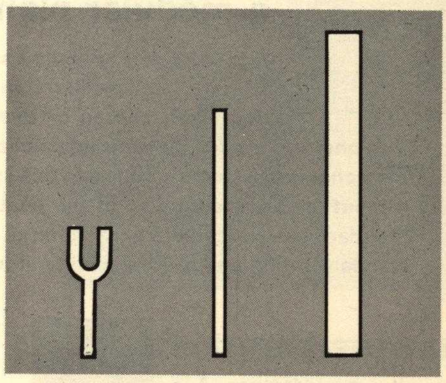
Continuous grip base member provides tight closure and sound seal. Baked-enamel colors may match or contrast with panel colors. Provision has been made for BX wiring and Greenfield in base, ceiling trim, and cornice. Cornice trim is pulled-down tightly with hold-down springs at each post. New double-channel splice provides inconspicuous joints and full rigidity. Signature wiring facilities through ceiling trim, or cornice, down post . . . with wiring divider in base—provides for desired positioning of outlets, switches, heating controls and other electrical needs.



Details . . . pages 19 and 21

commercial post extension . . . thru post—commercial and industrial

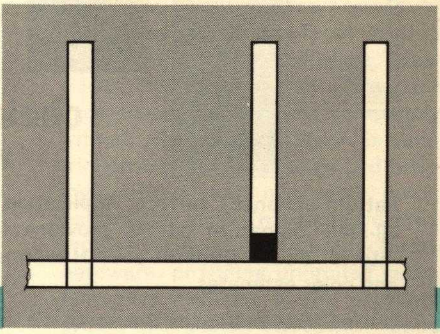
Additional rigidity for ceiling high elevations is provided by a post extension which is secured to the inner supporting member of posts. Splayed and punched to permit continuous pass-through wiring, it is used with ceiling high solid panels, glazed panels and door frames. Support for cornice-high elevations, open above or with top filler, is assured by a thru post used where additional strength is needed. Use of the industrial thru post makes it practical to use this partition for industrial applications where high ceilings and long runs are encountered.

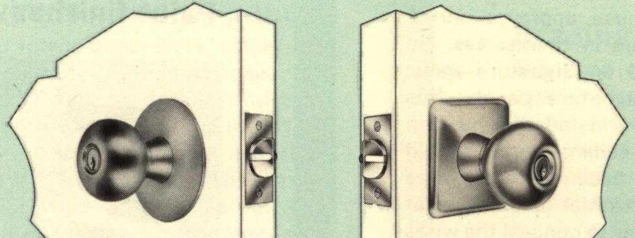


Details . . . page 20

T-adaptor panel

When it is necessary or desirable to begin a panel run in middle of an all-steel panel, the Signature T-adaptor panel is used without interrupting the 4″ module or damaging the panel face. Its construction assures adequate sound control, light proofing and fire safety.





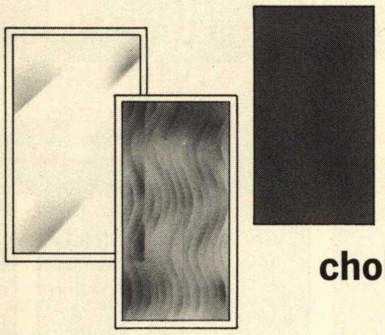
hardware

Signature door cutouts adhere to Federal Specification #161 mortise. Heavy-duty cylindrical locksets and latchsets are available in Dull Bronze US10 and Stainless Steel US32D finish. Hardware from other manufacturers may also be used in #161 mortise, if desired. Complete line of other hardware—exit devices, push and pull plates, closers, masterkey systems, kick plates and thresholds, etc.— are also available for immediate delivery from Hauserman's hardware stock. Hardware can be supplied to any make or system of masterkey.

BASIC DESIGN . . .
AND TECHNICAL PLANNING DATA

a modular plan . . . standard units

Signature's 4″ module can effect economies and is an initial factor to be considered in unified organization. Panel and door unit widths, based on this relative module, may be transposed with one another for dynamic aesthetic changes or purely functional needs. If mechanical systems conform to this system, Signature units may be moved without requiring alteration of the heating, ventilating and lighting systems. Standard prefabricated Signature units provide lower first costs, high quality standardization and aesthetic unity of interior space.



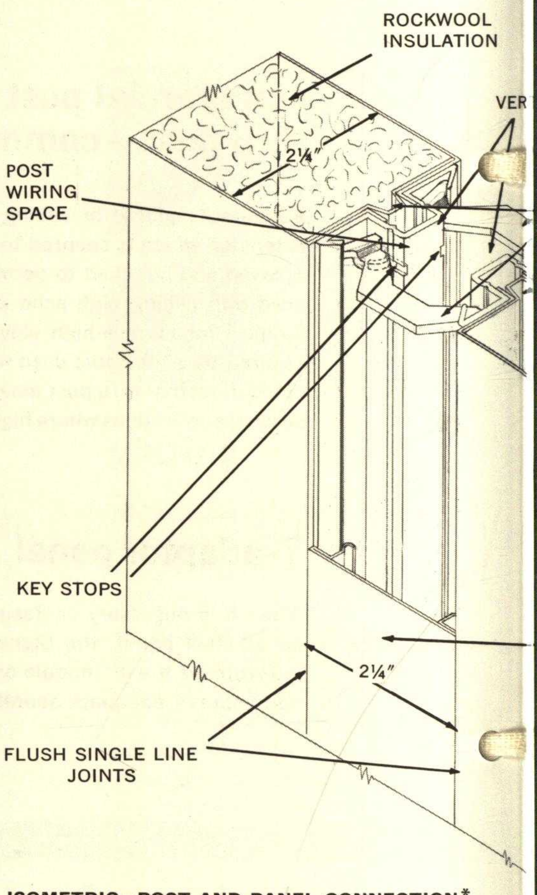
choice of wall materials

Pattern enhances surface. Application of wood veneers and vinyl plastics to all-steel Signature panels provides texture, contrast and warmth to the interior decor. Consult your Hauserman representative regarding choice and color estimates.

Use of glass enhances the aesthetic motif of an office interior. It can be used to indicate openess with polished plate transom or full lite application; obscure patterns add contrasting texture and interesting design due to light refractions. For additional glass information, see page 29.

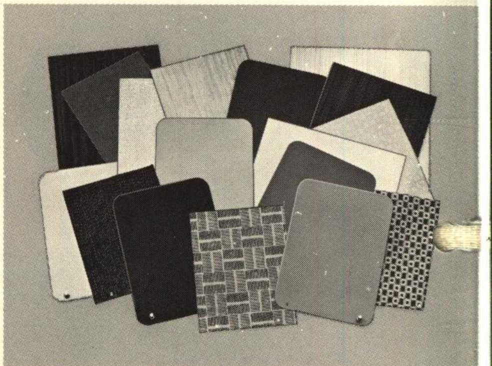
electrical information . . . wiring

Signature movable interior walls are designed to house approved wiring systems, but are not intended to constitute a system in themselves. No underwriters' electrical labels or listings are carried on Signature walls. General distribution wiring should not be run in Signature panels—this would restrict the movability benefit. In general, where installation has top filler, or where partition is ceiling high—with suspended ceiling—wiring should enter from ceiling. Entrance from ceiling is preferable because switch wires normally originate above the ceiling and because horizontal distribution of wires is continuous along cornice. If there is no top filler to conceal the wires dropping down, entrance from wall is recommended. It is not practical to use rigid steel conduit in Signature because it is difficult to make the necessary short radius turns. Fittings should be mounted on post caps in preference to any other location. Post caps are removable and electrical requirements can easily be changed. Post extension, panel supporting stilt, and locking "keys" have all been designed to facilitate Greenfield cable wiring in the posts. In the base, there is clearance for BX or ⅞″ O. D. Greenfield.



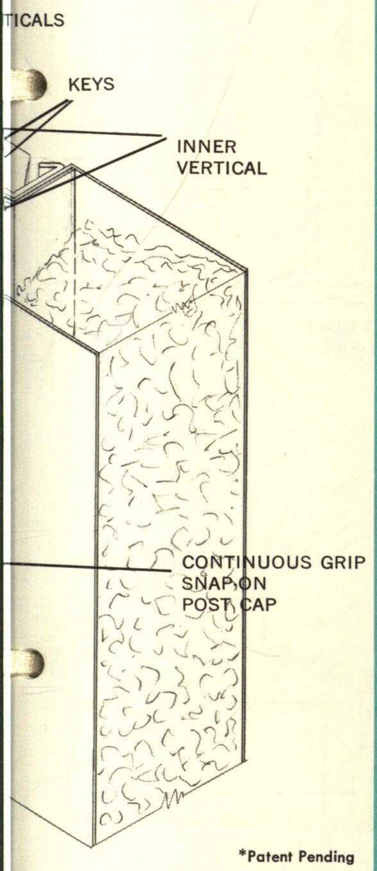
ISOMETRIC—POST AND PANEL CONNECTION*

Paint finishes . . . real wood vene

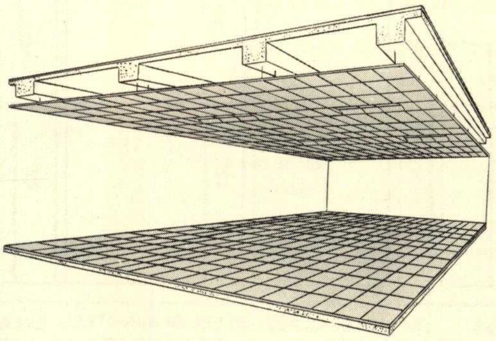


signature

by Hauserman

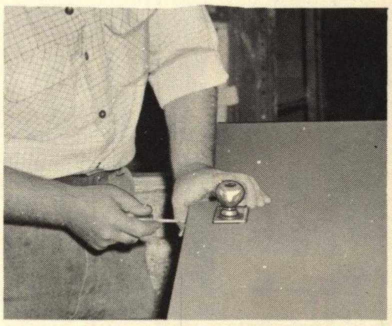


*Patent Pending



planning a structure . . . "through" construction

Substantial time and material costs may be saved by utilization of the "through" or "two-plane" concept . . . when the outer shell of the structure is completed, flooring and ceiling materials are installed first as continuous units. Signature walls are then installed. This is a simpler, less expensive technique than installing three elements room by room. It also permits earlier occupancy.



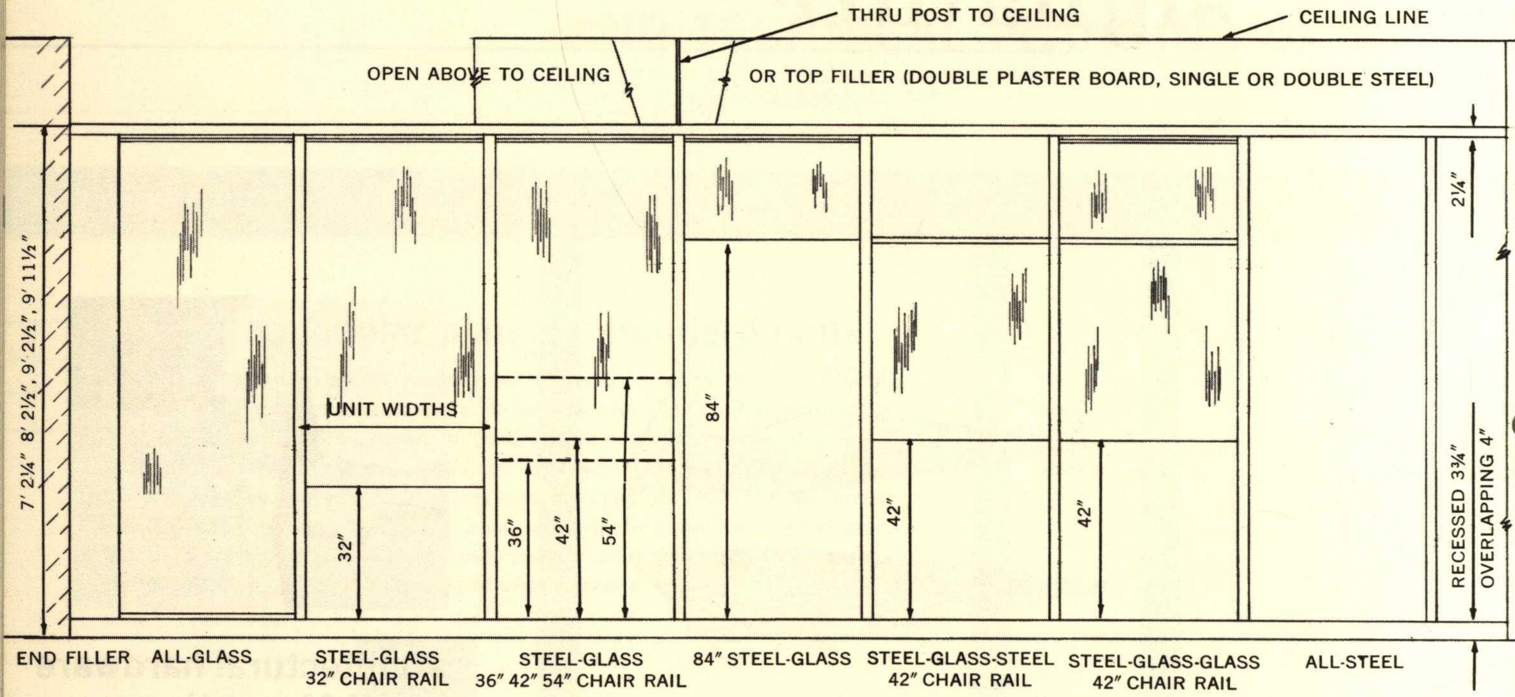
architectural hardware . . . #161 mortise

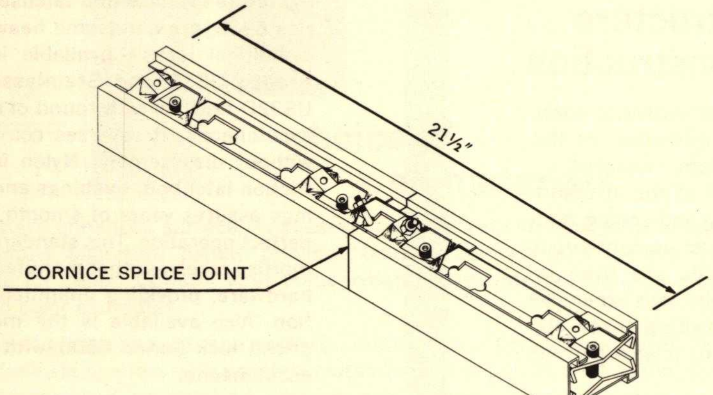
Signature locksets and latchsets, Series 6900, are handsome heavy-duty cylindrical locks — available in Dull Bronze US10 and Stainless Steel US32D finishes with round or square escutcheons. It reverses completely without disassembly. Nylon in anti-friction latchbolt, bushings and bearings assures years of smooth, quiet, perfect operation. This standard #161 mortise receives other manufacturers hardware, providing unlimited selection. Also available is the medium-priced lock Series 6800 with round escutcheons.

ers . . . textured vinyls . . . wood panels and doors. Attractive decorators colors are available for fast delivery. Standard colors are shown in Hauserman's Decorator Color Selector. In addition, Hauserman has on formulation thousands of other shades which are available. Standard "egg-shell" finish light reflectancy ranges from 80% downward in value. The alkyd-urea baked-on enamel finish has been subjected to accelerated durability and performance tests . . . see page 29 for test results. The Signature wall system has been designed to accept a variety of wall surface materials . . . real wood veneers, textured vinyls, wood panels and doors. A wide selection of architectural colors, textures and grains are available. A Hauserman representative will assist in selection, application and specification.

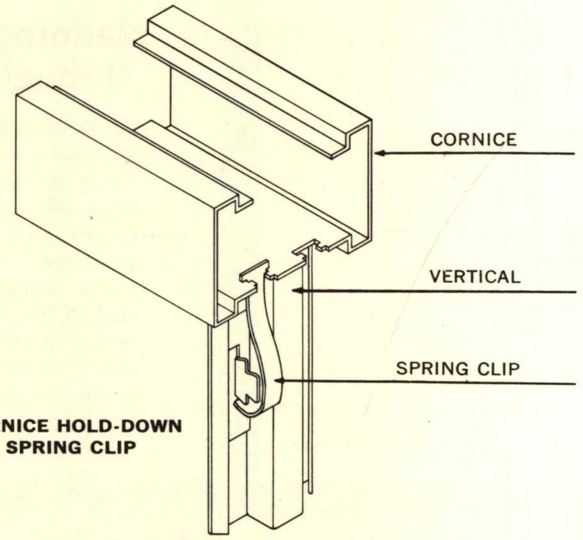
Bracing runs . . . ceilings . . . panel weight. Where Signature walls or top filler extend to ceiling, ceiling must be rigid enough to support top member, and any thrust on it. It is neccessary to use a steel ceiling channel in conjunction with fissured glass-wool or rockwool ceiling tile for those suspended ceilings not strong enough to hold ceiling tiles. Where partition runs require concealed tubular reinforcements these should be anchored to the metal ceiling channel. When partition runs are open above in conjunction with the fragile type of ceiling, through post reinforcement shall extend through the ceiling to the structure above. Signature walls are non-load-bearing as stated in building codes and ordinances. However, they are often used to support interior roofs. Weight: All-steel . . . 5.00 lbs. per sq. ft.; DSA glass . . . 1.52 lbs. per sq. ft.; ⅛" obscure glass . . . 2.00 lbs. per sq. ft.; 39 oz. crystal glass . . . 2.44 lbs. per sq. ft.; ¼" polished plate glass . . . 3.30 lbs. per sq. ft.

CORNICE HIGH—ELEVATIONS


THRU POST TO CEILING
CEILING LINE
OPEN ABOVE TO CEILING
OR TOP FILLER (DOUBLE PLASTER BOARD, SINGLE OR DOUBLE STEEL)
7′ 2¼″ 8′ 2½″, 9′ 2½″, 9′ 11½″
UNIT WIDTHS
32″
36″
42″
54″
84″
42″
42″
2¼″
RECESSED 3¾″
OVERLAPPING 4″
END FILLER
ALL-GLASS
STEEL-GLASS
32″ CHAIR RAIL
STEEL-GLASS
36″ 42″ 54″ CHAIR RAIL
84″ STEEL-GLASS
STEEL-GLASS-STEEL
42″ CHAIR RAIL
STEEL-GLASS-GLASS
42″ CHAIR RAIL
ALL-STEEL


21½″
CORNICE SPLICE JOINT

* **CORNICE SPLICE**


CORNICE
VERTICAL
SPRING CLIP

* **CORNICE HOLD-DOWN SPRING CLIP**

CORNICE HIGH . . . STANDARD SIZES

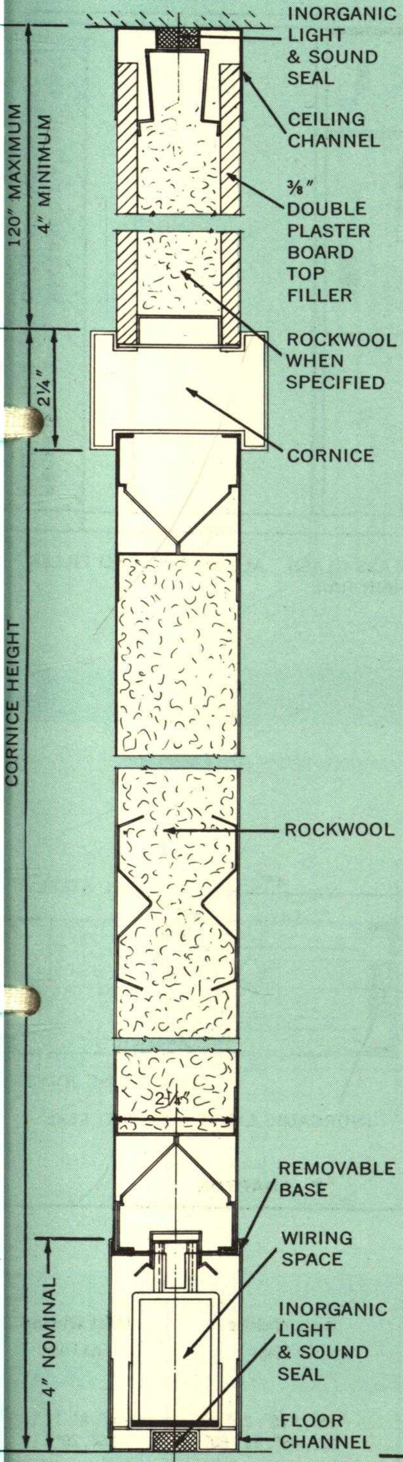
Elevations (floor to top of cornice)	**Chair rail** Steel-Glass	**Chair rail** Steel-Glass-Steel Steel-Glass-Glass	**Unit Widths . . . Panels** All-Steel; Steel-Glass; Steel-Glass-Steel; Steel-Glass-Glass	**Unit Widths** All-Glass	**Unit Widths** End Filler
*7′ - 2¼″ 8′ - 2½″ 9′ - 2½″ 9′ - 11½″	32″, 36″, 42″, 54″, 84″	42″, 54″	12″, 16″, 20″, 24″, 28″, 32″, 36″, 40″, 44″, 48″, 56″, 60″	**12″ **16″ 20″, 32″, 48″, 56″, 60″	4″, 8″, 12″, 16″, 20″
*Not available as transom rail			Special panel widths to 48″ available at extra cost, longer delivery	**To be used as door side lite panels	

*Patent Pending

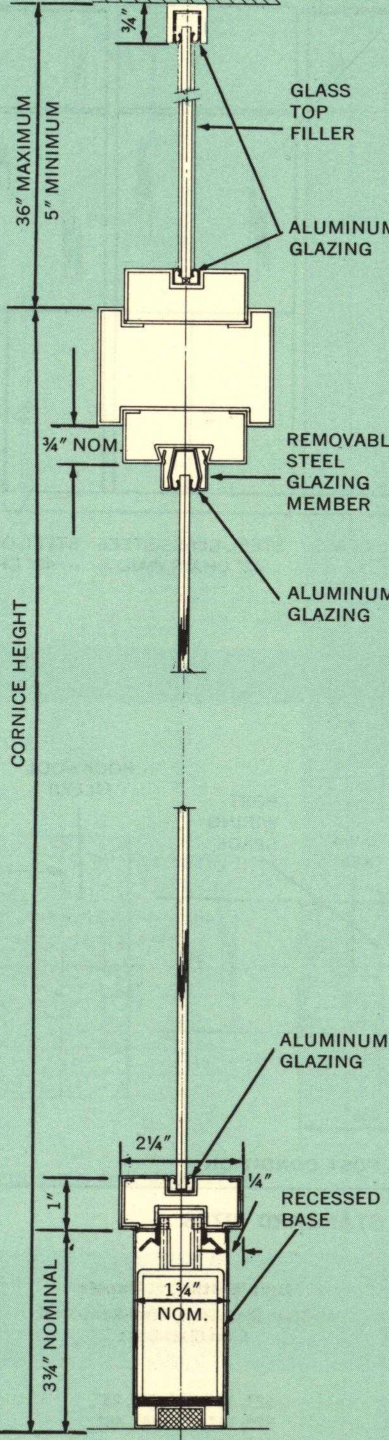
NOTE: Recessed base—floor to bottom of panel . . . . 3¾″ nominal
Overlapping base—floor to top of base . . . . 4″ nominal

AND PARTITION DETAILS

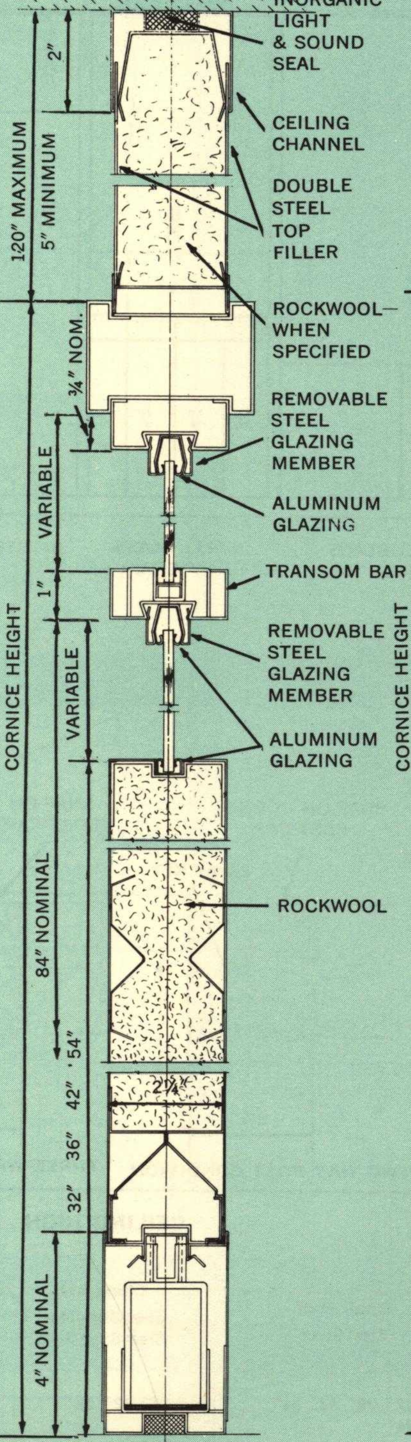
*Post Condition Details—
see pages 20—21*


INORGANIC LIGHT & SOUND SEAL
CEILING CHANNEL
⅜" DOUBLE PLASTER BOARD TOP FILLER
ROCKWOOL WHEN SPECIFIED
CORNICE
ROCKWOOL
2¼"
REMOVABLE BASE
WIRING SPACE
INORGANIC LIGHT & SOUND SEAL
FLOOR CHANNEL
120" MAXIMUM
4" MINIMUM
2¼"
CORNICE HEIGHT
4" NOMINAL

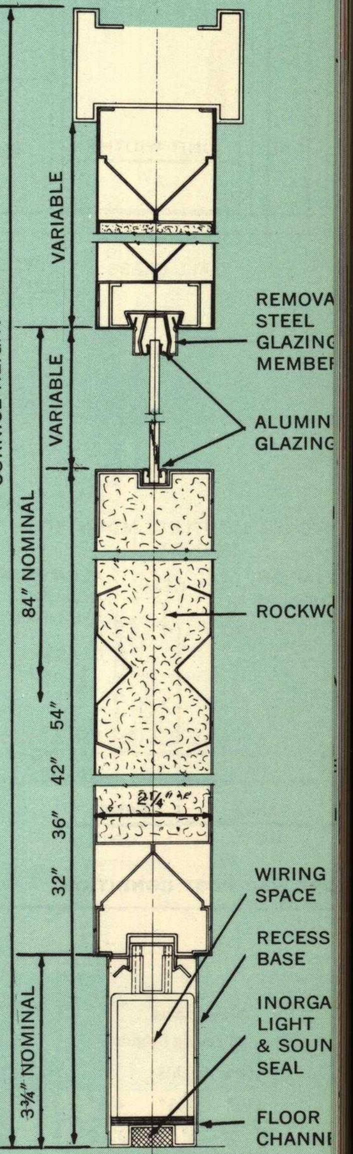
*** ALL-STEEL
WITH ⅜" DOUBLE PLASTER
BOARD TOP FILLER**


¾"
GLASS TOP FILLER
ALUMINUM GLAZING
¾" NOM.
REMOVABLE STEEL GLAZING MEMBER
ALUMINUM GLAZING
ALUMINUM GLAZING
2¼"
¼"
RECESSED BASE
1¾" NOM.
1"
36" MAXIMUM
5" MINIMUM
CORNICE HEIGHT
3¾" NOMINAL

*** ALL GLASS
WITH GLASS TOP FILLER**

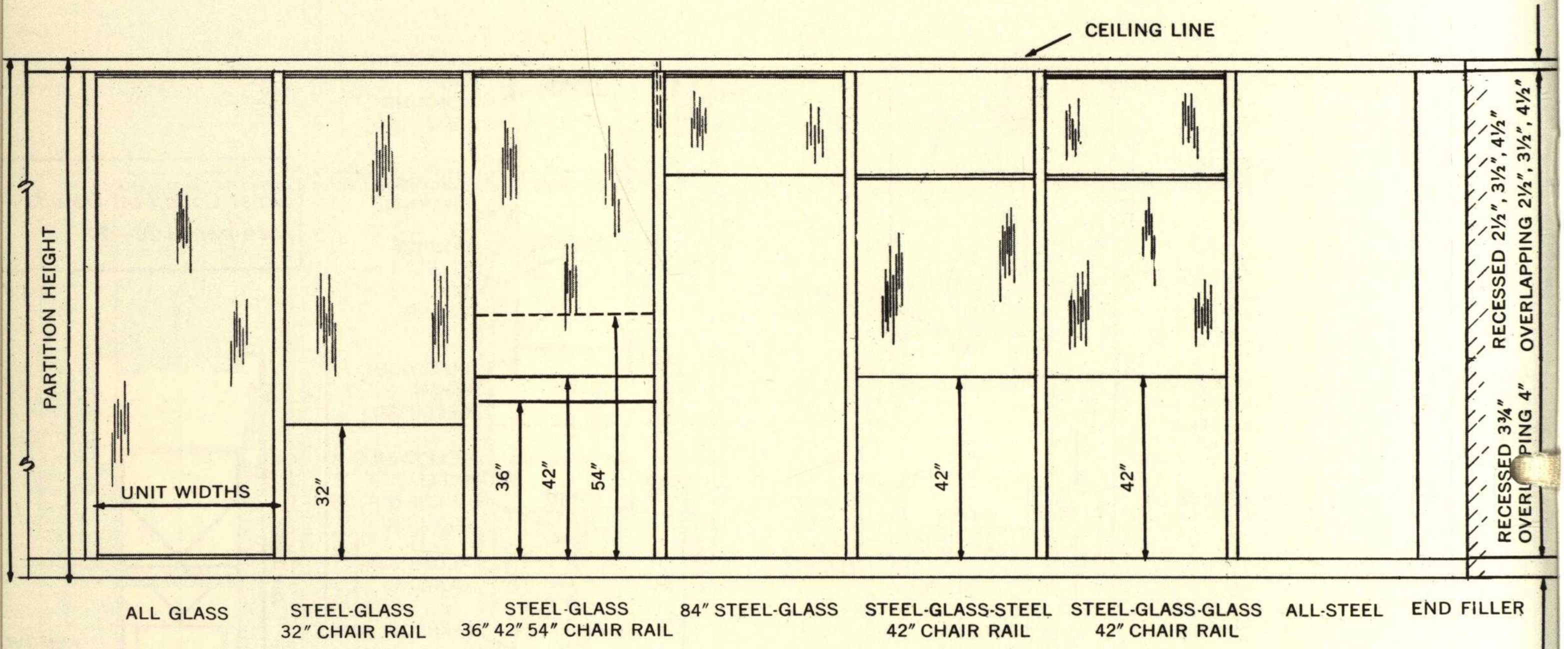

INORGANIC LIGHT & SOUND SEAL
2"
CEILING CHANNEL
DOUBLE STEEL TOP FILLER
ROCKWOOL—WHEN SPECIFIED
REMOVABLE STEEL GLAZING MEMBER
ALUMINUM GLAZING
TRANSOM BAR
REMOVABLE STEEL GLAZING MEMBER
ALUMINUM GLAZING
ROCKWOOL
2¼"
120" MAXIMUM
5" MINIMUM
¾" NOM.
VARIABLE
1"
VARIABLE
CORNICE HEIGHT
84" NOMINAL
54"
42"
36"
32"
4" NOMINAL

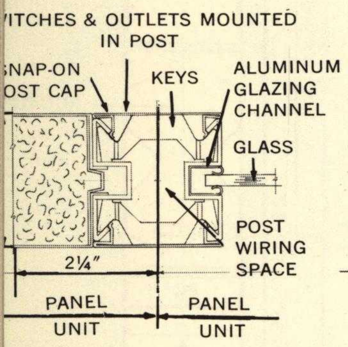
*** STEEL-GLASS-GLASS
DOUBLE STEEL TOP FILLER**


VARIABLE
VARIABLE
CORNICE HEIGHT
84" NOMINAL
54"
42"
36"
32"
3¾" NOMINAL
2¼"
REMOVA
STEEL
GLAZING
MEMBER
ALUMIN
GLAZING
ROCKWO
WIRING SPACE
RECESS
BASE
INORGA
LIGHT
& SOUN
SEAL
FLOOR
CHANN

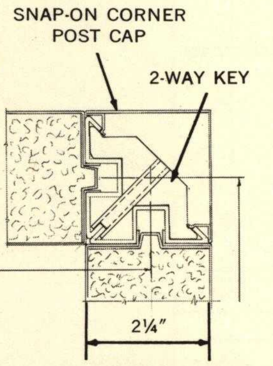
*** STEEL-GLASS-STEEL
OPEN ABOVE**

CEILING HIGH—ELEVATIONS AND

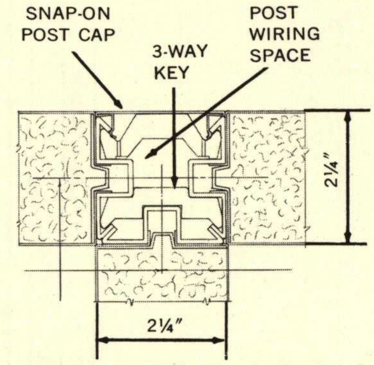

CEILING LINE
PARTITION HEIGHT
UNIT WIDTHS
32"
36"
42"
54"
42"
42"
RECESSED 2½", 3½", 4½"
OVERLAPPING 2½", 3½", 4½"
RECESSED 3¾"
OVERLAPPING 4"
ALL GLASS
STEEL-GLASS 32" CHAIR RAIL
STEEL-GLASS 36" 42" 54" CHAIR RAIL
84" STEEL-GLASS
STEEL-GLASS-STEEL 42" CHAIR RAIL
STEEL-GLASS-GLASS 42" CHAIR RAIL
ALL-STEEL
END FILLER


ITCHES & OUTLETS MOUNTED IN POST
NAP-ON
OST CAP
KEYS
ALUMINUM GLAZING CHANNEL
GLASS
POST WIRING SPACE
2¼"
PANEL UNIT
PANEL UNIT

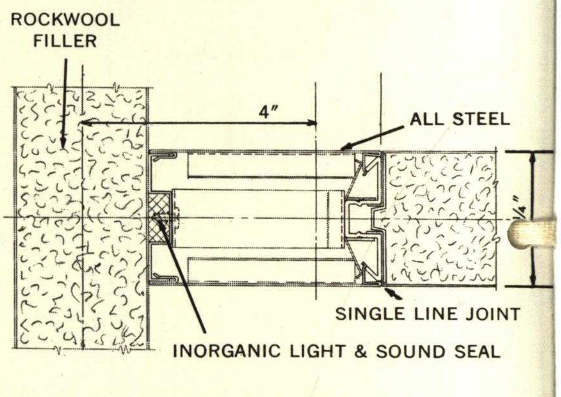
ONE WAY POST CONDITION


SNAP-ON CORNER POST CAP
2-WAY KEY
2¼"

*TWO WAY POST CONDITION


SNAP-ON POST CAP
3-WAY KEY
POST WIRING SPACE
2¼"
2¼"

* THREE WAY POST CONDITION


ROCKWOOL FILLER
4"
ALL STEEL
SINGLE LINE JOINT
INORGANIC LIGHT & SOUND SEAL

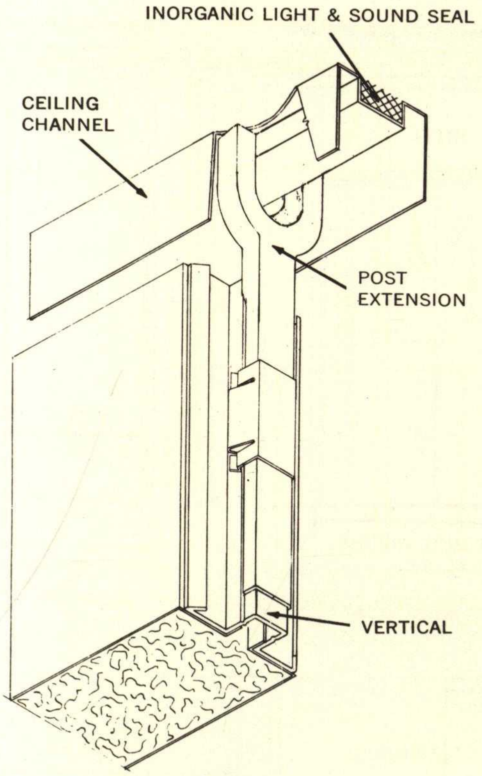
* T—ADAPTOR

CEILING HIGH . . . STANDARD SIZES

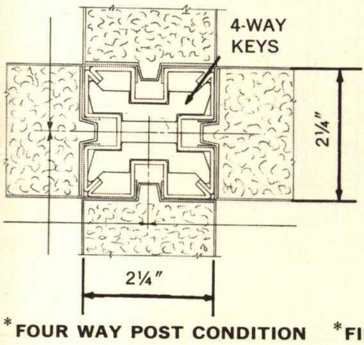
	Elevations (trims and ceiling heights) Trim Heights			**Chair Rail** Steel-Glass	**Chair Rail** Steel-Glass-Steel Steel-Glass-Glass	**Unit Widths . . . Panels** All-Steel; Steel-Glass; Steel-Glass-Steel; Steel-Glass-Glass	**Unit Widths** All-Glass	**Unit Widths** End Filler
	2½"	3½"	4½"	32", 36", 42", 54", 84"	42", 54"	12", 16", 20", 24", 28", 32", 36", 40", 44", 48", 56", 60" Special widths to 48" available at extra cost, longer delivery	*12", *16", 20", 32", 48", 56" 60" *To be used as door side lite panels	4", 8", 12", 16", 20"
Ceiling Heights	8' - 0"	8' - 1"	8' - 2"					
	8' - 3"	8' - 4"	8' - 5"					
	8' - 6"	8' - 7"	8' - 8"					
	8' - 9"	8' - 10"	8' - 11"					
	9' - 0"	9' - 1"	9' - 2"					
	9' - 3"	9' - 4"	9' - 5"					
	9' - 6"	9' - 7"	9' - 8"					
	9' - 9"	9' - 10"	9' - 11"					
	10 - 0"							

NOTE: Ceiling trim heights—recessed and overlapping . . . 2½", 3½", 4½"
Recessed base—floor to bottom of panel . . . . . . 3¾" nominal
Overlapping base—floor to top of base . . . . 4" nominal
Allowable ceiling float + or – ½"

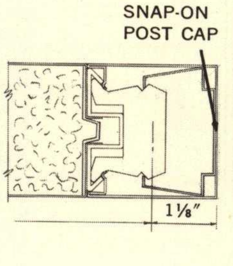
PARTITION DETAILS


INORGANIC LIGHT & SOUND SEAL
CEILING CHANNEL
POST EXTENSION
VERTICAL

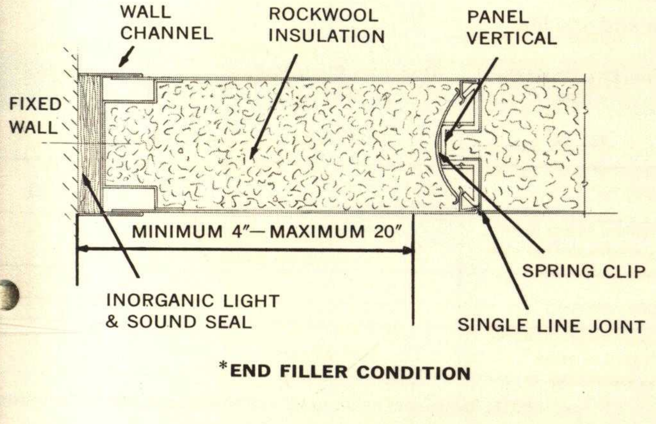
*__ISOMETRIC__—POST EXTENSION


4-WAY KEYS
2¼″
2¼″

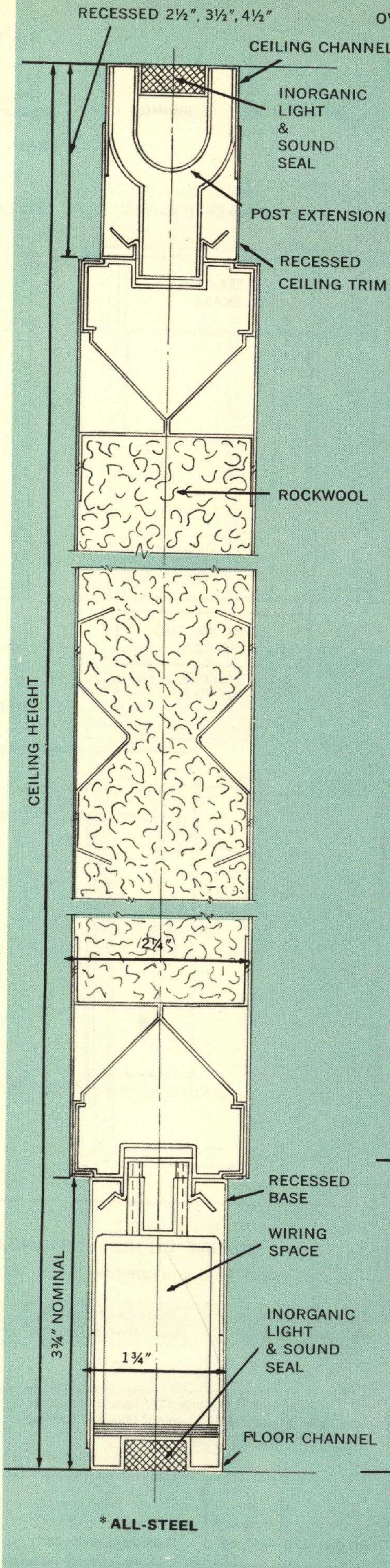
*__FOUR WAY POST CONDITION__


SNAP-ON POST CAP
1⅛″

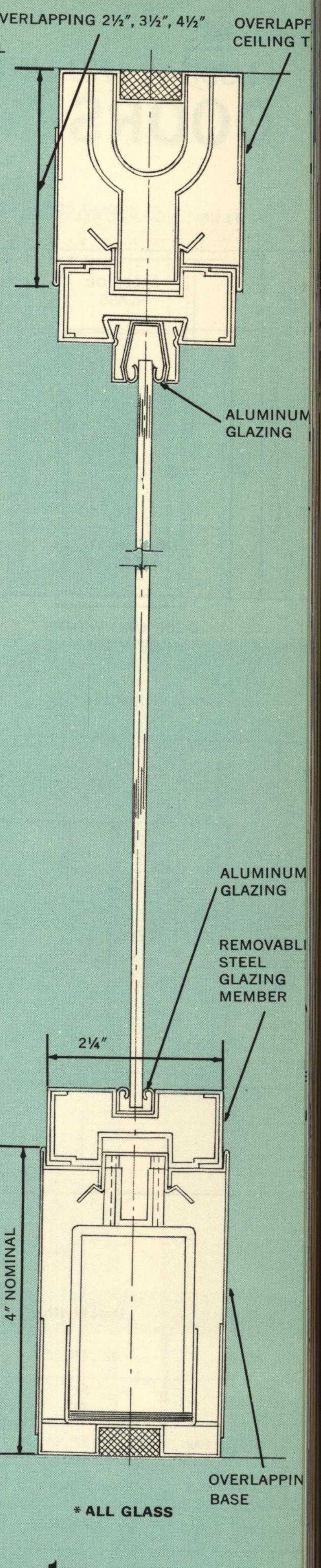
*__FINISHED END CONDITION__


WALL CHANNEL
ROCKWOOL INSULATION
PANEL VERTICAL
FIXED WALL
MINIMUM 4″—MAXIMUM 20″
SPRING CLIP
INORGANIC LIGHT & SOUND SEAL
SINGLE LINE JOINT

*__END FILLER CONDITION__


RECESSED 2½″, 3½″, 4½″
CEILING CHANNEL
INORGANIC LIGHT & SOUND SEAL
POST EXTENSION
RECESSED CEILING TRIM
ROCKWOOL
CEILING HEIGHT
2¼″
RECESSED BASE
WIRING SPACE
3¾″ NOMINAL
1¾″
INORGANIC LIGHT & SOUND SEAL
FLOOR CHANNEL

*__ALL-STEEL__


OVERLAPPING 2½″, 3½″, 4½″
OVERLAPP
CEILING T
ALUMINUM GLAZING
ALUMINUM GLAZING
REMOVABL STEEL GLAZING MEMBER
2¼″
4″ NOMINAL
OVERLAPPIN BASE

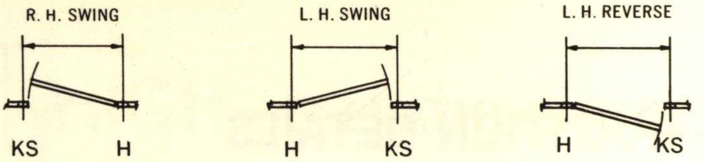
*__ALL GLASS__

signature
by Hauserman

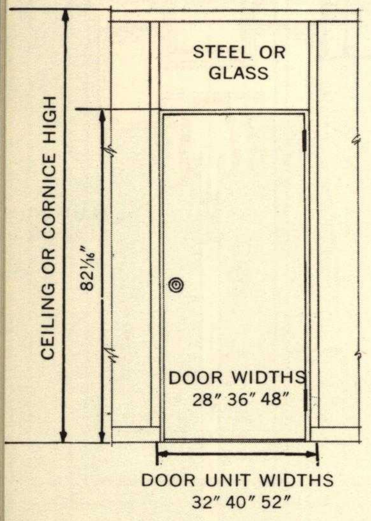
*Patent Pending

FLUSH . . . NO LINE
DOORS

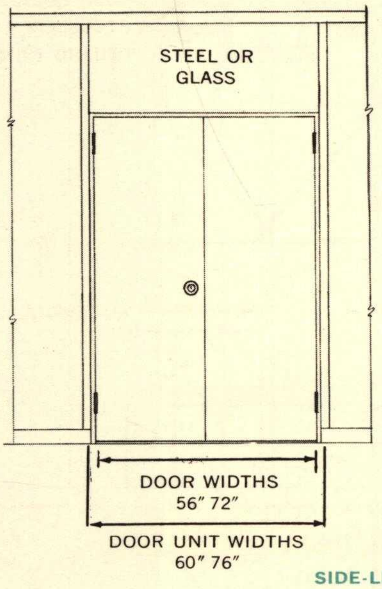
DOOR SWINGS


R. H. SWING
KS
H
L. H. SWING
H
KS
L. H. REVERSE
H
KS

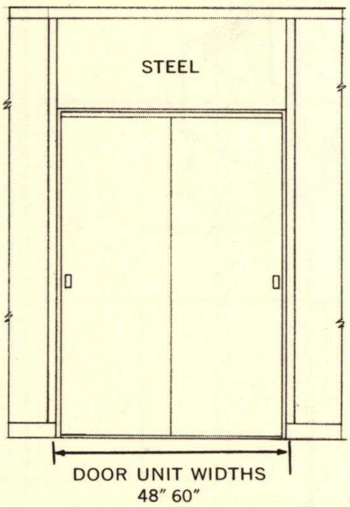
FLUSH, NO-LINE, ALL-STEEL


STEEL OR GLASS
CEILING OR CORNICE HIGH
82⅟₁₆″
DOOR WIDTHS
28″ 36″ 48″
DOOR UNIT WIDTHS
32″ 40″ 52″

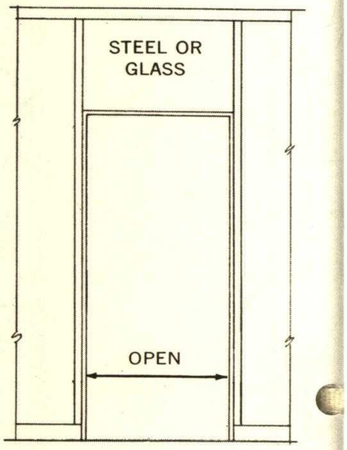
FLUSH, NO-LINE PAIR


STEEL OR GLASS
DOOR WIDTHS
56″ 72″
DOOR UNIT WIDTHS
60″ 76″

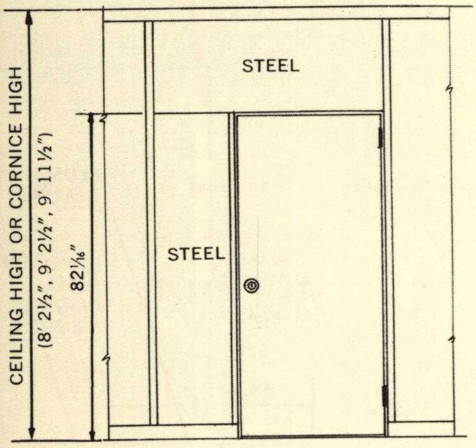
NO-LINE BY-PASS, SLIDE DOORS


STEEL
DOOR UNIT WIDTHS
48″ 60″

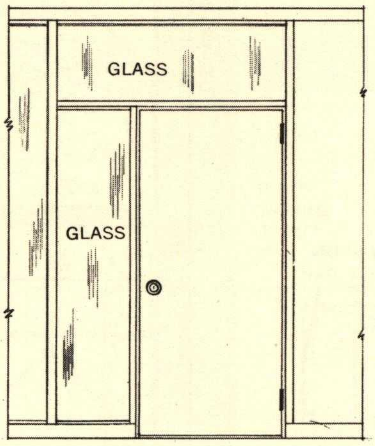
FRAMED OPENING


STEEL OR GLASS
OPEN

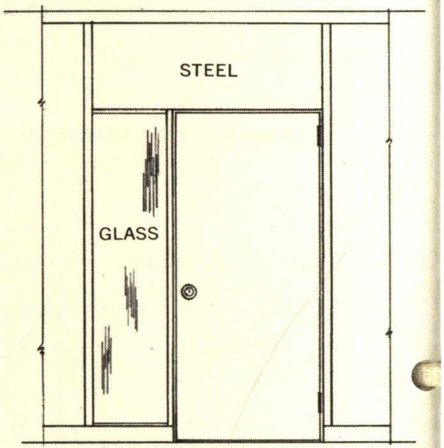
SIDE-LITE UNIT A


STEEL
STEEL
CEILING HIGH OR CORNICE HIGH
(8′ 2½″, 9′ 2½″, 9′ 11½″)
82⅟₁₆″

SIDE-LITE UNIT B


GLASS
GLASS

SIDE-LITE UNIT C


STEEL
GLASS

NO-LINE DOORS . . . STANDARD SIZES

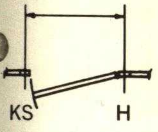
Steel—flush and one-lite; Wood—flush and one-lite

Type	Unit Widths	Door Leaf Widths Steel—flush and one-lite	Door Leaf Widths Wood—flush and one-lite	One-Lite Chair Rail Steel	One-Lite Chair Rail Wood	Louver Heights
Single	32″, 40″, 52″	28″, 36″, 48″ *	28″, 36″	42″, 54″	42″	12″ and 24″ nominal
Pairs	60″ 76″	two 28″ (one leaf inactive) two 36″ (one leaf inactive)	two 28″ (one leaf inactive) two 36″ (one leaf inactive)			
Framed Opening	32″, 40″, 52″, 60″, 76″					
Finished Opening	Variable from 32″					
Side Lites—A, B, C	48″, 60″	Flush doors only—36″, 48″	Flush doors only—36″			

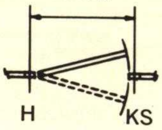
*Extra heavy butts required.

NOTE: Special door widths to 48″ available at extra cost, longer delivery

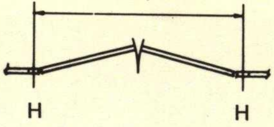
R. H. REVERSE



DOUBLE ACTING

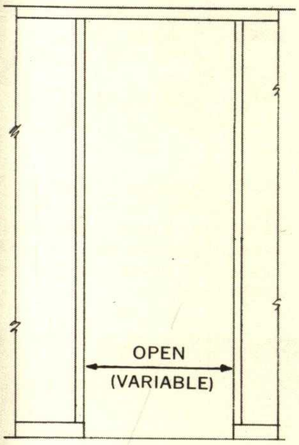


PAIR OF DOORS
Specify left or right hand active and keyside.

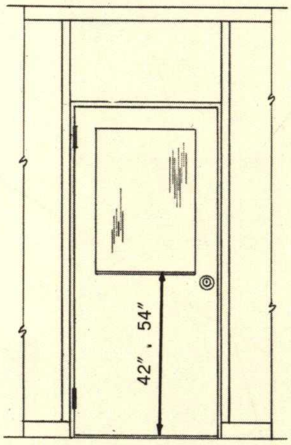


KEY=H—HINGE . . . KS—KEY SIDE

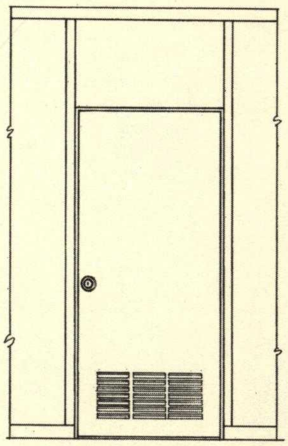
FINISHED OPENING


OPEN
(VARIABLE)

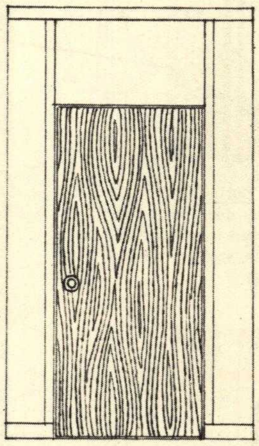
FLUSH, NO-LINE, ONE LITE



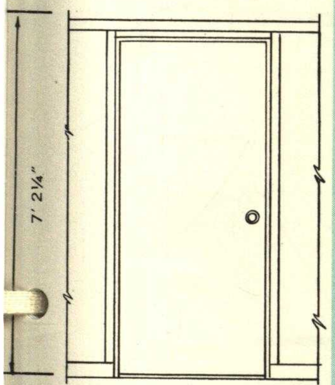
FLUSH NO-LINE DOOR WITH PUNCHED LOUVER



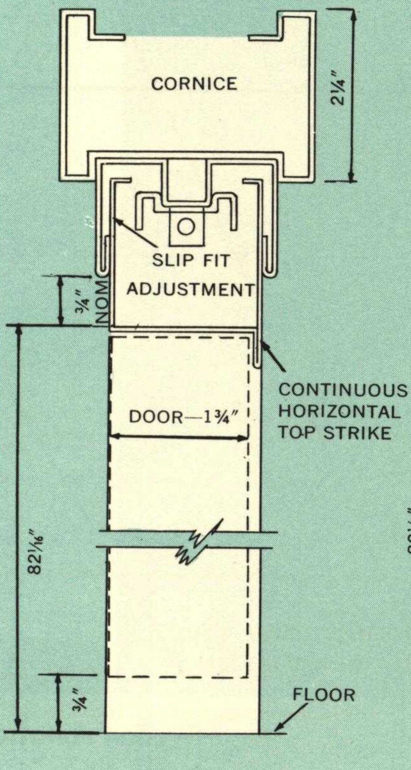
FLUSH WOOD DOORS



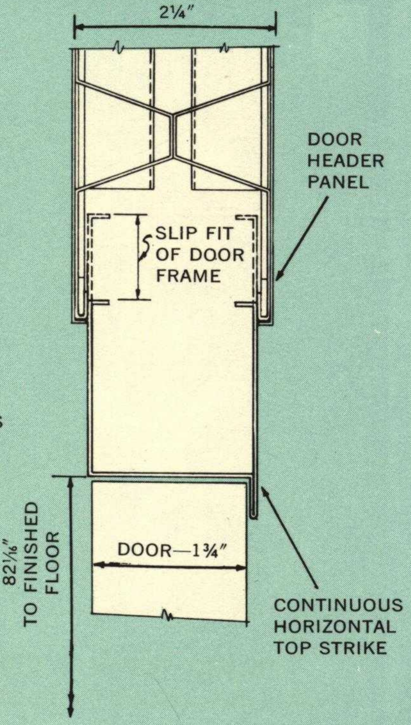
FLUSH, NO-LINE, ALL-STEEL
(CORNICE HIGH)



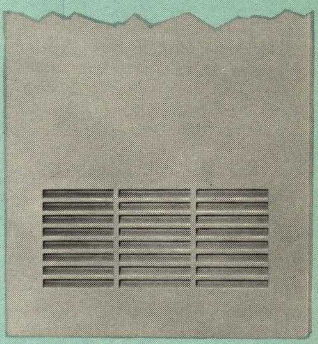
ADJUSTABLE DOOR FRAME
(CORNICE HIGH)

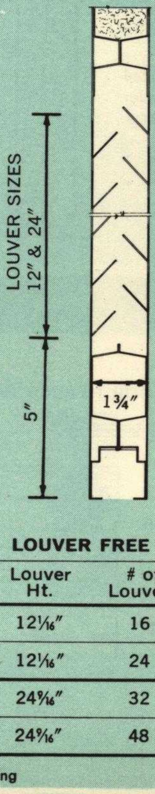

CORNICE
2¼"
SLIP FIT
ADJUSTMENT
¾"
NOM
CONTINUOUS
HORIZONTAL
TOP STRIKE
DOOR—1¾"
82¹⁄₁₆"
¾"
FLOOR

ADJUSTABLE DOOR FRAME

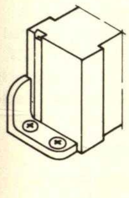

2¼"
DOOR
HEADER
PANEL
SLIP FIT
OF DOOR
FRAME
82¹⁄₁₆"
TO FINISHED
FLOOR
DOOR—1¾"
CONTINUOUS
HORIZONTAL
TOP STRIKE

***PUNCHED LOUVER**

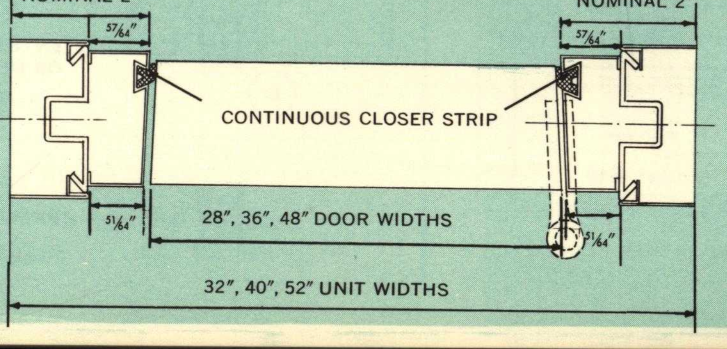



LOUVER SIZES
12" & 24"
5"
1¾"

DOOR STOP



PLAN VIEW—DOOR . . . DOOR FRAME

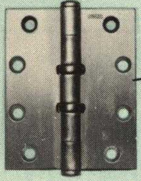

NOMINAL 2"
⁵⁷⁄₆₄"
NOMINAL 2"
⁵⁷⁄₆₄"
CONTINUOUS CLOSER STRIP
⁵¹⁄₆₄"
28", 36", 48" DOOR WIDTHS
⁵¹⁄₆₄"
32", 40", 52" UNIT WIDTHS

LOUVER FREE AREA

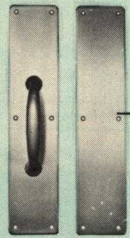
Door Width	Louver Ht.	# of Louvers	Free Area (sq. in.)
28"	12¹⁄₁₆"	16	38.2"
36"	12¹⁄₁₆"	24	57.3"
28"	24⁹⁄₁₆"	32	76.4"
36"	24⁹⁄₁₆"	48	114.6"

*Patent Pending

BASIC HARDWARE

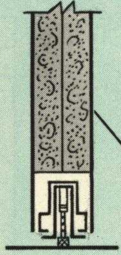


C 601900 — S. Butts are 5″ x 4″. One pair used per door. Butts have ball bearing washers for easy, noiseless operation. Available in US10 and US26D finish.

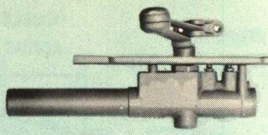


C 601700 — S. Push plate, plain, center located 44¾″ above floor. C 601800 — S. Pull plate, center located 44¾″ above floor. Both available in US10 and US26D finish. Push bars also available.

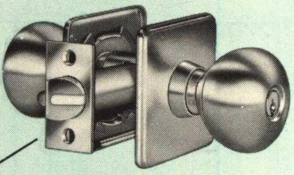
C 607000—S. Threshold — extruded aluminum ⅜″ high, 2″ wide, with ¼″ nigh adapters when specified for special conditions such as rugs, linoleum, etc.



Drop Seal . . . located in bottom of door for light and sound seal.

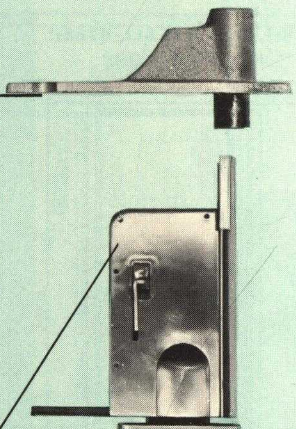


C 604300—S, C 604700—S. Concealed door closer—case completely concealed within door, painted to match door. Hold open arm 110° opening; regular arm 180° opening.

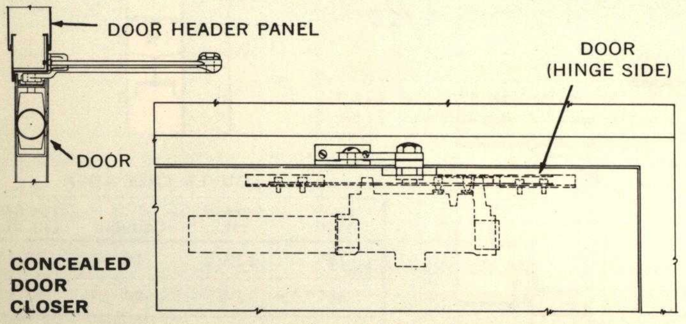


690000—Cylindrical locks and latchsets. Complete reversibility without disassembly. May be master keyed. Minimum projection from 1¾″ door face is 2⅝″. Available in US10 and US32D finish.

C 607600 — S. Kick plates — specify one or both sides. No. 14 ga., 8″ high bronze, or C 607700 — S No. 16 ga. stainless steel, brushed finish.



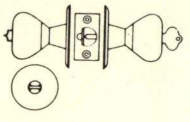
C 603700—S. Double acting hinges . . . pivot permits doors to swing both ways. It is ball bearing with tension adjustment. Includes floor plate and top pivot. Mounts on surface of floor — no hole in floor required. Available in US10 and US26D finish.



CONCEALED DOOR CLOSER

LOCATION OF CONCEALED CLOSER IN DOOR

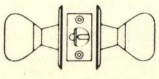
LOCK FUNCTIONS . . .



ENTRANCE OR OFFICE

(Lockset)

by both knobs. From outside by key. Outside knob locked or unlocked by turn button in inside knob. Guarded latch bolt. Fed. 161A. 691300—not master keyed 690500—master keyed to Hauserman system.

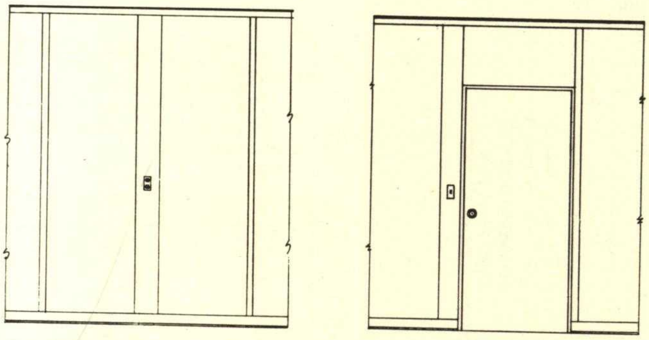


PASSAGE

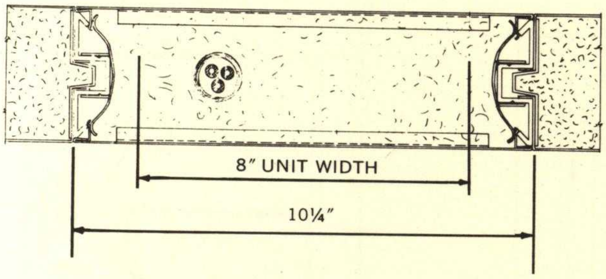
(Latchset)

by both knobs. Fed. 161N. 691100

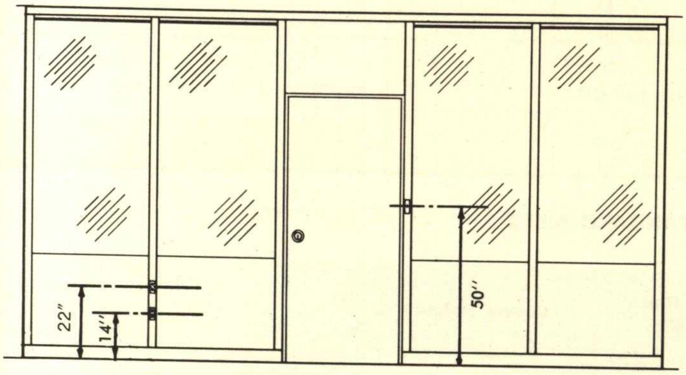
BASIC ELECTRICALS



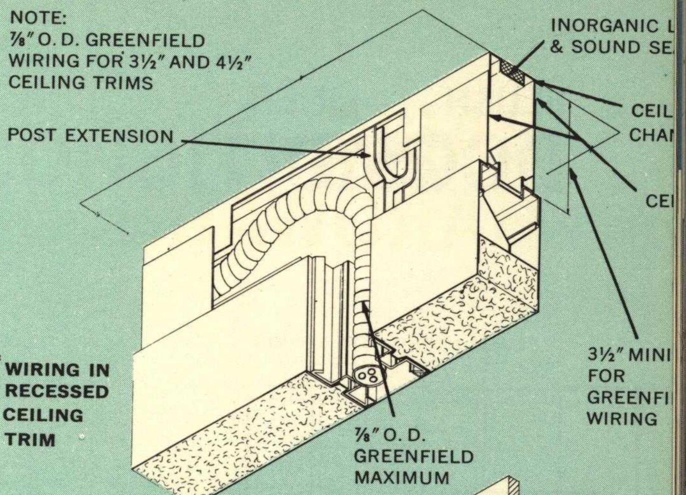
*REMOVABLE UTILITY ACCESS PANEL


8″ UNIT WIDTH
10¼″

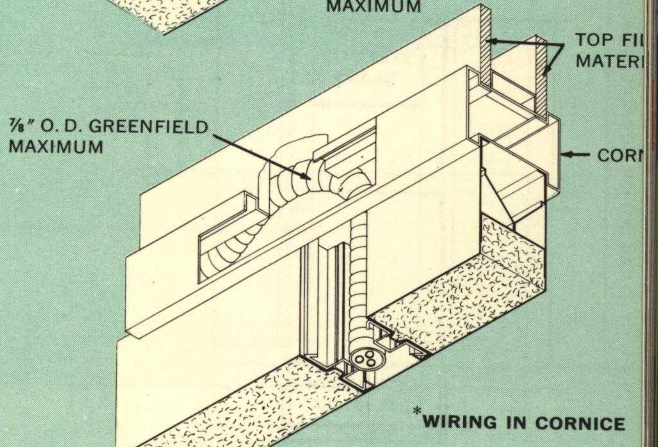
TYPICAL LOCATIONS OF ELECTRICAL FITTINGS



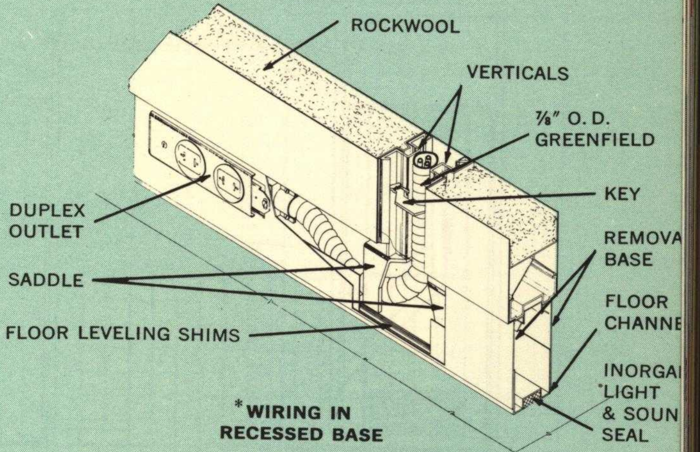
Complete electrical fitting units . . . boxes, cable, clamps, straps . . . are furnished by Hauserman.


NOTE:
⅞″ O. D. GREENFIELD
WIRING FOR 3½″ AND 4½″
CEILING TRIMS
POST EXTENSION
INORGANIC L
& SOUND SE
CEIL
CHA
CEI
3½″ MINI
FOR
GREENFI
WIRING
⅞″ O. D.
GREENFIELD
MAXIMUM

*WIRING IN RECESSED CEILING TRIM

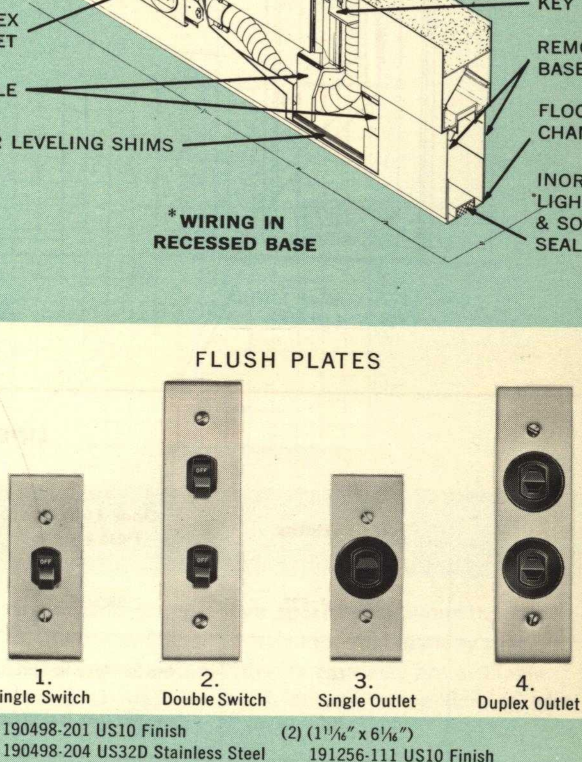

TOP FI
MATERI
⅞″ O. D. GREENFIELD
MAXIMUM
CORN

*WIRING IN CORNICE


ROCKWOOL
VERTICALS
⅞″ O. D.
GREENFIELD
KEY
DUPLEX
OUTLET
REMOVA
BASE
SADDLE
FLOOR
CHANNE
FLOOR LEVELING SHIMS
INORGA
LIGHT
& SOUN
SEAL

*WIRING IN RECESSED BASE

FLUSH PLATES



1. Single Switch
2. Double Switch
3. Single Outlet
4. Duplex Outlet

(1) 190498-201 US10 Finish
190498-204 US32D Stainless Steel

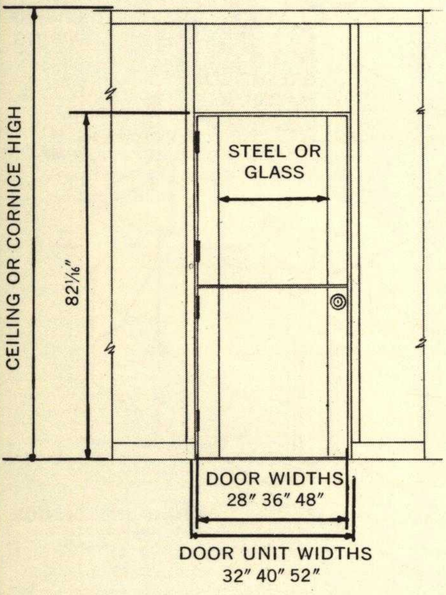
(2) (1$^{11}/_{16}$″ x 6$^{1}/_{16}$″)
191256-111 US10 Finish
191256-114 US32D Stainless Steel

(3) 190498-111 US10 Finish
190498-114 US32D Stainless Steel

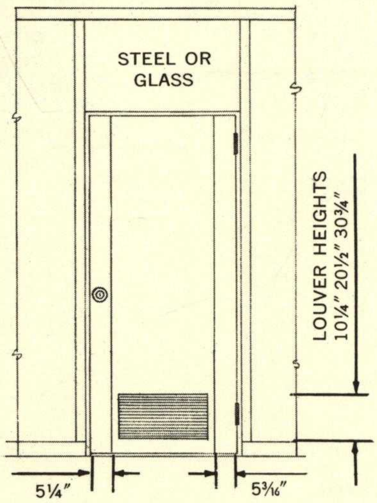
(4) (1$^{11}/_{16}$″ x 6$^{1}/_{16}$″)
191256-121 US10 Finish
191256-124 US32D Stainless Steel

FLUSH . . . LINED
DOORS

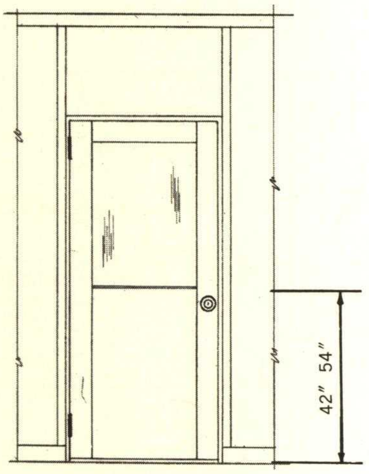
FLUSH, LINED, DUTCH DOOR

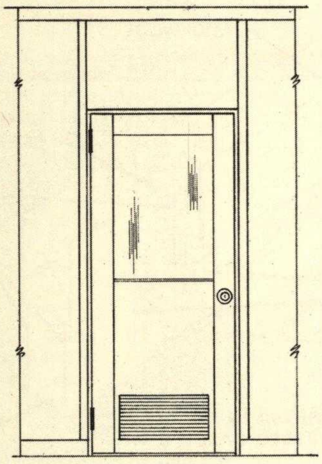

CEILING OR CORNICE HIGH
82⅛″
STEEL OR GLASS
DOOR WIDTHS
28″ 36″ 48″
DOOR UNIT WIDTHS
32″ 40″ 52″

FLUSH, LINED WITH "V" LOUVER

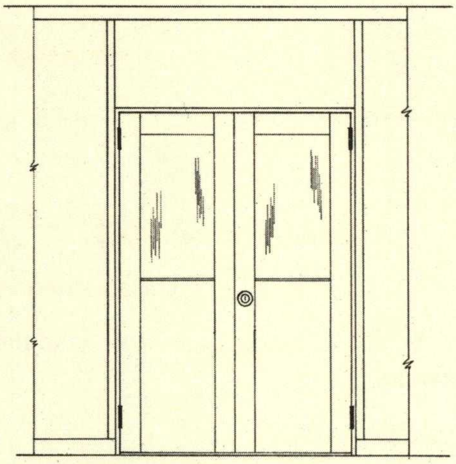

STEEL OR GLASS
LOUVER HEIGHTS
10¼″ 20½″ 30¾″
5¼″
5³⁄₁₆″

ONE LITE, FLUSH, LINED

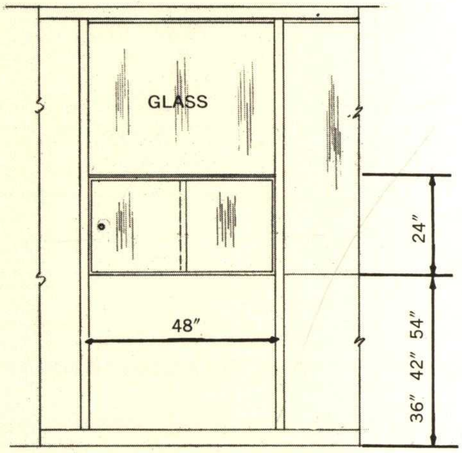




ONE LITE, FLUSH, LINED WITH "V" LOUVER



ONE LITE, FLUSH, LINED PAIR


GLASS
24″
48″
36″ 42″ 54″

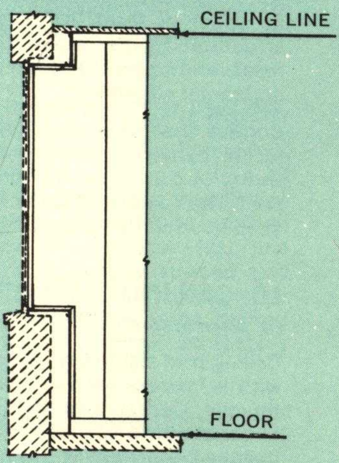
ALUMINUM SLIDE WICKET

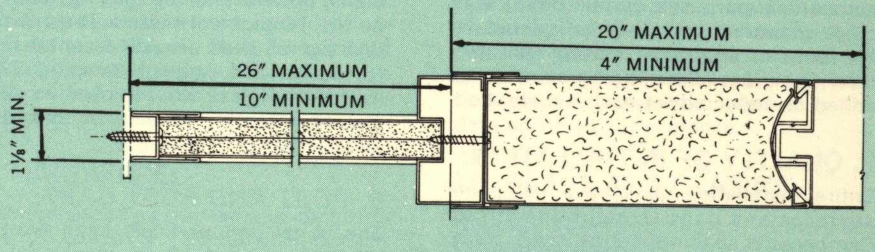
LINED DOORS . . . STANDARD SIZES

Type	Unit Widths	Door Leaf Widths Flush and one-lite	Chair Rail One-lite	Louver Heights	
Single	32″, 40″, 52″	28″, 36″, 48″	36″, 42″, 54″	10¼″, 20½″, 30¾″	NOTE: Other Doors Available: Dutch—36″ leaf Double-Acting Full Lite Glass Hauserman Fire Doors—28″, 36″, 48″ leafs (ASTM E152-58)
Pairs	60″	two 28″ (one leaf inactive)			
	76″	two 36″ (one leaf inactive)			

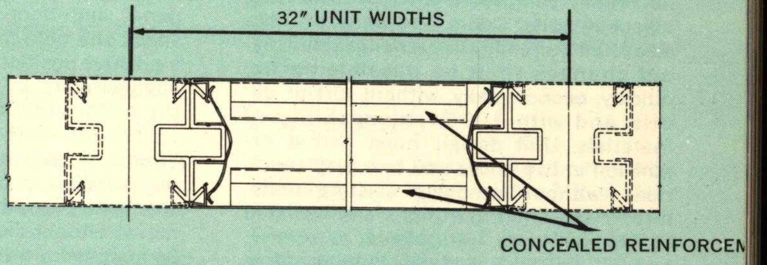
BASIC SPECIAL CONDITIONS

END FILLER
AT WINDOW MULLION
OVER STOOL


CEILING LINE
FLOOR

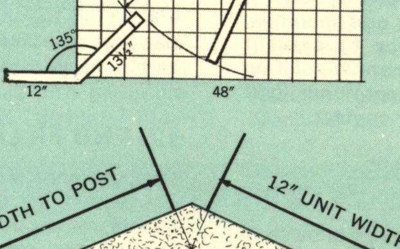

20″ MAXIMUM
4″ MINIMUM
26″ MAXIMUM
10″ MINIMUM
1⅛″ MIN.

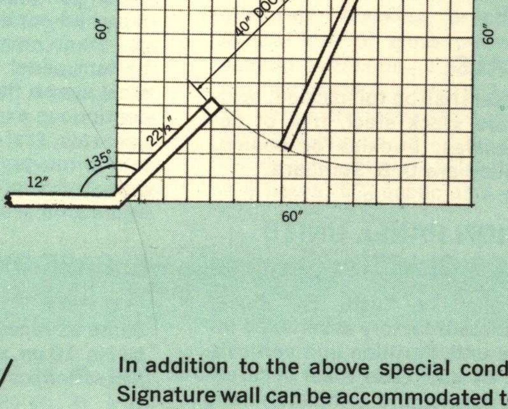
*** THIN END TO NARROW MULLION**

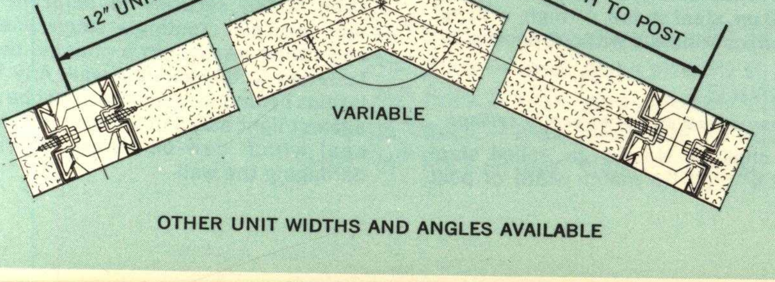

32″, UNIT WIDTHS
CONCEALED REINFORCEM

*** REMOVABLE UTILITY ACCESS PANEL**

*** ANGULAR CONDITIONS**


48″
135°
12″
13½″
40″ DOOR UNIT
48″
48″
135°
13½″
12″
48″


12″
135°
60″
22½″
40″ DOOR UNIT
60″
60″
22½″
135°
12″
60″


12″ UNIT WIDTH TO POST
12″ UNIT WIDTH TO POST
VARIABLE

OTHER UNIT WIDTHS AND ANGLES AVAILABLE

In addition to the above special conditions the new Signature wall can be accommodated to many special requirements. Many other accessories are available. Lining of masonry walls, details for application to door openings, elevator trim, etc.

SPECIFICATIONS — SIGNATURE

1. SCOPE OF WORK:

The E. F. Hauserman Company Signature 20 (2¼" thick, flush type), erected complete, shall be the basis for all bids. For comparison purposes, certain products of other manufacturers may be quoted on bid forms as alternates, stating manufacturer, type, deviations, and amount to be added or deducted for each substitution.

2. QUALITY OF INSTALLATION:

Entire installation shall have flat panel surfaces and tight straight line joints. Components shall not shrink, swell, warp, crack or open up, and shall assemble into a rigid structure which will retain its original appearance indefinitely. All units shall be readily removable without disturbing adjacent units. Doors and panels of like size shall be readily interchangeable. Layout changes shall be possible easily, quickly, economically, without dirt or debris and with 100% salvagability of materials. Unit design must permit expansion in two, three and four way conditions, without removing existing units. After installation, partitions shall be free of exposed bolts, nuts, rivets, or screws, and all finished surfaces shall be free of tool marks.

3. ERECTION:

All partition runs shall be installed on top of finished flooring. Partition shall be scribed and neatly fitted to existing building conditions, erected in a rigid and substantial manner, straight and plumb, with horizontal lines level. Units shall interlock and align at the panel and door unit joints. Floor fastenings shall be concealed and adjustable to floor level. Partition contractor shall provide reinforcements or through posts to ceiling wherever required to assure lateral stability of all partition runs.

4. MATERIALS:

All exposed steel shall be full-pickled, cold-rolled, furniture stock steel, free of defects, pits, scales, buckles or seams. Gauges specified are U. S. Standard.

5. PARTITION PANEL UNITS (SOLID OR GLAZED):

Panel units shall be flush, 2¼" thick, rockwool insulated, factory assembled into a complete unit. Partition unit verticals shall be No. 14 ga. rolled steel securely connected to panels, and completely concealed on all steel panels. Panel plates shall be No. 20 ga. roller-leveled steel with horizontal reinforcements 12" apart, welded to back face of panel with a double row of spotwelds 3" on center to assure uniform thickness and flatness. Lower panels for glass units shall have the top edge formed to provide the glazing groove.

Where glazed partitions are shown on the plans, bottom and top glazing rails shall be No. 16 ga. steel shapes. The one-piece unit top rail shall provide a center recess to receive and retain a snap-in, 22 ga. rolled steel glass stop, applied as part of glazing assembly. Mullion width between glass shall not exceed 2¼".

6. POST AND POST CAPS:

The panel unit verticals shall have key stops to position 10 ga. steel post keys spaced not more than 18" o. c. on each side of the partition post, to prevent slipping and resultant misalignment of panel and door units. Post keys shall space and hold the panel unit verticals in a positive position, without connections or engagements in the post cap. Edges of the panel vertical and the 20 ga. rolled post cap shall be shaped to provide a continuous engagement for the full height of the partition, providing a positive sound seal and permitting installation and removal without distortion. Post caps are to be installed individually from each side of the partition, flush with the panel. Panel verticals shall also be provided with a saddle at the bottom to allow adequate space for wiring. Each post shall be leveled with floor shims to compensate for floor variations, and maintain a permanent level.

7. BASE RECESSED:

(See paragraph 10 for matching ceiling trim.)

Base shall be No. 18 ga. steel shape 3¾" high, with ¼" recess behind panel face, continuous without plinths, and adjustable to floor variations. Base shall install individually from each side of partition to allow continuous wiring. Base shall be attached continuously at the top by a 20 ga. steel member securely fastened to bottom panel edge, and by a No. 18 ga. steel shape floor channel at the bottom, continuous except at doors and openings, securely fastened to floor to prevent lateral movement. Floor channel shall be designed to provide for a continuous light and sound seal at the floor contact.

8. BASE OVERLAPPING:

(See paragraph 11 for matching ceiling trim.)

Same as recessed base except base shall be No. 18 ga. steel shape, 4" high, with 3/32" projection, continuous without plinths.

9. CORNICE:

(Used when panels do not extend to ceiling)

Cornice shall be No. 14 ga. rolled steel shape, 2¼" high (to match width of post cap) 3 5/16" wide, to provide lateral stability. Cornice shall provide space for concealed wiring. Corners shall be mitred, welded and disced absolutely smooth.

Top flanges of cornice shall be reinforced with spot welded tie bars spaced not more than 24" o. c.

Each cornice field joint shall have a double No. 10 ga. steel, concealed expanding pull-up splice at least 20" long to maintain structural rigidity equal to the cornice itself, and to provide perfect vertical and horizontal alignment.

Cornice shall have punchings every 4" to locate panel connections and to permit wiring or concealed reinforcement at any post. The concealed cornice pull-up splice shall have similar punchings.

10. CEILING TRIM RECESSED:

(In place of Cornice)

Ceiling trim shall be No. 18 ga. steel shape with ¼" recess behind face of panel, continuous. Ceiling trim shall be adjustable to variations in ceiling level. Trim shall be installed individually from each side of the partition to allow continuous wiring facilities. Trim shall be attached continuously at the bottom, securely connected to the top edge of the panel and by a ceiling channel at the top. Ceiling channel shall be No. 18 ga. steel shape securely fastened to the suspended ceiling. Ceiling channel shall be designed to provide for an inorganic seal at the ceiling.

Each one-way post shall be braced at the ceiling with a post extension No. 16 ga. steel to provide a rigid connection of panel post to ceiling channel. Post extension shall be functionally designed to permit continuous wiring.

11. CEILING TRIM OVERLAPPING:

(Omit for Cornice High)

Same as recessed except ceiling trim shall be No. 18 ga. steel shape, continuous.

12. END FILLERS:

Partition end fillers to fixed walls or columns shall be double steel No. 20 ga. sheets, rockwool packed. End filler panels shall fasten securely to adjacent panel unit verticals, creating a single line joint, and fitting neatly into a channel securely fastened to the building wall. Any irregularities behind wall channel must be sealed against light and sound by a compression seal which can be removed without damaging the wall.

13. TOP FILLERS:

(Omit if no top filler is required.)

Double plaster board top filler shall extend from the cornice to the ceiling and shall be sheets ⅜″ thick, neatly scribed at ceilings, walls, beam drops, pipes, etc. Joints shall be reinforced, pointed, smooth finished, and top fillers painted by partition contractor.

No. 20 ga. steel clips shall be spaced approximately 12″ o. c. in the top groove of the cornice to position the double plaster board.

Where ceilings are suspended and level, particularly where acoustical ceiling materials are used, specify: steel ceiling channels shall be able to receive double plaster board top filler, and have a continuous compression seal to prevent light and sound leaks resulting from ceiling irregularities.

14. DOUBLE STEEL TOP FILLER:

Double steel top filler for partitions shall extend from cornice to ceiling, with a 20 ga. continuous steel member installed in cornice groove to support and position double steel top filler sheets. Flush line joints shall be uniformly spaced and readily removable. If sound control is required, specify top filler is to be packed with rockwool. Finish shall be factory applied to match partitions.

15. DOORS AND FRAMES:

All flush and one-lite doors shall be 1¾″ thick with 3/32″ clearance at jambs, 1/16″ clearance at head. Doors shall be manufacturer's standard, with glass in upper panel or flush steel solid type, as specified. Doors shall be No. 20 ga. steel with edge lock joints, rockwool insulated. Doors shall be reinforced at top to mount either concealed or surface type closer, and doors shall be glazed in a manner similar to panel units without use of screws, or loose glazing stops. All doors shall be furnished with a floor type door stop.

Door frames shall be cold rolled, one-piece welded No. 18 ga. steel, with a slip-fit adjustment at the head to compensate for floor irregularities, and with a continuous vertical closure strip and continuous head stop. Frames shall be mortised and reinforced for specified hardware and to permit interchange of locks for any hardware operation.

16. HARDWARE:

Hardware shall be designed and constructed to fit the U. S. Federal Specification No. 161. Locksets of different operations shall be interchangeable. Doors shall be hung on one pair non-friction, oil-free bearing hinges.

NOTE: Check partition contractor for information on other applicable hardware.

17. ELECTRICAL PROVISION:

(Omit if no electrical fittings are required.)

Partition contractor shall provide cutouts (post caps factory punched before painting) 50″ above floor for electrical switches and 14½″ above floor for outlets. Partition contractor to furnish switches, duplex plug receptacles, flush plates (stainless steel) for all locations shown on plans. All conduits, electrical wiring and connections by others.

18. FACTORY FINISH:

All exposed surfaces shall be prime coated, with no surface painted before it is clean and dry. A finish coat of uniform color and texture shall be applied to all exposed surfaces. In addition, back sides of panel plates shall be either prime coated or shall have a protective coating.

Each coat shall be oven-baked at proper temperature to polymerize the finish. Material shall be lightly sanded between coats to reduce high spots. Finish coat shall have eggshell texture. Manufacturer to furnish independent laboratory test data on finish performance.

19. GLASS AND GLAZING:

Glass of specified design, quality and thickness shall be furnished by the partition contractor.

Glass shall be bedded in aluminum glazing channel to provide firm retention and seal, without exposed screws, and shall permit easy installation and removal without damage.

20. CLEAN-UP:

All cartons and rubbish shall be removed, and work left broom clean. Minor blemishes and defects shall be touched up. Cleaning of glass and erection dust is considered maintenance work.

PAINT FINISH

Performance Tests: Commercial Cleaner Resistance—spot tests with 3% solutions of three commercial cleaners for 24 hours under watch glass with no softening and no appreciable change in color or general appearance. Kreelon 4 D, APCO 4316, Floor San. Stain Resistance — shall withstand the following when exposed under glass at room temperature for times indicated, with no more than trace of stain allowable: Mercurochrome—4 hours; tincture of merthiolate — 4 hours; hair oil, creme type (Wildroot) — 4 hours; solution type (Vitalis)—4 hours; black ink (Skrip Washable)—4 hours; synthetic-perspiration (Winchester-Arms formula)—1 hour. Hardness—shall withstand 500 gm load of a Hoffman hardness tester. Impact — shall withstand a direct impact of a minimum of 20 inch-lbs. (using ½″ diameter steel ball) with no cracking. Appearance Uniformity—Resistance to Dry Rub: run 250 cycles on Gardner Model 105 Washability and Abrasion Machine, using cheese cloth over felt pad. There shall be no increase in gloss as measured by Gardner 60-degree Glossmeter. Heat Test: there shall be no appreciable appearance change or loss in film properties after 200 hours at 150 degrees F. Ultra-violet Resistance: there shall be no appreciable color change after 200 hours in the Atlas Fadeometer. Light and and Darkness Color Uniformity: a panel approximately 4″ x 12″ is half covered with heavy aluminum foil and placed in diffused daylight for one week. No apparent color change between the covered and uncovered areas is allowed. Accelerated Weathering — 400 hours exposure in a National Carbon Co. X-1-A Weathering Machine, with no fading or rusting (slight dulling and chalking of surface permitted). Humidity Resistance—400 hours in atmosphere with 100% humidity and temperature 100 degrees F. with no appreciable deterioration. Washability — 400,000 brush strokes while immersed in a 5% solution of trisodium phosphate in a Gardner Straight Line Washability Machine (Model 105) without any softening or more than slight abrading of the paint film. Chemical Resistance — Alkali: no etching, blistering, cracking, or changing color. (Slight loss of gloss permissible.) 50% sodium hydroxide—1 hour, 28% ammonium hydroxide — 4 hours. Acid: same performance characteristics as in alkali test. 50% sulphuric acid — 4 hours, 10% phosphoric acid—4 hours, 5% hydrochloric acid — 4 hours, 5% acetic acid — 4 hours, 5% nitric acid—1 hour.

SPECIFICATIONS—GLASS

⅛″ thick — max. glass size 20 sq. ft. total area
3/16″ thick — max. glass size 30 sq. ft. total area
7/32″ thick — max. glass size 30 sq. ft. total area
¼″ thick — max. glass size 35 sq. ft. total area
over ¼″ thick — max. glass size 50 sq. ft. total area

Continued on page 30

These limits apply to all types of glass. Thicknesses are for nominal standard sizes. Length and width limitations are governed by the Manufacturers standards, but the sq. ft. area should not exceed above. Glass ¼″ thick (clear or obscure) is recommended for full lite doors, glazed railing or when glass is sand-blasted or chipped in pattern. Use 39 oz. crystal for reasons of safety. Double-glazed partitions are glazed with two pieces of glass hermetically sealed — clear or obscure ½″ apart. Maximum size stocked is 44⅝″ x 40″. Allow 10 weeks for procurement of larger sizes or different type of glass for the two lites. 39 oz. crystal not stocked for lites over 50″ high. Patterned glass with ribs running vertically not stocked for lites over 48″; with ribs running horizontally, the height may run to 60″. All glass types used in Signature walls are furnished by the leading glass manufacturers in the field.

SPECIFICATIONS—TEXTURED VINYL WALL SURFACE

Partition panel units where specified shall have a decorative vinyl laminate applied to the 20 ga. steel panel plate.

The vinyl laminate shall be .008″-.010″ minimum thickness of colored and/or textured vinyl which has a transparent protective vinyl overlay of .002″ thickness. The vinyl shall be bonded permanently to the 20 ga. steel panel plate.

All vinyl surfaces shall be free from bubbles, blisters or unbonded areas. Color, pattern, and texture of the decorative surface shall be as selected.

Vinyl-metal surfaces shall have good abrasion resistance and durability against scuffing and wear. They shall be completely washable by approved soaps and cleaning agents, and shall maintain permanence of color and texture.

The steel panel plate shall have horizontal reinforcements 12″ apart glued to back face of panel with a thermoplastic type adhesive.

A .001″ thickness of vinyl shall be applied to the back face of the steel panel plate.

SPECIFICATIONS—WOOD VENEER PANEL SURFACE

Partition panel units where specified shall have a real wood veneer laminate applied to the face of the 20 ga. steel panel plate.

The wood veneer shall be 1/85″ thickness bonded permanently to the steel panel plate. The steel panel plates shall have horizontal reinforcements 12″ apart welded to back face of panel with a double row of spotwelds 3″ on center.

Panel plates with reinforcements shall be finished with a prime coat on all front and back surfaces and a cover coat of alkyd-urea finish on the front surface before lamination of the wood veneer.

Species and cut of wood veneer shall be as selected. Wood veneer shall be finished with a sealer coat and two coats of Satinlac.

SPECIFICATIONS—WOOD PANELS

Wood panels, when specified, shall be constructed as follows:

Cores shall be solid wood, formed of Basswood or poplar strips, not to exceed three inches in width. When specified, wood cores shall be given a non-combustible (complete impregnation) treatment. As an alternate to the treated wood core, a non-combustible mineral core may be used.

Crossbands shall be not less than 1/16″ thick plywood crossbanding or hardwood veneer of random width. The edge banding shall be profiled to provide a connection of the wood panel to the partition structure.

The finished, natural veneered, wood surface shall not be more than 1/28″ thick and shall be of species and cut as specified.

Face veneer will be finished with lacquer or oil-rubbed to following specifications:

LACQUER FINISH

1. Coat of lacquer sealer.
2. Sand.
3. Coat of clear lacquer.
4. Sand.
5. Coat of clear lacquer.

OIL-RUBBED FINISH

1. Burnish sand.
2. Coat denatured alcohol, wipe before alcohol evaporates.
3. Coat boiled linseed oil.
4. Wipe with rayon cloth.
5. Coat boiled linseed oil.
6. Wipe with rayon cloth.

Face veneer shall be full length, matched for color and grain to produce balance and continuity of character.

SPECIFICATIONS—WOOD DOORS

Wood doors shall be flush or one lite, solid core, 1/28″ face veneer, 1/16″ cross band, matching vertical edges, untreated wood core. Doors shall be 1¾″ thick, reinforced and mortised for specified hardware (butts, #161 locksets, concealed or surface closers, etc.)

Door finishes shall be lacquered or oil-rubbed to following specifications:

LACQUER FINISH

1. Coat of lacquer sealer.
2. Sand.
3. Coat of clear lacquer.
4. Sand.
5. Coat of clear lacquer.

OIL-RUBBED FINISH

1. Burnish sand.
2. Coat denatured alcohol, wipe before alcohol evaporates.
3. Coat boiled linseed oil.
4. Wipe with rayon cloth.
5. Coat boiled linseed oil.
6. Wipe with rayon cloth.

All doors are to be random or book matched with adjacent panels as specified. If required, fire proofed cores are available.

SPECIFICATIONS—MAXIMUM SOUND CONTROL

Extreme care has been taken in the design of the partition perimeter fit and seal to the building structure (floors, walls, and ceilings) also the design and fit of all trim members (base, ceiling trim, post caps) to assure a uniform efficiency in sound transmission reduction as a standard for the product. There are occasions, however, when the very maximum is required. The following is to be added, when required, to the regular partition specifications:

(a) The partition posts shall be solidly insulated with rockwool during erection of partitions.

(b) Space within cornice and/or ceiling trim shall be solidly insulated with rockwool during erection.

(c) The partition base shall be solidly insulated with rockwool during erection.

(d) Top Filler (if any) shall be solidly insulated with rockwool for its full heights.

(e) Metal threshold shall be furnished at each door. Thresholds shall raise the floor level below the door to the point at which rubber wiper attached to the bottom of the door shall make continuous sliding contact for the width of the door.

A continuous wiper shall be installed in the bottom of each door in such a manner as to make contact with threshold as mentioned above.

(f) Baffles shall be installed by ceiling contractor above suspended ceiling over each partition run.

(g) Glazed partition runs (if any) shall be glazed with hermetically sealed double glass panels. All four edges of the glass shall be well sealed to prevent sound leakage around glass.

Results of Sound Performance Tests are available on request.

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717 Liberty Avenue
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TAylor 6-4196

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2370 Rice Blvd.
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MUtual 2-8221 & 2-8222

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K. C. Morley
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Movawall

TRADE MARK

MOVABLE PARTITIONS

MANUFACTURED BY **HENGES COMPANY, INC.**

Movawall

A NEW CONCEPT IN SPACE DIVISION

MOVA-WALL partitions insure privacy and beauty as well as divide space where efficiency and economy are of the utmost importance. As shown on the following pages, many unusual and attractive panel combinations are available. Mova-Wall partitions are so versatile that even during installation, changes can be made without added cost or delay.

For complete information, call the MOVA-WALL representative in your area to explain how these partitions can help you effectively allocate space in any area at a very moderate cost.

ADVANTAGES:

LOW COST –Simplicity of design and fewer parts make Mova-Wall partitions cost less than most methods of dividing space. In some cases the cost is even lower than plaster or dry wall.

IMMEDIATE AVAILABILITY –Your local distributor maintains a complete inventory of parts to meet most job requirements. This is of particular advantage should changes or additions become necessary during installation or at a later date.

EASILY MOVED AND REUSED –Can be easily moved and rearranged without mess, disturbance, or waste.

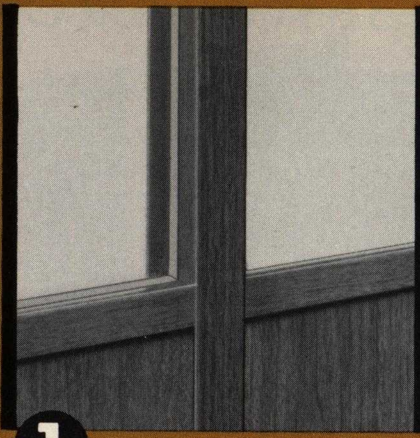
ATTRACTIVE APPEARANCE –Available in numerous panel designs as illustrated on the following pages. Any color or finish is available; or partitions may be painted after installation to harmonize with existing color schemes.

VERSATILITY –Standard size panels may be cut and shaped on the job to meet any space requirement, thus saving time and permitting changes in design as required.

EARLIER OCCUPANCY –Fast, easy installation permits valuable office or factory space to be occupied at a much earlier date than other types of wall construction.

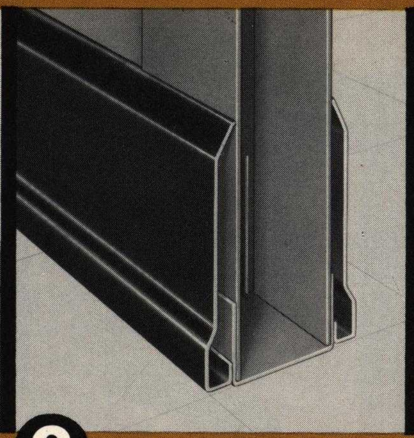
IMPROVED EFFICIENCY –Clearly defined office areas and traffic lanes step up efficiency. Better employee morale results in greater production in office or factory.

© HENGES CO., INC. 1959



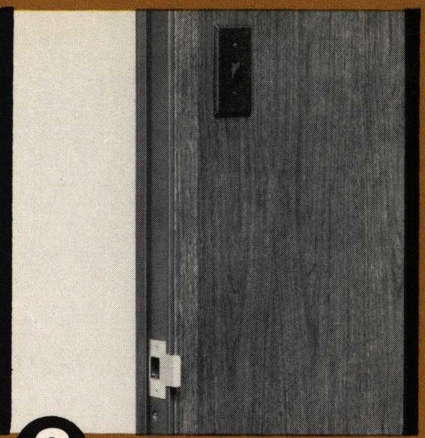
①

WINDOWS: Glass is cushioned in dust-proof plastic gaskets and is easily replaced. Trim is completely flush on both sides with no exposed screws or fastenings.



②

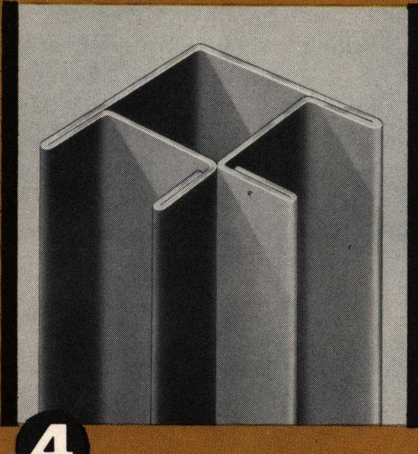
BASE: Steel with baked-on black enamel finish. Snap-on feature makes it easy to install or remove for quick access to concealed wiring channel, and provides for necessary electrical outlets.



③

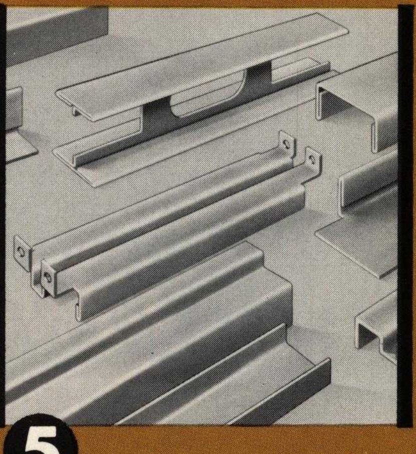
DOOR FRAME: 16 gauge steel door frames for 1⅜ inch wood or metal doors. Fits flush with partition trim. Designed for cylindrical lock sets. Electrical switches mounted in panel as shown, or in wiring studs. 1¾ inch doors and frames also available.

EFFICIENCY IN EVERY DETAIL



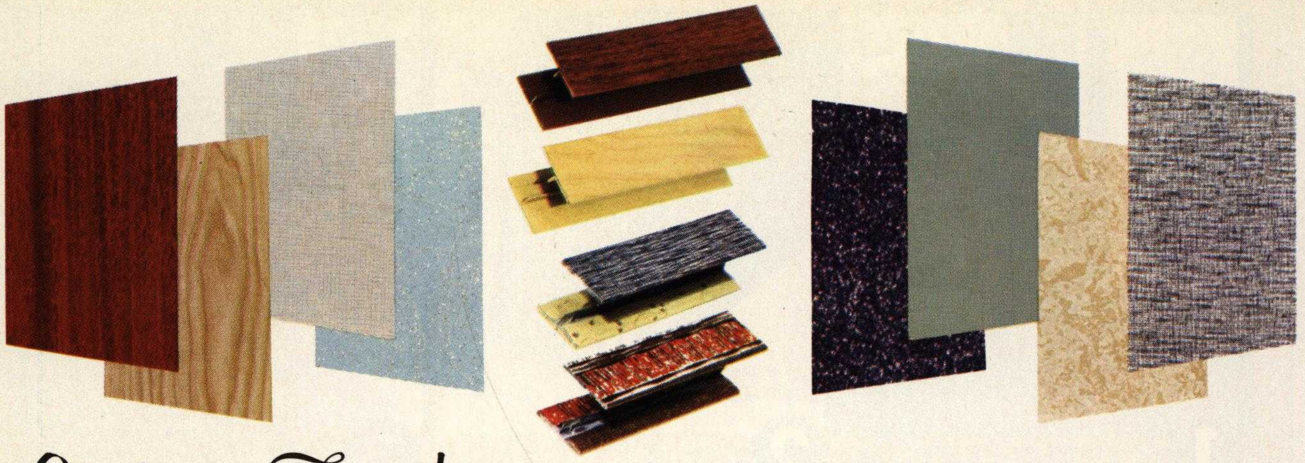
④

CORNER POSTS: Single piece roll-formed steel. Structurally stronger, more attractive, and easier to assemble. Hollow construction permits easy wiring.



⑤

METAL PARTS: A minimum number of metal parts required. All parts are roll-formed with hemmed edges to eliminate sharp surfaces. Electrolytic zinc coating for rust prevention and paint adherence.



Custom Finishes . . . . IN STOCK

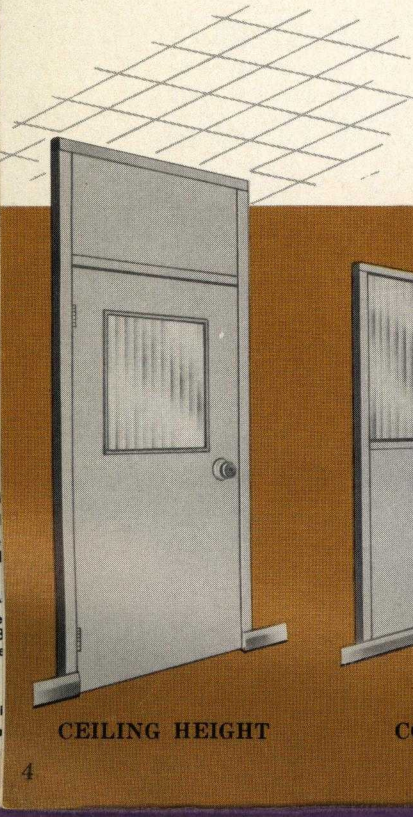
A wide selection of colors and textures permits a choice of any finish that suits your particular needs and tastes. You'll find it easy to match or harmonize with existing decor.

A variety of melamine-faced wood-grain panels with matching metal trim is available to create rich, harmonious wood-grained interiors. Textured vinyls in many solids or patterns can be used to add beauty and distinction to any Mova-Wall installation.

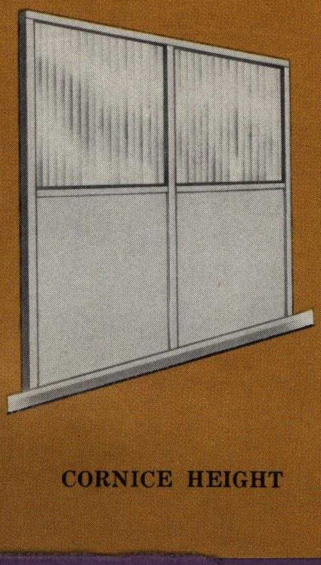
High-temperature, baked-on enamel is used for factory finished surfaces. Mova-Wall can also be furnished and installed unpainted for finishing by your own contractor.

A Movawall TYPE FOR EVERY NEED

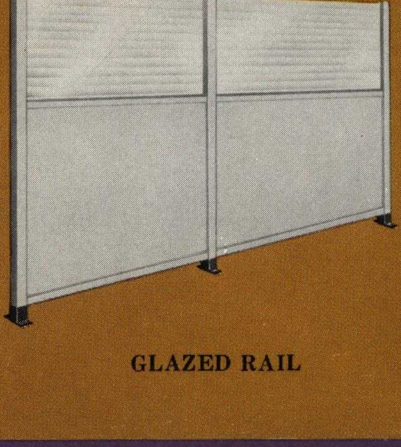
The overall versatility of Mova-Wall gives you freedom to tailor partitions to meet your exact requirements. Clear glass panels for vision or obscure glass for privacy while utilizing borrowed light. Consult your local distributor for any special design to meet your specific need.



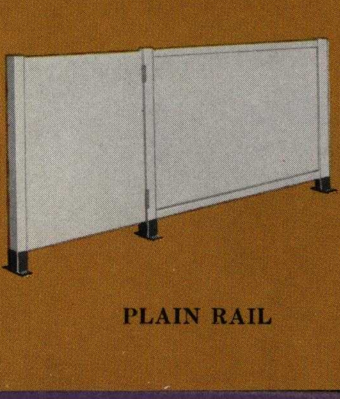
CEILING HEIGHT



CORNICE HEIGHT



GLAZED RAIL



PLAIN RAIL

MOVA-WALL

PANEL CONSTRUCTION

Mova-Wall paneling has been engineered to provide quality construction and long life. Mova-Wall panels, 1⁹⁄₁₆ inches thick, achieve good sound transmission loss ratings and, at the same time, save valuable space. Panel modules can conform to any job requirement and may be 10 or 12 feet high without use of filler panel . . . depending on panel material used. Panels may be of steel, wood, vinyl, gypsum board, hardboard, cement, asbestos board, and many others to suit specific need.

A GYPSUM BOARD PANEL . . . Lowest in cost. Excellent sound transmission loss of 34.7 decibels.* Constructed of ½ inch thick gypsum board with gypsum board spacers as core.

B HONEYCOMB CORE PANEL . . . Its low cost and light weight make it one of the most popular panel cores to which facings can be laminated. Most often used facings are pre-enameled hardboard or steel. It is ideally suited for cornice and railing applications.

C SOUND ABSORBING PANEL . . . Where both sides are perforated, ⅜ inch thick gypsum board is used as a sound baffle and acoustical batts are used to absorb sound. Usually furnished with baked enamel finish.

D MARLITE WITH GYPSUM BOARD CORE . . . ⁵⁄₃₂ inch Marlite laminated to two layers of ⅝ inch thick gypsum board produces a sound transmission loss of 39.3 decibels.* Excellent for full privacy and sound control.

*Based on actual tests by Geiger-Hamme Laboratories of complete partition — not just panels. Complete test findings available on request.

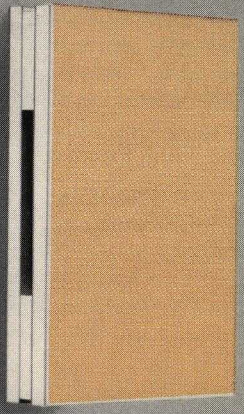
CEILING HEIGHT: For maximum privacy and sound control. Fastens securely to almost any ceiling including suspended acoustical.

CORNICE HEIGHT: A slightly lesser degree of privacy, but more economical. Sometimes necessary because of existing heating or air-conditioning systems. Usually 7 or 8 feet high.

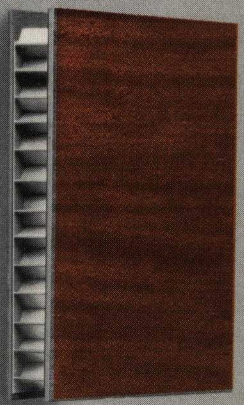
GLAZED RAIL: Provides semi-private work areas and eliminates visual distractions to seated employees while allowing for supervisory control. Special stiffening device assures permanent rigidity. Usually 54 to 66 inches high with 12 to 24 inches of clear or obscure glass.

PLAIN RAIL: The simplest and most economical area divider — 42 inches high or less. Permits full supervisory control from seated position.

A

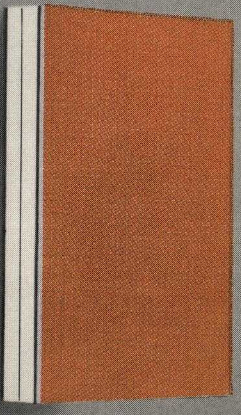


B



C

D



SPECIFICATIONS

GENERAL: Furnish and install Mova-wall partitions and/or railings as manufactured by the Henges Company, Inc., St. Louis, Missouri. Partitions shall be of the flush panel type and panels shall be 1$\frac{9}{16}$" thick. Partition trim shall not protrude more than ⅛" from finished panel surface.

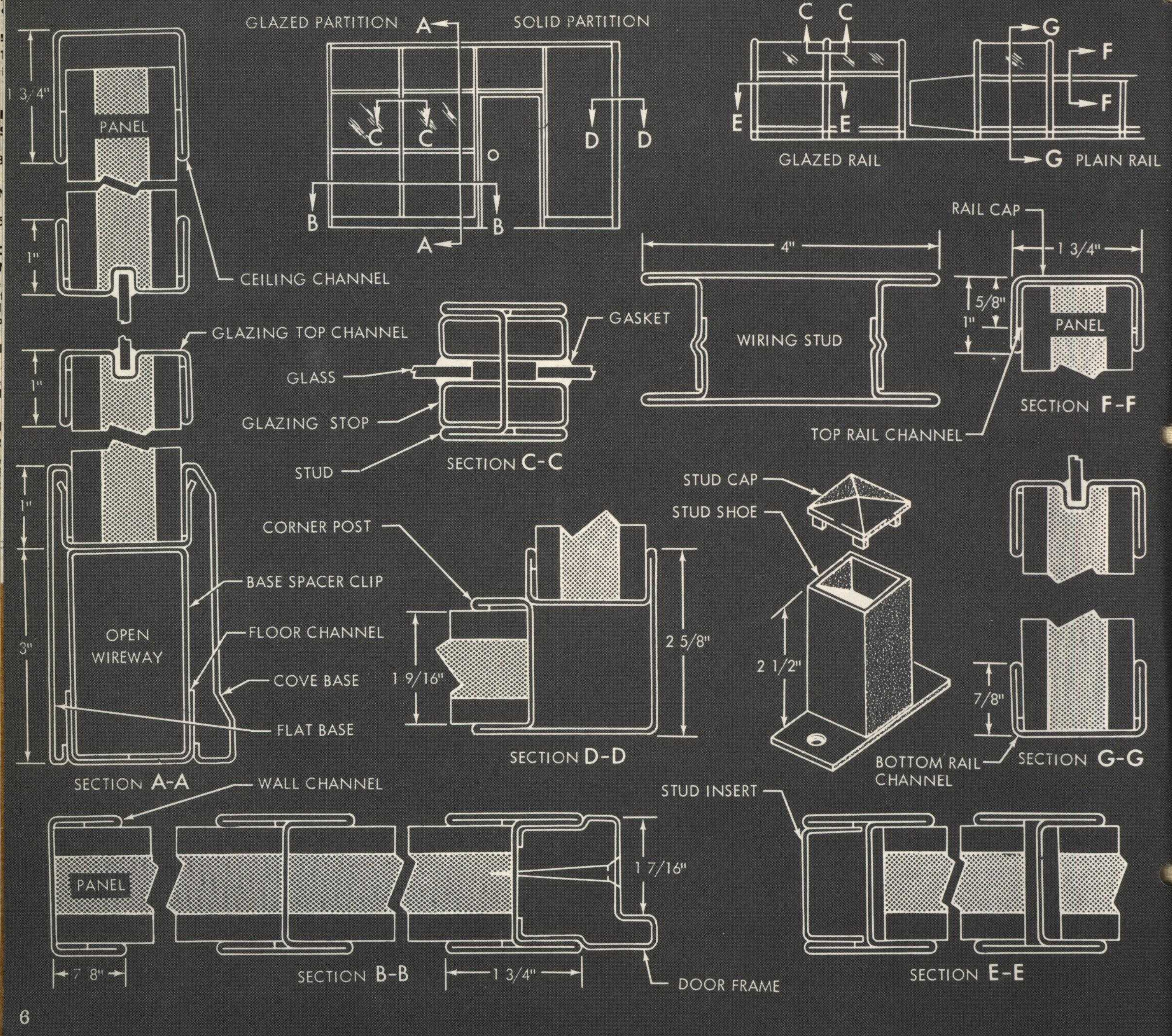
MATERIALS: All partition metal parts shall be minimum 20 gauge electrolytic zinc-coated steel. Studs, corner posts, and other framing members, shall be one piece roll-formed 18 gauge zinc-coated steel. Cove, flat, or louvered base shall be black baked enamel snap-on type with no exposed screws. Wiring studs shall be supplied where required.

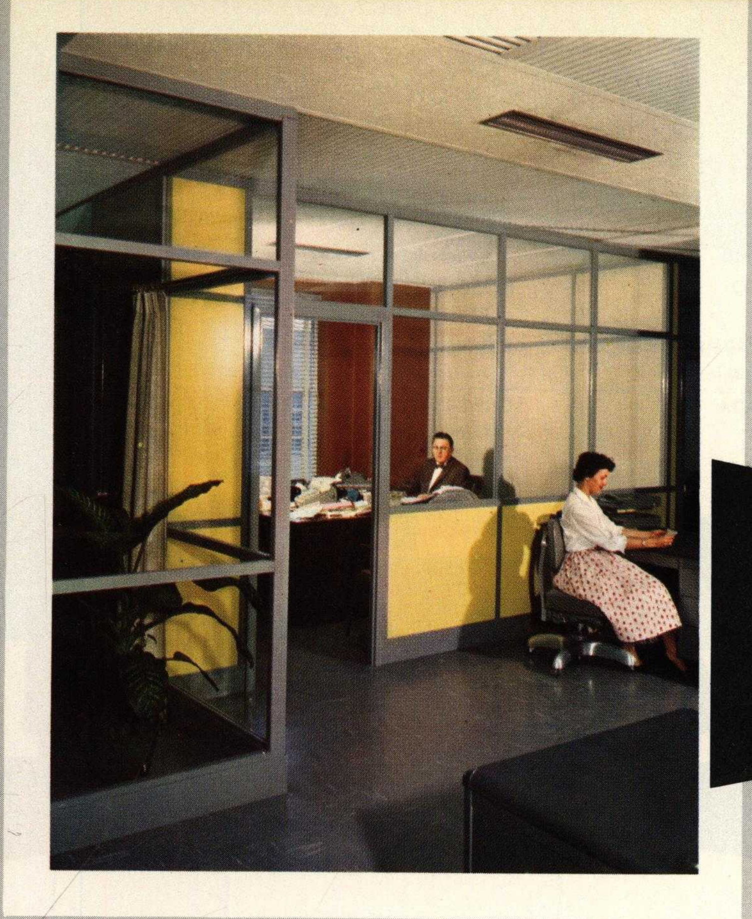
DOORS AND FRAMES: Frames for 1⅜" thick doors shall be 16 gauge zinc-coated steel, flush with partition trim, and have 1 pair 3½ x 3½ butts. Frames for 1¾" thick doors shall be zinc-coated steel, and have 1½ pair 4½ x 4½ butts. All frames shall be machined to receive hollow steel or wood doors as specified, and cylindrical hardware.

PANELS: Panels shall be (gypsum board, cement asbestos board, pre-finished hardboard, sound absorbing, etc.) and shall be in 4′ modules where practical. Independent laboratory tests shall be furnished to show sound transmission loss through partition under actual field conditions. Acoustical panels shall have skin of perforated hardboard having $\frac{3}{32}$" diameter holes on ¼" staggered centers. Core shall have gypsum board baffle and glass fibre pads giving an NRC of 60 or better.

GLAZING: Partitions and railing shall be glazed with ________ (type) glass cushioned with vinyl gasket. Glazing shall be of flush type, with no exposed screws. Mullions shall not be more than 1¾" wide.

FINISHING: Partitions shall (have factory applied high temperature baked enamel finish) or (be field painted with two coats paint as specified) or (have wood-grained finish on panels and metal trim).


GLAZED PARTITION
SOLID PARTITION
A
A
B
B
C
C
D
D
C
C
E
E
G
G
F
F
GLAZED RAIL
PLAIN RAIL
1 3/4"
PANEL
1"
CEILING CHANNEL
GLAZING TOP CHANNEL
1"
GLASS
GLAZING STOP
STUD
GASKET
SECTION C-C
4"
WIRING STUD
RAIL CAP
1 3/4"
5/8"
1"
PANEL
SECTION F-F
TOP RAIL CHANNEL
1"
3"
OPEN WIREWAY
CORNER POST
BASE SPACER CLIP
FLOOR CHANNEL
COVE BASE
FLAT BASE
1 9/16"
2 5/8"
SECTION D-D
STUD CAP
STUD SHOE
2 1/2"
7/8"
BOTTOM RAIL CHANNEL
SECTION G-G
SECTION A-A
WALL CHANNEL
STUD INSERT
PANEL
1 7/16"
7/8"
SECTION B-B
1 3/4"
DOOR FRAME
SECTION E-E



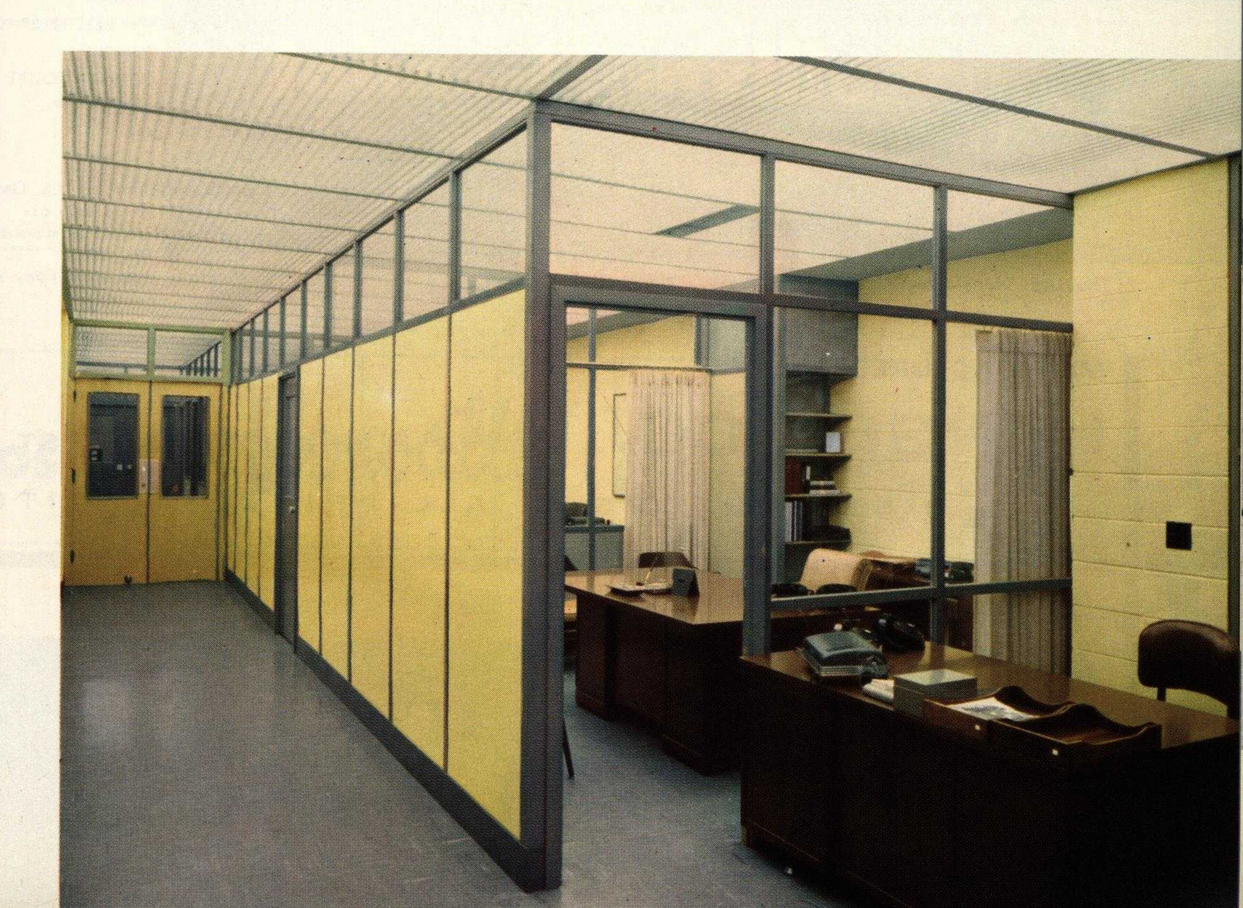
THESE ATTRACTIVE PRIVATE OFFICES ARE TYPICAL OF A

Movawall

PARTITION INSTALLATION

Pictured here and on the inside front cover are a few of the newly remodeled general offices at . . .

DANNEN MILLS
Saint Joseph, Missouri



CAROLINA POWER & LIGHT CO.
Goldsboro, North Carolina
DUKE UNIVERSITY
Durham, North Carolina
BENDIX AVIATION CORP.
Kansas City, Missouri
RICHARD GEBAUR AIR FORCE BASE
Grandview, Missouri
McDONNELL AIRCRAFT CO.
St. Louis, Missouri

MONSANTO CHEMICAL CO.
St. Louis, Missouri
CBS HYTRON
Boston, Massachusetts
HERCULES POWDER CO.
Bacchus, Utah
CIVIL AERONAUTICS ADMINISTRATION
San Leandro, California
UNIVERSITY OF NEVADA
Reno, Nevada

NESTLE CO.
San Francisco, California
DICTAPHONE CORP.
Concord, New Hampshire
HERTZ RENT-A-CAR
Phoenix, Arizona
PORTSMOUTH NAVY YARD
Portsmouth, New Hampshire
UNIVERSITY OF MAINE
Orono, Maine

some recent installations of......

Movawall

TRADE MARK

BAKALAR AIR FORCE BASE
Columbus, Indiana
CAPITOL TRAILWAYS
Harrisburg, Pennsylvania
DADE COUNTY SCHOOL BOARD
Miami, Florida
SOUTHERN BAPTIST
SUNDAY SCHOOL BOARD
Nashville, Tennessee
STATE AGENCY OFFICE BLDG.
Winter Park, Florida
FIRST NATIONAL BANK BLDG.
Orlando, Florida
LEE RUBBER & TIRE CORP.
Conshohocken, Pennsylvania
RYAN AIRCRAFT CO.
San Diego, California
UNITED GAS CORP.
Houston, Texas

BUTTERWORTH HOSPITAL
Grand Rapids, Michigan
VETERANS ADMINISTRATION
Birmingham, Alabama
REDSTONE ARSENAL
Huntsville, Alabama
PILLSBURY MILLS
Louisville, Kentucky
UNIVERSITY OF OKLAHOMA
Oklahoma City, Oklahoma
CARBORUMDUM CO.
Niagara Falls, New York
CHANCE VOUGHT AIRCRAFT
Dallas, Texas
JOHNSON & JOHNSON
North Brunswick, New Jersey
BOEING AIRCRAFT
Wichita, Kansas
ATOMIC ENERGY COMMISSION
Hartford, Connecticut

JOHNS HOPKINS HOSPITAL
Baltimore, Maryland
SANDIA HIGH SCHOOL
Albuquerque, New Mexico
SCHLITZ BREWING CO.
Tampa, Florida
PORCELAIN INSULATOR INC.
Lima, New York
INTERNATIONAL SHOE CO.
St. Louis, Missouri
SOUTHWESTERN BELL TELEPHONE CO.
St. Louis, Missouri
SAN DIEGO COUNTY COURT HOUSE
San Diego, California
IRON FIREMAN
Portland, Oregon

Also installations for U.S. Government Agencies in many areas such as:
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Veterans Administration, etc.

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HENGES CO., INC. **2814 LOCUST ST., ST. LOUIS 3, MO.**

DISTRIBUTORS IN ALL PRINCIPAL CITIES

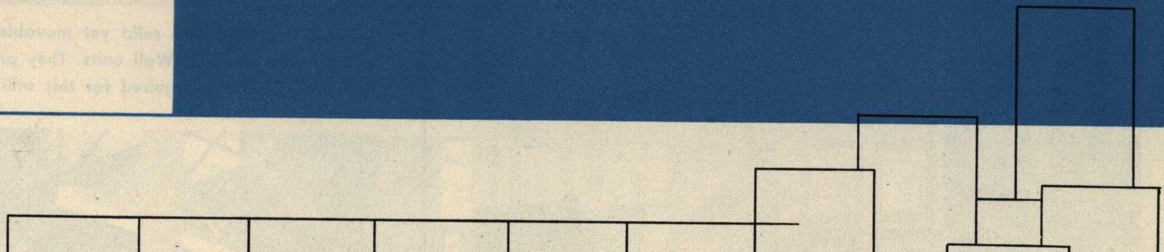
A.I.A. File No. 35-H-6

22a
Jo

JOHNS-MANVILLE
JM
PRODUCTS

Johns-Manville

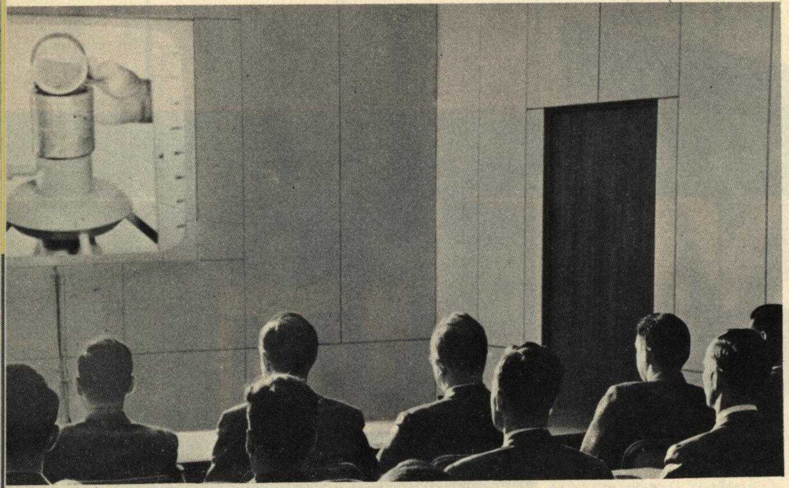
ASBESTOS *movable walls*



A.I.A. File No. 35-H-6

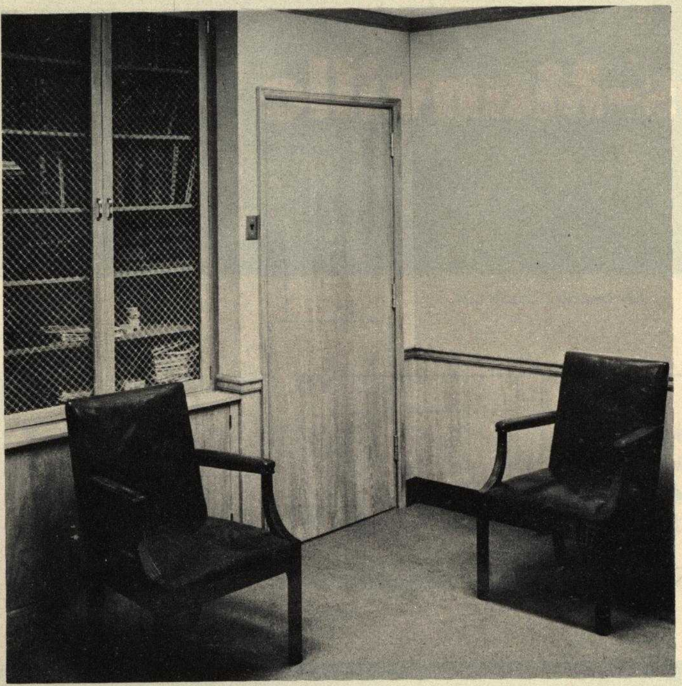
1960

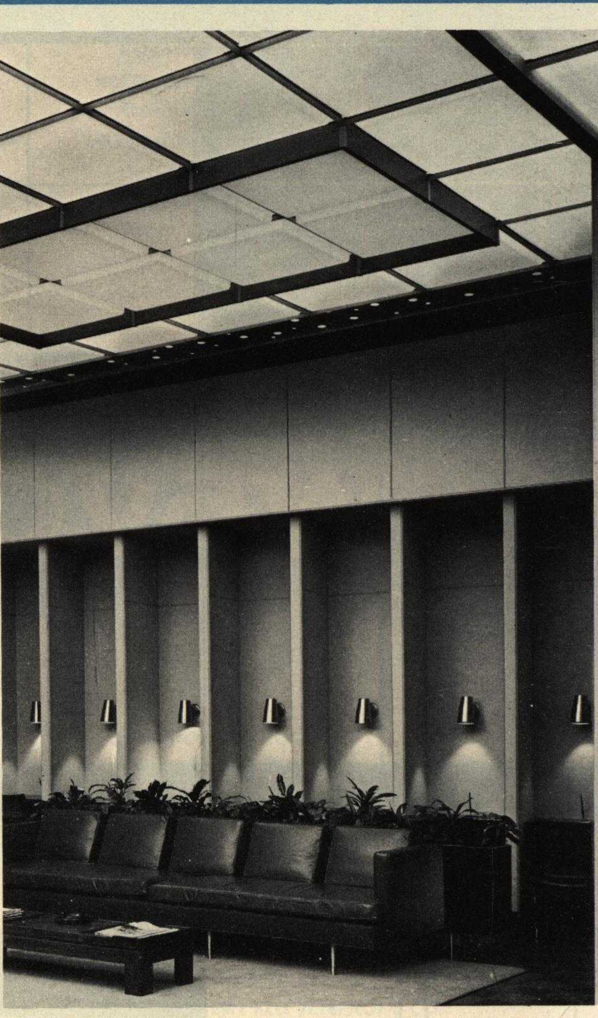
a JOHNS-MANVILLE JM PRODUCTS movable wall . . . .



Above—The picture screen is within the Imperial Movable Walls of this modern meeting room. Such installations can be accomplished economically using only standard elements.

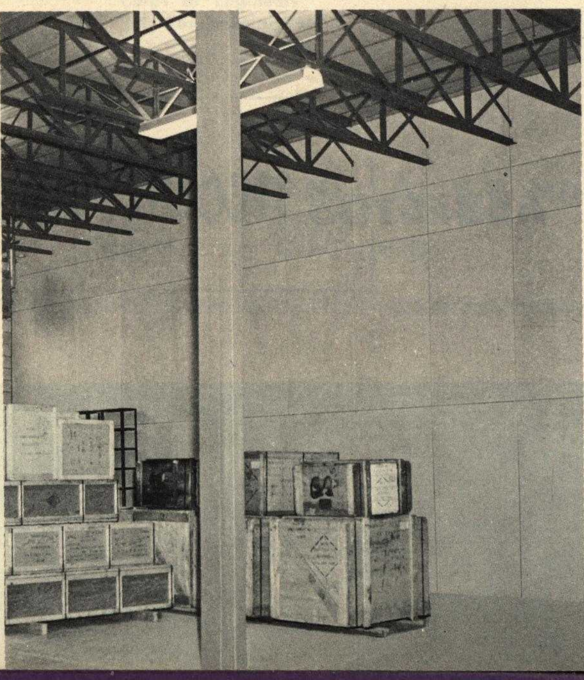
Below—Covering the panels with fabric and building in a handsome break-front type bookcase, gives the Johns-Manville movable walls of this executive office a traditional look.



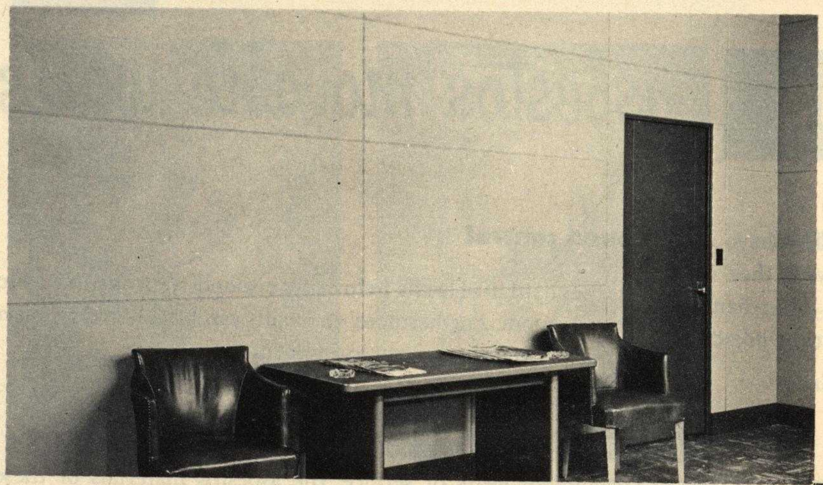


Above—Slender alcoves, glass areas to the floor and an exceptionally high ceiling are some of the features of this dignified and spacious interior built in rapid time with Imperial Movable Walls.

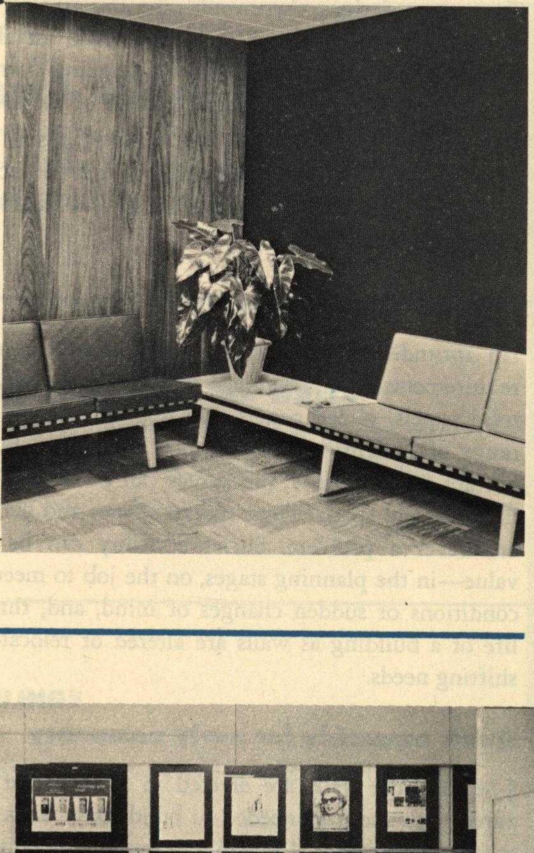
Below—This rigid and solid yet movable warehouse partition is built with Imperial Wall units. They provide the fire protection and durability required for this utilitarian installation.



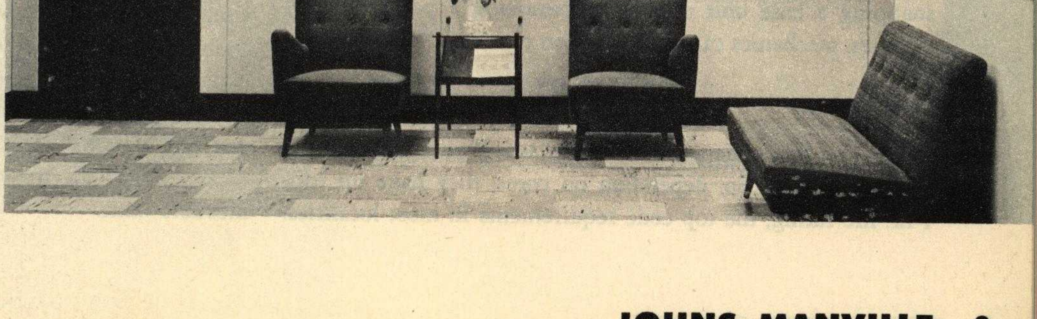
. . for any building requirement



Left—By the simple device of placing the panels horizontally, the architect gave this side of the Imperial partition a different appearance from the other side of the partition where the panels are used vertically. This is one inexpensive way of gaining variation among adjoining rooms. Below—Another possible way for varying room decoration is to use paint or veneers both of which were employed in this room partitioned with Class A Movable Walls. The right side was painted a deep but vivid hue. The intersecting side was given a thin veneer of exotic wood.



Left—In laboratories, industrial or scholastic, asbestos panels assure essential safety and resistance. The entire Imperial Wall assembly can be quickly altered to suit new piping, new equipment or new space arrangements.



Right—The long, floor-to-ceiling Imperial Wall in this lobby for an advertising agency serves as a display space where current work is placed between channels fastened to the wall. (Since this is a flush wall there is no interference for such attachments.) Also, at the right edge of the picture can be seen a section of Imperial Glazed Railing.

Johns-Manville asbestos movable walls

These J-M movable walls are flush surfaced. They have the permanence of fixed walls yet they can be moved; they can be used and re-used without loss. All parts are interchangeable. Any section can be altered without affecting adjacent sections.

Color and pattern unlimited

For custom designs, these walls offer the greatest scope. They can be veneered with wood, leather, cork, metal or plastics. They can be covered with fabrics ranging from burlap to damask. They can be painted any color in the spectrum.

For standard designs, the stock color is a soft green. It is factory applied in a stippled finish that is as decorative as it is durable. And, on order, this finish is available in a wide range of other colors.

Plan and layout versatility

An aptitude for out-of-the-ordinary as well as conventional requirements is an advantage of asbestos movable walls. The solid panels, glazed panels, and door panels are offered in a range of dimensions that fit most situations. But, most important for versatility, the panels can be worked with wood-like ease and speed. Thus, special shapes and odd dimensions are never a problem. Such versatility can be of constant value—in the planning stages, on the job to meet unexpected conditions or sudden changes of mind, and, throughout the life of a building as walls are altered or relocated to satisfy shifting needs.

Quick assembly for early occupancy

J-M Movable walls are erected in a matter of hours compared with the days needed to build fixed walls. This ability to finish fast makes it possible to move in tenants sooner and starts an earlier return on the owner's investment.

Utility accessibility

Wiring and similar lines are easily reached by simply unsnapping a base unit or quickly removing a panel. Within minutes, mechanics can start work on repairs or additions.

Fire safety

All of the Johns-Manville walls are faced with fireproof asbestos materials. So, depending on cores, they have up to a 1-hr. fire rating, the top code requirements in most localities.

Sound control

The standard J-M walls help reduce sound transmission from room to room. Furthermore, the walls can be tailored to meet practically any acoustical requirement.

Prolonged service assured

Throughout years of service, the asbestos materials of these J-M walls stay durable, hard and mar-resistant. Washing and cleaning does not rust them or start other deterioration. The walls can be moved again and again without damage and with 100% re-use value.

Movability minus confusion

Because movable walls are "dry" in construction no dampness or debris are involved. Normal routines can continue as walls are altered or moved. Also, many changes can be completed over night or during a weekend.

Handling and storage

The elements which make up these walls are compact so they can be moved into and out of cramped storage space easily. They can be handled in passenger elevators when a shift means moving from floor to floor. And, when in storage, the few parts involved take up minimum area.

Maintenance made easy

The finish furnished on J-M walls is a tough, hard film many times thicker than the usual partition finish. It is scratch resistant, rejects soil and, if damaged, can be touched up inexpensively to look like new. Maintenance is reduced to a new low.

Responsible installation

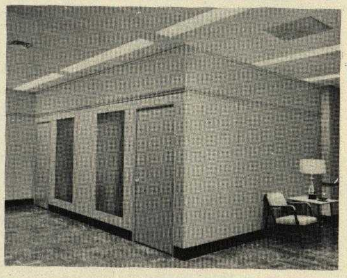
J-M asbestos movable walls are sold and installed only by Johns-Manville or J-M Approved Contractors thoroughly trained in proved methods of installation. The services of an experienced J-M engineering staff are available to help with specific problems. Whether the job is large or small, each wall installation receives the benefits of Johns-Manville's long experience in the manufacture, installation and servicing of movable walls.

index

IMPERIAL MOVABLE WALLS

The most versatile of movable walls. Asbestos panels attached to slotted steel studs produce wall facings, partitions or screens to suit unusual or standard plans.

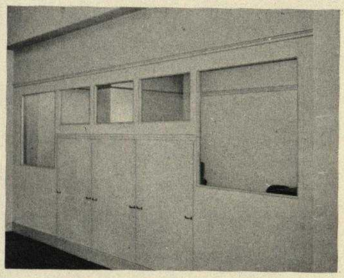
pages
6-17



CLASS A MOVABLE WALLS

A non-combustible core, asbestos faced on both sides forms interchangeable panels for free standing or floor-to-ceiling partitions.

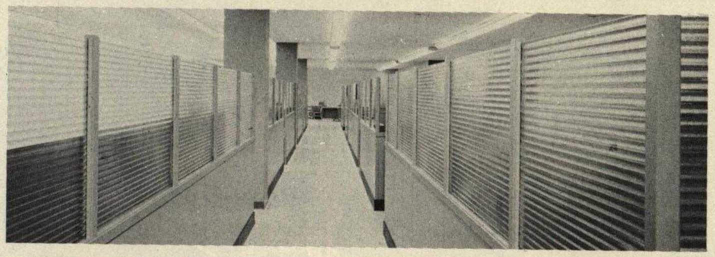
pages
18-21



UNIVERSAL MOVABLE WALLS

A wood core, asbestos faced on both sides forms interchangeable panels for free standing or floor-to-ceiling partitions.

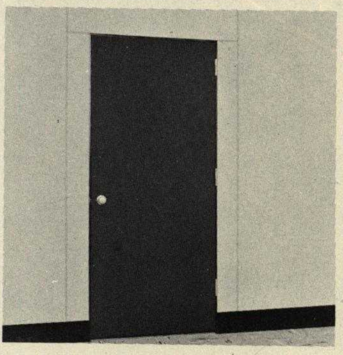
pages
22-25

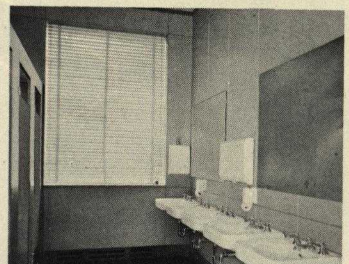


RAILINGS

Two types—Imperial or Universal—can be used with all three types of J-M movable walls.

pages
26-27





DOORS AND HARDWARE

Hollow steel or asbestos faced doors either solid or glazed.

TOILET COMPARTMENTS

Furnished with head rail or in suspended construction with necessary accessories.

page
28

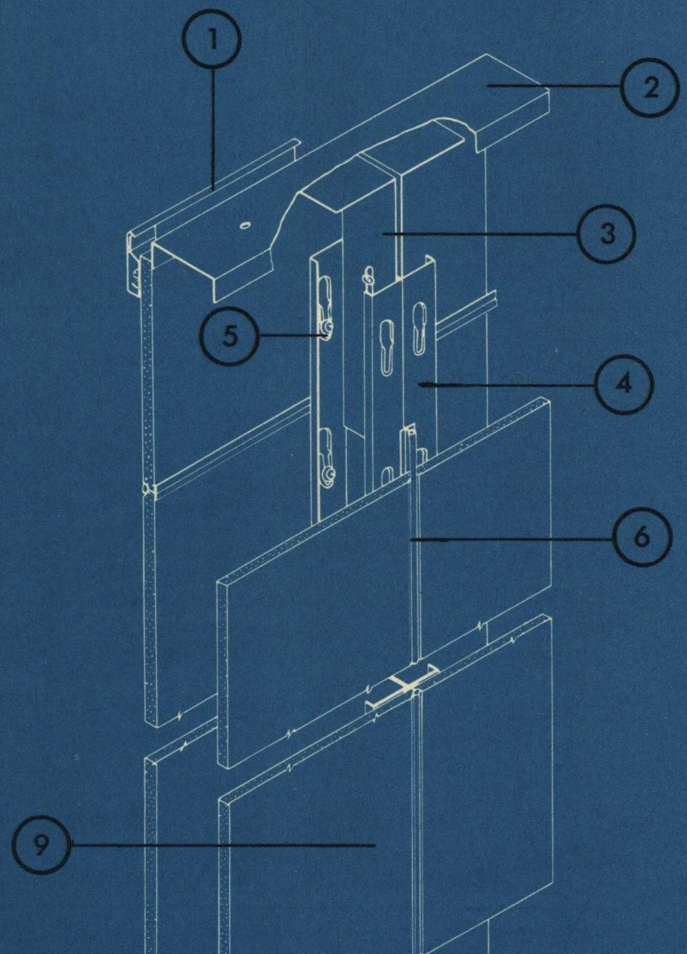
Johns-Manville

Imperial

The basic elements of Imperial Movable Walls are: asbestos panels in 2 types; steel studs with slots; and, a few simple auxiliary pieces. When combined, these elements produce interior walls and partitions that are flush-surfaced and can be finished to have ballroom elegance or can be strictly utilitarian. Imperial walls suit all standard interior plans or they can be adapted easily for one-of-a-kind designs. In all cases they are simple to assemble and can be dis-assembled and relocated within a few hours.

This office could be re-arranged tomorrow in surprisingly few hours, with little confusion and with complete re-use of materials.

IMPERIAL WALL ASSEMBLY



FEATURES

1—**Snap-on moulding**—Furnished in lengths of 10″, this is the standard top member although practically any type of moulding can be used.

2—**Ceiling channel**—Into these the studs are fitted. The channels are furnished in lengths of 10′ and are mechanically fastened to the ceiling.

3—**Stud extensions**—These are short steel units which are inserted in the end of studs to take up any variation in ceiling height.

4—**Studs**—Steel studs have "slots" to receive the "buttons" on the back of the asbestos panels. Stud lengths are in multiples of 6″; the web is 3″; the flanges measure 2½″ with a ⅜″ return.

5—**Buttons**—These patented spring fasteners on the back of the asbestos panels are spaced 18″ on center. The buttons drop into the slots in the studs. As the panel is forced downward, the buttons tighten on the slot edges and the spring holds the panel firmly against the stud. The buttons will take a direct pull of more than 200 lbs.

6—**Joint beads**—These metal beads are fitted between the panels as installation progresses. The flanges of the bead slip between the stud and the edges of the panels. The standard bead is flush with panel surfaces and of a matching color. Beads can be of a contrasting color or of a special design.

7—**Floor channel**—The bottom of the studs fit into these channels which are mechanically fastened to the floor. Channels come in 10′ lengths.

8—**Finish base**—The standard base is 6″ high. Clips along the back of the base panels fasten them securely to the studs. The base is easily removed for access to wiring or other service lines.

9—**Panels**—Johns-Manville offers two types. Both are 7/16″ thick. The panels are beveled on all four face edges unless otherwise specified. They can be supplied in any size up to 4′ wide by 10′ long. However, the 2′ or 4′ widths and the 8′ length are the most generally used.

Marinite panels—Made of asbestos fiber, diatomaceous silica and an inorganic binder, these panels are light in weight yet structurally strong and fireproof. The stock color is light green in a stippled finish. Other colors in the same finish available on order. Unfinished Marinite panels are available for special decoration such as wood veneers, enamel finishes, fabric coverings or wall papering.

Transite panels—Made of asbestos and cement, these fireproof panels are strong, rugged and especially suited for heavy duty installation. The natural color is a light stone gray. No preservative treatment is required although the panels may be painted or otherwise decorated.

Window panels—For borrowed light or visual control, many plans call for glazed units. So, light frames made of hollow steel are stocked by Johns-Manville. The standard height is 42″; standard widths are 20″, 32″ and 44″ for use with 2′, 3′ and 4′ panels. But, the designer is not limited to those sizes since Imperial Walls can be detailed for small window panes or large floor to ceiling glass areas.

Panel erection can be varied—They can be installed either horizontally or vertically. Panels on one side of the wall can be different from the panels on the other side both as to finish and scheme of erection.

Ends, tees, ells and furring—For these locations "channel studs" are used. Lengths are in multiples of 6″; the web is 3″; flanges are 1¼″ with ⅜″ return at the edges. Also, "angle studs" are available. Lengths are in multiples of 6″; both flanges measure 1¼″ but only one flange is slotted. These are used with flat steel plates to make up special shapes to meet unusual job conditions.

Wall heights—Imperial Walls can be built to heights of 20′, 30′, 40′ and even higher if necessary.

Wall thickness and weight—The overall thickness of an Imperial partition is 3⅞″ and the weight is approximately 7 lbs per sq ft.

Doors and hardware—see pages 28-29.

Railings—see pages 26-27.

Bookcases, closets and other special requirements—Bookcases, closets, alcoves, wickets and similar requirements can be built using regular Imperial Wall elements and any fixtures can be screwed into the asbestos panels. Details are drawn up the same as they would be for any builder material.

Suggestions on assembly—Studs are usually spaced on 24″ centers and panels in the 4′ width have "buttons" down the center of the panels. For free standing partitions, when the run exceeds 16′ to 20′ a floor to ceiling brace is required.

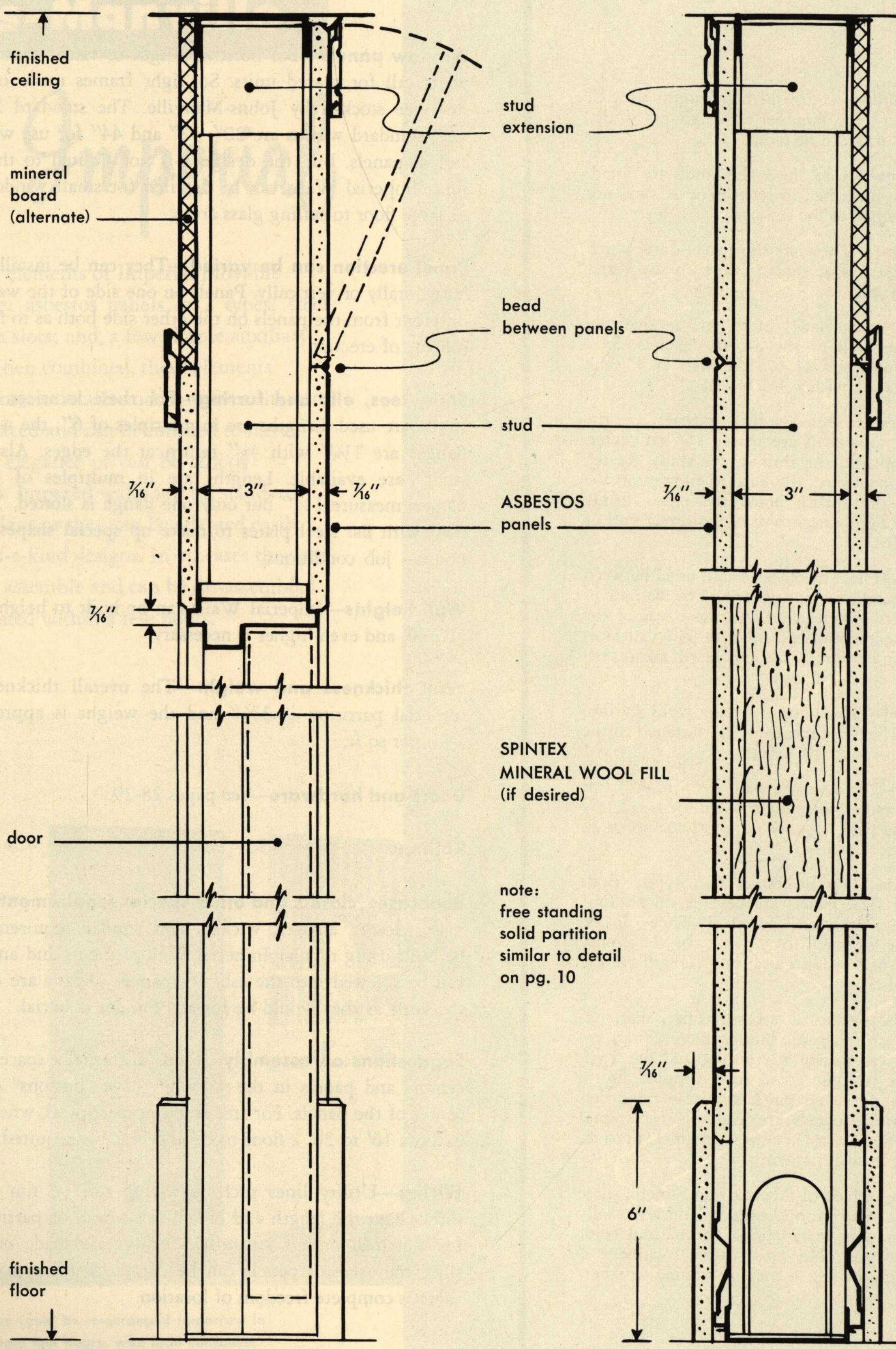
Wiring—Utility lines such as wiring can be run anywhere throughout the length and breadth of a wall or partition. Cuts for electrical outlets and other fittings are made on the job since the asbestos panels can be cut as easily as wood. Thus, there is complete freedom of location.

JOHNS-MANVILLE JM PRODUCTS

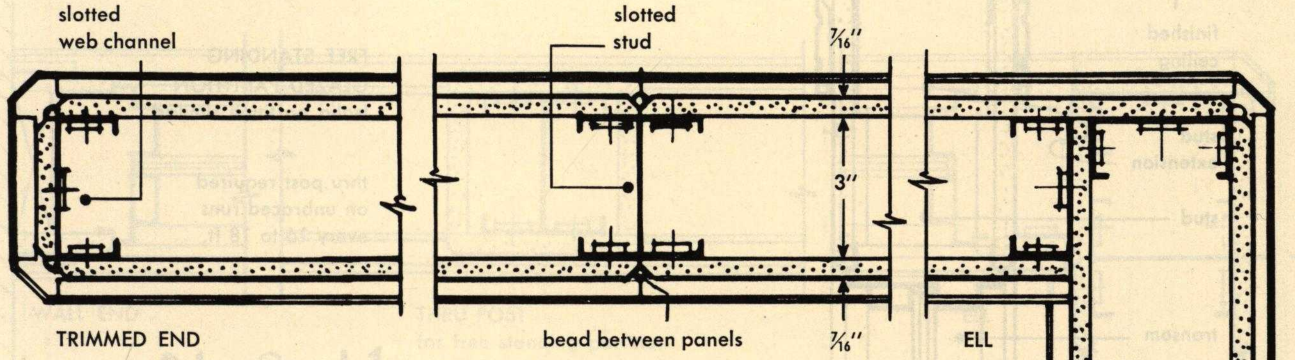
Imperial

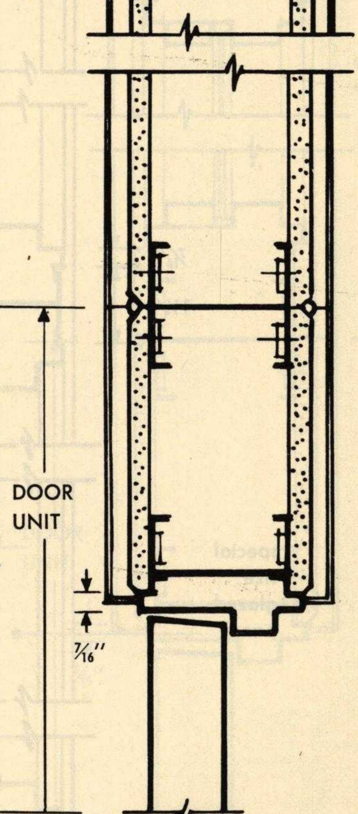
FLUSH PARTITIONS | scale: ¼ size

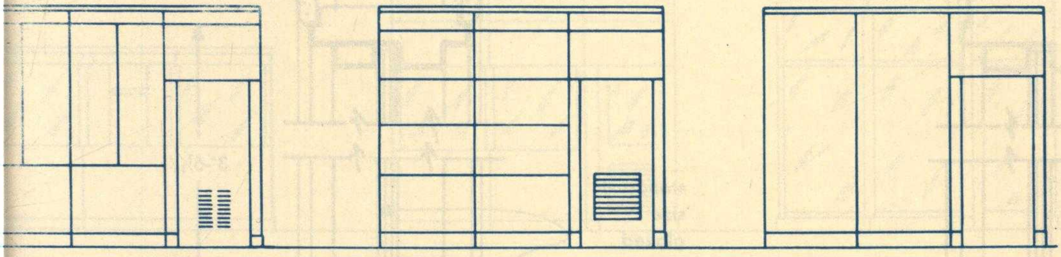
vertical sections


finished ceiling
mineral board (alternate)
stud extension
bead between panels
stud
7/16″
3″
7/16″
ASBESTOS panels
7/16″
door
finished floor
SPINTEX MINERAL WOOL FILL (if desired)
note: free standing solid partition similar to detail on pg. 10
7/16″
3″
7/16″
7/16″
6″

horizontal sections

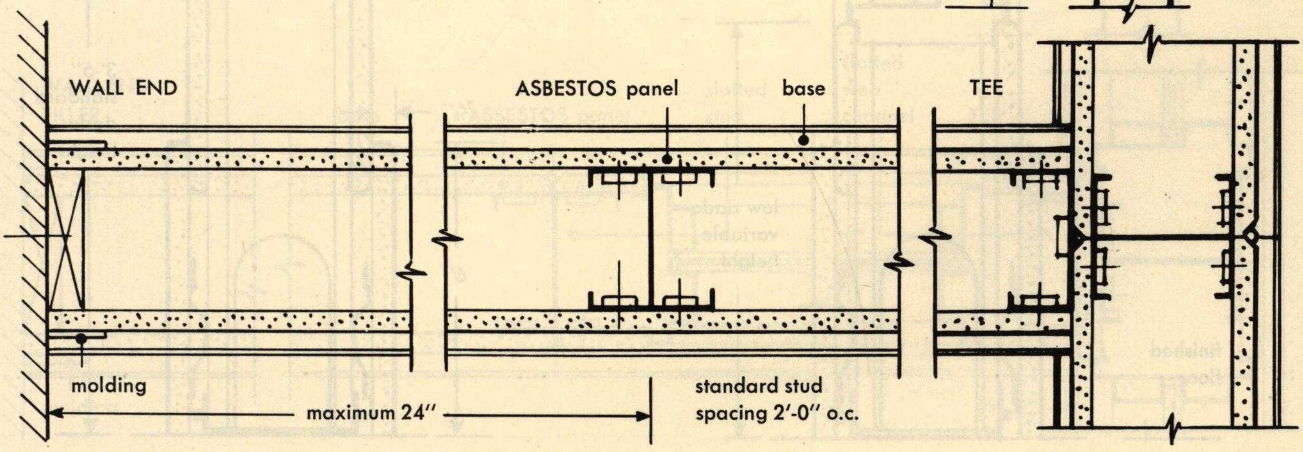

slotted
web channel
slotted
stud
7/16"
3"
7/16"
TRIMMED END
bead between panels
ELL


DOOR
UNIT
7/16"



ELEVATIONS—USING SOLID PANELS

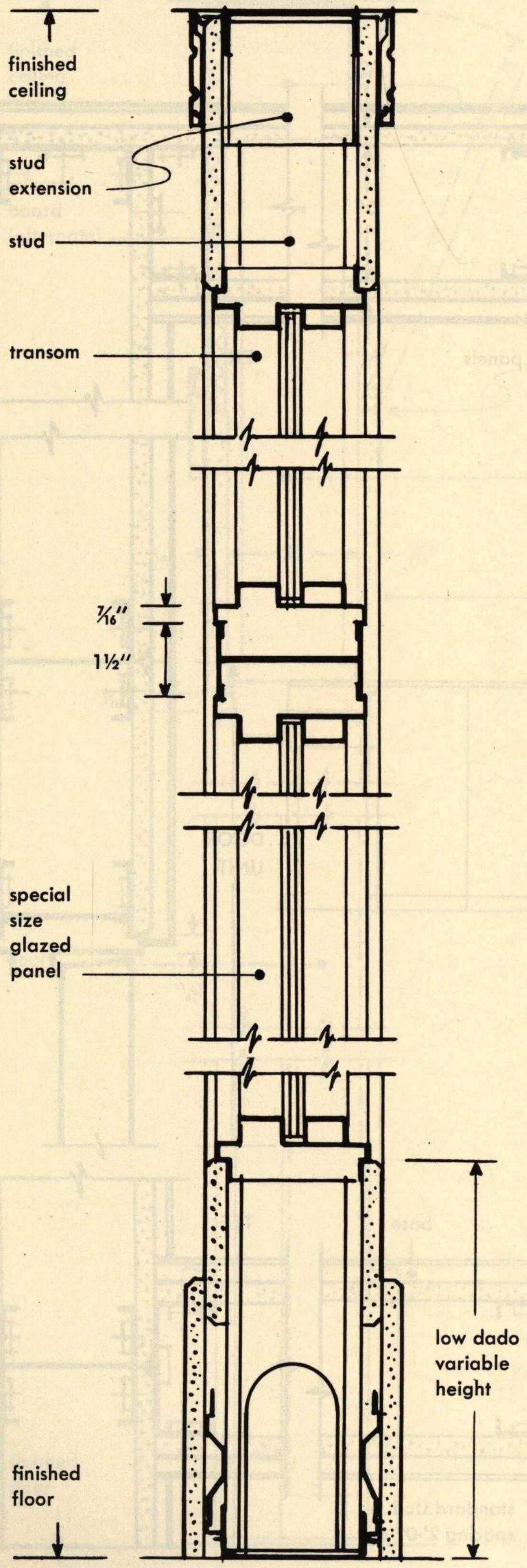
Note: For stock panel widths (solid or glazed) see page 7


WALL END
ASBESTOS panel
base
TEE
molding
maximum 24"
standard stud
spacing 2'-0" o.c.

JOHNS-MANVILLE JM PRODUCTS

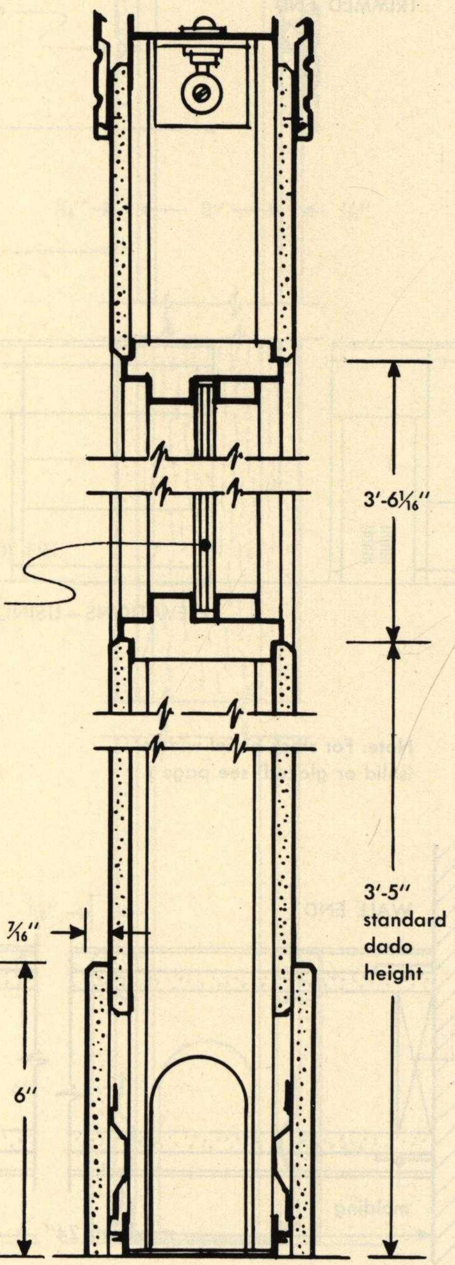
Imperial
GLAZED PARTITIONS | scale: ¼ size

vertical sections

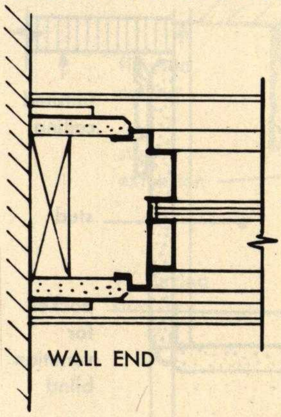

finished ceiling
stud extension
stud
transom
7/16″
1½″
special size glazed panel
low dado variable height
finished floor

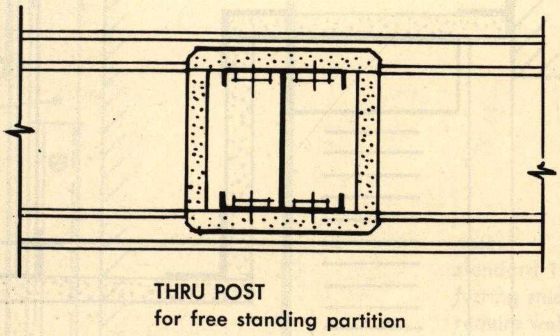
FREE STANDING GLAZED PARTITION
(solid partition similar)

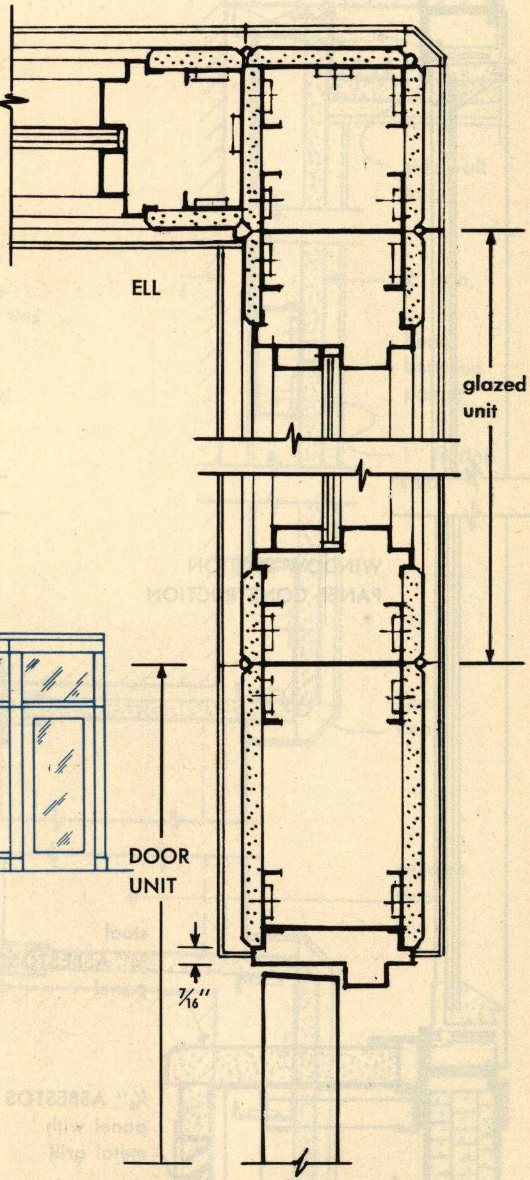
thru post required on unbraced runs every 16 to 18 ft.

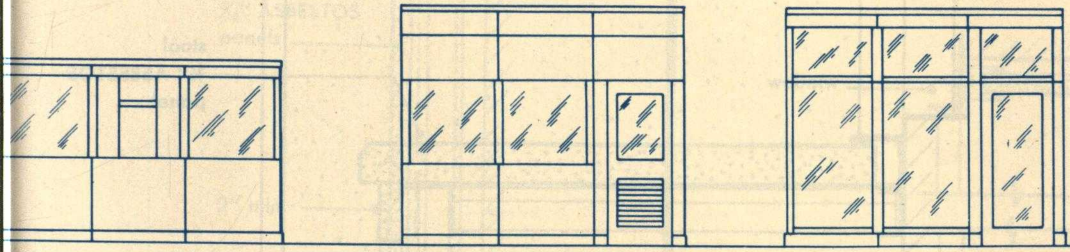

standard size glazed panel
3′-6 1/16″
3′-5″ standard dado height
7/16″
6″

horizontal sections



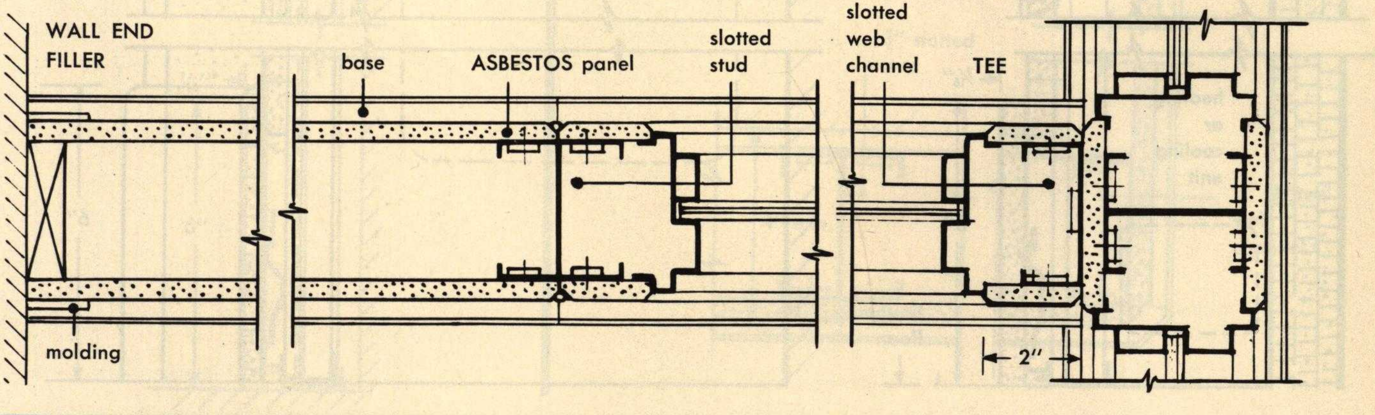

THRU POST
for free standing partition


ELL
glazed
unit
DOOR
UNIT
7/16″



ELEVATIONS—USING GLAZED PANELS

Note: For stock panel widths (glazed or solid) see page 7

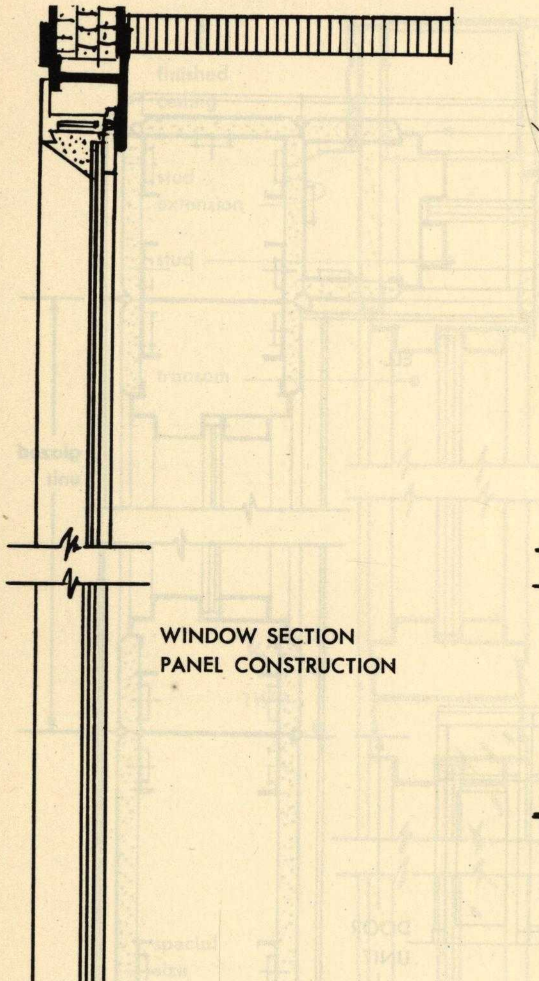

WALL END
FILLER
base
ASBESTOS panel
slotted
stud
slotted
web
channel
TEE
molding
2″

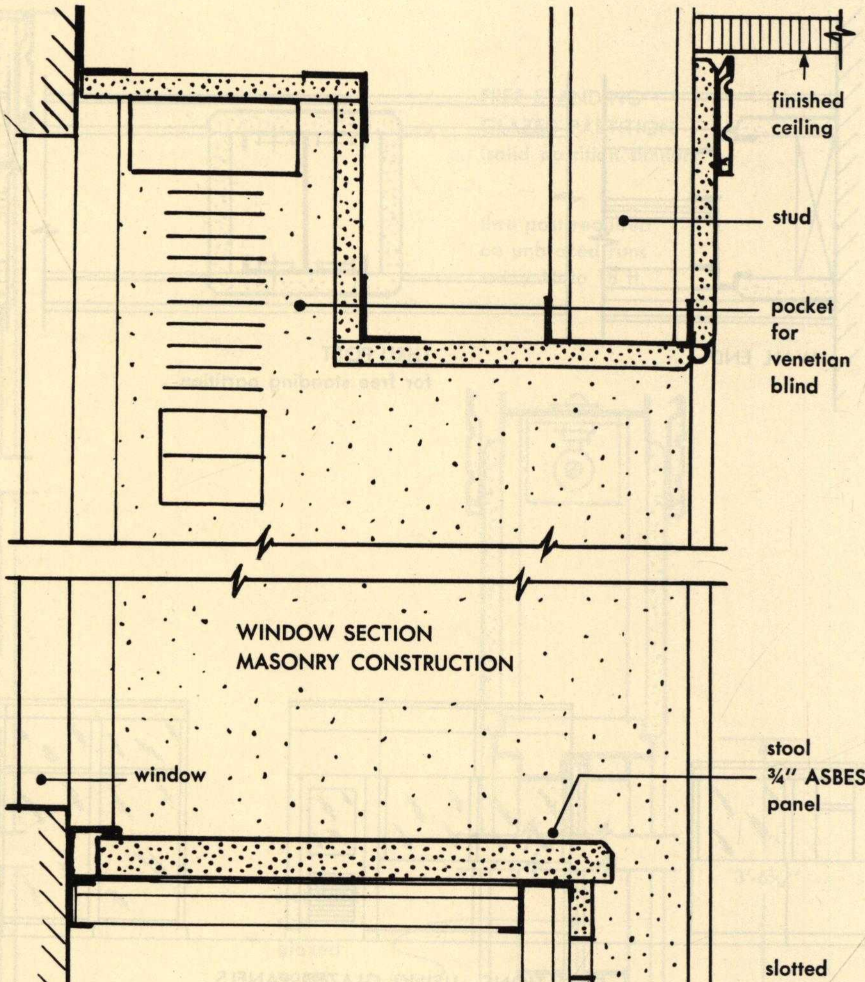
JOHNS-MANVILLE JM PRODUCTS

Imperial

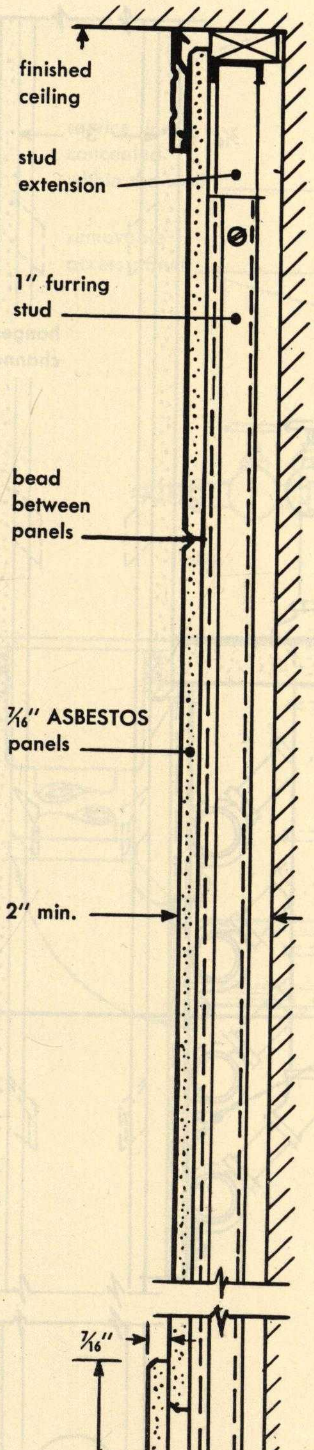
WALL FACINGS | scale: ¼ size

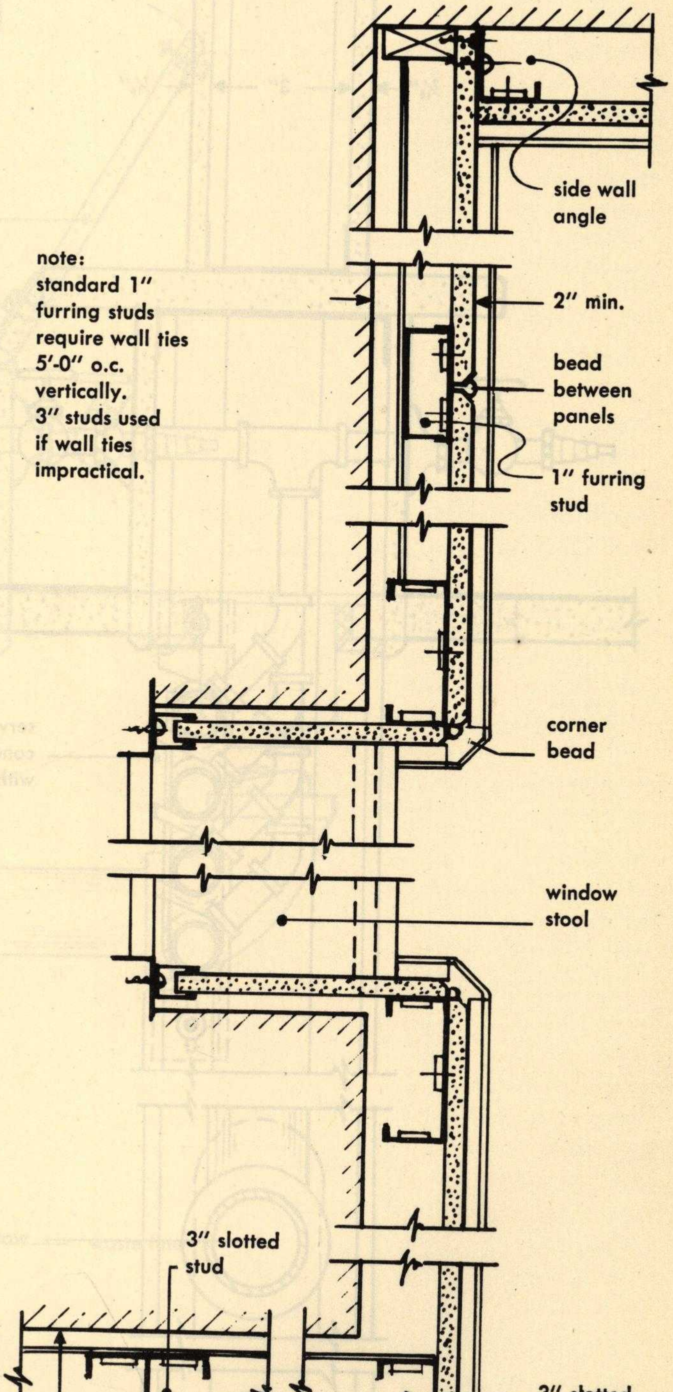
vertical sections


WINDOW SECTION
PANEL CONSTRUCTION
stool
¾" ASBESTOS
panel
7/16" ASBESTOS
panel with
metal grill
heating
or
cooling
unit
7/16"
6"
finished
floor


finished
ceiling
stud
pocket
for
venetian
blind
WINDOW SECTION
MASONRY CONSTRUCTION
window
stool
¾" ASBESTOS
panel
slotted
7/16" ASBESTOS
panel
heating or
cooling unit
6"

horizontal sections

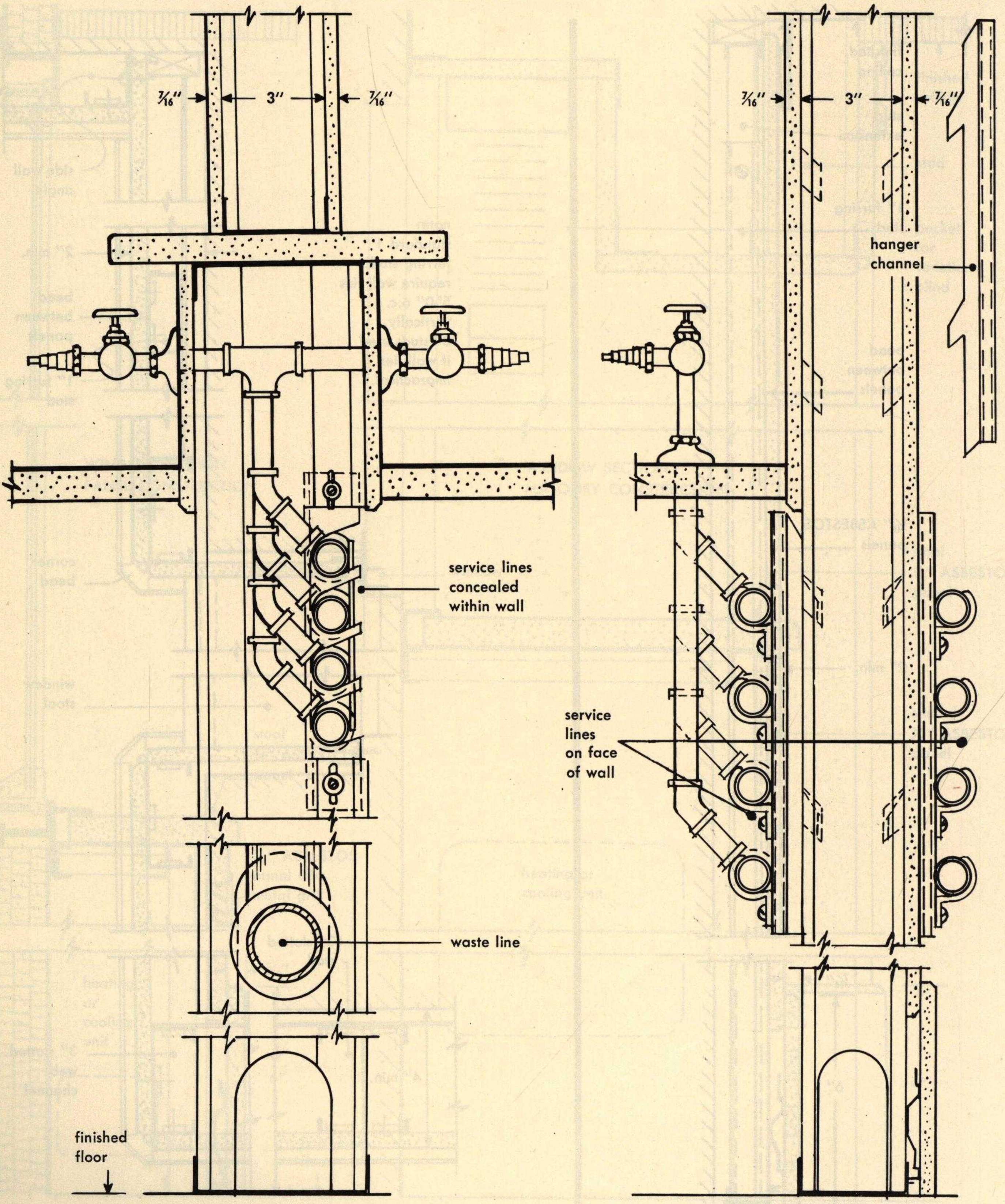

finished ceiling
stud extension
1" furring stud
bead between panels
7/16" ASBESTOS panels
2" min.
7/16"
6"

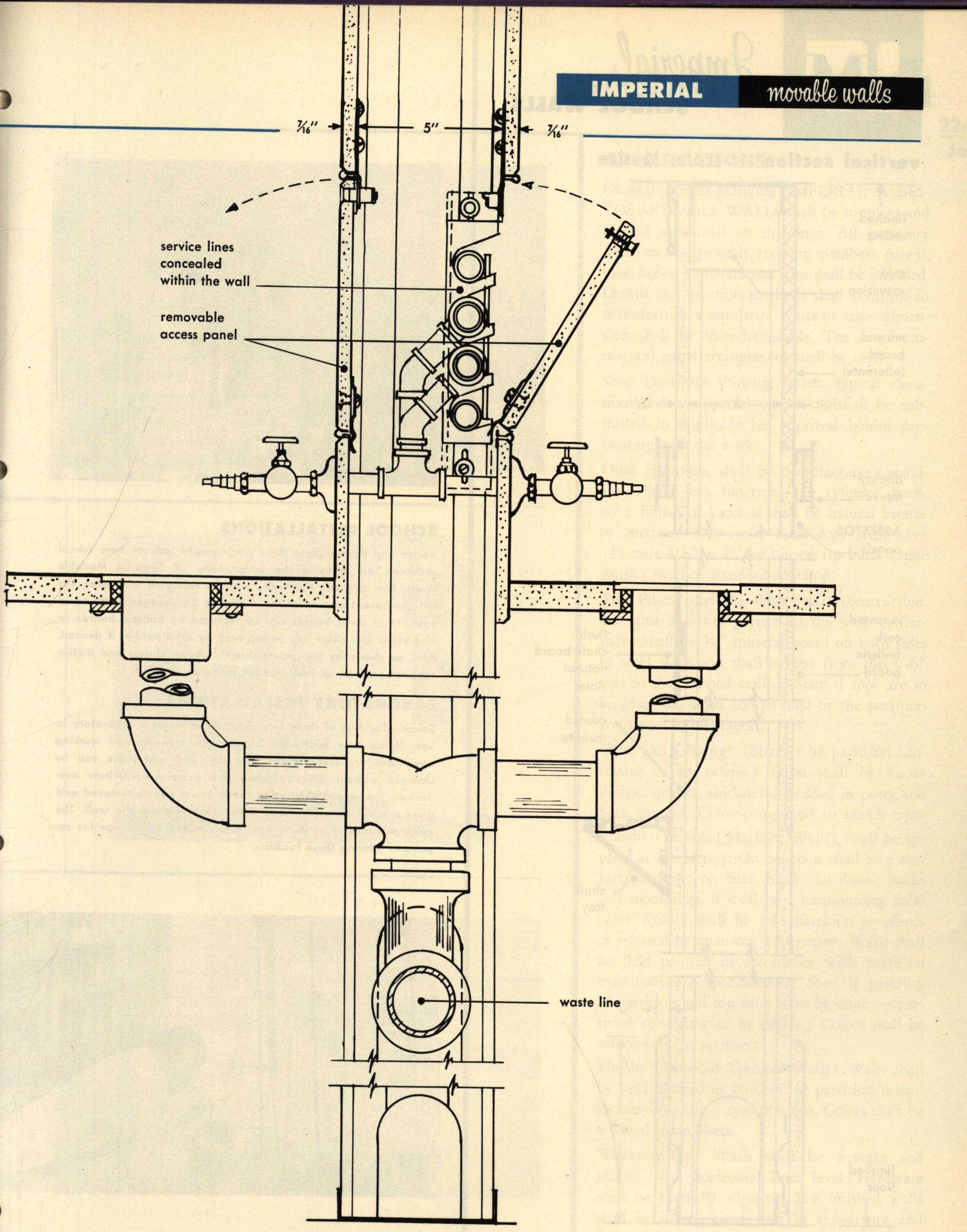

note:
standard 1" furring studs require wall ties 5'-0" o.c. vertically.
3" studs used if wall ties impractical.

side wall angle
2" min.
bead between panels
1" furring stud
corner bead
window stool
3" slotted stud
4" min.
3" slotted web channel

LABORATORY WALLS scale: ¼ size

vertical sections

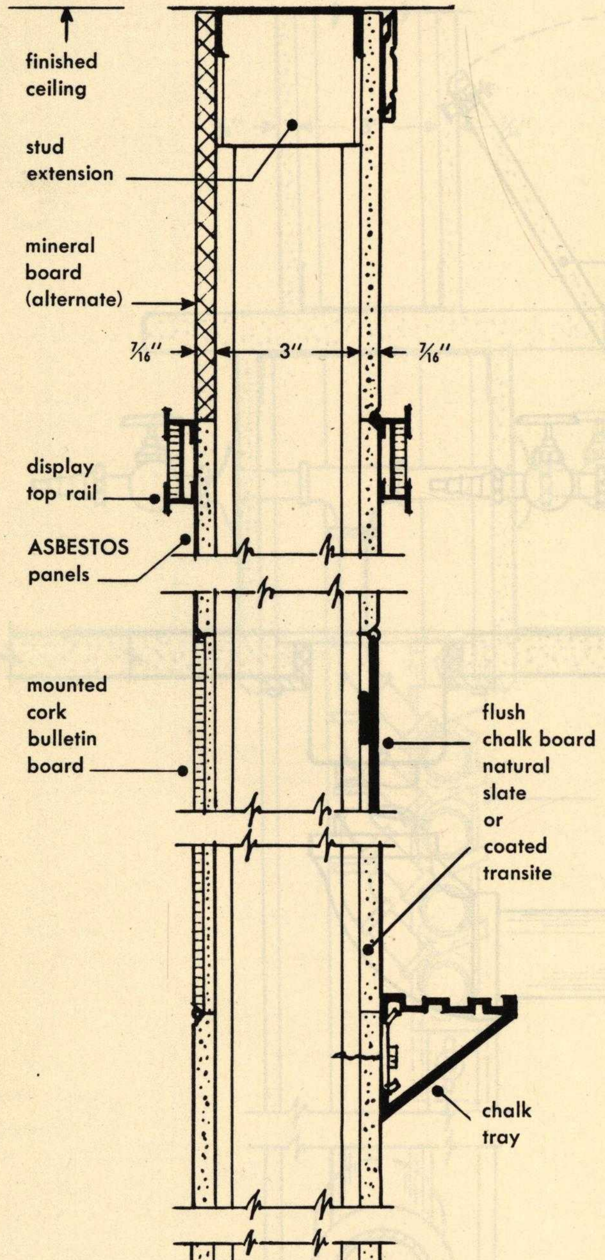

7⁄16″
3″
7⁄16″
service lines concealed within wall
waste line
finished floor
7⁄16″
3″
7⁄16″
hanger channel
service lines on face of wall

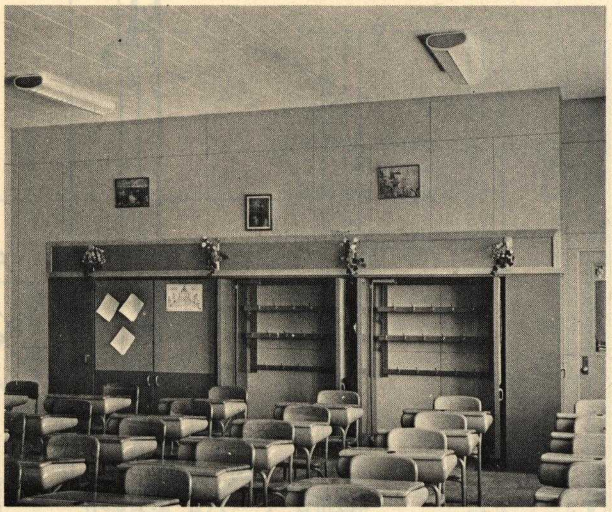

7⁄16″
5″
7⁄16″
service lines concealed within the wall
removable access panel
waste line

JOHNS-MANVILLE JM PRODUCTS

Imperial SCHOOL WALLS

vertical section scale: ¼ size


finished ceiling
stud extension
mineral board (alternate)
7/16″
3″
7/16″
display top rail
ASBESTOS panels
mounted cork bulletin board
flush chalk board natural slate or coated transite
chalk tray
7/16″
6″
finished floor

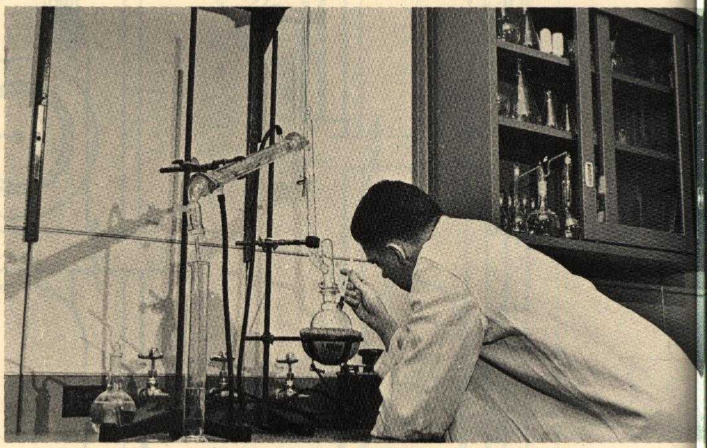


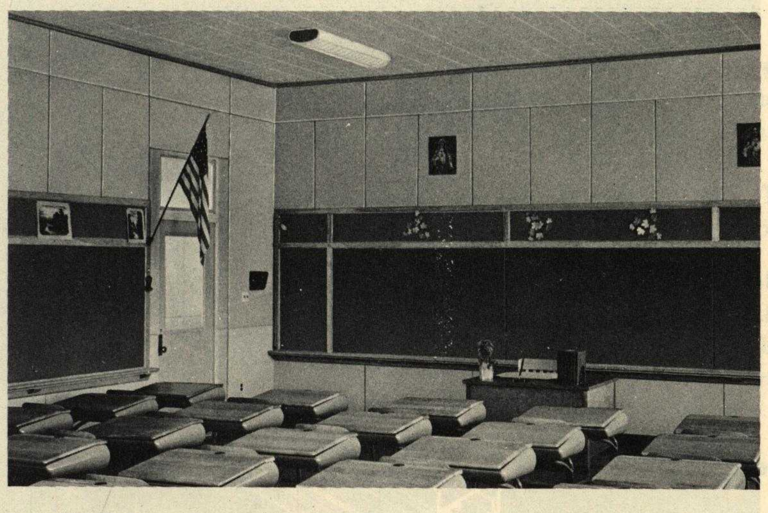
SCHOOL INSTALLATIONS

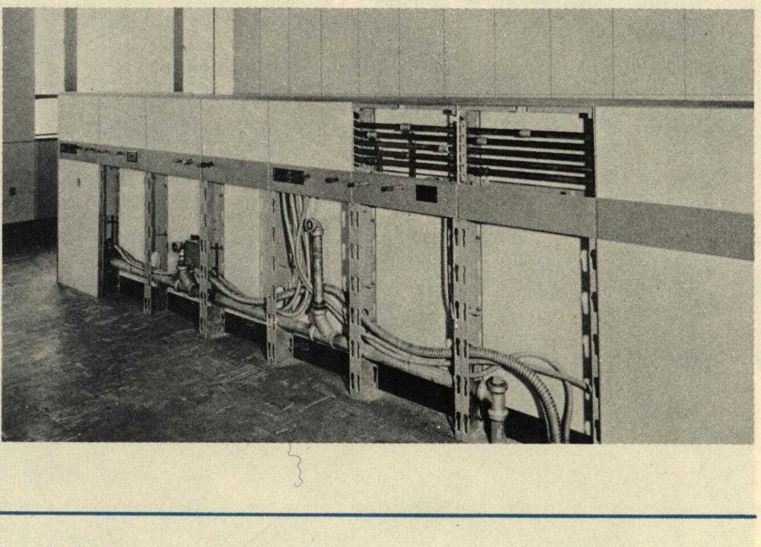
Above and Right—These three photographs indicate how school architects are utilizing the adaptability of Imperial Movable Walls. Not only can the entire wall be relocated with ease but the component panels of the wall can be changed with equal ease. Thus, chalk boards can be replaced by bulletin boards or vice versa and either can be replaced by solid panels, if desired. Also, as shown by the picture directly above, closets and similar requirements can be built into the movable partition.

LABORATORY INSTALLATIONS

Below—The first of these two illustrations shows a laboratory in use. Notice how neatly the hangers for cabinets and working equipment are incorporated into the wall and these can be changed without difficulty when new projects necessitate new devices. The second illustration shows lower panels removed and gives a good view of service lines running within the wall. The quick accessibility of these lines is a decided advantage for repairs or altering these facilities.







SPECIFICATIONS

General: Johns-Manville IMPERIAL ASBESTOS MOVABLE WALLS shall be supplied and erected as shown on drawings. All necessary items such as grounds, framing members, panels, base, doors, hardware and trim shall be included. Details and erection methods shall conform to manufacturer's standards. Units of same dimension shall be interchangeable. The most economical panel arrangement shall be used.

Shop Drawings showing layout, typical elevations and any special conditions shall be submitted in duplicate for approval before proceeding with the work.

Door Hardware shall be manufacturer's standard. (State lock function—i.e., cylinder, latch, etc.) Finish of locksets shall be natural bronze or anodized aluminum. Each door shall have 1½ pair 4½" x 4" flat button tip butts (state finish) and one standard doorstop.

Top Fillers shall be flush panel construction, the same as lower portion of the wall. (Alternate: Shall be ⅜" mineral board on both sides of steel studs and shall extend from the 7'-6" line to the finished ceiling. State if tops are to be spackled, taped and painted by the partition contractor or by others.)

Glass and Glazing: (State if by partition contractor or by others.) Glass shall be (state design, quality, thickness) bedded in putty and back puttied. Color compound to match trim.

Finish: (Imperial Marinite Walls) Shall be applied at the factory. On panels it shall be a textured stipple; on base, black; on doors, bucks and mouldings, it shall be a harmonizing solid color. Colors shall be J-M partition standards as selected by architect. (Alternate: Walls shall be field painted in accordance with partition manufacturer's specifications. State if painting of partition and top filler is to be done by partition contractor or by others.) Colors shall be selected by the architect.

Finish: (Imperial Transite Walls) Walls shall be field painted as outlined in partition manufacturer's painting specifications. Colors shall be selected by architect.

Workmanship: Walls shall be straight and plumb, with horizontal lines level. Hardware shall be carefully adjusted. The finished walls shall be strong, rigid, neat in appearance and free from defects.

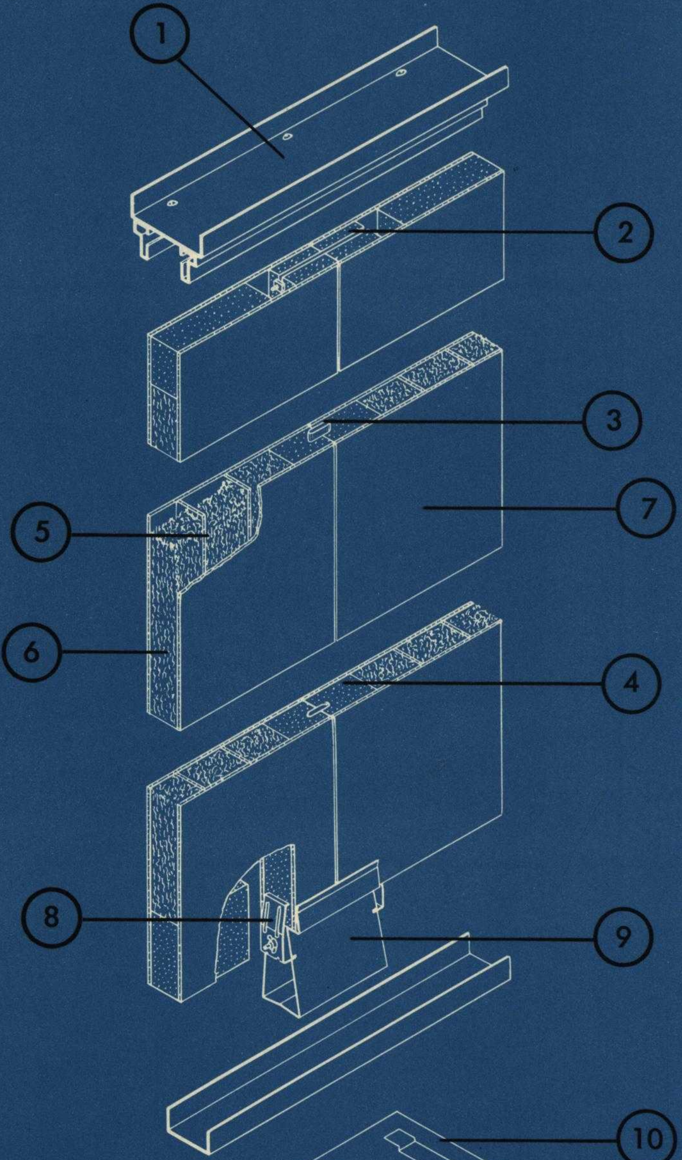
Johns-Manville

Class A

These are moderately priced walls. They are made up of factory-fabricated panels which are erected independently and are completely interchangeable with panels of the same dimension. All of the materials that go into the panels are non-combustible. The overall panel thickness is 1¾″ and the weight is approximately 5 lbs per sq ft.

In this building, Class A Movable Wall panels are combined with filler panels of glass to create a spacious but permanent interior.

CLASS A WALL ASSEMBLY



FEATURES

1—Top stiffening rail—This cornice assembly slips down over each side of the panel providing a trim finish for a free standing partition. However, if desired, the open space from cornice to ceiling can be filled with a section of Class "A" panel, with an asbestos board filler or with glass.

2—Top locking of panels—The panel tops are locked together by carriage bolts. These slip into slots in the top corners of the panels.

3—Splines—The panels are aligned and held together by metal splines 5/16" thick by ¾" wide. These fit into grooves rabbeted into the stiles on each side of a panel.

4—Rails and stiles—These are made of Marinite, a structurally strong but light weight asbestos material developed by Johns-Manville. This fireproof framework is 1½" thick by 2" wide.

5—Reinforcing strips—These are of Asbestos Flexboard, a fireproof asbestos-cement material. The strips are ⅛" thick and run parallel to the long dimension of the panels. The strips are spaced approximately 4" on center.

6—Insulating core—The areas between reinforcing strips are packed solidly with Spintex Insulation, a dense mineral wool material.

7—Facings—On both sides are sheets of Asbestos Flexboard, ⅛" thick. The sheets are beveled along the edges to provide a neat but inconspicuous "V" joint between panels.

Bonding together of elements—Stiles, rails, reinforcing strips, insulating core and asbestos facings are all bonded together under pressure by a moisture resistant adhesive. This results in panels which are strong and rigid yet light in weight.

8—Bottom locking of panels—Through slots at the bottom corners, similar to those at the top, the panels are locked together by clamps and carriage bolts.

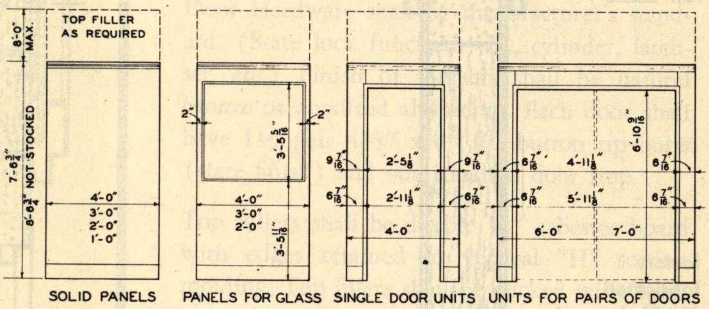
9—Floor supports—A metal support holds the panels 4" off the floor and the spring action of the support secures the panels firmly. The supports fit into a metal channel which is mechanically fastened to the floor.

10—Finish base—An asbestos-cement "clip-on" base 6" high covers the floor channel, metal support and panel bottom.

Factory-applied finish—This is a stippled paint finish that provides a durable film many times thicker than the usual partition finish. It is scratch resistant, rejects stain and soil, can be washed or scrubbed and, if damaged, can be touched up to look like new. The stock color is a soft green. However, a wide range of other colors are available on order.

Field-applied finishes—Class "A" panels also are available in the natural light gray of asbestos-cement materials. These panels can be painted or veneered in any number of ways to meet any architectural requirement.

Panel types and sizes—(others available on order)



Ends, tees and ells—At wall ends and at tees, the panels fit into vertical metal channels. At ells, the panels forming the corner are covered by snap-on metal moldings.

Thru posts—For long wall runs, a floor to ceiling thru post or stiffener should be used every 16′ to 20′.

Top fillers—The space between the top stiffening rail and the ceiling can be filled with glass, with a section of Class "A" panel (pre-fabricated or cut on the job) or with asbestos-cement board.

Wiring—Electrical lines and similar utilities can be strung horizontally behind the removable base. Vertical wireways are provided in the door panels adjacent to each jamb.

Cutting and working on the job—Class "A" panels can be sawed, drilled or shaped in much the same way as wood. Thus, it is a simple matter to produce special sizes right on the job. This workability also makes it easy to build such things as bookcases and closets.

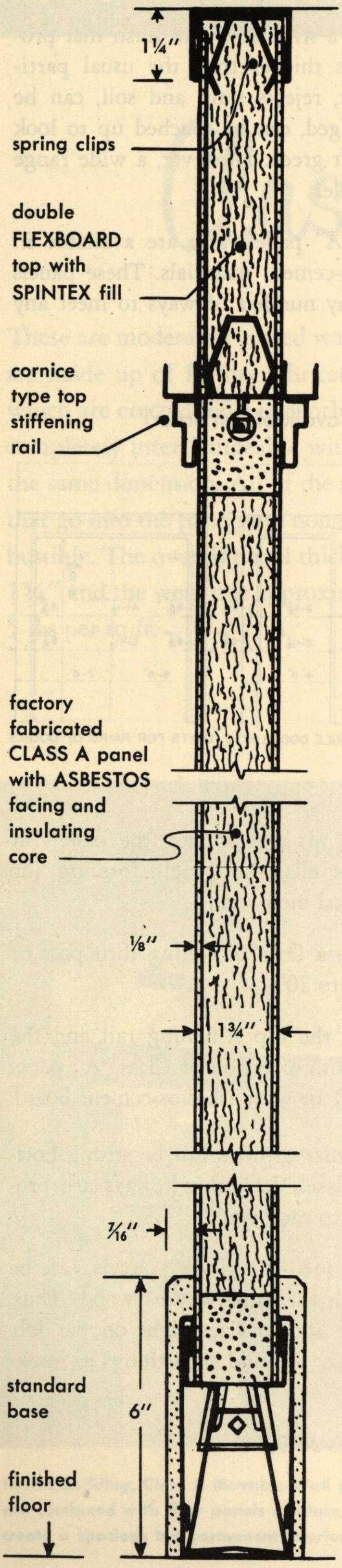
Doors and hardware—see pages 28-29.

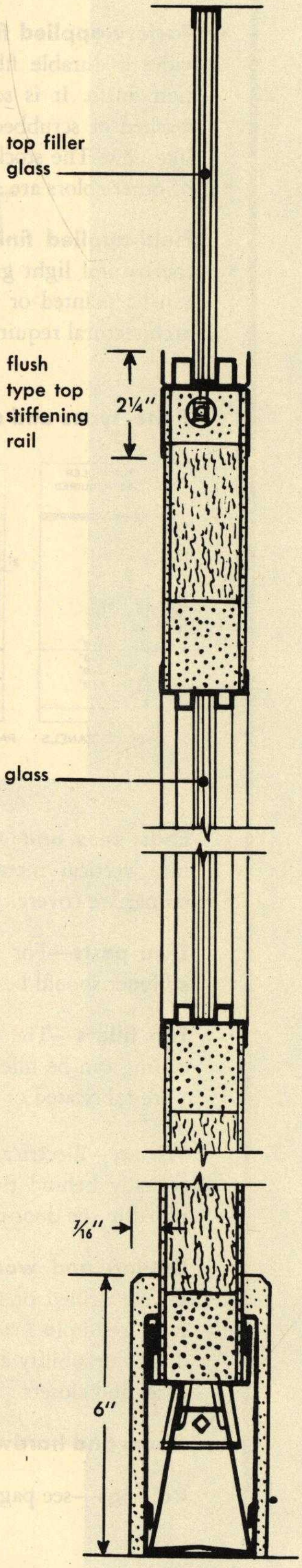
Railings—see pages 26-27.

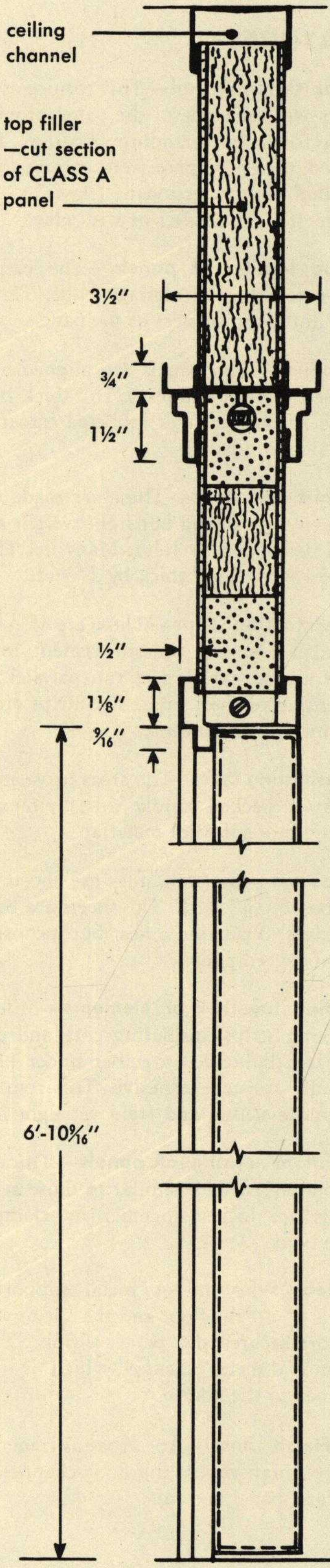
Class A

WALLS | scale: ¼ size

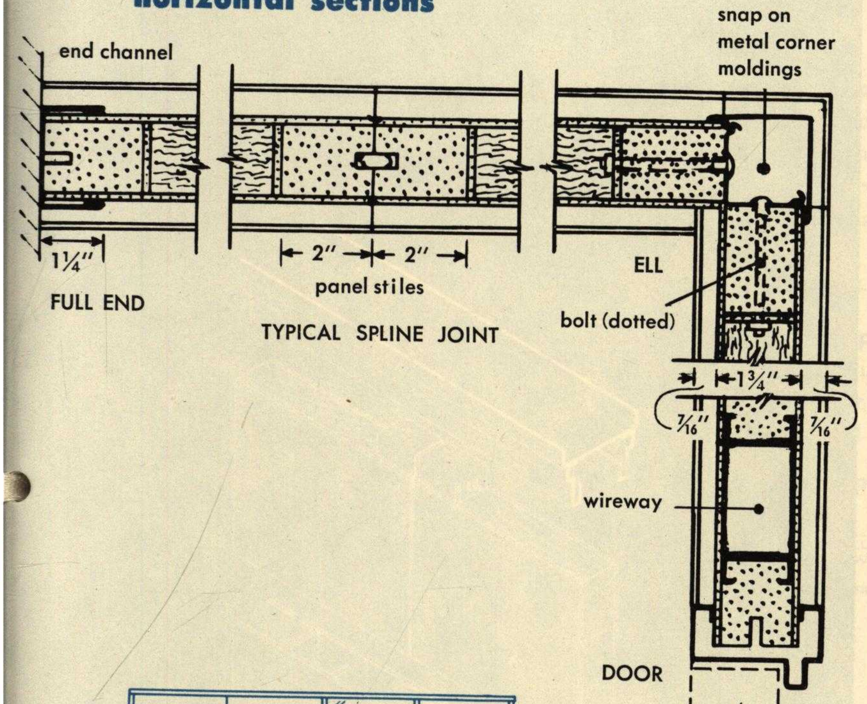
vertical sections

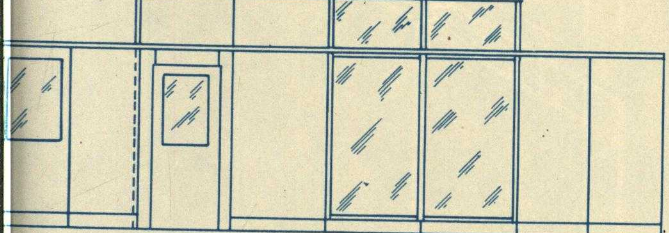

1¼″
spring clips
double FLEXBOARD top with SPINTEX fill
cornice type top stiffening rail
factory fabricated CLASS A panel with ASBESTOS facing and insulating core
⅛″
1¾″
7⁄16″
standard base
6″
finished floor


top filler glass
flush type top stiffening rail
2¼″
glass
7⁄16″
6″

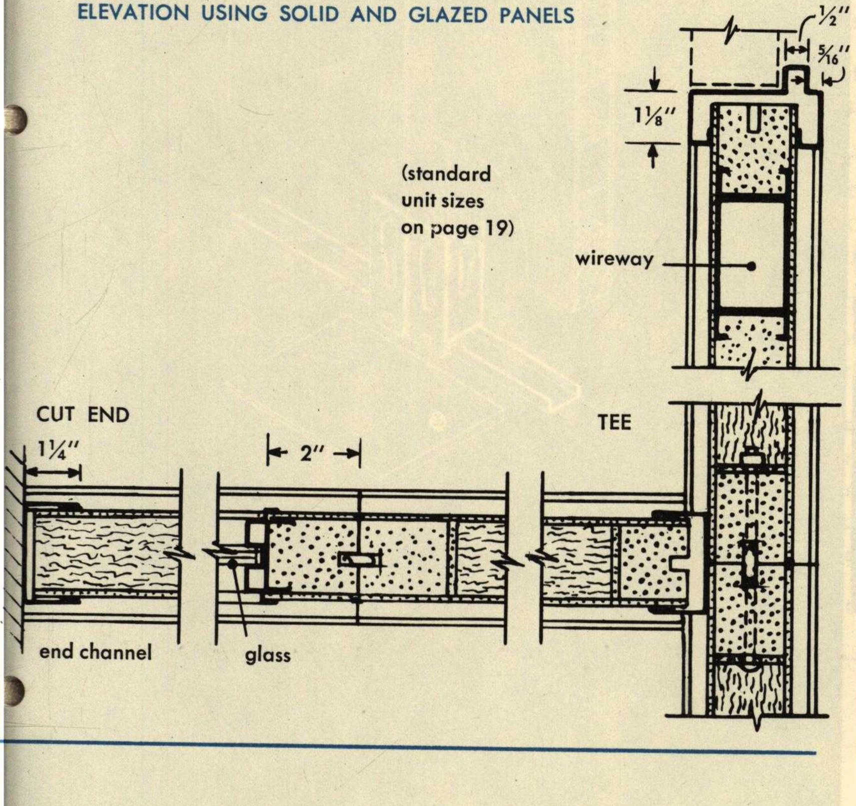

ceiling channel
top filler —cut section of CLASS A panel
3½″
¾″
1½″
½″
1⅛″
9⁄16″
6′-10 9⁄16″

horizontal sections





ELEVATION USING SOLID AND GLAZED PANELS



(standard unit sizes on page 19)

SPECIFICATIONS

General: Johns-Manville CLASS A ASBESTOS MOVABLE WALLS shall be supplied and erected complete as shown on drawings. All necessary items such as grounds, panels, base, doors, hardware and trim shall be included. Details and erection methods shall conform to manufacturer's standards. Units of same dimension shall be interchangeable. The most economical panel arrangement shall be used.

Shop Drawings showing layout, typical elevations and any special conditions shall be submitted in duplicate for approval before proceeding with the work.

Door Hardware shall be manufacturer's standard. (State lock function—i.e., cylinder, latchset, etc.) Finish of locksets shall be natural bronze or anodized aluminum. Each door shall have 1½ pair 4½″ x 4″ flat button tip butts (state finish) and one standard door stop.

Top Fillers shall be double ⅛″ asbestos board with edges retained in vertical "H" section molding. Top fillers shall be packed with Spintex mineral wool. (Alternate: Shall be ¼″ mineral board on both sides of 1¼″ x 1¾″ wood studs 2′-0 on centers, secured to partition stiffening rail and to continuous ceiling runner. State if tops are to be spackled, taped and painted by partition contractor or by others.)

Glass and Glazing: (State if by partition contractor or by others.) Glass shall be (state design, quality and thickness) bedded in putty and back puttied. Compound shall be colored to match trim.

Finish shall be applied at the factory. On panels and base it shall be a textured stipple and on bucks, doors, light frames and stiffening rail a harmonizing solid color. Colors shall be J-M partition standards selected by architect. (Alternate: Walls shall be field painted in accordance with partition manufacturer's standard specifications. State if painting of partition and top fillers to be done by partition contractor or by others. Colors shall be as selected by architect.)

Workmanship: Walls shall be straight and plumb, with horizontal lines level. Hardware shall be carefully adjusted. The finished walls shall be strong, rigid, neat in appearance and free from defects.

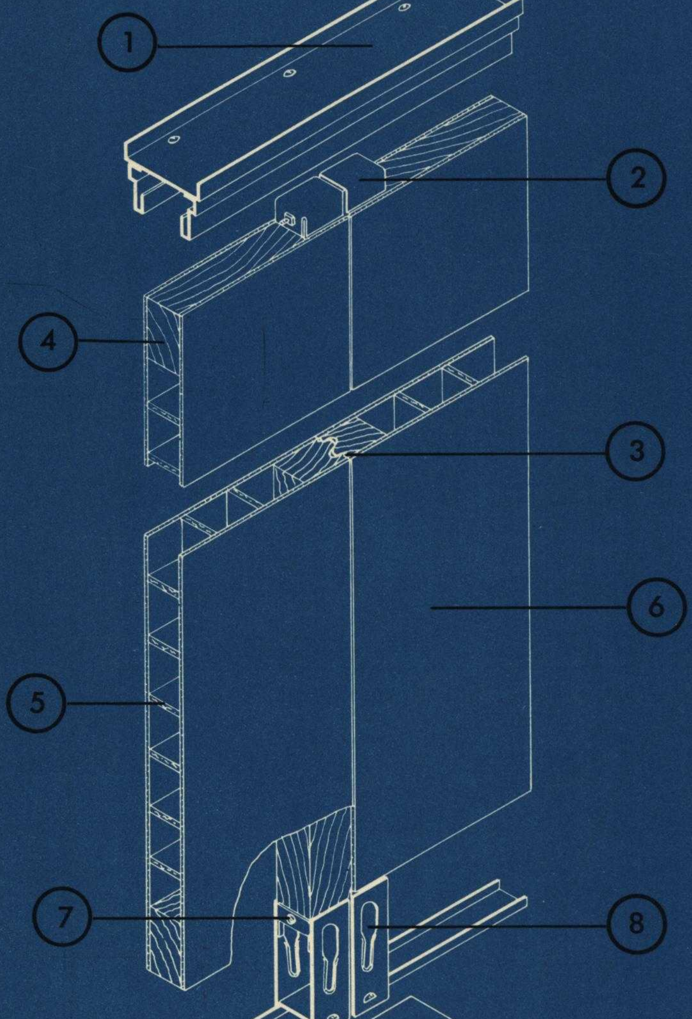
Johns-Manville

Universal

These economically priced walls are of simplified construction. They are one of the easiest of movable partitions to erect or relocate. The panels are erected independently and are interchangeable with panels of the same dimension. The asbestos facings make them highly fire resistant. The overall panel thickness is 1¾″ thick and the weight is approximately 4 lbs per sq ft.

The relatively thin but extremely sturdy Universal Movable Wall panels are ideal for a partition that is carried to a window wall.

UNIVERSAL WALL ASSEMBLY



FEATURES

1—Top stiffening rail—This cornice assembly slips down over each side of the panel providing a trim finish for a free standing partition. However, if desired, the open space from cornice to ceiling can be filled with a section of Universal panel, with an asbestos board filler or with glass.

2—Top locking of panels—Panel tops are locked together by carriage bolts inserted through the top of the stiles which extend 1″ above the top rails.

3—"S" joints—Universal panels are aligned and held together by an "S" milled into the stiles.

4—Rails and stiles—These framing members are made of hardwood 1½″ thick by 2″ wide. Also, there is a cross rail of wood, 1½″ by 2½″, at the center of the panel.

5—Reinforcing strips—The spaces between stiles and rails are filled with interlocking horizontal and vertical strips. These are closely spaced and the strips are of ½″ Johns-Manville Insulating Board, a wood fiber material.

6—Facings—Both sides are faced with sheets of Asbestos Flexboard, ⅛″ thick. These fireproof sheets are beveled along the edges to provide a "V" joint between panels.

Bonding together of elements—Stiles, rails, core and asbestos facings are bonded together under pressure by a moisture resistant adhesive.

7—Bottom locking of panels—Panel bottoms are locked together by carriage bolts inserted through the bottom of the stiles which extend 1″ below the bottom rails and rest in the floor supports.

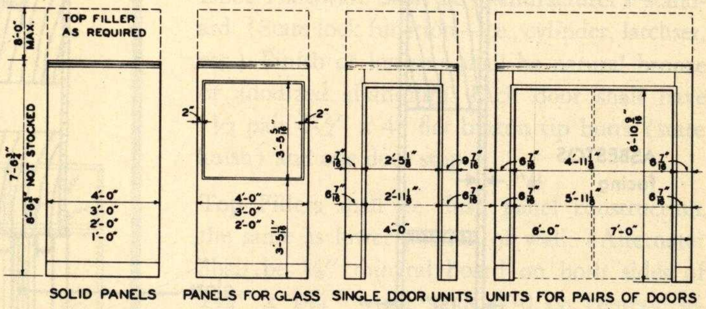
8—Floor supports—A metal support holds the panels 4″ off the floor. They fit over a channel fastened to the floor.

9—Finish base—An asbestos-cement "clip-on" base 6″ high covers the floor channel, metal floor support and panel bottom.

Factory-applied finish—The stock color is a soft green. This is a stippled paint finish that provides a tough, hard, durable film many times thicker than the usual partition finish. It is mar and scratch resistant, rejects stain and soil, can be washed or scrubbed and, if damaged, can be touched up inexpensively to look like new. In addition to the light green, a wide range of other stippled colors are available on order.

Field-applied finishes—Universal panels are available in the natural light gray of asbestos-cement for use without further treatment or, to meet architectural requirements, they can be decorated by painting or veneering in any number of ways.

Panel types and sizes— (others available on order)



Ends, tees and ells—At wall ends and at tees, the panels fit into vertical metal channels. At ells, the panels forming the corners fit into a hardwood post having an "S" milled into two sides.

Thru posts—For long wall runs, a floor to ceiling thru post or stiffener should be used every 16′ to 20′.

Top fillers—The space between the top stiffening rail and the ceiling can be filled with glass, with a section of Universal panel, with a section of Class "A" panel (pre-fabricated or cut on the job) or with asbestos-cement board.

Wiring—Electrical lines and similar utilities can be strung horizontally behind the removable base. Vertical wireways are provided in the door panels adjacent to each jamb.

Cutting and working on the job—Universal panels can be sawed, drilled or shaped in much the same way as wood. Thus, it is a simple matter to produce special sizes right on the job. This workability also makes it easy to build such things as bookcases and closets.

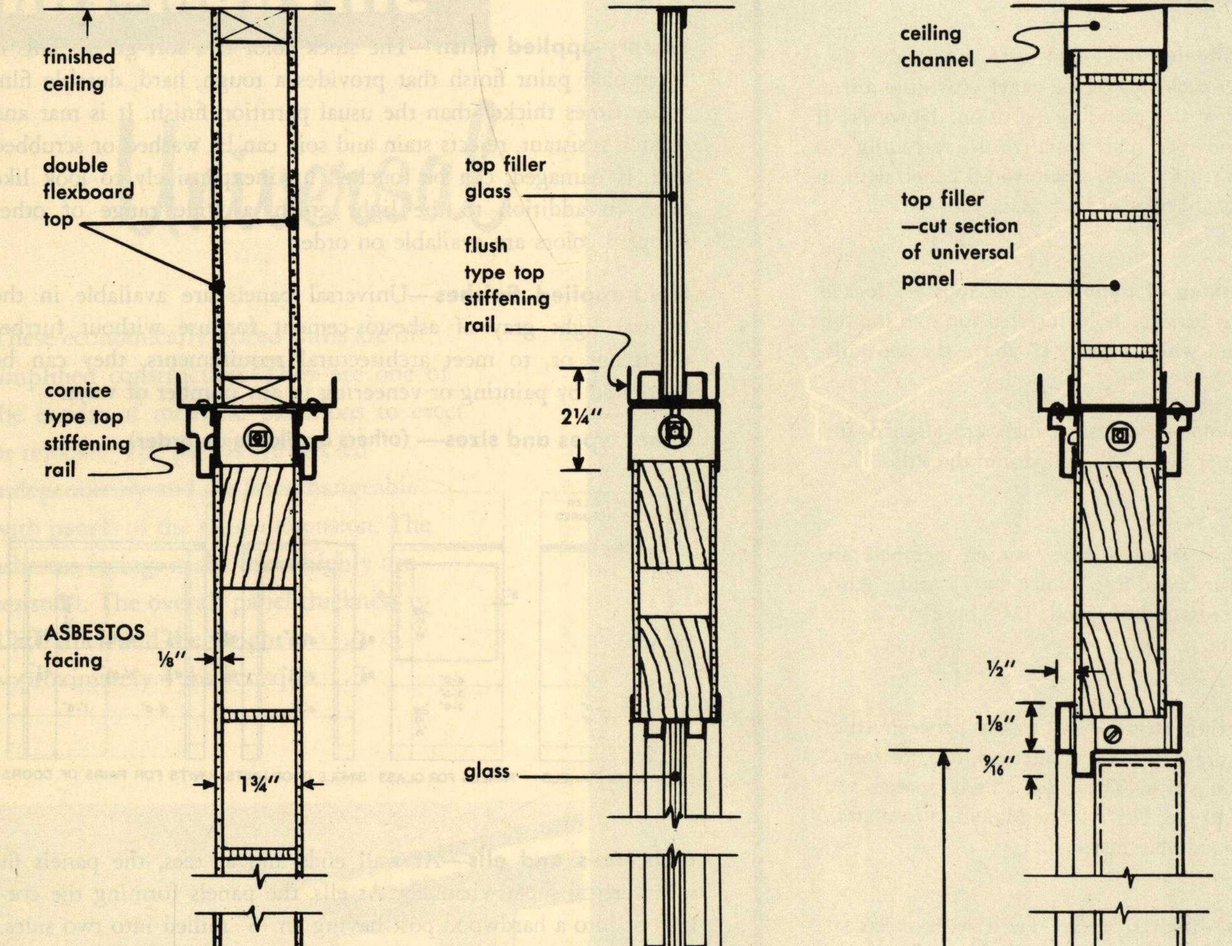
Doors and hardware—see pages 28-29.

Railings—see pages 26-27.

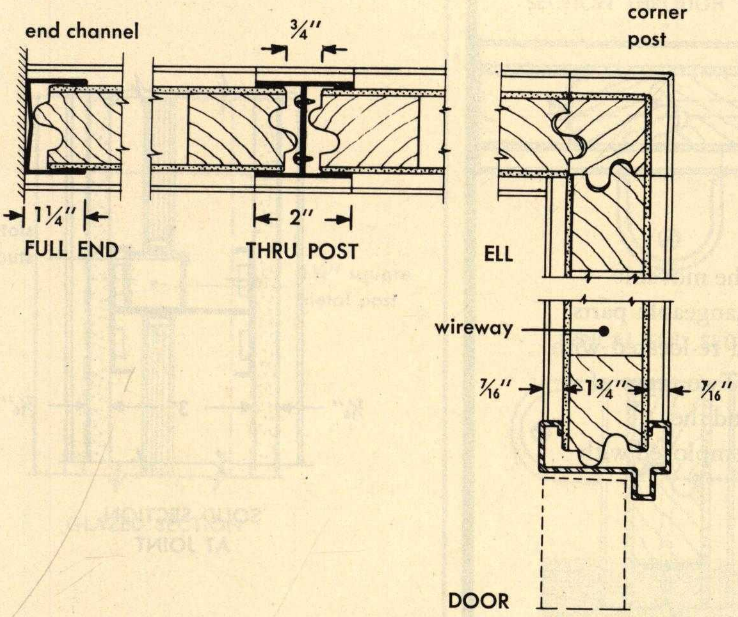
Universal

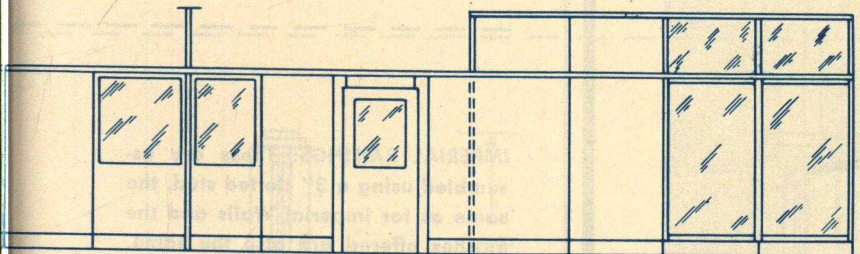
WALLS | scale: ¼ size

vertical sections

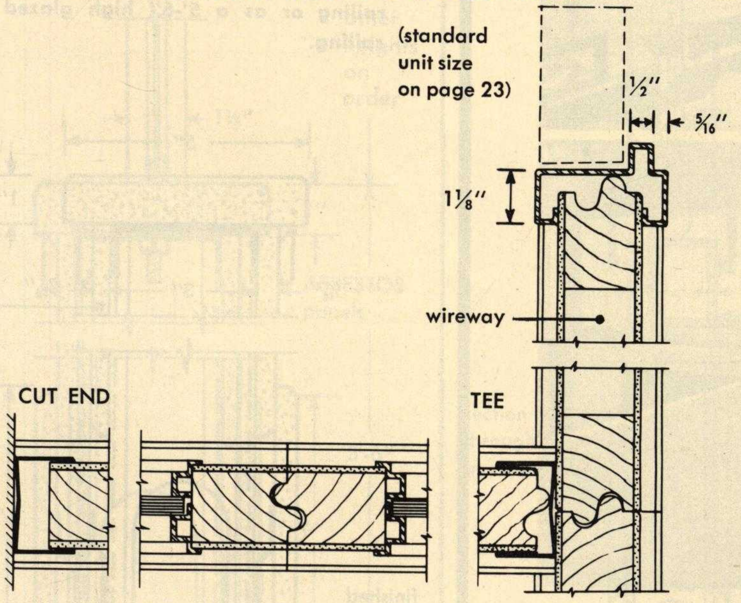

finished ceiling
double flexboard top
cornice type top stiffening rail
ASBESTOS facing
1/8″
1¾″
reinforcing strips
7/16″
standard base
6″
finished floor
top filler glass
flush type top stiffening rail
2¼″
glass
7/16″
6″
ceiling channel
top filler —cut section of universal panel
½″
1⅛″
9/16″
6′-10 9/16″

horizontal sections





ELEVATION USING SOLID AND GLAZED PANELS



SPECIFICATIONS

General: Johns-Manville UNIVERSAL ASBESTOS MOVABLE WALLS shall be supplied and erected complete as shown on drawings. All necessary items such as grounds, panels, base, doors, hardware and trim shall be included. Details and erection methods shall conform to manufacturer's standards. Units of same dimension shall be interchangeable. The most economical panel arrangement shall be used.

Shop Drawings showing layout, typical elevations and any special conditions shall be submitted in duplicate for approval before proceeding with the work.

Door Hardware shall be manufacturer's standard. (State lock function—i.e., cylinder, latchset, etc.) Finish of locksets shall be natural bronze or anodized aluminum. Each door shall have 1½ pair 4½″ x 4″ flat button tip butts (state finish) and one door stop.

Top Fillers shall be flush panel construction, the same as lower portion of wall. (Alternate: Shall be ¼″ mineral board on both sides of 1¼″ x 1¾″ wood studs 2′-0 on centers, secured to partition stiffening rail and to continuous ceiling runner. State if tops are to be spackled, taped and painted by partition contractor or by others.)

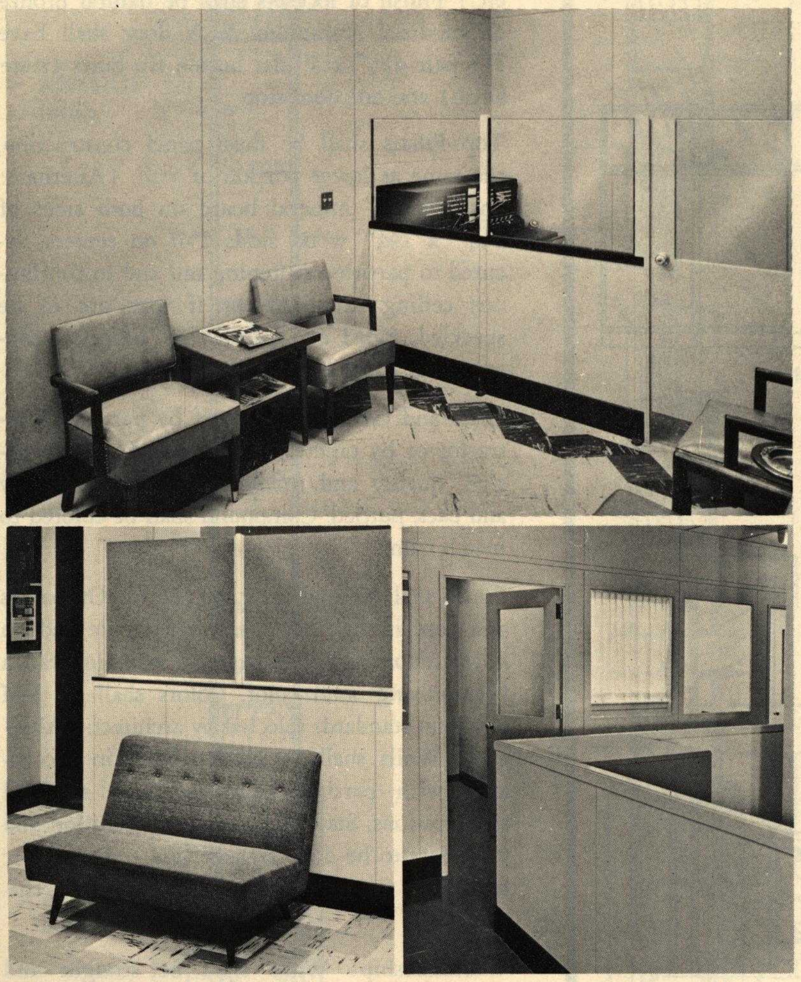
Glass and Glazing: (State if by partition contractor or by others.) Glass shall be (state design, quality and thickness) bedded in putty and back puttied. Compound shall be colored to match trim.

Finish shall be applied at the factory. On panels and base it shall be a textured stipple and on bucks, doors, light frames and stiffening rail a harmonizing solid color. Colors shall be J-M partition standards selected by architect. (Alternate: Walls shall be field painted in accordance with partition manufacturer's standard specifications. State if painting of partition and top fillers to be done by partition contractor or by others. Colors shall be as selected by architect.)

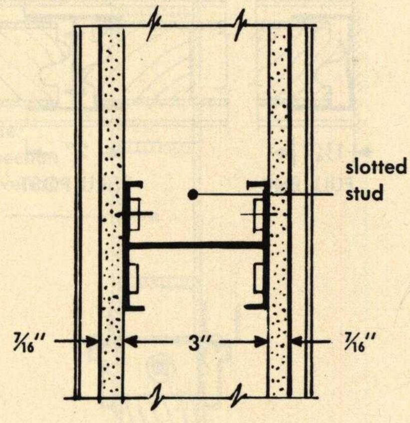
Workmanship: Walls shall be straight and plumb, with horizontal lines level. Hardware shall be carefully adjusted. The finished walls shall be strong, rigid, neat in appearance and free from defects.

Johns-Manville Railings

Johns-Manville Movable Railings, like the movable walls, are made up of interchangeable parts which can be erected, dismantled and re-located with the complete salvage of materials. Two types of railings are available—the Imperial and the Universal. Either type can be employed with any of the J-M Movable Walls.

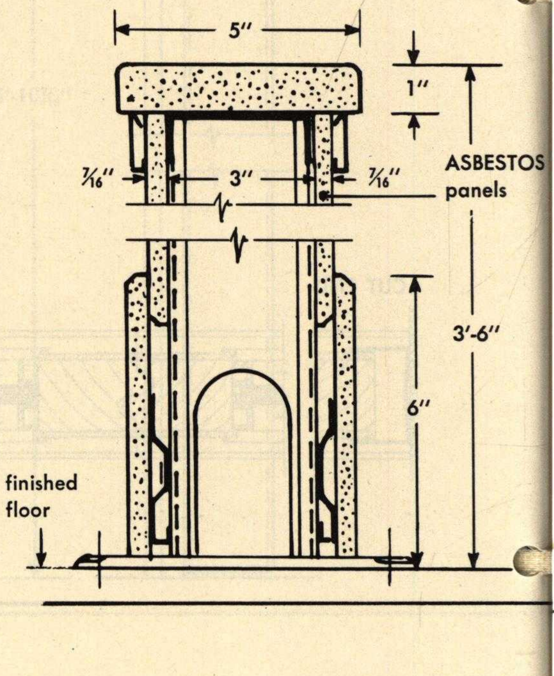


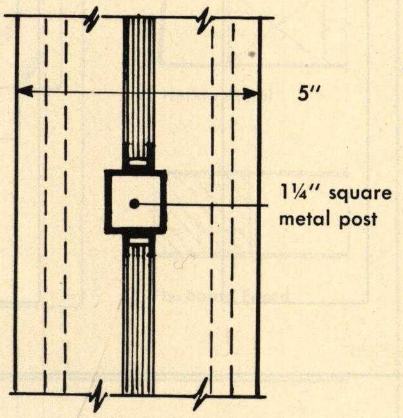
Glazed railings with clear glass, glazed railings with frosted glass for greater privacy and a railing for simple separation are illustrated by the three pictures above. These can be utilized in many ways and in combination with many types of walls and partitions to satisfy the need for sub-dividing working areas.



SOLID SECTION AT JOINT

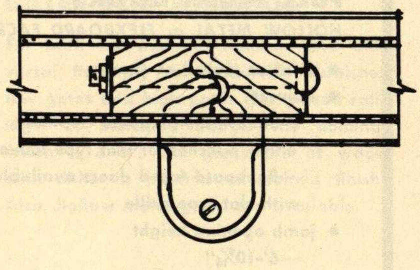
IMPERIAL RAILINGS: These are assembled using a 3" slotted stud, the same as for Imperial Walls and the finishes offered are also the same. They are available as a 3'-6" high railing or as a 5'-6" high glazed railing.



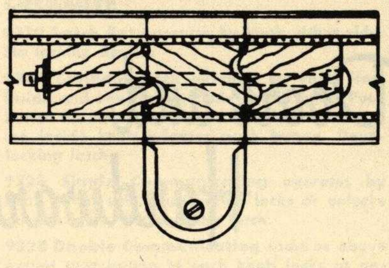

5″
1¼″ square metal post

GLAZED SECTION

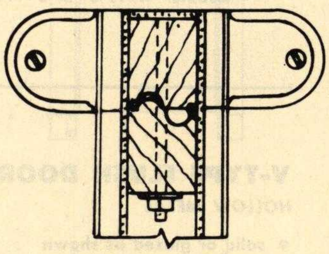
SECTION THROUGH RAILING



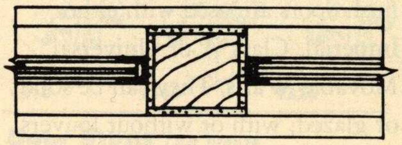
LOWER SECTION GLAZED RAILING

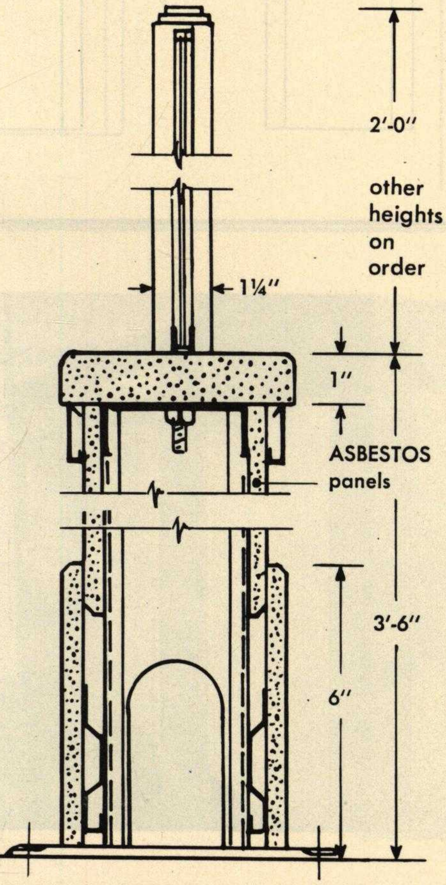


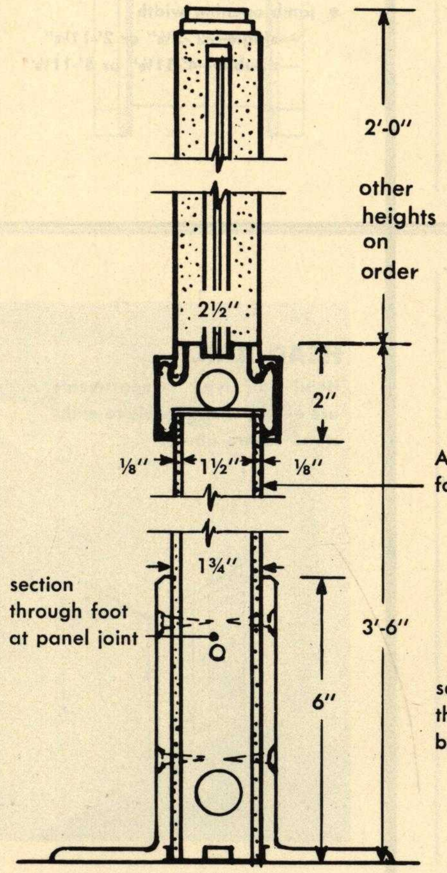
TYPICAL END SECTION

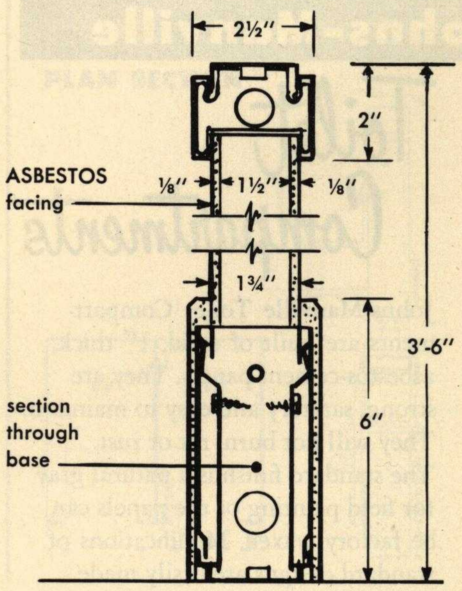


UPPER SECTION GLAZED RAILING




2′-0″
other heights on order
1¼″
1″
ASBESTOS panels
3′-6″
6″


2′-0″
other heights on order
2½″
2″
⅛″
1½″
⅛″
1¾″
section through foot at panel joint
3′-6″
6″


ASBESTOS facing
2½″
2″
⅛″
1½″
⅛″
1¾″
3′-6″
6″
section through base

UNIVERSAL RAILINGS: These are 1¾″ thick, the same as Universal Walls and Class A walls. The finishes offered also are the same as for the walls. They are available as a 3′-6″ high railing or as a 5′-6″ high glazed railing.

Johns-Manville

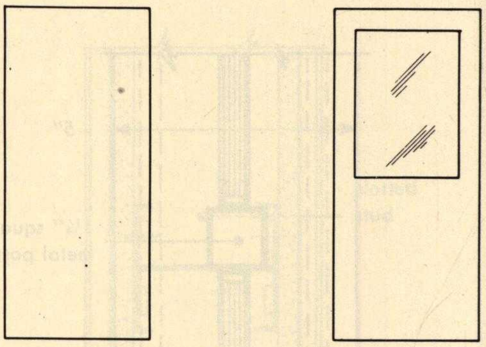
Doors and Hardware

Both full flush doors and V-type flush doors are used with either Imperial, Class A or Universal Movable Walls. They can be solid or glazed; with or without louvers. They are furnished with a baked enamel finish or with a prime finish for decorating on the job. Also, J-M Movable Walls are so adaptable that any other type of door can be installed successfully.

FULL FLUSH DOORS

HOLLOW METAL or FLEXBOARD FACED

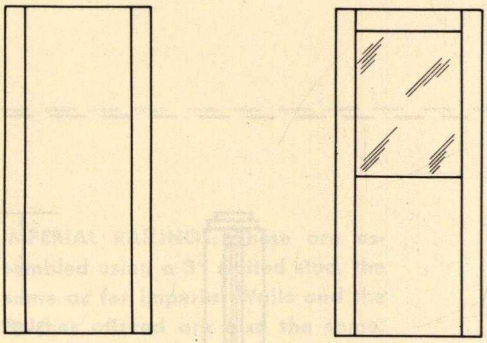
- **solid or glazed as shown**
- **louvers**
  - **—hollow metal doors available with either punched or tent type louvers**
  - **—flexboard faced doors available with slat type grille**
- **jamb opening height**
  - **—6'-10$\frac{9}{16}$"**
- **jamb opening width**
  - **—single—2'-5⅛" or 2'-11⅛"**
  - **—double—4'-11⅛" or 5'-11⅛"**



V-TYPE FLUSH DOORS

HOLLOW METAL

- **solid or glazed as shown**
- **louvers**
  - **—available with either punched or tent type louvers**
- **jamb opening height**
  - **—6'-10$\frac{9}{16}$"**
- **jamb opening width**
  - **—single—2'-5⅛" or 2'-11⅛"**
  - **—double—4'-11⅛" or 5'-11⅛"**



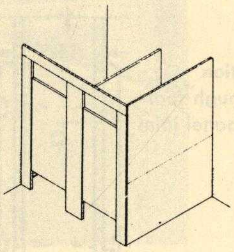
Johns-Manville

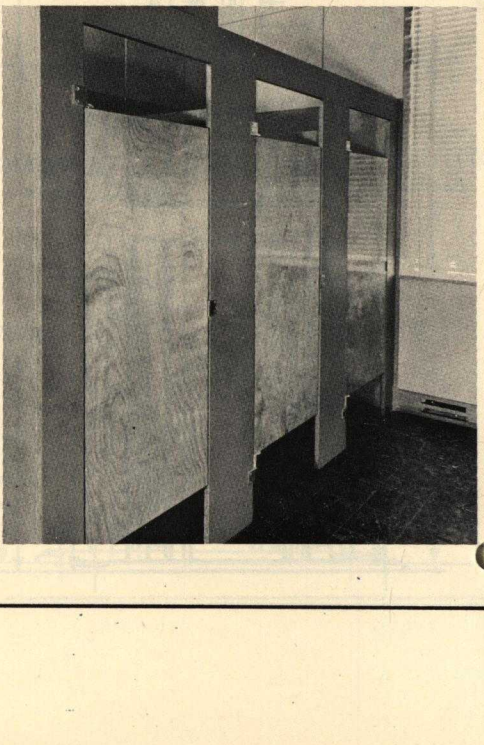
Toilet Compartments

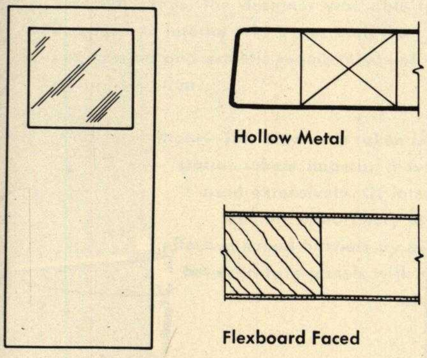
Johns-Manville Toilet Compartments are built of solid, 1" thick, asbestos-cement panels. They are strong, sanitary and easy to maintain. They will not burn, rot or rust. The standard finish is a natural gray for field painting or the panels can be factory waxed. Modifications of standard designs are easily made to meet special needs.

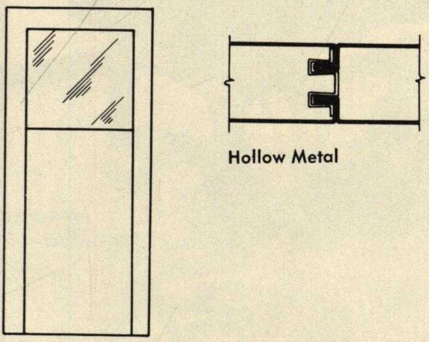
HEAD RAIL

Head rail type compartments are exceptionally stable to withstand severe abuse.



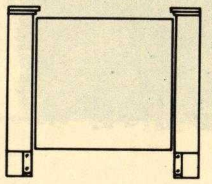


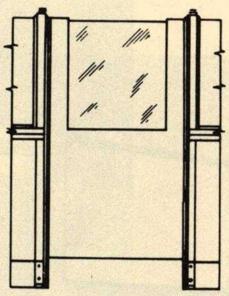




GATES FOR RAILINGS

For both the Imperial Railings and Universal Railings, Johns-Manville furnishes low gates and high gates (for glazed railings) as indicated above. The nominal width is 3'-0". The gates are of wood with either a painted or stained finish. Also, hollow metal gates are available.





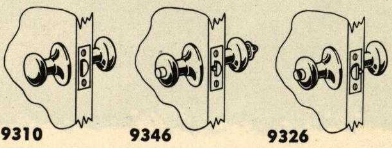
STANDARD HARDWARE
Locksets

9310 Latch Set operates by knob either side. No locking device.

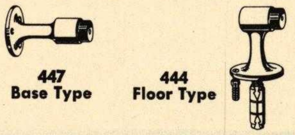
9346 Cylinder Lock operates by knob from inside and key from outside at all times. Push button on inside deadlocks outside knob. Turning inside knob releases push button. Deadlocking latch.

9326 Single Communicating operates by knob either side. Turn button locks or unlocks outside knob. Deadlocking latch.

9328 Double Communicating same as above except turn button in each knob locks or unlocks opposite knob.



Door Stops Cast bronze



Door closers

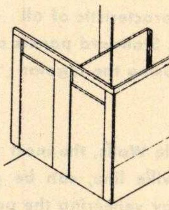
B-1 and C-1 Series—with or without hold-open feature. Closers are surface applied to door and frame. Can be used with all stock doors and stock frames.

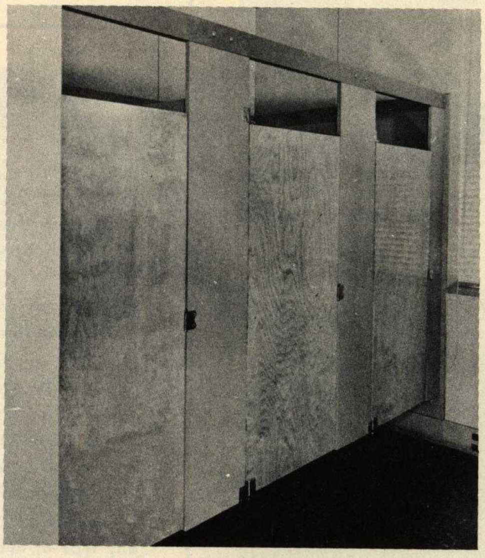
3000 Series—with or without hold-open feature. Closer is concealed in the door. The arm is surface applied to the frame. Closer can be used with all stock door frames but requires non-stock doors.

Other types of door closers require non-stock door frames as well as non-stock doors.

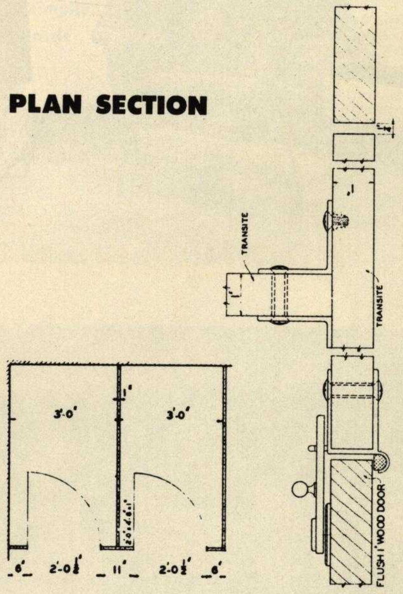
SUSPENDED

Suspended type compartments provide an open floor area for easier cleaning.





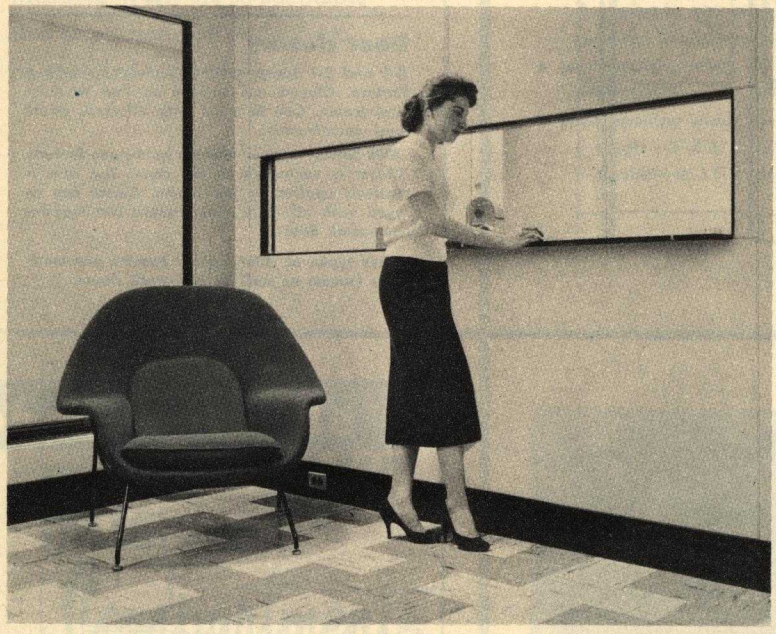
PLAN SECTION

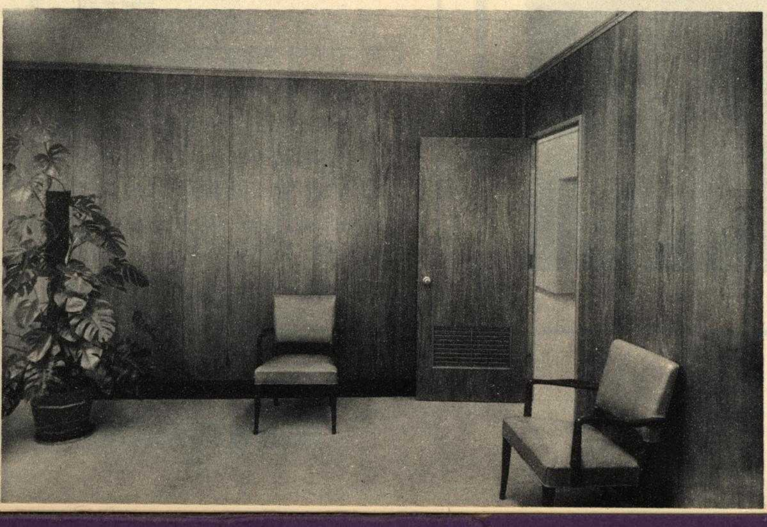


JOHNS-MANVILLE
JM
PRODUCTS

other interiors

These pictures further illustrate the versatility of Imperial, Class A and Universal Movable Walls. They are at home in most any type of building; fit the unusual lay-out as well as the straight wall plan; can be simple in appearance or decorated luxuriantly; and, can be counted on to give years of service.



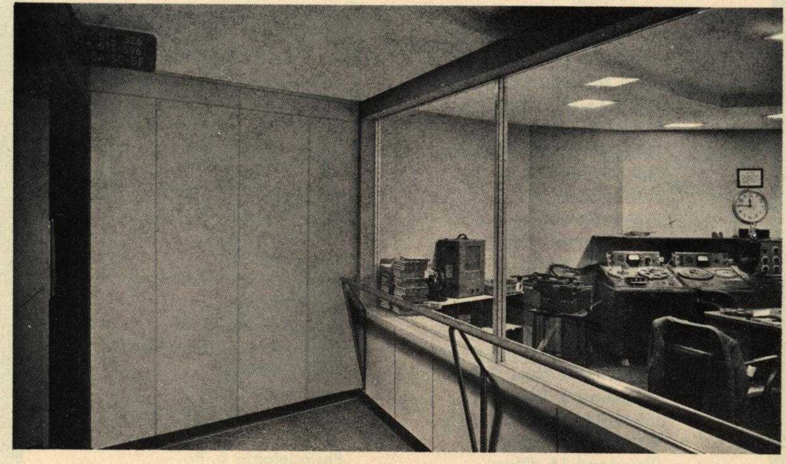


Top Left—The pass-through opening shown here was fashioned right on the job by the mechanics who erected the Class A Movable Walls in this office. Easy workability of this sort is a characteristic of all Johns-Manville Movable Walls. Standard panels can be quickly and accurately cut using the regular tools of the trade.

Bottom Left—Universal Movable Walls, the most economical of the Johns-Manville line, can be given a highly expensive appearance by veneering the panels with wood as was done for this interior. Such individualized treatment is a unique advantage of asbestos walls. They are amenable to almost any type of decoration.

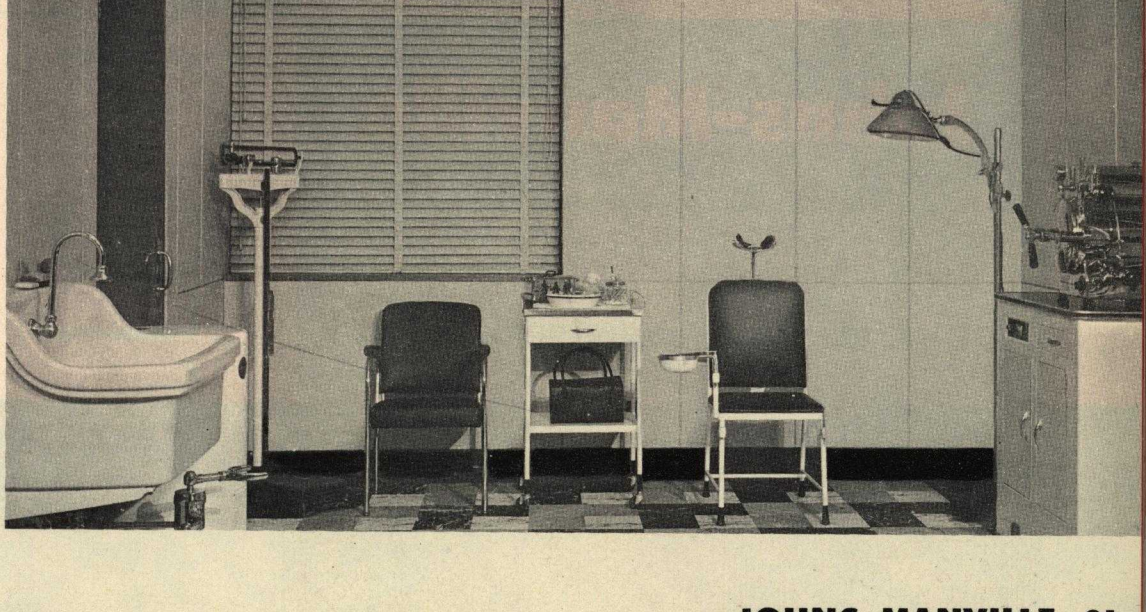
Left—The splayed walls of this recording studio were built with Imperial Movable Walls because the components allow latitude of assembly. Thus, the designer was able to compose an interior which met both the engineering and esthetic requirements of this special situation.

Right—This view was taken in a broadcasting station where Imperial Movable Walls were used extensively. Of interest in this case, was the opportunity to make the walls effective sound barriers by packing the space between face panels with sound absorbing mineral wool pads.



Left—This office is typical of thousands of business interiors where Class A Movable Walls can be used to provide sturdy, non-combustible, moderately priced partitioning that can be shifted with minimum bother when new arrangements are needed.

Below—As seen in this picture, Johns-Manville movable walls are "healthy" walls for hospitals and for the suites of doctors, dentists or therapeutists. The flush surface of the walls simplifies maintenance of high sanitation standards.



J-M Sales Offices and District Sales Representatives

Atlanta 7, Ga.
Clise and Smith, Inc.
901 Bernina Ave. N.E.
Baltimore 2, Md.
Johns-Manville Sales Corp.
1312 Standard Oil Bldg.
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Johns-Manville Sales Corp.
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Buffalo 2, N. Y.
Johns-Manville Sales Corp.
220 Delaware Ave.
Charlotte, N. C.
Tomlinson Engineering Co.
1622 W. Morehead St.
Chicago 54, Ill.
Johns-Manville Sales Corp.
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Schwarz Jordan, Inc.
P. O. Box 35502
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Johns-Manville Sales Corp.
800-810 W. Walnut St.
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Hartford 14, Conn.
Johns-Manville Sales Corp.
50 Vredendale Ave.
Houston 36, Texas
Schwarz Jordan, Inc.
Box 3067
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Jacksonville, Fla.
Florida Acoustics, Inc.
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Wisconsin Soft Tile
647 W. Virginia St.
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3100 W. Lake St.
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Johns-Manville Sales Corp.
868 Broad St.
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2400 Canal St.
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Johns-Manville Sales Corp.
270 Madison Ave.
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Johns-Manville Sales Corp.
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Pittsburgh 19, Pa.
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The Brower Company
114 Virginia St.
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Johns-Manville

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22a
Mi

A.I.A. 35-H-6

THE JOINT IS THE KEY

a

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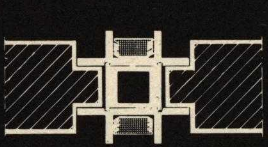
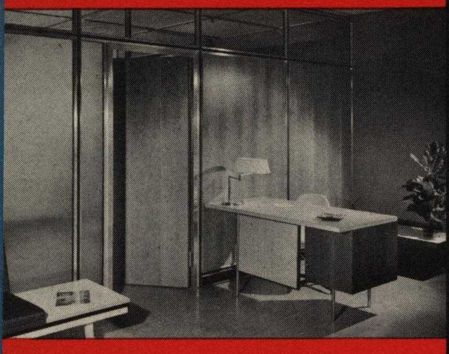
4

RESEARCH and DEVELOPMENT

Since its organization in 1921, The Mills Company has continually researched and developed new and better methods of interior space control to meet the changing needs of modern business and progressive architectural concepts. While developing new partitions, Mills is always able to supply additions or replacements for former installations. Results of finish performance tests and sound transmission tests are listed on Page 4.





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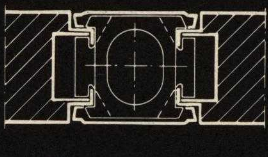
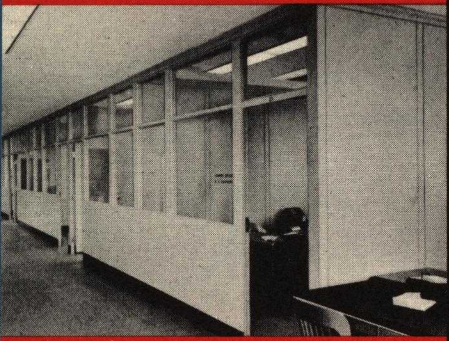
ALUMINUM FRAME PARTITIONS

A new concept that offers a handsome method of space division, yet is completely interchangeable to facilitate layout changes. Satin finish aluminum frames, and striking vinyl trim offset a wide choice of insert panels with simplicity and fine taste. Unique $2\frac{1}{2}''$ wide universal posts (Pat. pending) receive $\frac{15}{16}''$ or $2\frac{1}{8}''$ thick panels, and allow for future extensions without post replacement.





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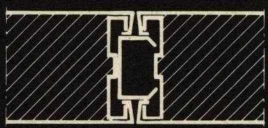
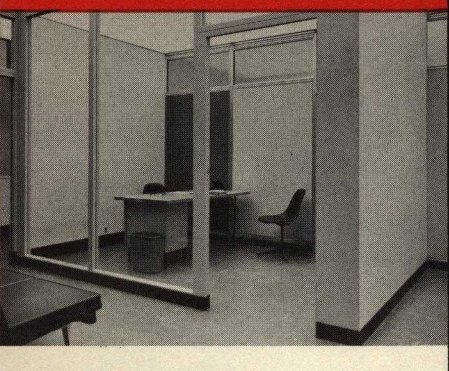
FLUSH PILASTER PARTITIONS

Widely used in office buildings, industrial offices, hospitals, universities and laboratories as ceiling high or cornice high partition units, wall linings and railings. Excellent sound retardant qualities (See Page 4). Panels, 3″ thick, comprised of two sheets of steel welded to a steel frame. Panels packed with fiberglas. Post caps flush with panels. Continuous base without plinth blocks. Universal post. Built-in utility spaces.





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SINGLINE PARTITIONS

A new development of partition research offering great value and economy for any partition use. Combination leveling device and double-cam interlock assures tight, straight joints. Versatile spline assures sturdy installation, ease of erection, simplicity in relocation. Flush panels 3″ thick of two steel sheets packed with Fiberglas. Post for glazed units $2\frac{1}{2}''$ wide. Built-in utility areas. All parts reusable.

Catalog 60-OP

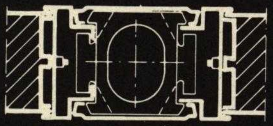
Copyright 1960

the mills company

TO FLEXIBLE SPACE CONTROL

EXECUTIVE PARTITIONS

Used in general office and public buildings, schools, laboratories and factories. They adequately retard sound transmission. Furnished as cornice high with or without top filler to ceiling. Panels 2¾″ thick comprised of two sheets of steel with insulating honeycomb core, whole incased in a steel frame. Universal posts 3″ thick. Continuous base without plinth blocks. Built-in utility spaces. Panels may be cut in field.



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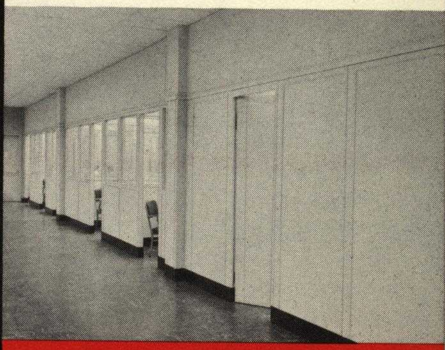
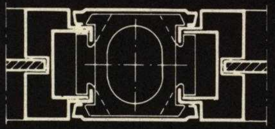


UNIVERSAL PARTITIONS

An economical partition for general and private offices, interviewing and examining rooms, industrial offices and work areas. Incorporates many details found only in top-line partitions. Panels ⅜″ thick comprised of two steel sheets, insulated with inorganic filler, mounted in steel frame. Universal posts 3″ thick. Continuous base without obstruction of plinths. Built-in utility spaces. Field cut down possible.



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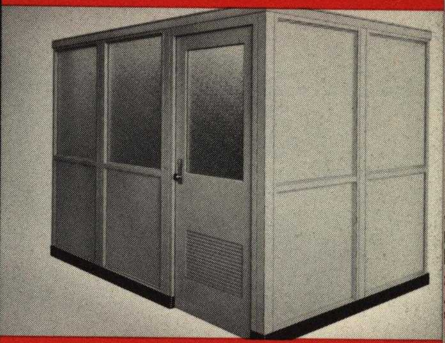
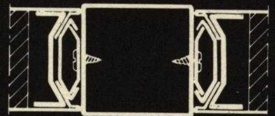


MAINLINER PARTITIONS

New free-standing partitions for economical space division. Easy to install and move. Made in four heights and ten panel widths. Metal bottom panels at 42″ height with 6″ open space at floor; glass or glass and steel above to nominal height. Panels are 1½″ thick comprised of two steel sheets with insulating honeycomb core. Universal posts, 1¾″ square, have buttons which engage spring locking device. Micro-adjustable floor leveler.



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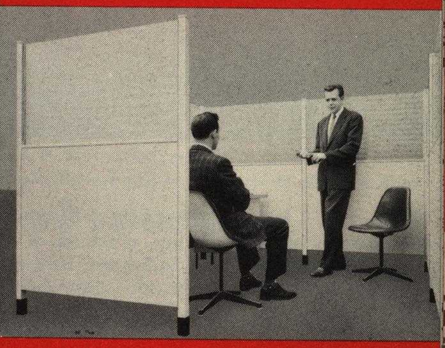
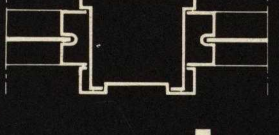


COMMERCIAL PARTITIONS

Used to define departments, for offices for production personnel, to create stock rooms and tool cribs. Glass lites approximately 20″ wide, 3″ square universal posts. Single steel and steel and glass panels. Cornice optional where partitions extend to ceiling. Combinations of steel, glass and wire mesh panels can be made to produce walls 30 feet or more in height. Built-in utility spaces.



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ACCESSORIES

(See Accessories list, page 4)

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j

SEE BACK COVER FOR
COMPLETE LIST OF
NATIONAL REPRESENTATIVES

965 WAYSIDE ROAD
CLEVELAND 10, OHIO

a RESEARCH & DEVELOPMENT PERFORMANCE SPECIFICATIONS

research and development

Within the past year Mills Research has completed development of four new partition systems to keep pace with advancement in architectural design requirements. Mills Research has developed, during the past 37 years, complete prefabricated building interiors, which eliminate the need for time-consuming plaster or other interior finishes. Complementing Mills partitions, Mills wall linings, window embrasures and convector enclosures provide space for ducts, pipes, heating units, conduits, etc., affording quick access to all utilities. Mills experience covers every phase of space control in all types of buildings, including special partitions and cubicles for schools, laboratories and hospitals, also fire resistant partitions which exceed 60 minutes under A.S.T.M. conditions. All Mills partitions provide adequate wiring facilities, and proper fittings are supplied as specified. Mills partitions have four times the thermal insulating qualities of a clay tile wall, plastered both sides.

accessories and special products

A partial list of accessories and products to meet special conditions encountered in completion of many building interiors:

Access Doors........................25, 30
Acoustic Partitions........................4
Base, Dummy and Wiring................31
Base, Open
Bookcases........................24, 30
Ceiling Systems........................31
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Wire Mesh Panels and Top Filler

For complete construction details and specifications contact the local Mills sales and service representative listed on page 32 or write THE MILLS COMPANY 965 Wayside Road, Cleveland 10, Ohio

finish performance tests

To insure uniform high quality, Mills finishes are subjected to the following tests:

ADHESION—Shall adhere tightly to the substrate over which it is applied, whether bare steel, primer or when recoating. When applied to 20-gauge steel, it shall withstand 20-inch pounds impact and shall show no loss of adhesion bent over a ½″ mandrel. When scratched with a knife, it shall show fine bevelled edges.

ACID TEST—Immersion in the following acids for the time stated, without etching, blistering, cracking or loss of color. (Slight loss of gloss permissible.) 50% sulphuric acid—4 hours, 2% oxalic acid—8 hours, 5% hydrochrolic acid—4 hours, 5% nitric acid—1 hour.

ALKALI TEST—Shall withstand immersion in the following alkalies: There shall be no loss of color, etching, cracking, blistering; (slight loss of gloss permissible). 50% sodium hydroxide—1 hour, 28% household ammonia—16 hours, 5% trisodium phosphate—16 hours.

NON-POLISHING—Shall withstand 250 cycles on a Gardiner Abrasion and Washability Machine, using abrasion boat and cheesecloth over a felt pad. There shall be no increase in gloss as measured with a Gardiner 60 Glossmeter.

HARDNESS—Shall withstand 500 gm. load of a Hoffman hardness tester.

HUMIDITY TEST—Shall withstand 500 hours exposure in atmosphere with 100% humidity and temperature of 100°F., with no breakdown in film.

WATER SOAK TEST—Shall withstand 500 hours immersion in distilled water at 95°F., with no breakdown in film.

DRY ABRASION—Shall withstand 600 cycles per mil of finish on a Gardiner Abrasion and Washability Machine using abrasion boat and No. 220 sandpaper over a felt pad.

sound control

SOUNDPROOFING—Standard Mills Flush Pilaster partitions are sound resistant to control ordinary noise problems. Where conditions require added sound control, areas are enclosed with specially soundproofed partitions. Mills Flush Pilaster Partitions have a sound reduction of 30 db to 36 db, which is more than a tile and plaster wall twice as thick. For best soundproofing results they should have a minimum number of doors and glazed units. Glazed units should have hermetically sealed double lites. Standard door frames are rubber lined and should have automatic felt drops or continuous wipers with thresholds. Follow specifications on Page 11 for maximum soundproofing.

SOUND TRANSMISSION LOSS— Below is shown sound transmission loss of Mills Flush Pilaster Partitions determined by Riverbank Acoustical Laboratory, Armour Research Foundation.

Type Partition	Transmission Loss
All steel to ceiling, no doors, completely packed	42db
All steel to ceiling, no doors, no packing	36db
All steel to ceiling, with doors and felt drops	32db
All steel to ceiling, with doors no felt drops	30db

(Glazed partitions have slightly less transmission loss.)

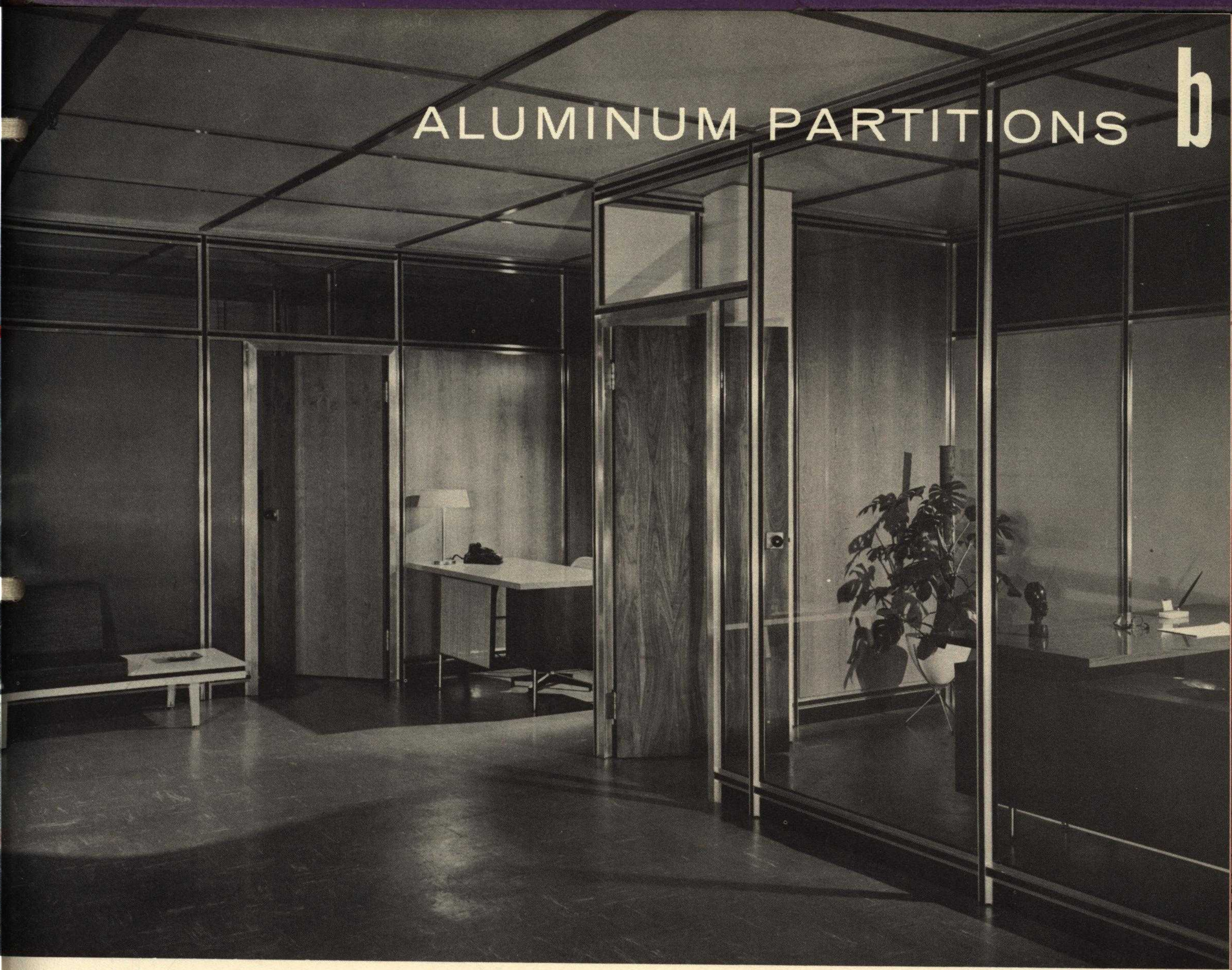
The average of four actual tests for Mills Flush Pilaster all steel partitions to ceiling with fillers, posts, base and cornice packed with Fiberglas are:

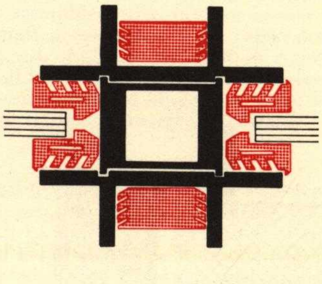
Frequency Cycles	128	256	512	1024	2048	4096	Average Rating
Test Average	25	34	38	49	56	51	42.1db

SOUND ABSORPTION—Mills Acoustic Partitions are for sound control rooms where a high degree of sound absorption is necessary. These partitions are desirable only where the treated wall area is equal or more than the ceiling area. They are made of perforated panel units, whose interiors are packed with sound absorbing material. One or both sides of the panel units may be perforated.

SOUND TRAVEL—Normally, suspended ceilings are ineffective as a sound barrier. Consequently, when a series of soundproofed offices are planned under such a ceiling, the chances of sound travel over the partitions should be considered. Baffles should be installed tightly above each run of partition, from the suspended ceiling to the bottom of the slab to eliminate cracks through which sound can easily pass. Lighting fixtures, heating outlets, etc., should also be baffled. Louvers cannot be fully soundproofed.

ALUMINUM PARTITIONS b





the new shape of space

Working with leading architectural consultants and the Aluminum Company of America, The Mills Company has recently completed three years of design and research toward the development of a new idea in modern partition systems.

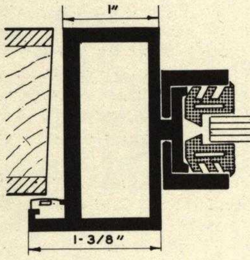
Designed by architects to meet the needs of architects these handsome Mills satin-finished aluminum partitions create an expression of delicate linear definition, classic simplicity, fine taste and a feeling of spaciousness, resulting from exclusive Mills design and construction features.

Unique universal aluminum posts (patents pending) are completely interchangeable to facilitate layout changes. Panels and framing members are available in modules up to six feet in width and in heights to a maximum of ten feet. Verticals and horizontals may be accented with colorful vinyl inserts. Horizontal members may be placed at any desired height and fit snugly into the universal posts. Panel-to-post tolerance problems are virtually eliminated by this exclusive, interlocking design. Posts are recessed to receive the tongued insert-panels.

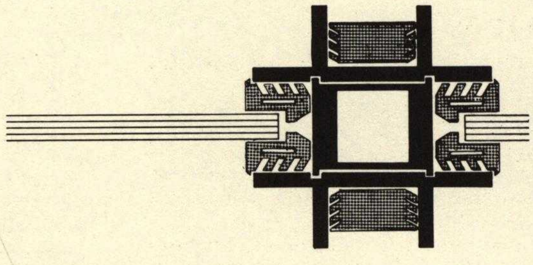
Within this thoroughly interchangeable system of partitions an unlimited selection of panels and panel finishes may be employed, offering the designer complete flexibility in the development of custom installations. For a detailed brochure explaining the full advantages of this new system, write The Mills Company, 965 Wayside Road, Cleveland 10, Ohio.

the mills company

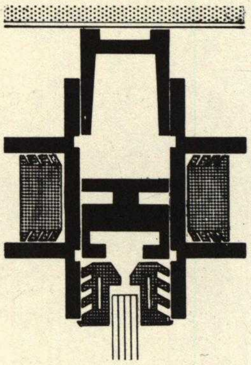
half-sized details



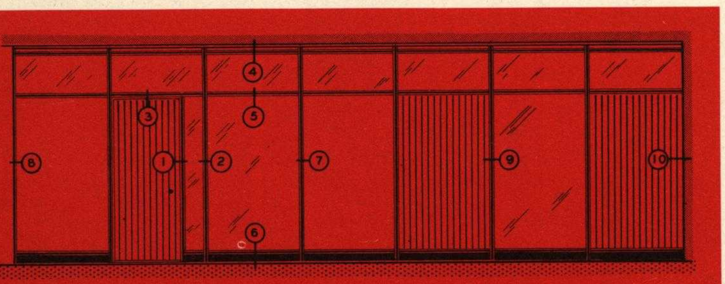
① DOOR JAMB



② DOOR SIDELIGHT PANEL



④ CEILING

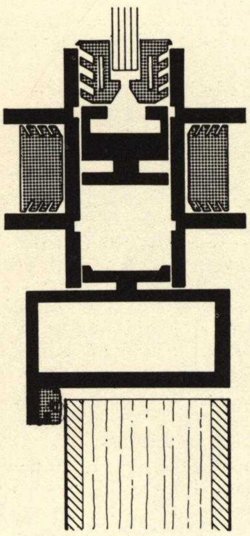


TYPICAL ELEVATION - ALUMINUM PARTITIONS

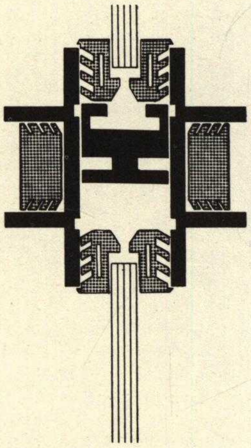
Recommended Partition Widths and Heights

Standard modular unit widths of partition are 48" center line to center line of posts, but partitions may be fabricated to fit any chosen building module. Post to post spans in excess of 72" and floor to ceiling spans in excess of 120" are not recommended.

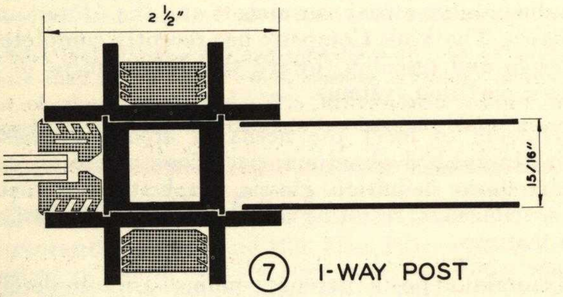
U.S. MECHANICAL & DESIGN PATENTS PENDING



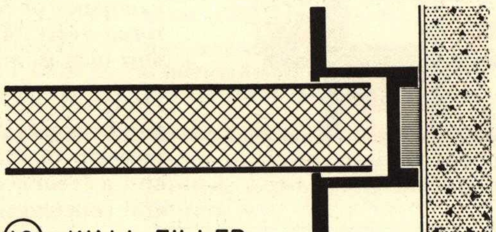
③ DOOR HEAD



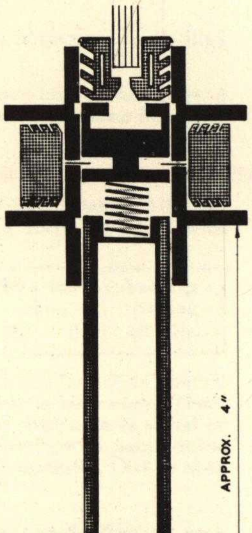
⑤ INTERMEDIATE RAIL

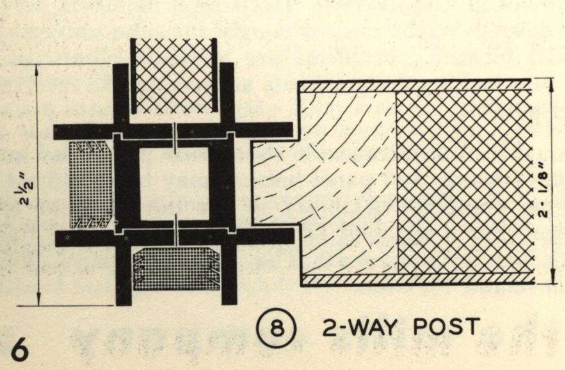


⑦ 1-WAY POST

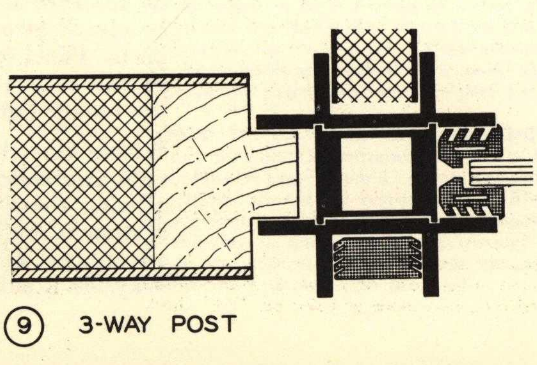


⑩ WALL FILLER





⑧ 2-WAY POST



⑨ 3-WAY POST

⑥ STANDARD BASE

ALUMINUM PARTITIONS

specifications

TYPE—Furnish and erect complete The Mills Company Standard Aluminum Partitions.

SHOP DRAWINGS—Detailed shop drawings shall be submitted to the architect in triplicate. Fabrication shall begin after architect's final approval of shop drawings, which shall include: partition plans, typical elevations, door and hardware schedule, color and/or finish of panel inserts, aluminum extrusions and hardware; and details of special conditions not otherwise indicated in plans.

TYPE OF PARTITION—Shall be of skeletal type: aluminum structural frame with applied insert panels. All panels shall interchange with other panels or door units of similar size, design and construction without disturbing adjacent runs of partition.

PARTITION FRAME

Aluminum—All partition frame sections shall be No. 6063-T5 Aluminum alloy extruded sections. Aluminum extrusions shall have a caustic etch and 20-minute standard clear anodizing treatment. Colored anodizing available to architect's specifications, when desired, at additional cost. All aluminum shall be properly alloyed, tempered and free from harmful defects.

Module—Standard modular unit widths of partition shall be 48″ center line to center line of posts; but building module shall govern unit widths for each job. (Post-to-post spans in excess of 72″ not recommended). Heights of vertical panel subdivisions shall be at discretion of designer.

Posts—Shall be of three-piece construction (design and mechanical patents pending), consisting of hollow rectangular central post and two applied identical pi-shaped sections, assembled with countersunk self-tapping screws, screws to be concealed by inlaid vinyl trim. Outer post sections to be removable from either side for glazing and installing panels. Final post assembly shall be symmetrical, with recesses allowing for 2-, 3- or 4-way extension of panels or glazing units without disturbing adjacent panels or substituting, rearranging or disfiguring material in place.

Horizontal Rails—Shall be of same general design and assembly as vertical posts. Horizontal rails shall occur at base line, at top of door frame and at ceiling or at other points as selected.

Ceiling Channel—Shall be black anodized aluminum extrusion, allowing for adjustment to compensate for ceilings out of level. Ceiling channel shall be securely fastened to suspended ceiling.

Wall Channel—Shall be clear anodized hat-shaped aluminum extrusion, allowing for adjustment to compensate for fixed walls out of plumb. Wall channel shall fit tightly against fixed wall or column with inorganic seal.

Door Frame—Shall be hollow aluminum extrusion, mitered at top corners of door and securely assembled with interior corner brace at top corners. Frame recess shall accomodate 1¾″ thick door. Continuous strike at head and jamb shall be rabbeted to receive black vinyl gasket. Door jambs shall have hinge mortise and strike mortise milled out at factory, and factory installed hinge and strike reinforcements, all properly drilled and tapped to receive hardware.

PANELS

Steel Panels—Steel panels shall be 15/16″ or 2⅛″ thick (specify which). 15/16″ panels shall be flush with interior faces of post recess. 2⅛″ panels shall have 15/16″ tongues at all panel ends to fit into post recess. All panels of like unit widths and heights shall be interchangeable.

Steel panels shall be constructed of two 20 gauge steel sheets secured on perimeter to steel interlocking channel member by means of toggles to make rigid fastening. Sheets to be reinforced with 20 gauge horizontal "hat-shaped" stiffeners spot welded on 3″ centers. Stiffeners shall be mounted on 12″ centers in the vertical height of the sheet. Spaces between sheets shall be packed solid with inorganic filler for sound attenuation and to give backing to sheets.

When specified, steel panel sheets shall be perforated on one or both sides for added sound absorption.

Steel Finish—Steel panels shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried before paint is applied. Panels shall be permanently finished with an enamel prime and finish coat of alkyd-melamine base, properly baked to ensure durable quality, meeting finish performance specifications on page four. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills' Color No. . . . or color to be as selected. Grained finishes for steel panels shall match approved samples. Finish shall consist of a prime coat and a finish coat of alkyd-melamine base, baked on and sanded smooth, after which graining ink shall be applied and baked. A baked-on varnish coat of "eggshell" gloss shall then be applied to preserve grained finish.

Wood Panels—Wood veneer panels are to be 15/16″ or 2⅛″ thick, as specified. 15/16″ panels shall have solid core of pressed, glued wood chip construction, with exposed face of veneer as selected. 2⅛″ thick panels shall have cellular hollow core faced on both sides with 7/16″ 3-ply panels. Face panels shall have ⅜″ pressed wood core with veneer of wood selected. 2⅛″ thick panels shall have solid lumber frame, and all panel ends shall be constructed with a 15/16″ thick tongue to be received into vertical and horizontal aluminum members. Samples of panel wood veneers shall be submitted for approval. Architect or designer to designate if veneer is to be book matched, slip matched or random selected.

Wood Panel Finish—Wood veneer panels shall be clean, dry and sanded to smoothness when finish is applied. They shall be prefinished before shipment with sealer coat and one sprayed coat of clear, hot lacquer, all sanded to satin smoothness. Paint manufacturer's specifications shall govern time allowed between coats.

Glazed Panels & Glazing— Glass and plastic panels shall be furnished by partition contractor of design and quality as specified or called for on drawings. Standard glazing mold shall be black vinyl to accomodate any 7/32″ or ¼″ glass panel, or other panel material of similar thickness. Black vinyl mold shall be of width and thickness to fit universally into recesses on all sides of posts or horizontal rails.

End Filler Panels—End fillers shall be used at the termination of partition runs at fixed walls or columns. Steel end fillers shall be similar in design and construction to 15/16″ steel partition panels and shall be finished in a similar manner. Wood end fillers shall be similar to 15/16″wood partition panels. End fillers shall fit neatly and snugly into extruded clear anodized wall channel.

Door Sidelight Panels—In instances where the established panel module from center to center of post is 48″ or wider, a door sidelight panel may be used. This panel may be of any type as hereinbefore specified.

DOORS

Steel Doors—Shall be 1¾″ thick with 3/32″ clearance at jambs and heads. They shall be of flush steel design or with glass lights as specified. Stiles shall be flush, 5″ wide, fabricated of 18 gauge steel, with No. 20 gauge panels, which shall be sound-deadened. All doors shall be properly mortised and reinforced for hinges, locks and Mills 904 concealed door check. (Hinge reinforcement: 14 gauge pressed steel channel; lock reinforcement: 16 gauge; check reinforcement: 14 gauge). Door shall be approximately 2′-10″ x 6′-10″. Glass shall be secured without the use of screws.

Wood Doors—Shall be flush, 1¾″ thick with solid lumber core, finished in veneer of type selected. Standard wood door shall be aproximately 2′-10″ x 6′-10″. Edges shall be beveled and all mortises cut at factory for hardware. Finish specifications for wood doors shall be same as that for wood panels.

HARDWARE—Doors shall be provided with Mills' standard LW 5400 series tubular latch and locksets in Alumilite finish with black anodized knobs. Doors shall be hung with one pair of Mills standard BB179 ballbearing butt hinges in U.S. 26D finish. Other hardware shall be Mills standard.

ELECTRICAL PROVISIONS—Switches, where required, shall be mounted on posts. Duplex outlets, when specified, will be mounted in factory-punched cutouts in the electrical base. Hollow central post extrusion shall have provisions for vertical fish wiring.

All switches, switch plates, duplex convenience outlets and flush plates shall be provided for by partition contractor at locations indicated on plans. All wiring, conduit and connections shall be by others.

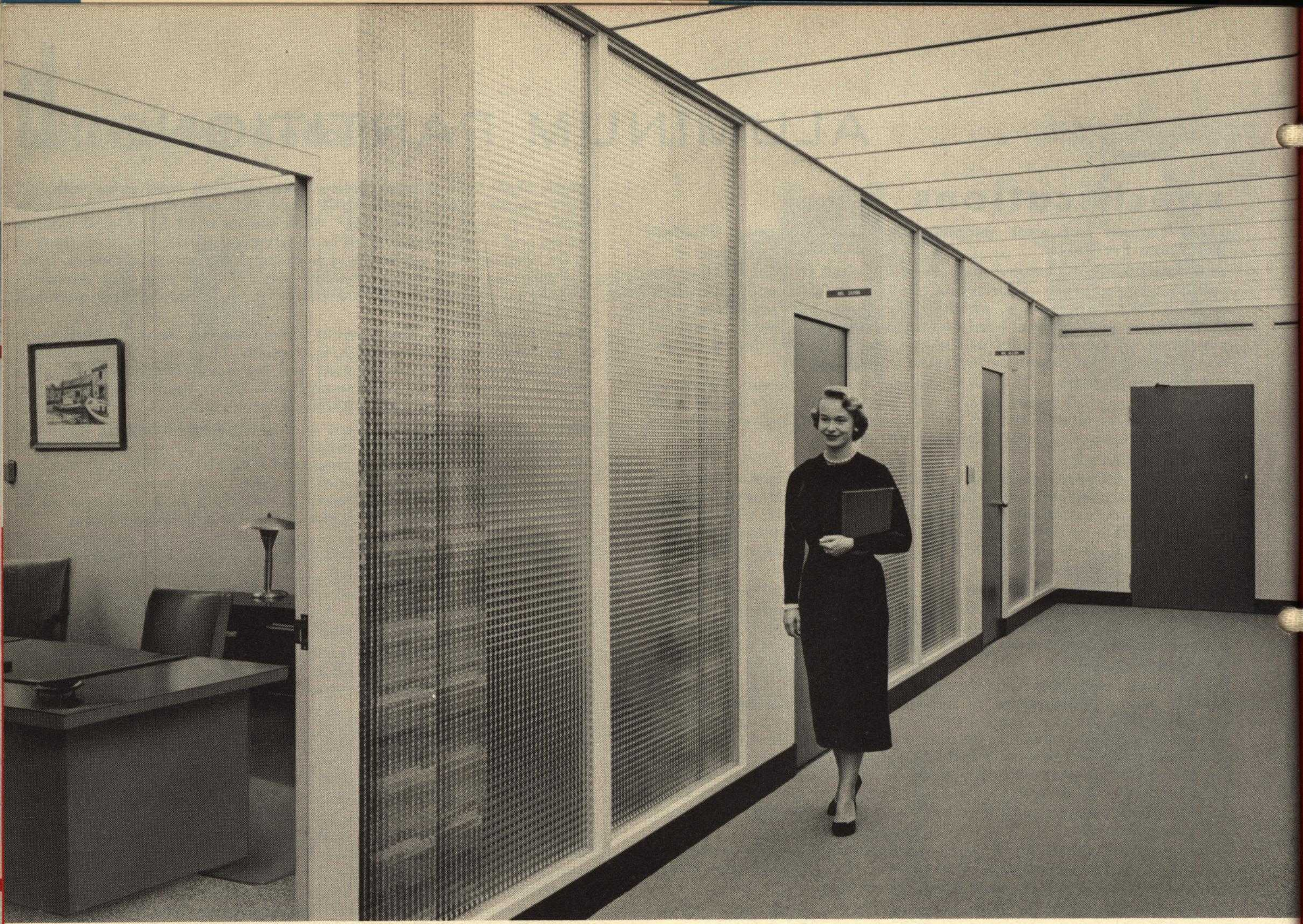
FLOOR AND CEILING CONNECTIONS—The post shall be anchored to the floor with telescopic anodized aluminum fitting, mounted with non-corrosive inserts and screws, permitting positive adjustment by means of "post contoured" floor shims. Inner post section shall interlock with continuous aluminum channel at ceiling by means of post extension.

BASE

Standard—Shall be removable, approximately 3¼″ high, formed of black rubber, reinforced with concealed steel channel. It shall fill space between bottom rail and floor, held in contact with floor by concealed springs. Base shall provide adjustment for variations in floor level. **Electrical**—(Optional at extra cost). Shall be approximately 3⅞″ high, formed of 18 gauge steel held in alignment by inner floor channel. Finished base section shall be 1¾″ thick. It shall fit below bottom rail and run continuous between door frames, or sectionally between posts. Base shall be adjustable for floor height variations and shall be removable from both sides for ready access to utility space.

ERECTION—Partitions shall be assembled and erected in a workmanlike manner, mounted over finished flooring. Joints between framing units shall be perfectly membered and close fitting, with vertical lines plumb and horizontal lines level. Hardware shall be thoroughly adjusted and in proper working condition.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes in panel finish shall be touched up neatly and fingermarks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.



State Mutual Life Assurance Company of America, Worcester, Mass. Hoyle, Doran & Berry, Architects.

MILLS *Flush Pilaster* PARTITIONS

Widely chosen for use in complete building interiors, including partitions, railings and wainscot. Furnished either in all steel or steel and glass panels, three inches thick.

Numbers indicated below refer to corresponding details on facing page.

ALL WELDED FLUSH PANELS

All units fabricated in widths of six inch increments, not exceeding 48″ in all steel panels and 60″ in steel and glass panels.

1. Panel units are all welded, the sturdiest construction possible for a movable wall.
2. 3″ thick batts of fiberglass will not settle.
3. Stiffeners, located 12″ on center, spot-welded 3″ on center.
4. Vertical channel, spot-welded 8″ on center.
5. Formed channel shoe.
6. Furniture stock panel sheet, thoroughly cleaned, filled and sanded.

PATENTED FLOOR LEVELING DEVICE

7. Plated micro-adjustable floor levelaer securely attached to floor under each post; makes adjustments to compensate for floor irregularities easy.

BOX GIRDER POST CLIPS

8. Plated tension and compression clips assure solid, strong connections and accurate spacing of panels. May be placed at any convenient height.

STURDY CEILING CONNECTIONS

9. Ceiling high partitions telescope into one-piece ceiling channel. (Cornice-high partitions are also available.)

SELF-SEATING GLASS MOULD

10. Intergral, self-seating glass mold ensures positive stop on glass at all times. Glass panels have mortise and tenon joints at transom rails and top rails.

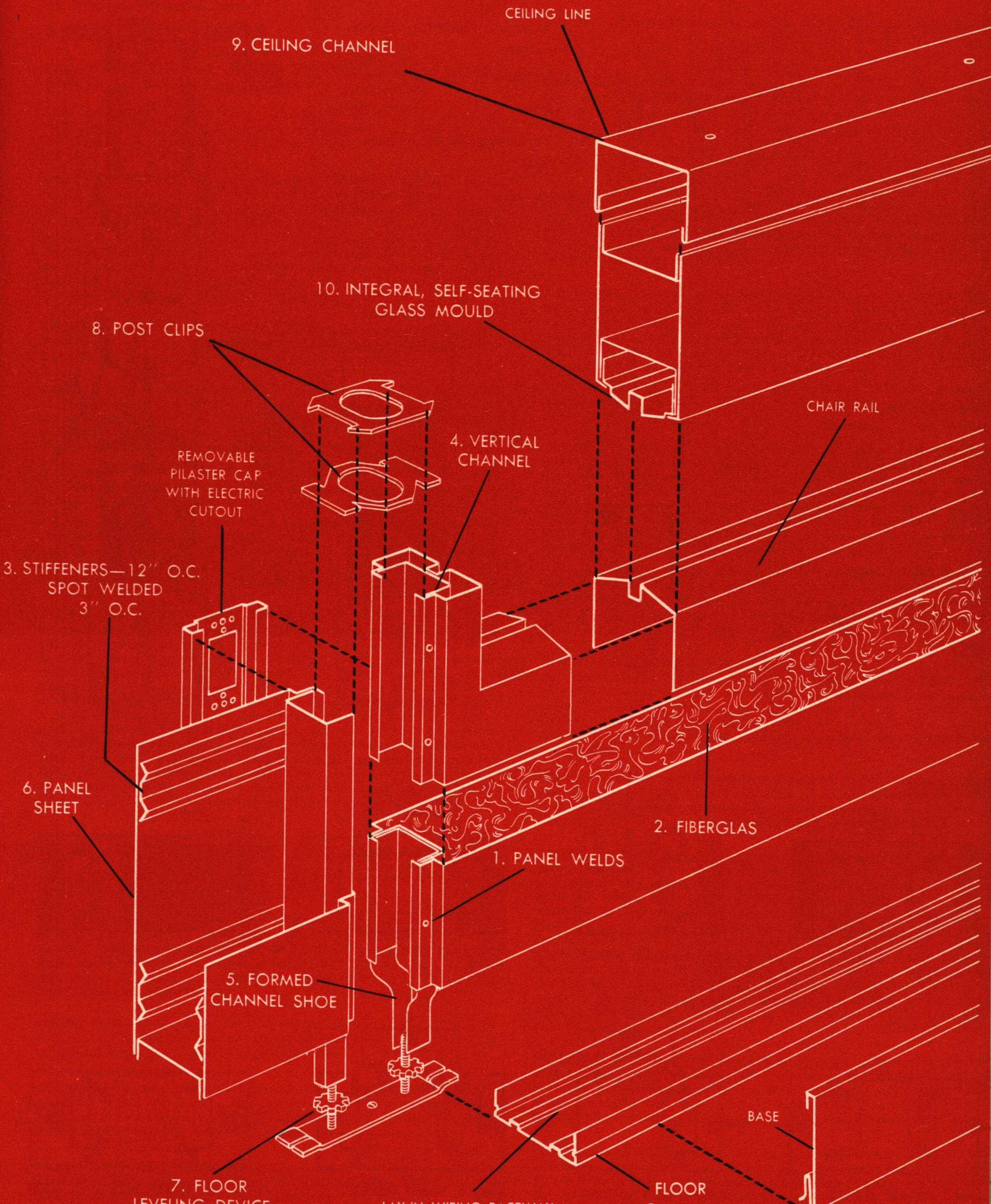
UNIVERSAL POST

$2\frac{3}{8}$″ space between panels, covered by post cap removable from either side. Designed to make possible future extensions of either two, three or four-way intersections without removing adjoining units.

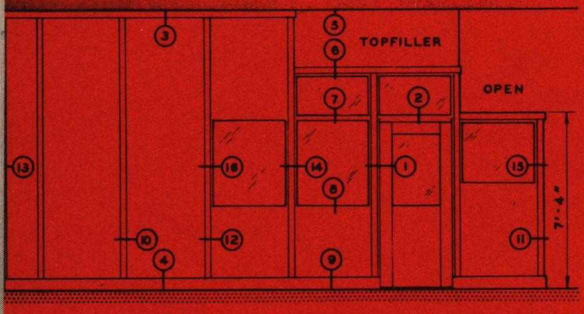
ADJUSTABLE DOOR FRAMES

Made as a complete unit, factory welded and finished. Frames are adjustable at each jamb to compensate for normal floor irregularities and still provide architectural lines that are truly horizontal and vertical. Since there is no cutting in the field, frames may be taken down and moved to a new location with all parts reusable. Frames have a continuous rubber lining at jambs and head.

FLUSH PILASTER PARTITIONS


CEILING LINE
9. CEILING CHANNEL
10. INTEGRAL, SELF-SEATING GLASS MOULD
8. POST CLIPS
CHAIR RAIL
4. VERTICAL CHANNEL
REMOVABLE PILASTER CAP WITH ELECTRIC CUTOUT
3. STIFFENERS—12" O.C. SPOT WELDED 3" O.C.
6. PANEL SHEET
2. FIBERGLAS
1. PANEL WELDS
5. FORMED CHANNEL SHOE
BASE
7. FLOOR LEVELING DEVICE
LAY-IN WIRING RACEWAY
FLOOR CHANNEL

quarter-sized details


3
5
6
TOPFILLER
7
2
OPEN
13
16
14
1
15
8
10
12
4
9
11
7'-4"

YPICAL ELEVATION - FLUSH PILASTER PARTITIONS

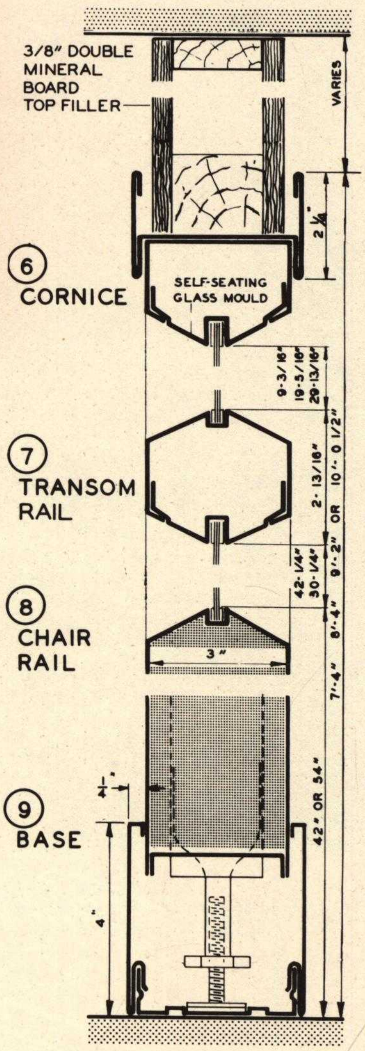
STANDARD PARTITION HEIGHTS

Ceiling High:	**7'4", 8'4" 9'2", 10'0½"**
Cornice High:	**7'4", 8'4" 9'2", 10'0½"**
Top Filler:	**Varies, Min. 6"**

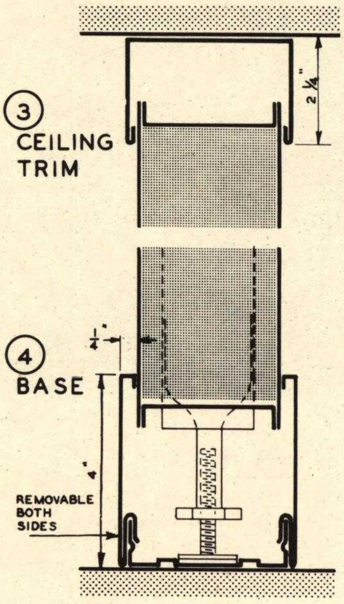
STANDARD PANEL WIDTHS

All Steel:	**6" to 48" in 6" increments**
Steel & Glass:	**18" to 60" in 6" increments**

STEEL & GLASS
CORNICE-HIGH WITH DMB TOPFILLER

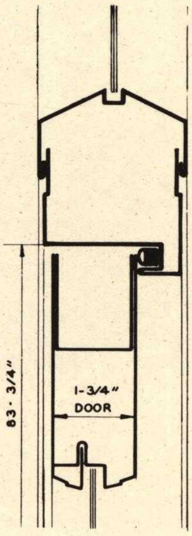

3/8" DOUBLE MINERAL BOARD TOP FILLER
VARIES
2 1/4"
6 CORNICE
SELF-SEATING GLASS MOULD
9-3/16"
19-5/16"
29-13/16"
7 TRANSOM RAIL
2'-13/16" OR 10'-0 1/2"
42-1/4"
30-1/4"
9'-2"
8 CHAIR RAIL
3"
8'-4"
7'-4"
9 BASE
1/4"
4"
42" OR 54"

ALL STEEL
CEILING HIGH


3 CEILING TRIM
2 1/4"
4 BASE
1/4"
4"
REMOVABLE BOTH SIDES

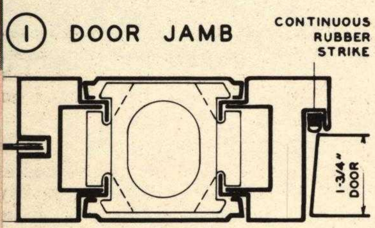
DOOR SECTION WIDTHS

oor Section:	**Single: 42" Pair: 78"**
oors:	**Single: 36" Pair: 2-36"**

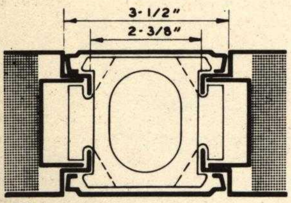

83-3/4"
1-3/4" DOOR

② DOOR HEAD

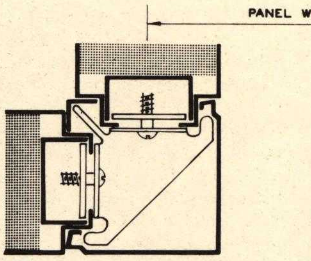
① DOOR JAMB


CONTINUOUS RUBBER STRIKE
1-3/4" DOOR

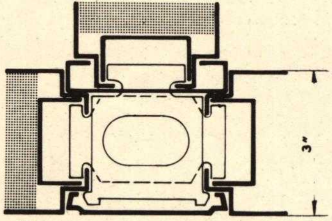
STEEL



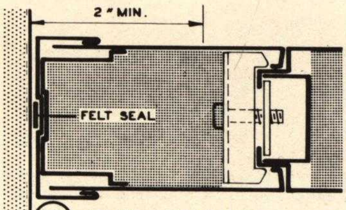
⑩ 1-WAY POST


PANEL WIDTH

⑪ 2-WAY POST

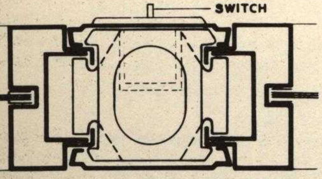


⑫ 3-WAY POST

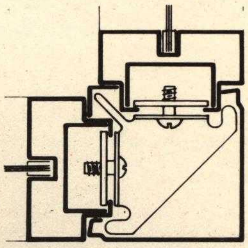

2" MIN.
FELT SEAL

⑬ END FILLER

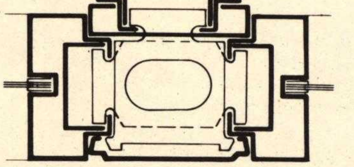
GLASS



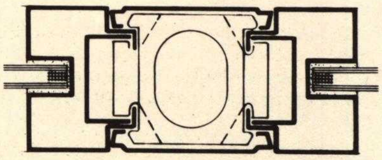
⑭ 1-WAY POST



⑮ 2-WAY POST



⑯ 3-WAY POST



⑭ W/INSULATED GLASS

FLUSH PILASTER PARTITIONS

specifications

TYPE—Furnish and erect complete The Mills Company Standard Flush Pilaster Movable Steel Partition.

SHOP DRAWINGS—Detail shop drawings indicating plan, elevation, hardware, finish, special conditions and construction shall be submitted to the architect for approval before actual fabrication is started.

UNITS—The partitions are to be 3″ thick, built in a standard cornice height of either 7′4″, 8′4″, 9′2″ or 10′0½″ to the top of the cornice trim as indicated. All units are to be shipped from the factory in one assembly from floor to cornice in widths of 6″ increments not to exceed 48″ in all steel and 60″ in steel and glass. All are to be interchangeable. All 42″ wide panels will interchange with 42″ door sections. Units shall be so assembled that future extensions of either 2–, 3–, or 4-way may be joined together without removing the adjacent units or material above the cornice line.

STEEL—All exposed steel shall be cold rolled, commercial quality furniture stock, properly annealed, process-leveled for smooth, clean surfaces. Gauges specified are United States Standard.

PANELS—Shall be flush with the face of post caps and shall be made of two sheets of No. 20 gauge furniture stock, spot-welded around entire perimeter to a steel frame. The sheets proper shall be reinforced with horizontal stiffeners spot-welded on 3″ centers and these stiffeners shall appear approximately every 12″ in the height of a sheet.

The space between the panel sheets shall be packed solid with an inorganic filler for further sound attenuation and backing to the sheets.

Glass openings to be provided in the upper portions of panels for either single glass or hermetically sealed double glass units as indicated in elevation. Top rails and transom rails of steel and glass panels shall be tenoned into mortises in side molds and spot-welded in place, forming a direct interlocking rigid joint.

DOORS AND FRAMES—Doors shall be 1¾″ thick with $\frac{3}{32}$″ clearance at jambs and heads. They shall be made of flush design with 5″ wide stiles flush with door panels, which shall be sound deadened. All doors to be reinforced for hinges, locks and door checks. (Hinge reinforcement 14 gauge pressed steel channel, lock reinforcement 16 gauge, check reinforcement 14 gauge.) The standard swing door with frame shall fit a 42″ wide section and the door shall be approximately 3′ by 7′. Glass mouldings to be secured without the use of screws. Frames shall be full adjustable type to compensate for varying floor levels and different floor coverings. Proper frame height shall be attained by telescoping head, with jambs being leveled independently for uneven floors by means of internal channels anchored securely to floor maintaining horizontal top lines and glass lines throughout the installation. Frames shall have continuous rubber gasket at head and jambs.

HARDWARE—Shall be interchangeable as to operation so called for in hardware schedule.

Doors shall be provided with two 5″ x 4″ loose pin ball bearing butt hinges.

BASE—Shall be No. 20 gauge, 4″ high with ¼″ projection. Shall be flat, sanitary design and run continuous along both sides of the partition without the obstruction of plinth blocks at the pilasters. Base to be vertically adjustable for normal irregularities in floor elevations. Base shall be removable from either side to provide ready access to utility spaces.

CEILING TRIM—(For partitions that extend to the ceiling.) Shall be made to run continuous over the top of all units to provide rigidity for horizontal bracing and provide a utility space.

CORNICE—(For partitions that do not extend to the ceiling.) Shall be made to run continuous over top of all units. Cornice to be No. 18 gauge rolled steel section providing maximum rigidity for horizontal bracing and also providing ample utility space.

WALL FILLERS—Shall be No. 18 gauge and telescopically adjustable. They shall have packed insulation of inorganic filler. There shall be no exposed raw steel edges or wall fastenings.

FLUSH PILASTER CAPS—Shall be No. 18 gauge rolled shape of flat ornamental inlay design. The surface of same to be flush with face of panels. Caps shall be removable for disassembly and wiring.

FLOOR CONNECTIONS—Shall be concealed by the base and fit below each post. They shall be securely fastened to the floor. They shall also be provided with plated vertical threaded studs and leveling wheels to permit fine adjustment to normal floor irregularities.

PANEL CONNECTIONS—The panels and door units proper are to be connected by means of plated No. 11 gauge compression and tension clips that properly align and hold units rigid. The clips are to be provided with a wiring hole to permit vertical wiring and shall also be provided with projections for "snapping on" flush pilaster post cap that is held in place without the use of screws, bolts, nuts, etc. These clips are to be designed to permit their application at any point in the height of the unit.

TOP FILLER—(Omit if no top filler required). Mineral board top fillers for partitions that extend to ceiling shall be applied over studs set 24″ on center. Top filler shall be double sheet mineral board ⅜″ thick. Joints to be buttered, finished smooth and covered with perforated tape to make joints invisible and prevent cracking. It shall be painted to match ceiling by partition contractor.

Steel top filler of No. 20 gauge for partitions that extend to the ceiling shall be double steel with single flush line joints. Top filler shall be removable.

FINISH—All partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust-inhibitor and properly dried before paint is applied. Partitions are to be permanently finished with an enamel prime and finish coat of alkyd-melamine base and properly baked to ensure durable quality, meeting performance specifications as published on page 4. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills Color No . . . . . or color to be as selected. *Specify color of base or doors if different from partition color.*

Grained finishes are to match approved samples. Finish shall consist of a prime coat and one finish coat of alkyd-melamine base, baked on and sanded smooth, after which a coat of graining ink shall be applied and baked. This shall be followed by a baked on clear varnish top coat of "eggshell" gloss.

GLASS AND GLAZING—(Omit if no glass required). Glass for metal partitions shall be furnished by partition contractor of design, quality and thickness as specified or called for on drawings. Glass shall be set with aluminum glazing strips. Glazing molds shall be an integral part of glass frame. They shall be self-seating and insure a positive stop on glass at all times. Loose glazing stops and exposed screws shall not be used.

SOUNDPROOFING SPECIFICATIONS—*Standard Flush Pilaster Partition has an average sound transmission loss of 36 db. If maximum soundproofing is required, partition runs should be indicated on plans as "soundproof" (See page 4) and the following specifications added:*

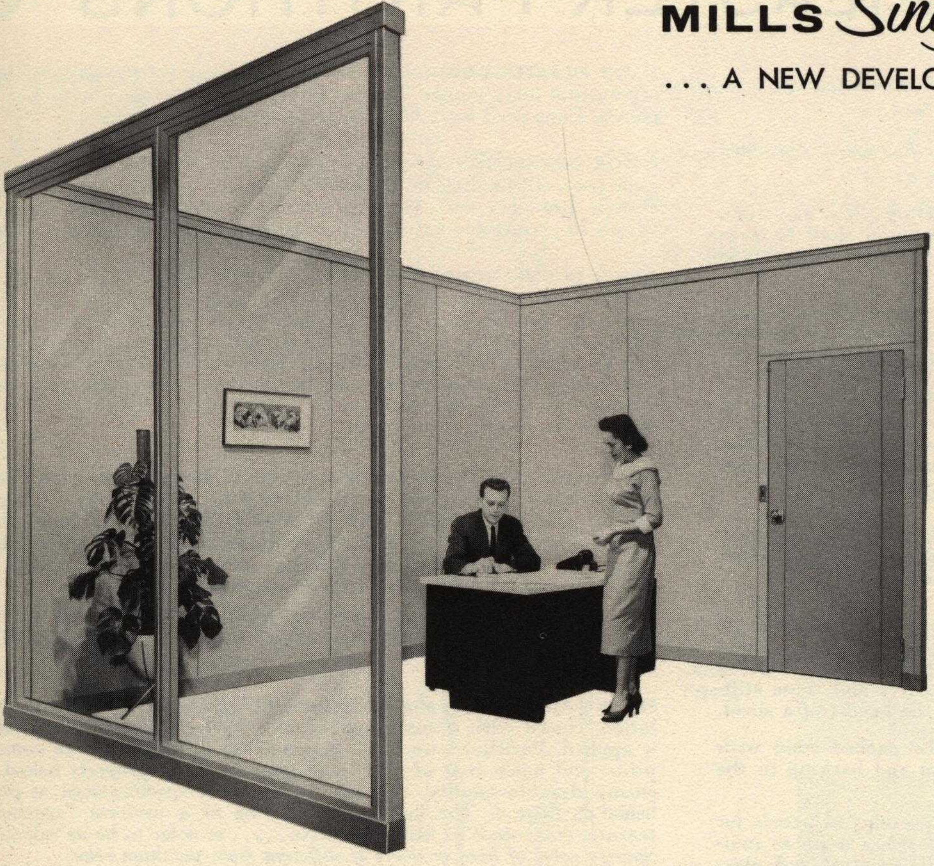
SOUNDPROOFING—Partition post connections, base and cornice and wall fillers shall be solidly packed with glass wool during erection of partitions. Point of contact of partition base with floor shall be sealed with felt which shall make continuous contact with the floor and with the base. Top filler (if any) shall be solidly packed with glass wool for its full height. Glazed partition runs shall be glazed with hermetically sealed double glass panels or separate lite of glass set approximately 2″ apart in felt with removable frame to permit easy cleaning of glass at any time. Hermetically sealed double glass panels shall have all four edges of the double glass lites well sealed with putty to prevent sound leakage around glass. Automatic felt drops shall be furnished at each door and door frames shall be lined with rubber.

ERECTION—Partitions shall be erected in a rigid manner, straight and plumb, with horizontal lines level. Units shall be aligned at all panel and door unit joints. Hardware shall be thoroughly adjusted and left in good working condition. Provide reinforcements to ceiling or bracing on runs exceeding 20′ in length unsupported by cross runs.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes shall be touched up neatly and finger marks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.

MILLS *Singline* PARTITIONS

. . . A NEW DEVELOPMENT OF PARTITION RESEARCH



POINTS FOR COMPARISON

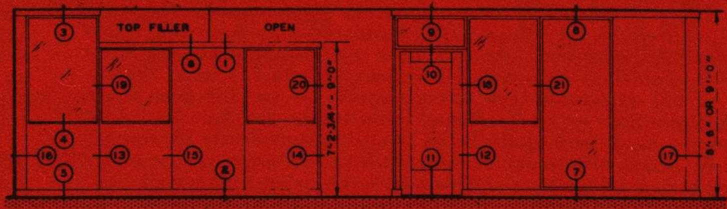
- Low initial cost—multiple savings in use.
- Full three inch thick partitions, flush aligned.
- Fiberglass—packed panels.
- For steel and glass panels—slender 2 ½″ posts, crisply profiled.
- Rugged panel interlock — assuring sturdy installation and allowing jacknife panel interchange without disturbing whole runs of partition.
- Ease of erection—simplicity in relocation—complete salvageability.
- Built-in wiring facilities and provisions for standard-sized electrical components.
- Double-cam interlocking floor shoe, assuring panel alignment and tight joints.
- Permanent, baked enamel finish.

STANDARD HEIGHTS

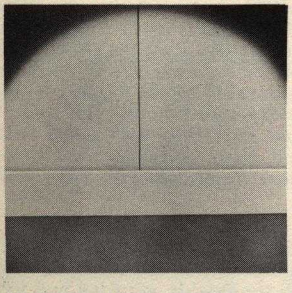
Ceiling High Partitions:	8′6″ & 9′0″
Cornice High Partitions:	7′2¾″ & 9′0″
Top Filler Over Cornice:	(If Required) Varies, Min. 6″

STANDARD WIDTHS

All Steel Panels:	6″ to 48″ on 6″ multiples
Steel & Glass Panels:	12″ to 60″ on 6″ multiples
Door Sections:	42″
Doors:	36″

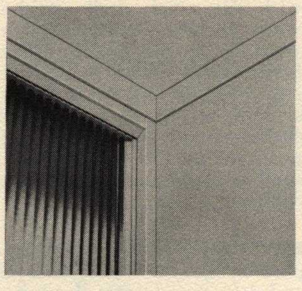


TYPICAL ELEVATIONS – SINGLINE PARTITIONS



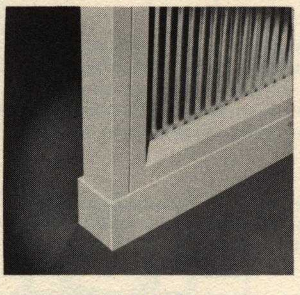
SINGLINE PANEL JOINTS

All panels abut with a single tight joint, from base to cornice, whether panels are all steel, steel-and-glass or full-height glass.



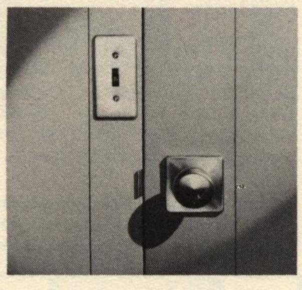
SIMPLE CEILING TRIM

2 ¼″ ceiling trim on floor-to-ceiling partitions allows for tight fit to ceiling. Panel-to-ceiling interlock assures straight partition runs.



STRAIGHT-LINE BASE

Adjustable for uneven floors, base is 4″ high, continuous, and wraps around finished ends. Utility space inside base allows for quick installation of wiring.

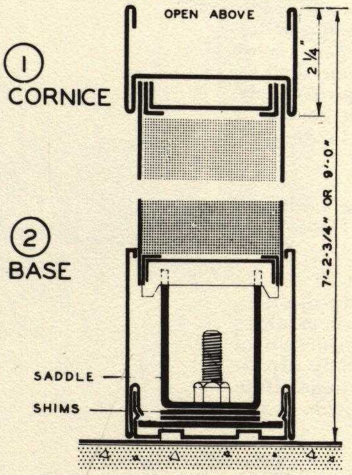


ADJUSTABLE DOOR FRAME

Variations in floor or floor covering heights are easily compensated for with adjustable door frame. Frame permits through floor-to-ceiling wiring.

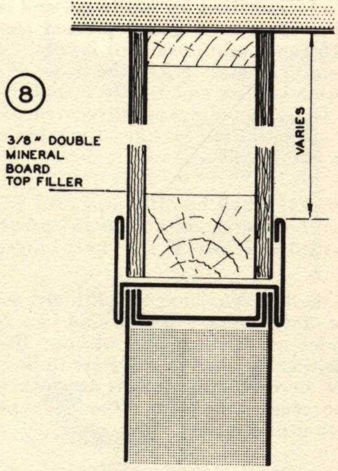
SINGLINE PARTITIONS

ALL STEEL



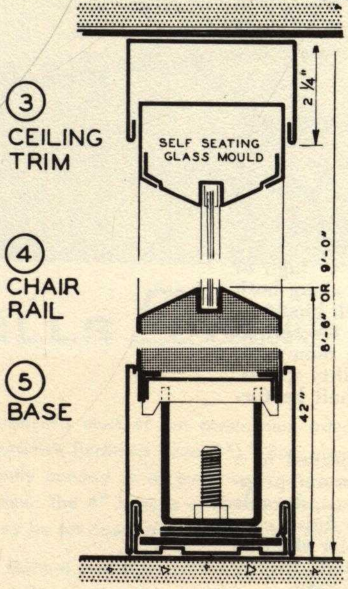
OPEN ABOVE
①
CORNICE
2 1/4"
②
BASE
7'-2-3/4" OR 9'-0"
SADDLE
SHIMS

TOP FILLER



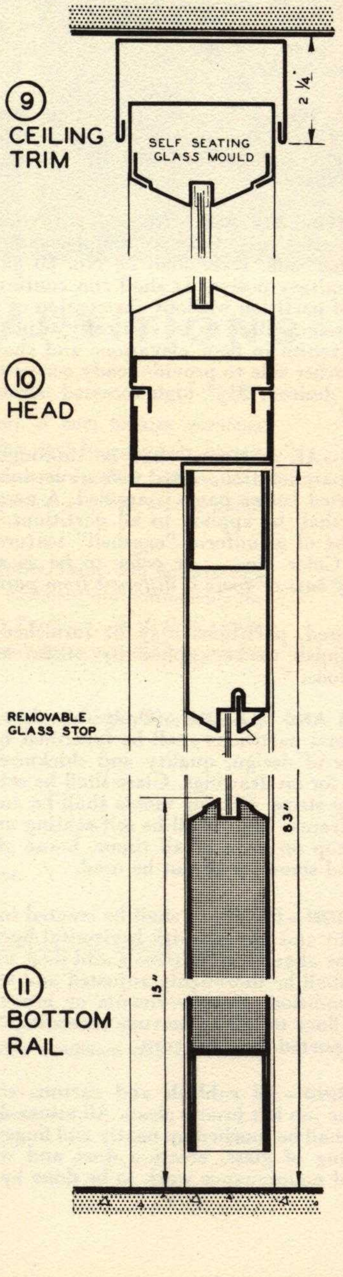
⑧
3/8" DOUBLE MINERAL BOARD TOP FILLER
VARIES

STEEL & GLASS



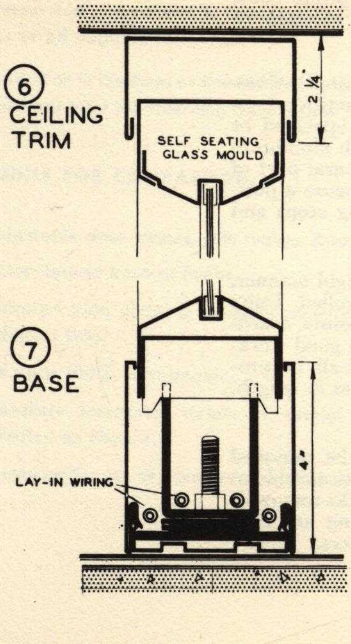
③
CEILING TRIM
SELF SEATING GLASS MOULD
2 1/4"
④
CHAIR RAIL
8'-6" OR 9'-0"
⑤
BASE
42"

DOOR SECTION



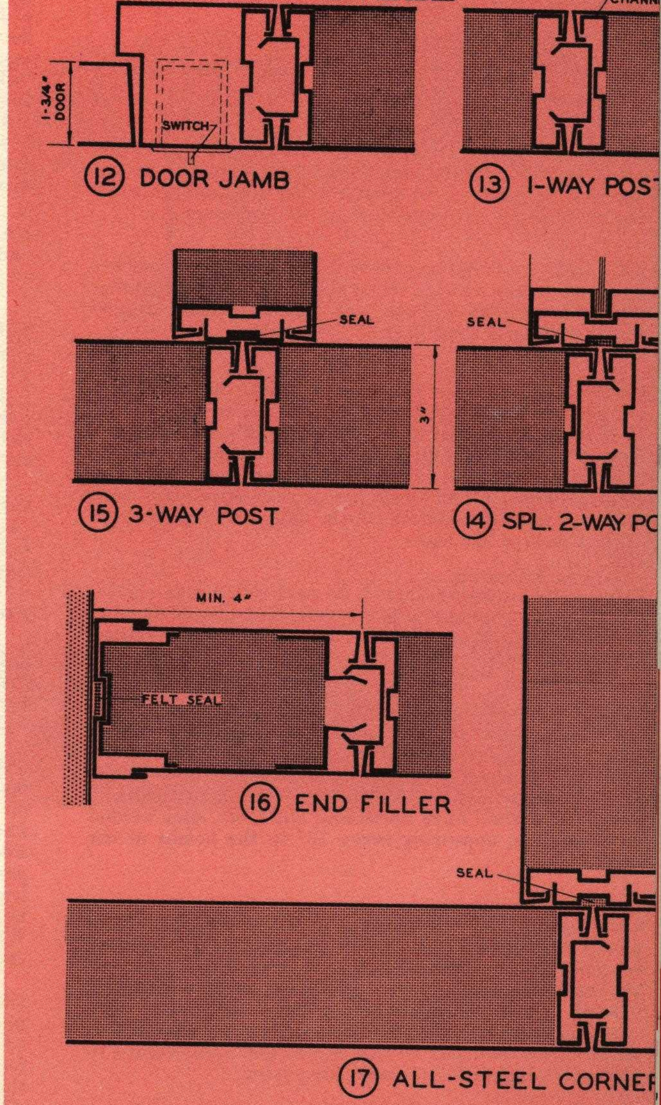
⑨
CEILING TRIM
SELF SEATING GLASS MOULD
2 1/4"
⑩
HEAD
REMOVABLE GLASS STOP
83"
15"
⑪
BOTTOM RAIL

ALL GLASS



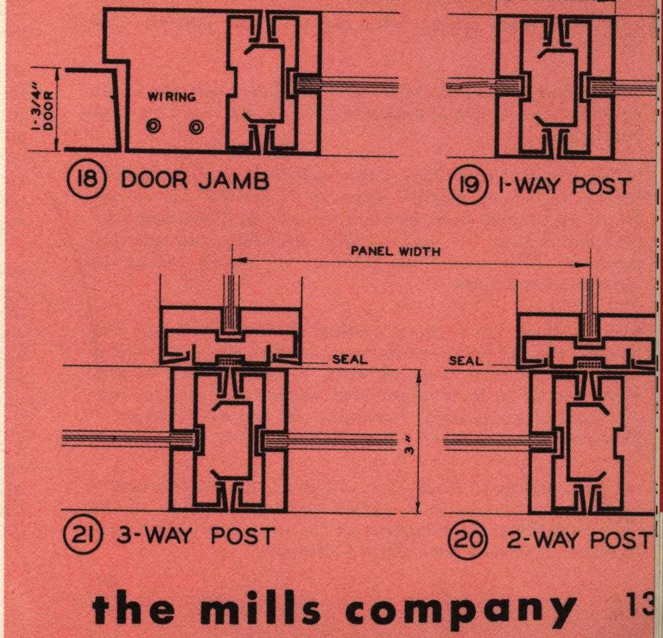
⑥
CEILING TRIM
SELF SEATING GLASS MOULD
2 1/4"
⑦
BASE
LAY-IN WIRING
4"

STEEL



VERTIC
CHANN
1-3/4" DOOR
SWITCH
⑫ DOOR JAMB
⑬ 1-WAY POST
SEAL
SEAL
3"
⑮ 3-WAY POST
⑭ SPL. 2-WAY PO
MIN. 4"
FELT SEAL
⑯ END FILLER
SEAL
⑰ ALL-STEEL CORNER

GLASS



1-3/4" DOOR
WIRING
⑱ DOOR JAMB
2-1/2"
⑲ 1-WAY POST
PANEL WIDTH
SEAL
SEAL
3"
㉑ 3-WAY POST
⑳ 2-WAY POST

SINGLINE PARTITIONS

specifications

TYPE—Furnish and erect complete The Mills Company standard Singline Movable Steel Partition.

SHOP DRAWINGS—Detailed shop drawings, indicating plans, elevations, hardware finish, special conditions and construction shall be submitted to the architect; fabrication shall begin after approval by the architect.

MOVABILITY—Partitions shall be designed to quickly accomodate any change in layout after original installation with economy and ease and without debris. All partitions and parts shall be 100% reusable.

UNITS—The partitions are to be 3″ thick, built in standard cornice heights of 7′ 2¾″ or 9′ 0″ or ceiling heights of 8′ 6″ or 9′ 0″. All units are to be shipped from the factory in one assembly from floor to cornice in widths of 6″ increments, not to exceed 48″ in all steel and 60″ in steel and glass. All 42″ wide panels will interchange with 42″ door sections and all panels shall interchange with other panels of like size.

STEEL—All exposed steel shall be cold rolled, commercial quality furniture stock, properly annealed, process-leveled for smooth, clean surfaces. Gauges specified are United States Standard.

PANELS—All-steel panels shall be flush, 3″ thick, factory assembled. Space between panel sheets shall be packed with glass wool for sound control and backing to the sheets. Panel sheet vertical ends shall be formed to butt adjacent panels with a single line joint. Inner faces of panel sheets shall have horizontal stiffeners, spot welded on 3″ centers, appearing every 12″ in the height of the sheet.

Glass openings to be provided in the upper portions of panels as indicated in elevation. All-glass partitions shall be glazed full height within a steel panel frame. Vertical glazing posts shall be No. 20 gauge steel with edges formed to butt adjacent panels same as all-steel. Top rails and transom rails of steel-and-glass panels shall be tenoned into mortises in side molds and spot-welded in place, forming a direct interlocking joint.

WALL FILLERS—Wall fillers shall be used for termination of partition runs at a fixed wall or column. They shall be double steel sheets fabricated to give a finished appearance similar to partition panels and shall be telescopically adjustable into sealed wall channel and packed with glass wool.

TOP FILLERS—Top fillers shall be used to close the space between the cornice and the ceiling for cornice high partitions.

Mineral board top filler, when specified, shall be double sheets, ⅜″ thick applied over studs set 24″ on center. Joints to be buttered, finished smooth and covered with perforated tape to make joints invisible and prevent cracking. Fillers shall be painted to match ceiling by partition contractor.

POSTS—Each panel inner vertical channel shall run continuous the full height of the panel and shall wedge tightly with double cam interlock into 11 gauge floor saddle. Floor saddle to be levelled with shims to adjust for normal floor irregularities. Fastenings at top and bottom of panel connections shall assure a tight joint.

An inner spline of 18-gauge steel shall run the full height of the partition at each panel intersection. For ceiling high partitions, an extension of the inner post alignment shall be adjustable to ceiling variances.

DOORS AND FRAMES—Doors shall be 1¾″ thick with 3/32″ clearance at jambs and heads. They shall be made of flush design and shall be packed with glass wool. All doors to be mortised for hardware and reinforced as follows: For hinges: 14 gauge pressed steel channels; for locks: 16 gauge reinforcement; for checks: 14 gauge reinforcement. The standard swing door with frame shall fit a 42″ wide section and the door shall be approximately 3′ x 7′. Glass mouldings to be secured without the use of screws. Frames shall be full adjustable type to compensate for varying floor levels.

HARDWARE—Shall be Mills standard Singline hardware, and shall be interchangeable as to operation. Doors shall be provided with two 5″ x 4″ butt hinges.

BASE—Shall be No. 20 gauge, 4″ high with ¼″ projection, shall be flat, sanitary design and run continuous along both sides of the partition without the obstruction of plinth blocks at panel joints. Base to be vertically adjustable for normal irregularities in floor elevations. Base shall be removable from either side to provide ready access to utility spaces.

CORNICE—(For partitions that do not extend to ceiling). Shall be made to run continuous over top of all units. Cornice to be rolled steel section providing maximum rigidity for horizontal bracing and also providing ample utility space. Cornice shall be securely fastened at each panel vertical.

CEILING TRIM—(For partitions that extend to ceiling). Shall be made to run continuous over the top of all units to provide rigidity for horizontal bracing and provide a utility space.

RECESSED BASE AND CORNICE—(Available when specified at extra cost) Base and cornice shall be recessed ½″ on either side. Base shall be No. 20 gauge, 4″ high of flat, sanitary design. It shall run continuous along both sides of partition without obstruction of plinth blocks at panel joints. Base to be vertically adjustable for normal irregularities in floor elevations and shall be removable from either side to provide ready access to utility spaces. When desired, 2½″ high recessed cornice shall be furnished.

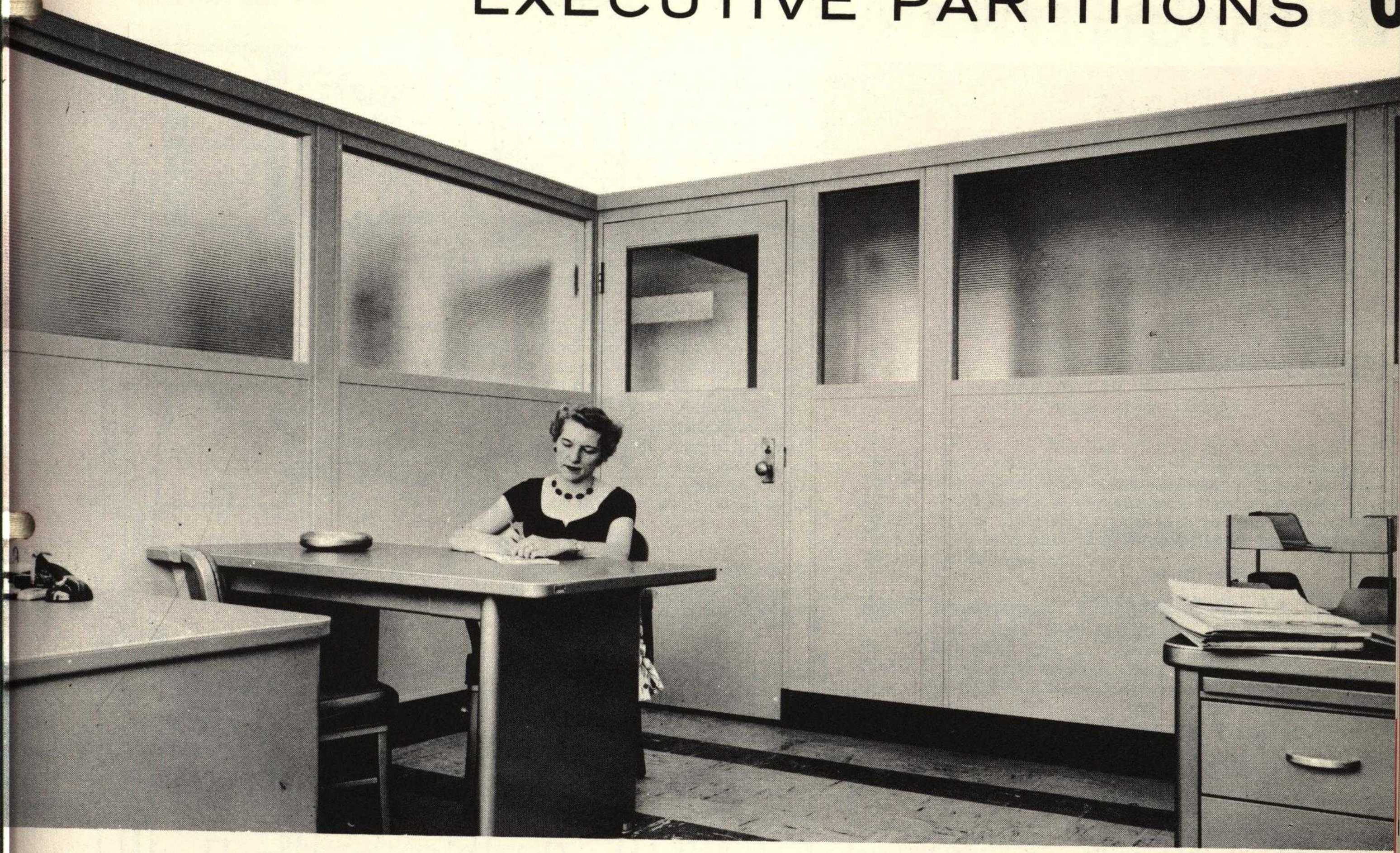
FINISH—All partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust-inhibitor and properly dried before paint is applied. A permanent, durable finish shall be applied to all partitions. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills Color No.....or color to be as selected. *Specify color of base or doors if different from partition color.*

If desired, partitions may be furnished in prime coat, final finish to be applied by others after erection of partitions.

GLASS AND GLAZING—(Omit if no glass required). Glass for metal partitions shall be furnished by partition contractor of design, quality and thickness as specified or called for on drawings. Glass shall be set with aluminum glazing strips. Glazing molds shall be an integral part of glass frame. They shall be self-seating and insure a positive stop on glass at all times. Loose glazing stops and exposed screws shall not be used.

ERECTION—Partitions shall be erected in a rigid manner, straight and plumb, with horizontal lines levelled. Units shall be aligned at all panels and door unit joints. Hardware shall be thoroughly adjusted and left in good working condition. Reinforcements or bracing shall be provided floor to ceiling on runs exceeding 20 feet in length, unsupported by cross runs.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes shall be touched up neatly and fingermarks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.



MILLS *Executive* PARTITIONS

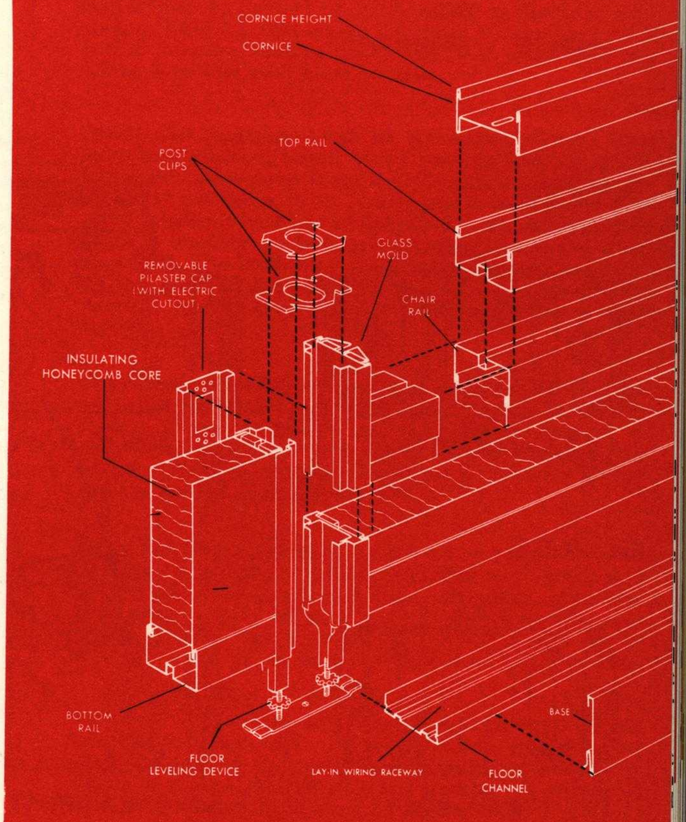
Possessing most of the construction advantages of flush pilaster partitions. Executive Partitions have 2 ¾″ thick panels, with steel facing sheets, permanently bonded to an insulating honeycomb core and encased within a steel frame. The 4″ base is continuous, without obstruction of plinth blocks; panels may be cut down, if required, in the field.

In thermal insulation quality, load bearing capacity, finish, and lightproofing and dustproofing characteristics, Mills Executive Partitions are substantially the same as Mills Flush Pilaster Partitions. Executive Partitions, all steel to ceiling without doors or packing in base, cornice and posts have a sound transmission loss of 36 decibels.

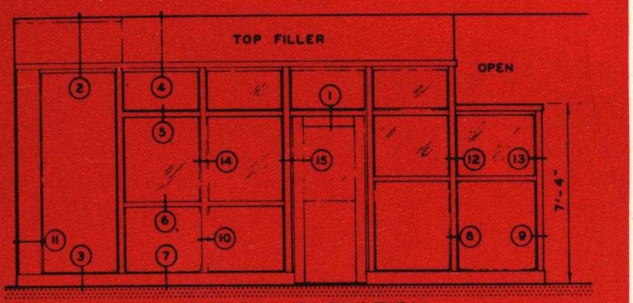
In addition to the items outlined in the exploded view at the right, Mills Executive Partitions offer the following advantages:

POINTS FOR COMPARISON:

- Adjustable door frames, with rubber door strikes.
- Wrap-around base at jambs.
- Universal post, allowing complete panel interchangeability without disturbing adjacent units.
- All parts 100% salvageable.
- Complete accessories, details for special building conditions and hardware, as listed on Page 4.
- Provisions for use of standard electrical components.


CORNICE HEIGHT
CORNICE
TOP RAIL
POST CLIPS
GLASS MOLD
REMOVABLE PILASTER CAP (WITH ELECTRIC CUTOUT)
CHAIR RAIL
INSULATING HONEYCOMB CORE
BOTTOM RAIL
BASE
FLOOR LEVELING DEVICE
LAY-IN WIRING RACEWAY
FLOOR CHANNEL

quarter-sized details


TOP FILLER
OPEN
②
④
①
⑤
⑭
⑮
⑫
⑬
⑥
⑩
⑦
⑪
③
⑧
⑨
7'-4"

TYPICAL ELEVATION
EXECUTIVE PARTITIONS

STANDARD PARTITION HEIGHTS

Cornice High:

7'4", 8'4", 9'2½" and 10'0½"

Topfiller Over Cornice:

(If Required)

Varies, Minimum 6"

STANDARD PANEL WIDTHS

All Steel:

6" to 48" in 6" increments

Steel and Glass:

18" to 36" in 6" increments

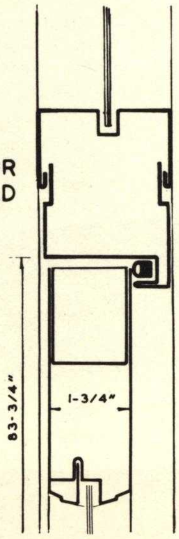
Door Sections:

Single: 42" Double: 78"

Door Widths:

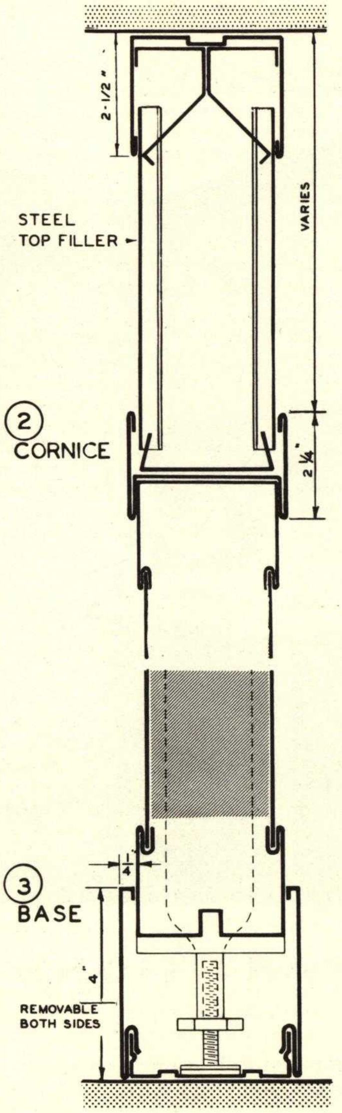
Single: 36" Double: 2-36"

① DOOR HEAD



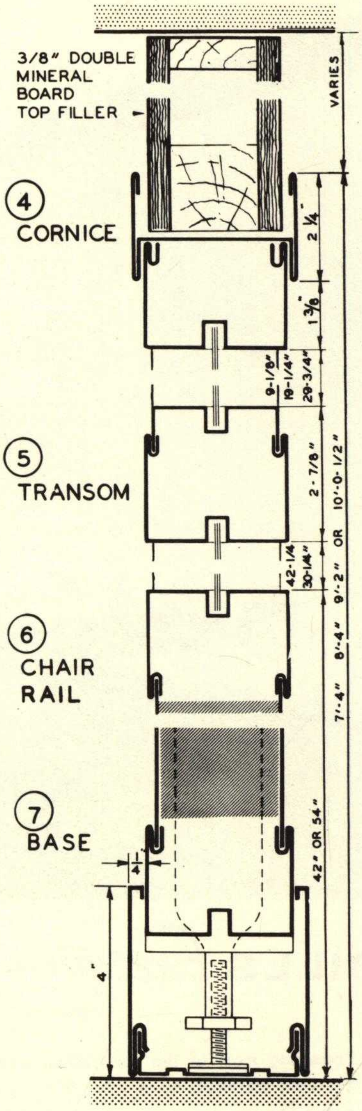
ALL STEEL

WITH STEEL TOP FILLER

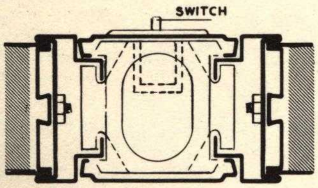

2-1/2"
VARIES
STEEL TOP FILLER
② CORNICE
2¼"
③ BASE
4
4"
REMOVABLE BOTH SIDES

STEEL & GLASS

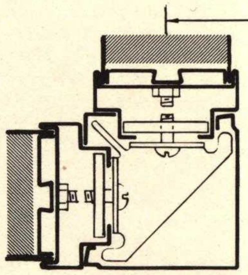
WITH DMB TOP FILLER


3/8" DOUBLE MINERAL BOARD TOP FILLER
VARIES
④ CORNICE
2¼
1⅜
9-1/8"
19-1/4"
29-3/4"
⑤ TRANSOM
2-7/8"
10'-0-1/2"
OR
9'-2"
42-1/4
30-1/4
8'-4"
7'-4"
⑥ CHAIR RAIL
⑦ BASE
42" OR 54"
4
4"

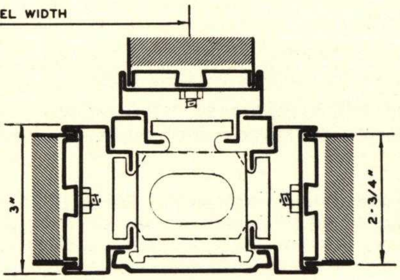
STEEL



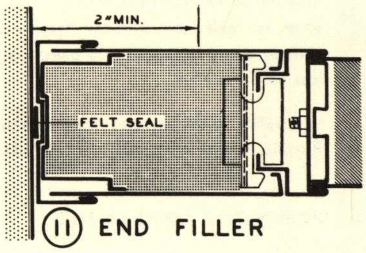
⑧ 1-WAY POST


PANEL WIDTH

⑨ 2-WAY POST

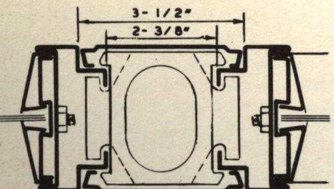


⑩ 3-WAY POST

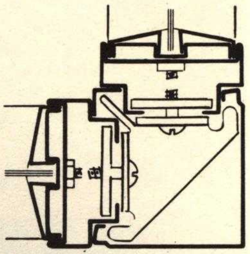

2" MIN.
FELT SEAL

⑪ END FILLER

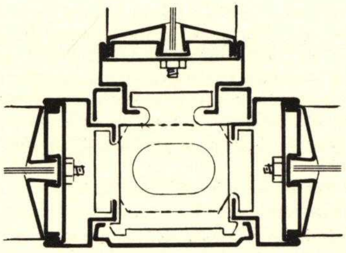
GLASS



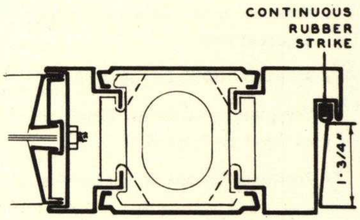
⑫ 1-WAY POST



⑬ 2-WAY POST



⑭ 3-WAY POST


CONTINUOUS RUBBER STRIKE
1-3/4"

⑮ DOOR JAMB

specifications

TYPE—Furnish and erect complete The Mills Company Standard Executive Movable Steel Partition.

SHOP DRAWINGS—Detailed shop drawings indicating plans, elevations, hardware, finish, special conditions and construction shall be submitted to the architect for approval before actual fabrication is started.

UNITS— The partitions are to be 3″ thick, with panels 2¾″ thick built in a standard cornice height of either 7′ 4″, 8′ 4″, 9′ 2″ or 10′ 0½″ to the top of the cornice as indicated. All units are to be shipped from the factory in one assembly from floor to cornice in widths of 6″ increments not to exceed 48″ in all steel and 60″ in steel and glass. All are to be interchangeable. All 42″ wide panels will interchange with 42″ wide door sections. Units shall be so assembled that future extensions of either 2–, 3–, or 4-way may be joined together without removing the adjacent units or material above the cornice line.

STEEL—All exposed steel shall be cold rolled, commercial quality furniture stock, properly annealed, process leveled for smooth, clean surfaces. Gauges specified are United States Standard.

PANELS—Shall be 2¾″ thick, fabricated of commercial quality steel permanently bonded to a honeycomb core with aircraft adhesives, encased in a 3″ steel framing around entire perimeter. Panels shall be factory assembled by means of studs welded to all horizontal sections, permitting cutting down in the field. Glass openings to be provided in the upper portion of panels as indicated on the elevations. If desired panels can be furnished at no additional cost with Fiberglas and stiffeners same as Flush Pilaster partition. See page 11.

RAILS—Bottom, chair and top rails shall be made from No. 18 gauge, 3″ rolled steel sections with glass grooves permitting complete interchangeability.

POSTS—Shall be 3″ rolled steel section, No. 18 gauge. Post design shall permit future extension of 2-, 3-, or 4-way without removing adjacent units or material above cornice.

PANEL CONNECTIONS—The panels and door units proper are to be connected by means of plated No. 11 gauge compression and tension clips that properly align and hold units rigid. The clips are to be provided with a wiring hole to permit vertical wiring and shall also be provided with projections for "snapping on" flush pilaster post cap that is held in place without the use of screws, bolts, nuts, etc. These clips are to be designed to permit their application at any point in the height of the unit.

DOORS AND FRAMES— Doors shall be 1¾″ thick with 3/32″ clearance at jambs and heads. They shall be made of flush design with 5″ wide stiles flush with door panels, which shall be sound deadened. All doors to be reinforced for hinges, locks and door checks. (Hinge reinforcement 14 gauge pressed steel channels, lock reinforcement 16 gauge, check reinforcement 14 gauge.) The standard swing door with frame shall fit a 42″ wide section and the door shall be approximately 3′ by 7′. Glass mouldings to be secured without the use of screws. Frames of 18 gauge shall be adjustable type to compensate for varying floor levels and different floor coverings. Proper frame height shall be attained by telescoping head, with jambs being leveled independently for uneven floors by means of internal channels anchored securely to floor maintaining horizontal top lines and glass lines throughout the installation. Frames shall have continuous rubber gasket at head and jambs.

HARDWARE—Shall be interchangeable as to operation as called for in hardware schedule. Doors shall be provided with two 5″ x 4″ loose pin, ball bearing butt hinges.

CORNICE—(For partitions that do not extend to the ceiling). Shall be made to run continuous over top of all units. Cornice to be No. 18 gauge rolled steel section providing maximum rigidity for horizontal bracing and also providing ample utility space.

CEILING TRIM— (For partitions that extend to the ceiling). Shall be made to run continuous over the top of all units to provide rigidity for horizontal bracing and provide a utility space.

FLUSH PILASTER CAPS—Shall be No. 18 gauge rolled shape of flat ornamental inlay design. The surface of same to be flush with face of posts. Caps shall be removable for disassembly and wiring.

BASE—Shall be No. 20 gauge, 4″ high with ¼″ projection. Shall be flat, sanitary design and run continuous along entire bottom of both sides of the partition without obstruction of plinth blocks at the pilasters. Base to be vertically adjustable for normal irregularities in floor elevations. Base shall be removable from either side to provide ready access to utility spaces.

FLOOR CONNECTIONS—Shall be concealed by the base and fit below each post. They shall be securely fastened to the floor. They shall also be provided with plated vertical threaded studs and leveling wheels to permit fine adjustment to normal floor irregularities.

WALL FILLERS—Shall be No. 18 gauge and telescopically adjustable. All raw steel edges and wall fastenings shall be concealed.

TOP FILLER—(Omit if no top filler required). Mineral board top fillers for partitions that extend to ceiling shall be applied over studs set 24″ on center. Top filler shall be double sheet mineral board ⅜″ thick. Joints to be buttered with compound used for that purpose and covered with perforated tape to make joints invisible and prevent cracking. It shall be painted to match ceiling by partition contractor. Steel top filler of No. 20 gauge for partitions that extend to ceiling shall be double steel with single flush line joints. Top filler shall be removable.

FINISH—All partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust-inhibitor and properly dried before paint is applied. Partitions are to be permanently finished with an enamel prime and finish coat of alkyd-melamine base and properly baked to ensure durable quality, meeting performance specifications as published on page 4. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills Color No. . . . . or color to be selected. Specify color of base or doors if different from partition color.

GLASS AND GLAZING—(Omit if no glass required). Glass for metal partitions shall be furnished by partition contractor of design, quality and thickness as specified or called for on drawings. Glass shall be set with neutral gray or tan vinyl glazing strips. Glazing stops shall be applied without the use of screws or bolts.

ERECTION—Partitions shall be erected in a rigid manner, straight and plumb, with horizontal lines level. Units shall be aligned at all panel and door unit joints. Hardware shall be thoroughly adjusted and left in good working condition. Provide reinforcements to ceiling or bracing on runs exceeding 20′ in length unsupported by cross runs.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes shall be touched up neatly and finger marks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.

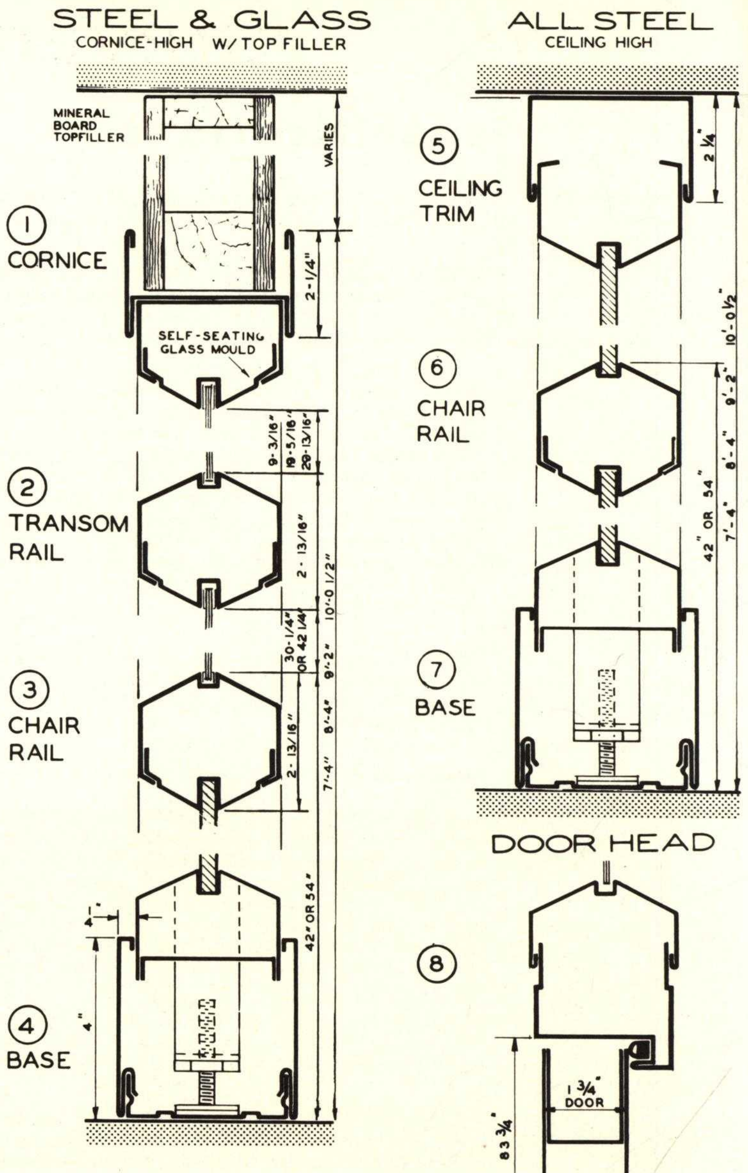
MILLS *Universal* PARTITIONS

As the name implies, an economical partition with a wide range of uses. Adaptable to many general and private office areas, especially useful for moderate cost space division.

OINTS FOR COMPARISON:

- **Modern, clean lines without excess moldings.**
- **Universal post allowing complete flexibility in rearrangement. Extension of post in 2, 3 or 4 ways without distrubing adjacent panels.**
- **Provisions for wiring in cornice, post and base, allowing use of standard electrical components.**
- **Tension and compression post clips provide box girder panel support.**
- **Trim 4″ base, removable from both sides for utility access.**

quarter-sized details



specifications

TYPE—Furnish and erect complete The Mills Company Standard Universal Movable Steel Partition.

SHOP DRAWINGS—Detailed shop drawings indicating plans, elevations, hardware, finish, special conditions and construction shall be submitted to the architect for approval before actual fabrication is started.

UNITS—The partitions are to be 3″ thick, with panels 3/8″ thick, built in a standard cornice height of either 7′4″, 8′4″, 9′2½″ or 10′0½″ to the top of the cornice as indicated. All units are to be shipped from the factory in one assembly from floor to cornice in widths of 6″ multiples not to exceed 48″ in all steel and 60″ in steel and glass. All are to be interchangeable. All 42″ wide panels will interchange with 42″ wide door sections. Units shall be so assembled that future extensions of either 2–, 3–, or 4-way may be joined together without removing the adjacent units or material above the cornice line.

STEEL—All exposed steel shall be cold rolled, commercial quality furniture stock, properly annealed, process-leveled for smooth, clean surfaces. Gauges specified are United States standard.

PANELS—Shall be 3/8″ thick, fabricated of two commercial quality steel sheets, permanently bonded to a 5/16″ inorganic core with aircraft adhesives, encased in a 3″ steel framing around entire perimeter. Panels shall be factory-assembled by means of studs welded to all horizontal sections, permitting cutting down in the field. Glass openings to be provided in the upper portion of panels as indicated on the elevations. If desired, panels can be furnished (at no additional cost) with fiberglass and stiffeners same as Flush Pilaster partition. See page 11.

RAILS—Bottom, chair and top rails shall be made from No. 20 gauge, 3″ rolled steel sections, with glass grooves.

POSTS—Shall be 3″ rolled steel section, No. 20 gauge. Post design shall permit future extension of 2–, 3– or 4-way without removing adjacent units or material above cornice.

PANEL CONNECTIONS—The panels and door units proper are to be connected by means of plated No. 11 gauge compression and tension clips that properly align and hold units rigid. The clips are to be provided with a wiring hole to permit vertical wiring and shall also be provided with projections for "snapping on" flush pilaster post cap that is held in place without the use of screws, bolts, nuts, etc. These clips are to be designed to permit their application at any point in the height of the unit.

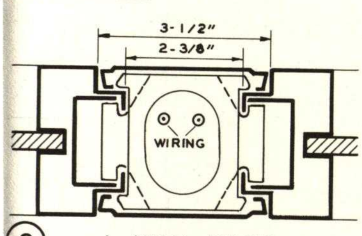
FLUSH PILASTER CAPS—Shall be No. 18 gauge rolled shape of flat ornamental inlay design. The surface of same to be flush with face of posts. Caps shall be removable for disassembly and wiring.

DOORS AND FRAMES—Doors shall be 1¾″ thick with 3/32″ clearance at jambs and heads. They shall be made of flush design with 5″ wide stiles flush with door panels, which shall be sound deadened. All doors to be reinforced for hinges, locks and door checks. (Hinge reinforcement 14 gauge pressed steel channel, lock reinforcement 16 gauge, check reinforcement 14 gauge). The standard swing door with frame shall fit a 42″ wide section and the door shall be approximately 3′ by 7′. Glass mouldings to be secured without the use of screws. Frames shall be full adjustable type to compensate for varying floor levels and different floor coverings. Proper frame height shall be attained by telescoping head, with jambs being leveled independently for uneven floors by means of internal channels anchored securely to floor maintaining horizontal top lines and glass lines throughout the installation. Frames shall have continuous rubber gasket at head and jambs.

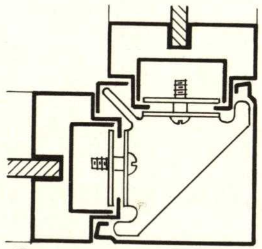
HARDWARE—Shall be interchangeable as to operation as called for in hardware schedule. Doors shall be provided with two 5″ x 4″ loose pin, ball bearing butt hinges.

UNIVERSAL PARTITIONS

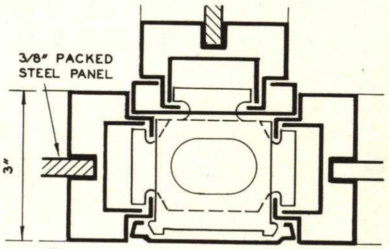
STEEL



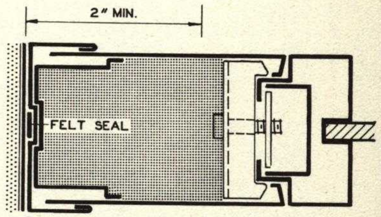
⑨ 1- WAY POST



⑩ 2- WAY POST

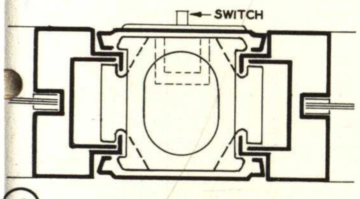


⑪ 3-WAY POST

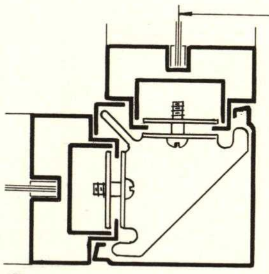


⑫ END FILLER

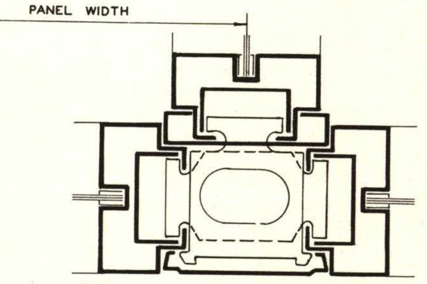
GLASS



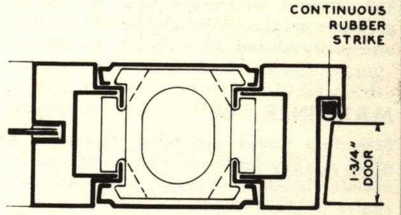
⑬ 1- WAY POST



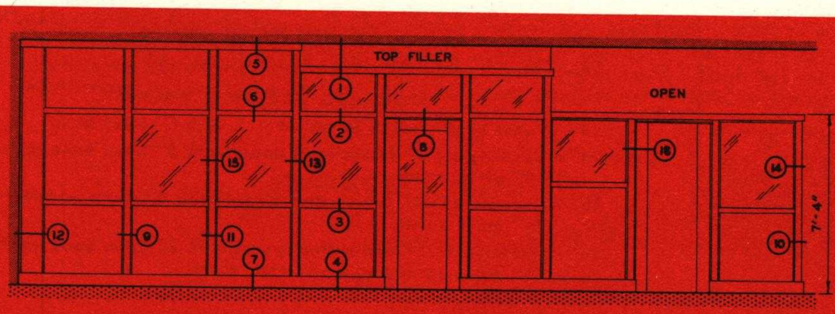
⑭ 2- WAY POST



⑮ 3-WAY POST



⑯ DOOR JAMB



TYPICAL ELEVATION - UNIVERSAL PARTITIONS

STANDARD PARTITION HEIGHTS

Ceiling High:	7'4", 8'4", 9'2½", 10'0½"
Cornice High:	7'4", 8'4", 9'2½", 10'0½"
Top Filler Over Cornice:	(If Required) Varies, Min. 6"

STANDARD PANEL WIDTHS

All Steel:	6" to 48" in 6" increments
Steel & Glass:	18" to 48" in 6" increments
Door Sections:	Single: 42"; Pair: 78"
Doors:	Single: 36"; Pair: 2-36"

specifications (Cont'd.)

CORNICE—(For partitions that do not extend to the ceiling.) Shall be made to run continuous over top of all units. Cornice to be No. 18 gauge rolled steel section providing maximum rigidity for horizontal bracing and also providing ample utility space.

CEILING TRIM—(For partitions that extend to the ceiling.) Shall be made to run continuous over the top of all units to provide rigidity for horizontal bracing and provide utility space.

BASE—Shall be No. 20 gauge, 4" high with ¼" projection. Shall be flat, sanitary design and run continuous along both sides of the partition without the obstruction of plinth blocks at the pilasters. Base to be vertically adjustable for normal irregularities in floor elevations. Base shall be removable from either side to provide ready access to utility spaces.

TOP FILLER—(Omit if no top filler required). Mineral board top fillers for partitions that extend to ceiling shall be applied over studs set 24" on center. Top filler shall be double sheet mineral board ⅜" thick. Joints to be buttered with compound used for that purpose and covered with perforated tape to make joints invisible and prevent cracking. It shall be painted to match ceiling by partition contractor. Steel top filler of No. 20 gauge for partitions that extend to the ceiling shall be double steel with single flush line joints. Top filler shall be removable.

WALL FILLERS—Shall be No. 18 gauge and telescopically adjustable. All raw steel edges and wall fastenings shall be concealed.

FLOOR CONNECTIONS—Shall be concealed by the base and fit below each post. They shall be securely fastened to the floor. They shall also be provided with plated vertical threaded studs and leveling wheels to permit fine adjustment to normal floor irregularities.

FINISH—All partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust-inhibitor and properly dried before paint is applied. Partitions are to be permanently finished with an enamel prime and finish coat of alkyd-melamine base and properly baked to ensure durable quality, meeting performance specifications as published on Page 4. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills Color No. . . . or color to be as selected. *Specify color of base or doors if different from partition color.*

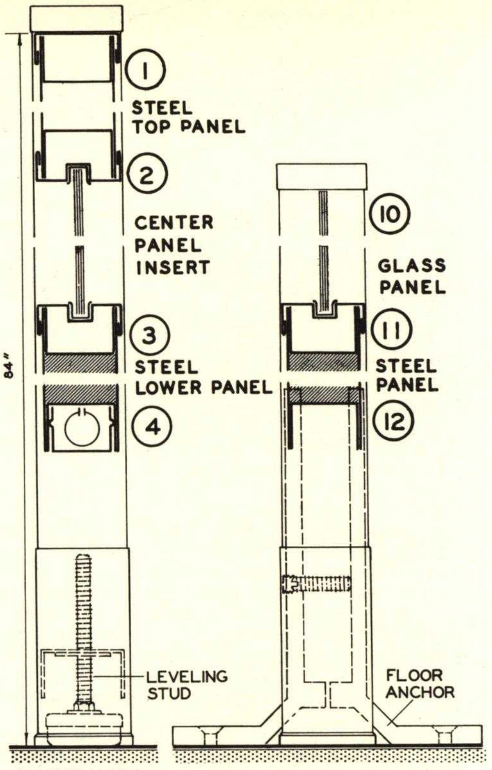
GLASS AND GLAZING—(Omit if no glass required). Glass for metal partitions shall be furnished by partition contractor of design, quality and thickness as specified or called for on drawings. Glass shall be set with aluminum glazing strips. Glazing molds shall be an integral part of glass frame. They shall be self-seating and insure a positive stop on glass at all times. Loose glazing stops and exposed screws shall not be used.

ERECTION—Partitions shall be erected in a rigid manner, straight and plumb, with horizontal lines level. Units shall be aligned at all panel and door unit joints. Hardware shall be thoroughly adjusted and left in good working condition. Provide reinforcements to ceiling or bracing on runs exceeding 20' in length unsupported by cross runs.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes shall be touched up neatly and finger marks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.

MILLS *Mainliner* FREE-STANDING PARTITIONS

A new movable wall for simple, inexpensive space control. Extremely versatile, Mainliner is available in four heights and ten widths to fill virtually every need for office subdivisions.


1
STEEL TOP PANEL
2
CENTER PANEL INSERT
3
STEEL LOWER PANEL
4
84"
LEVELING STUD
10
GLASS PANEL
11
STEEL PANEL
12
FLOOR ANCHOR

MAINLINER 84"

GLAZED GATE

MAINLINER "84"

The ultimate in convenience and privacy. provides maximum height. Quickly installed and easily moved. Also available with doors.

MAINLINER "68"

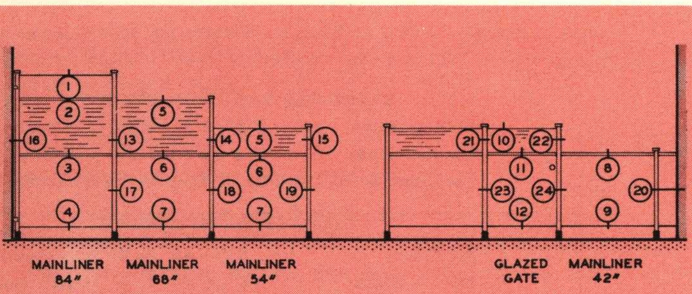
Extending above eye level, Mainliner 68" gives privacy for those who want it or panoramic visibility for those who need it—the choice of glass makes the difference.

MAINLINER "54"

A see-over partition, Mainliner 54" gives the feeling of a separate office—makes concentration easier, but allows a view to other areas.

MAINLINER "42"

For departmental divisions or subdivisions, for attractive reception areas and many other uses, Mainliner railing-height partitions are ideal.


1
2
16
3
4
5
13
6
17
7
14
5
15
6
18
7
19
21
10
22
11
23
24
12
8
9
20
MAINLINER 84"
MAINLINER 68"
MAINLINER 54"
GLAZED GATE
MAINLINER 42"

TYPICAL ELEVATIONS — MAINLINER PARTITIONS

STANDARD PANEL WIDTHS:

12", 18", 24", 30", 36", 42", 48", 54", 60", 66"

STANDARD PARTITION HEIGHTS:

42"—Panel is all steel to height of 42" with 6" open base

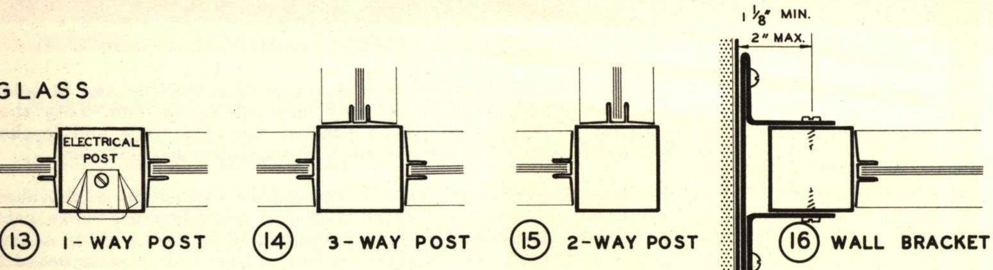
54"—Consists of 42" lower steel panel with 6" open base topped by a 12" glass panel.

68"—Consists of 42" lower steel panel with 6" open base topped by 26" glass panel.

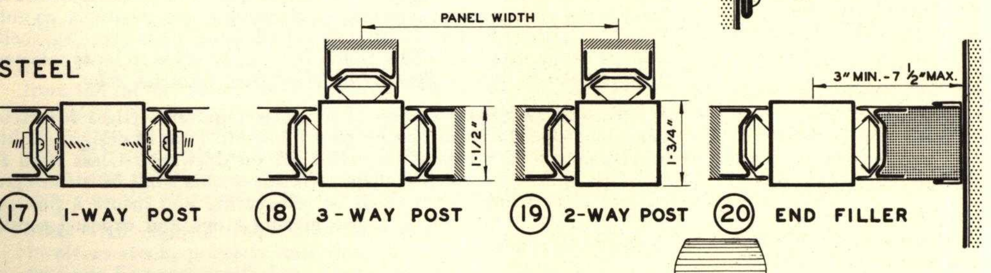
84"—Consists of 42" lower steel panel with 6" open base topped by a 26" glass panel and a 16" steel panel.

quarter-sized detai

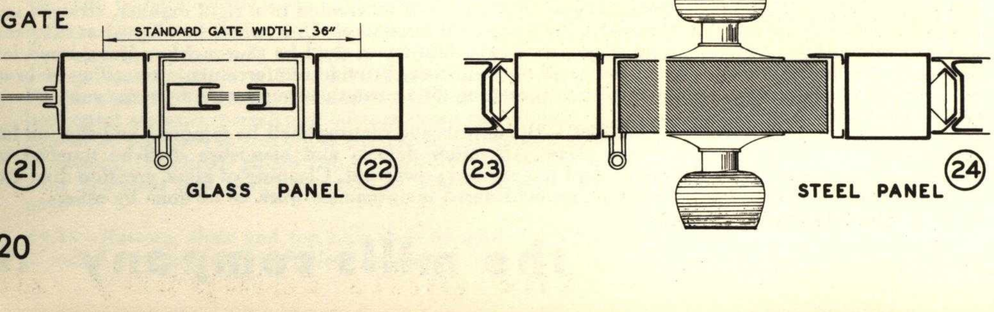
GLASS

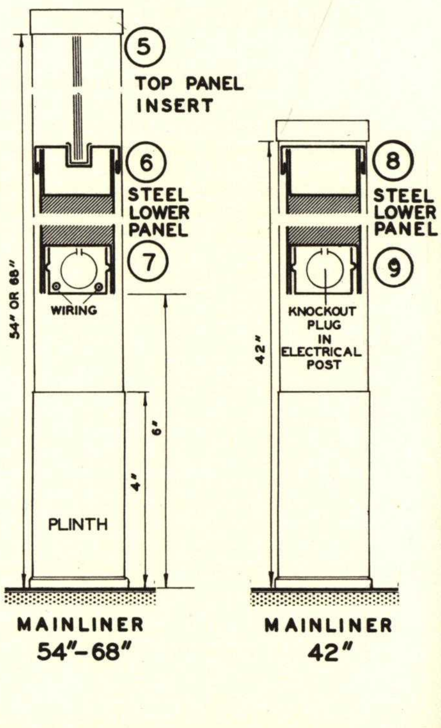

ELECTRICAL POST
1 1/8" MIN.
2" MAX.
13 1-WAY POST
14 3-WAY POST
15 2-WAY POST
16 WALL BRACKET

STEEL


PANEL WIDTH
3" MIN.-7 1/2" MAX.
1-1/2"
1-3/4"
17 1-WAY POST
18 3-WAY POST
19 2-WAY POST
20 END FILLER

GATE


STANDARD GATE WIDTH - 36"
21
22
GLASS PANEL
23
24
STEEL PANEL


5
TOP PANEL INSERT
6
STEEL LOWER PANEL
7
WIRING
54" OR 68"
6"
4"
PLINTH
8
STEEL LOWER PANEL
9
KNOCKOUT PLUG IN ELECTRICAL POST
42"

MAINLINER 54"-68"

MAINLINER 42"

MAINLINER PARTITIONS

specifications

TYPE—Furnish complete, with exception of glass and erection, The Mills Company standard Mainliner Movable Steel Partitions.

UNITS—Partitions shall have 1¾″ square posts with steel panels 1½″ thick, designed to be assembled in standard heights of 84″, 68″, 54″ and 42″ from floor to top of partition. They shall be made up of standard steel or steel and glass components (as required) assembled as indicated in plans and elevations. Partitions shall be shipped from the factory in panel widths from 12″ to 66″ in 6″ increments. Future extentions of assembled units that have the same height or a lower height for either 2–, 3–, or 4-way conditions may be made without replacing posts.

STEEL—All exposed steel shall be cold-rolled commercial quality furniture stock, process leveled for smooth, clean surfaces. Gauges Specified are U.S. standard.

STEEL PANELS—Shall be 1½″ thick, fabricated of two steel sheets, permanently bonded to a honeycomb core with aircraft adhesives, framed internally with 20 gauge horizontal and 14 gauge vertical channels. Each panel end shall be provided with two high carbon steel spring locking devices for attachment to post. Snap-in wire raceway channels at bottom of panel shall be allowed for continuous wiring through pass-through in electrical post.

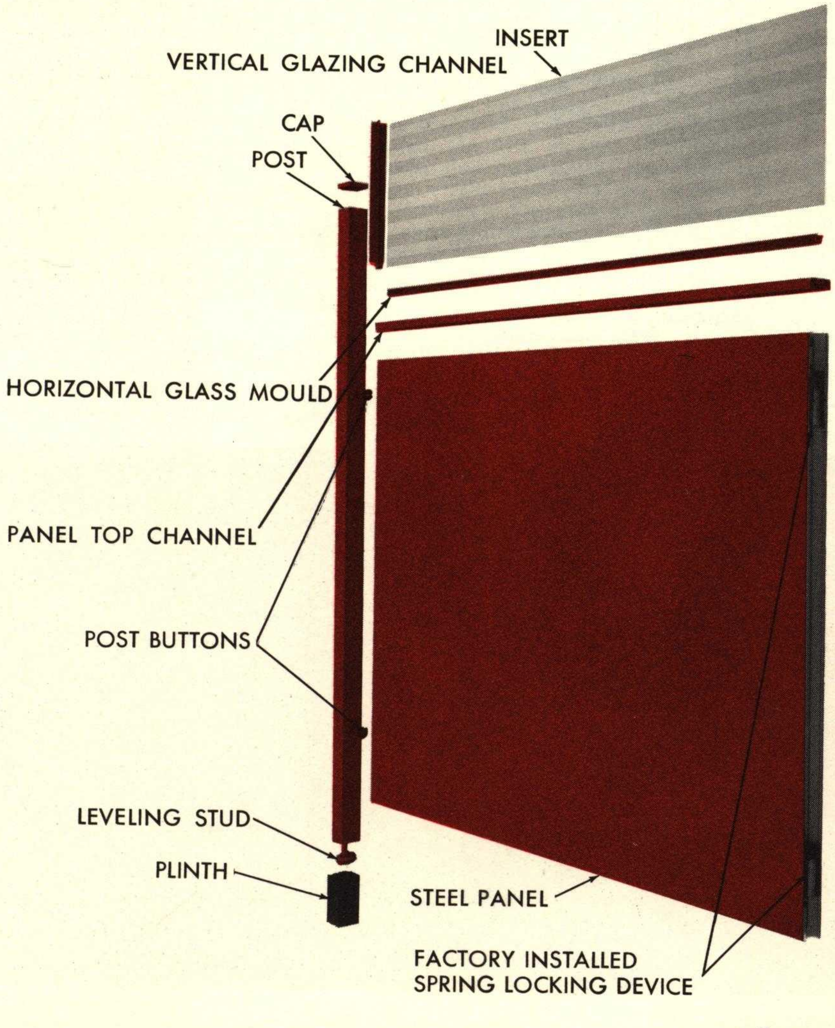
raceway channel at bottom of panel shall allow for continuous wiring through pass-through in electrical post.

PANEL TOP CHANNEL—For all panels except 42″ height shall be rolled steel, designed to receive vinyl glass mold. Top channel for 42″ height similar, but without glazing groove.

VERTICAL GLAZING CHANNEL—Shall be furnished for partitions over 42″ in height. It shall be a rolled steel channel designed to receive all thicknesses of glass to and including ¼″. Two spring steel glazing clips per unit shall be furnished when ⅛″ or 7/32″ glass is used.

HORIZONTAL GLASS MOULD—Shall be neutral gray vinyl, designed to fit snugly into horizontal glazing channel for units to be glazed. It shall receive all thicknesses of glass to and including ¼″.

POSTS—Shall be 16 gauge, 1¾″ square steel tubing, pre-drilled to receive 1–, 2–, 3–, or 4-way connections. Post shall be furnished with ¾″ lanced hole on each side near bottom for wiring pass through. Bottom shall be prepared for adjusting stud. One post to be furnished with each panel—additional post of height required shall be specified for use at end of panel run. **ELECTRICAL POST**— Shall be the same as standard post but with addition of duplex outlets and 7 foot long cord with standard plug for connecting to electrical system.



PANEL CONNECTIONS—Two factory-installed spring locking devices shall be attached to each panel vertical channel to interlock with tapered steel button on post. Post locking buttons to be applied with Parker-Kalon metal screws in pre-drilled holes.

WALL FITTINGS—Standard connection to fixed walls or columns shall be made with two heavy-gauge steel wall "U" or "F" brackets, finished in partition color.

POST CAP—Shall be a pressed steel stamping finished in partition color, or natural finish anodized aluminum, to cover top of post and secure vertical glazing channel.

GATES—42″ high gates shall be 1½″ thick, consisting of two face sheets permanently bonded to honeycomb core, similar in construction to panels. They shall be single acting and shall be mortised and reinforced for hardware application.

54″ and 68″ gates shall be of same construction as 42″ gates, but with provisions for glazing to match adjoining panels.

DOORS—For 84″ height shall be 1½″ thick with 3/32″ clearance at jambs and heads. They shall be of flush design and sound-deadened. All doors to be reinforced for hinges and lock or latchsets. The standard Mainliner swing door with frame shall fit a 36″ wide section, and the door shall be approximately 2′-9″ x6-′2″.

END FILLERS—Shall be same construction as panel units except one end only will have provisions for attaching to post. Wall end to telescope into wall channel fastened to wall. Height of Filler to match adjacent panel, with open or closed base as specified.

HARDWARE—For 42″ Gates: Shall be Mills standard push and pull plates, with Mills standard roller latch. 54″ or 68″ gates and 84″ doors shall be provided with Mills standard Mainliner latch set or cylinder lock set, as specified. Hardware finish shall be U.S. 26-D dull chrome or U.S. 10 dull bronze-

FLOOR CONNECTIONS—⅜″ threaded leveling stud with locked-in vinyl foot shall be secured to bottom of each post to prevent movement on flooring and to provide adjustment for uneveness in floor. Assembly shall be concealed by 4″ high black vinyl or natural finish, anodized aluminum plinth. For continuous runs over 10′-0″ at gate and door openings and at free-standing ends, floor anchors shall be used. Anchors shall be two ⅜″ thick gray iron castings designed to slide up into post and tightened with a set screw inserted between castings. Two wood screws and floor inserts shall be furnished with each anchor member—assembly painted black or aluminum to blend with post plinths.

FINISH—After thorough cleaning and drying, partition units shall be permanently finished with an acrylic enamel, properly baked to ensure durable quality. Color shall be chosen from sixteen designer-selected colors, appearing on Mainliner color charts. Other colors may be matched at additional cost, upon submission of paint sample.

GLASS—Shall be by others. Mainliner is designed to receive any type of glass up to and including ¼″ thickness except ¼″ wire glass. Top edges of exposed glass shall be seamed to remove sharp edges.

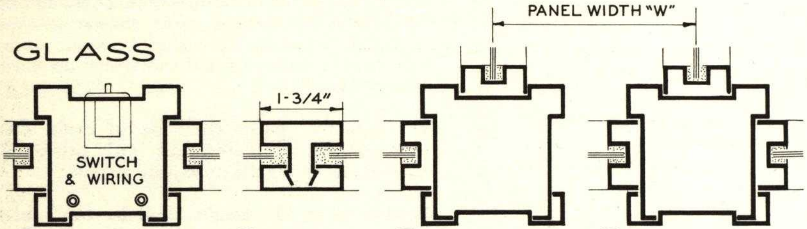
MILLS *Commercial* PARTITIONS

Used throughout the nation in factories, warehouses, institutions and other buildings. Recommended for departmental divisions, factory offices, tool cribs and stock rooms.

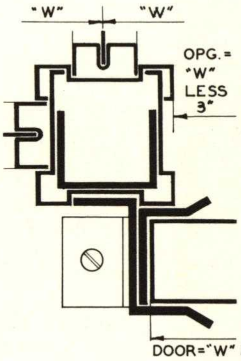
POINTS FOR COMPARISON:

- **Universal 3″ square posts for extension in 2, 3, or 4 ways without removing standing units.**
- **Unobstructed wiring areas in cornice, base and post, with provisions for standard-sized electrical components.**
- **May be extended to any ceiling height and to fit irregular roof construction.**
- **Sturdy, all-steel construction and continuous post reinforcements.**
- **Durable baked enamel finish.**

GLASS

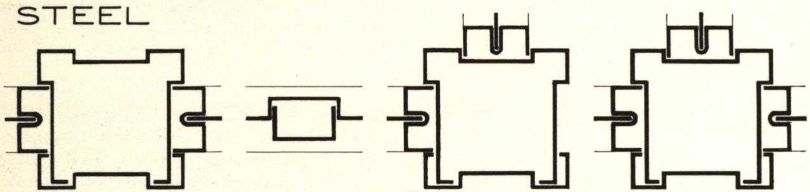

PANEL WIDTH "W"
1-3/4″
SWITCH & WIRING

① 1-WAY POST ② MUNTIN ③ 2-WAY POST ④ 3-WAY POST

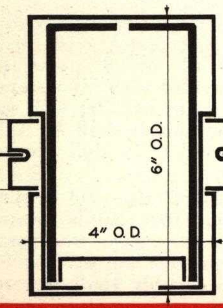

"W"
"W"
OPG. = "W" LESS 3″
DOOR="W" LESS 1-1/2″

⑩ SLIDE DOOR STRIKE & JAMB; REINF. POST FOR TRACK ASSEMBLY

STEEL

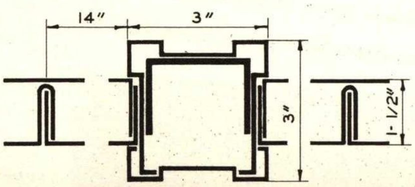


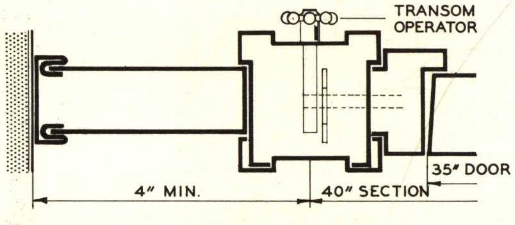
⑤ 1-WAY POST ⑥ BATTEN ⑦ 2-WAY POST ⑧ 3-WAY POST



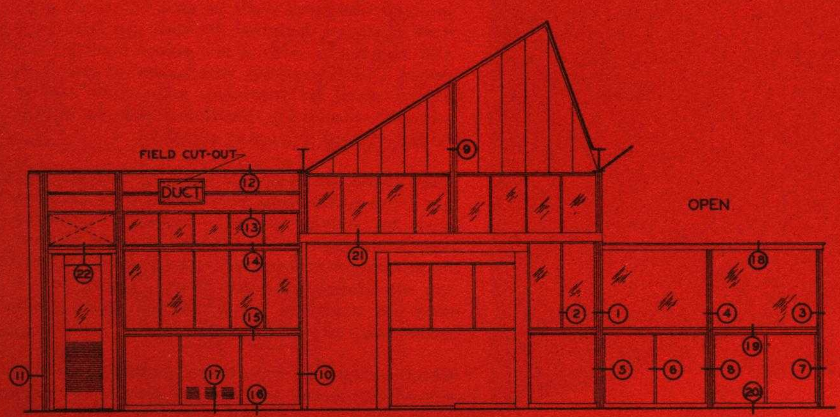
REINF. POST OVER 20 FT.

⑨ CEILING FILLER & REINF. POST, 14-20′




TRANSOM OPERATOR
35″ DOOR
4″ MIN.
40″ SECTION

⑪ WALL FILLER & DOOR JAMB


FIELD CUT-OUT
DUCT
OPEN
⑫
⑬
⑭
⑮
⑯
⑰
㉒
⑪
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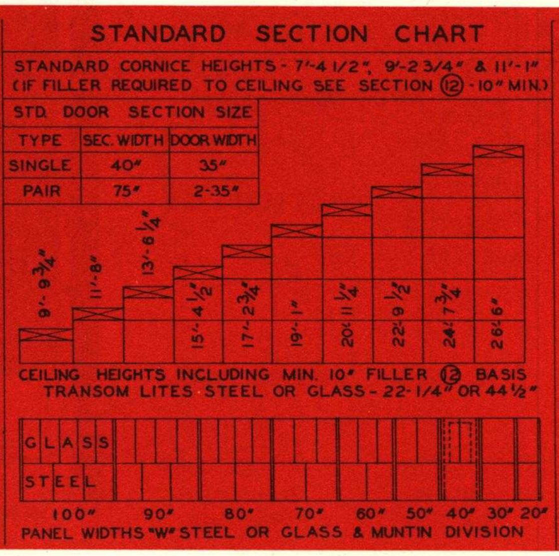
⑦
⑳

TYPICAL ELEVATION - COMMERCIAL PARTITIONS



STANDARD SECTION CHART

STANDARD CORNICE HEIGHTS - 7′-4 1/2″, 9′-2 3/4″ & 11′-1″ (IF FILLER REQUIRED TO CEILING SEE SECTION ⑫ - 10″ MIN.)

STD. DOOR SECTION SIZE

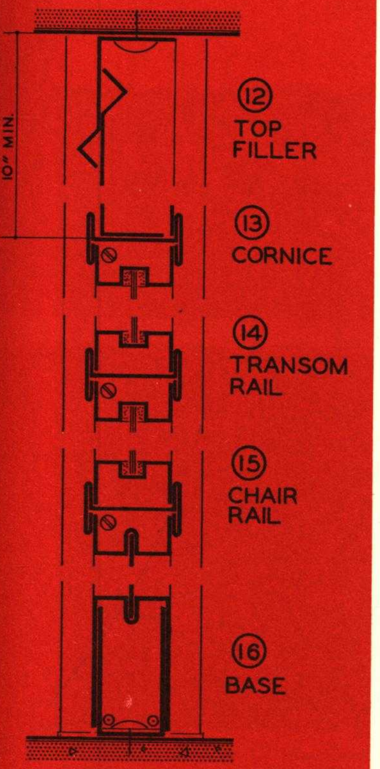
TYPE	SEC. WIDTH	DOOR WIDTH
SINGLE	40″	35″
PAIR	75″	2-35″

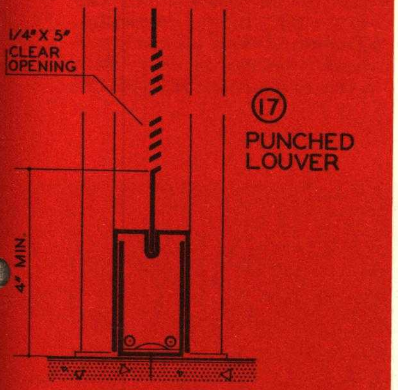
9′-9 3/4″
11′-8″
13′-6 1/4″
15′-4 1/2″
17′-2 3/4″
19′-1″
20′-11 1/4″
22′-9 1/2″
24′-7 3/4″
26′-6″
GLASS
STEEL
100″
90″
80″
70″
60″
50″
40″
30″
20″

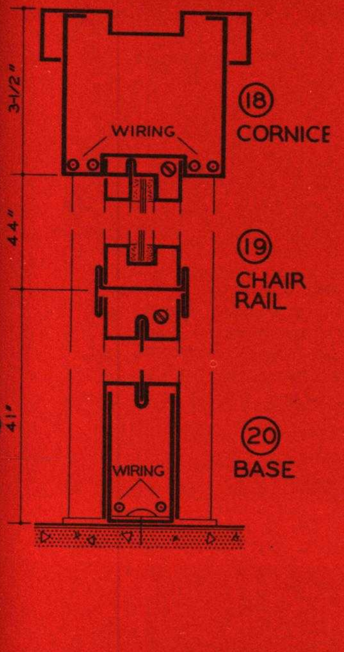
CEILING HEIGHTS INCLUDING MIN. 10″ FILLER ⑫ BASIS
TRANSOM LITES STEEL OR GLASS - 22-1/4″ OR 44 1/2″

PANEL WIDTHS "W" STEEL OR GLASS & MUNTIN DIVISION

COMMERCIAL PARTITIONS







specifications

TYPE—Furnish and erect complete The Mills Company Standard Commercial Movable Steel Partition.

SHOP DRAWINGS—Detail shop drawings indicating plan, elevation, hardware, finish, special conditions and construction shall be submitted to the architect for approval before actual fabrication is started.

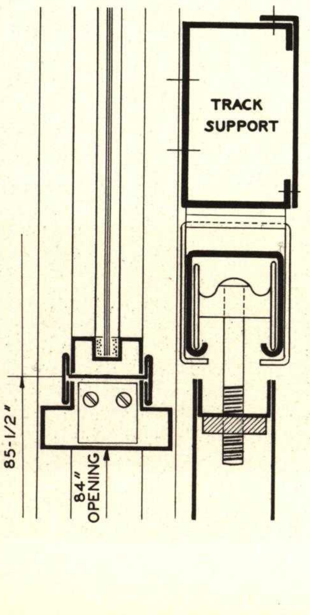
UNITS—All units shall be built in multiple widths of 10″ and constructed so that two 40″s, a 50″ and a 30″ or four 20″s will fit in the same space taken by an 80″ unit. Also, door and frame section will interchange with a standard panel measuring 40″. Units shall be so constructed and assembled that future extension of either 2–, 3– or 4-way may be joined together without removing the adjacent units or using fillers.

STEEL—All exposed steel shall be cold rolled, commercial quality furniture stock, properly annealed, process leveled for smooth, clean surfaces. Gauges specified are United States Standard.

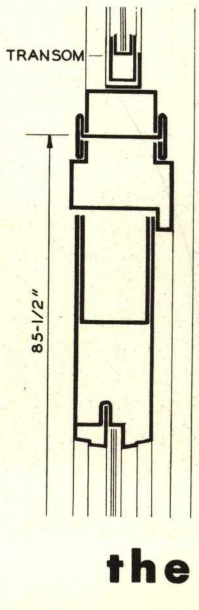
PANELS—Steel panels shall be constructed of standard units of 22 gauge frames and 18 gauge sheets, welded in place to reduce rattle and sag and retain square units. Glass frames shall be constructed of standard units of 22 gauge frames welded in place to retain square units. Lower panels shall be approximately 42″ high with upper panels or glass frames either 44½″ or 22¼″ high. Units shall be assembled in partitions by means of concealed bolts to posts and interlocked vertically by means of a 20 gauge horizontal H-section rail running between posts.

POSTS—Posts shall be No. 18 gauge 3″ square—one side removable to provide space for wiring and attachment of concealed bolts from panels, glass frames and doors. The faces of posts to be recessed to receive panels, glass frames, etc., to conceal raw edges and form a light shield. Bottom of posts to have opening for wiring. Post caps of No. 18 gauge shall be of the same general design as posts and snap-on over blisters provided in the posts to hold securely without the use of screws, bolts or nuts.

㉑ SLIDE DOOR HEAD AND TRACK ASSEMBLY



㉒ STANDARD DOOR HEAD



BASE—Base of No. 20 gauge shall be 3″ high and fit over a floor channel for telescopic adjustment to take care of floor irregularities and provide a utility space.

CORNICE—Cornice, when required, shall be 4½″ wide x 3½″ high of No. 18 gauge two-piece box construction. Cornice shall be hollow to allow for concealed wiring.

WALL FILLERS—Adjustable wall fillers are to be used at the ends of runs. They shall be securely fastened to the building wall.

TOP FILLER—Single steel filler plates of No. 20 gauge ordinarily provided for ceiling height partitions with continuous posts from floors to ceiling.

Mineral board top filler from cornice to ceiling furnished if specified.

DOORS AND FRAMES—Doors shall be 1¾″ thick with 3/32″ clearance at jambs and heads. They shall be made of flush design with 5″ wide stiles flush with panels, which shall be sound deadened. All doors to be reinforced for hinges, locks and door checks. (Hinge reinforcement 14 gauge pressed steel channels, lock reinforcement 16 gauge, check reinforcement 14 gauge.) The standard swing door with frame fits 40″ wide section and be approximately 3′ x 7′. Glass moldings to be secured without the use of screws. Frames of No. 18 guage shall be unit type— factory welded and finished.

HARDWARE—Shall be interchangeable as to operation as called for in hardware schedule.

Doors shall be provided with two 5″ x 4″ loose pin ball bearing butt hinges.

FINISH—All partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust-inhibitor and properly dried before paint is applied. Partitions are to be permanently finished with separate baked on enamel prime and finish coat of alkyd-melamine base and properly baked to ensure durable quality, meeting performance specifications as published on Page 4. The finish coat shall be of a uniform "eggshell" texture; color shall be Mills Color No. . . . or color to be as selected. Specify color of doors if different from partition color.

GLASS AND GLAZING—(Omit if no glass required). Glass for metal partitions shall be furnished by partition contractor of design, quality and thickness as specified or called for on drawings. Glass shall be bedded in putty and back puttied. Putty shall be colored to match the finish of adjacent metal work. Glazing stops and muntins shall be applied without the use of screws or bolts.

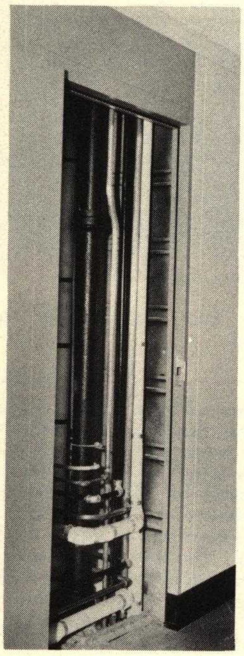
ERECTION—Partitions shall be erected in a rigid manner; straight and plumb, with horizontal lines level. Units shall be aligned at all panel and door unit joints. Hardware shall be thoroughly adjusted and left in good working condition. Provide reinforcements to ceiling or bracing on runs exceeding 20′ in length unsupported by cross runs.

CLEANING—All rubbish and cartons shall be removed and the job left broom clean. All minor defects and blemishes shall be touched up neatly and finger marks removed. Cleaning of glass, erection dust and washing are considered maintenance work to be done by others.

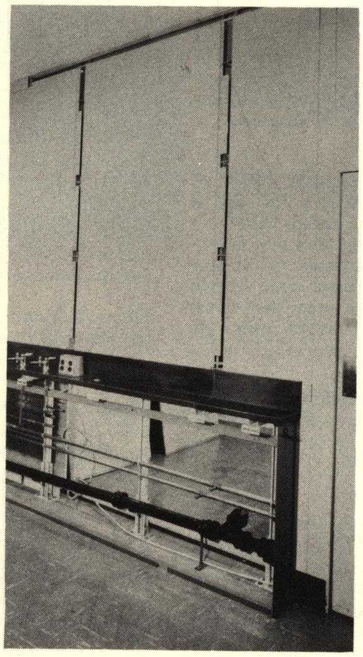
ACCESSORIES

Pictured and detailed in this section are some of the many accessories which make Mills movable walls and partition systems completely versatile and adaptable to individual requirements for convenience and utility.

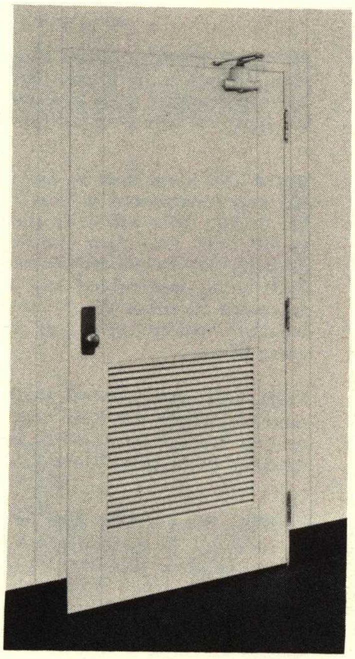
(See Accessories list, page 4)



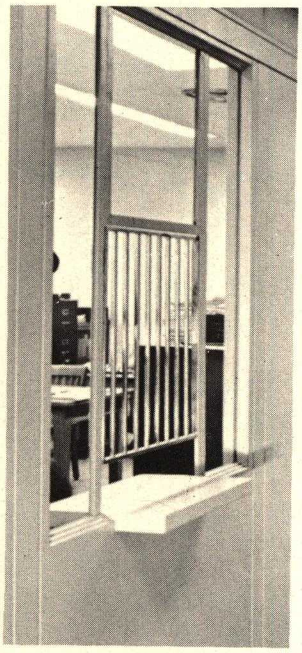
ACCESS SHAFT ENCLOSURE—Encloses vertical service pipes, drains and conduit. Full size (3′ x 7′) door provides complete access for easy maintenance of facilities.



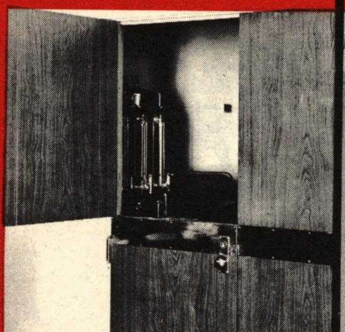
LABORATORY BENCH SERVICE STRIP—Encloses horizontal service pipes, drains and conduit for immediate access to working bench. Completely adaptable to changing service conditions enclosed.



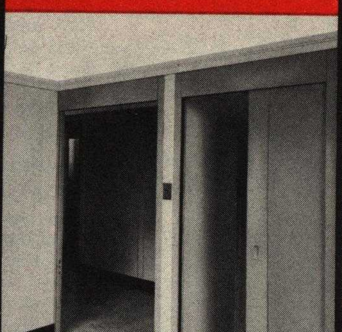
LOUVRES—Air conditioning technique demands adequate facilities for air circulation. Louvred panels and doors are available in standard sizes and are interchangeable with solid doors or standard partition panels.



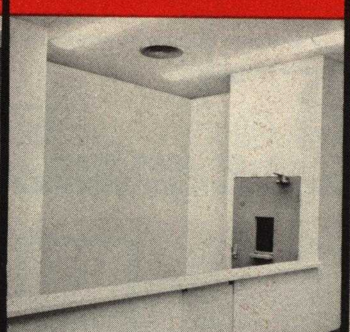
WICKETS—Available in Mills panels and doors. Stock size 18″ x 24″, hinged or sliding. Furnished with painted steel deal plates, covered with glass or linoleum if specified.



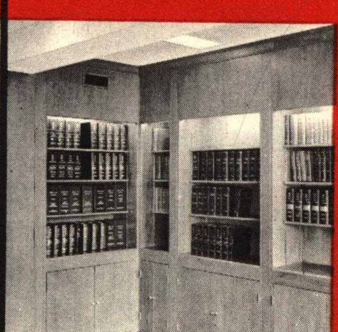
DUTCH DOORS—Used wherever it is desirable to pass materials in and out and at the same time prevent general access. Equipped with deal plates on both sides. Doors may be all-steel, steel and glass, or steel and wire mesh.



SLIDING DOORS—Slide into partition, close by gravity, are equipped with an automatic felt drop. Eliminate arc of door swing, thus saving valuable room space. Ball bearing hangers with fiber rollers insure easy, quiet operation.

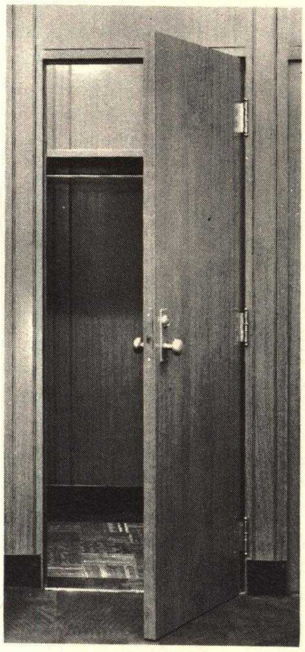


COUNTERS AND CABINETS—Combination counters and cabinets embodying the same structural details and movable features as Mills standard partitions and railings meet individual requirements and permit rearrangement.

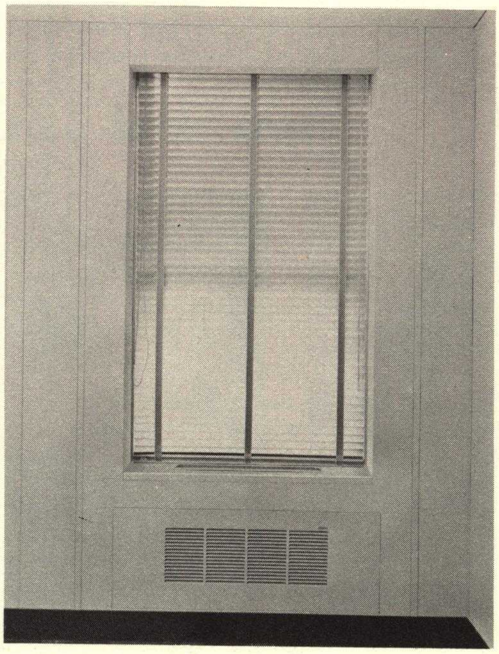


BOOK CASES—Furnished with or without doors in a standard unit of Mills 3″ Flush Pilaster Partition and interchangeable with any standard unit.

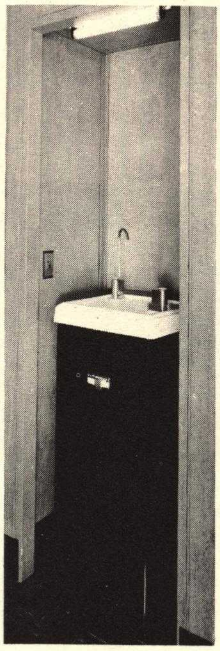
ACCESSORIES



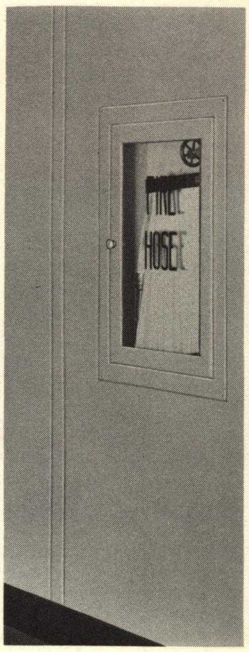
CLOSETS—Made of standard Mills partition sections which match the wall construction exactly, and may contain louvres for forced ventilation. All are equipped with hat shelf and coat rod.



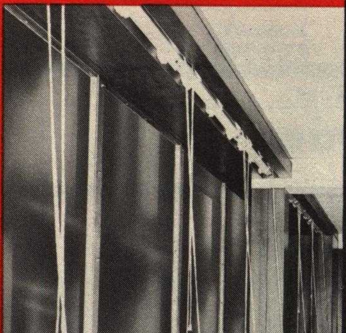
WINDOW EMBRASURES—Attractive window stools and grilled radiator fronts with practical, removable panels conceal unattractive radiators. Designed and finished to match the adjacent walls and partitions, the window embrasures combine ready accessibility with architectural symmetry.



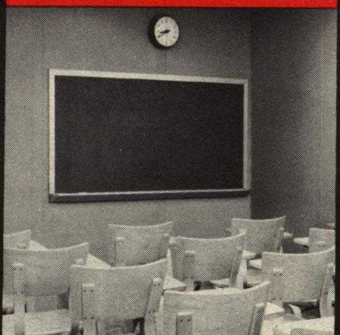
DRINKING FOUNTAIN ALCOVES — Made of standard sections to permit placing the fountain out of the line of hallway traffic.



HOSE CABINETS—Flush door with glass panel which may be easily removed to give access to unit or piping. Concealed hardware with no projections.

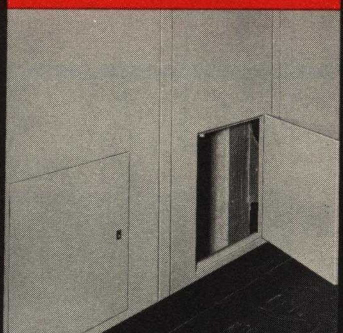


VENETIAN BLIND POCKETS—Are incorporated in the window embrasure. They conceal operating mechanism and blind when it is raised and harmonize perfectly with the design of surrounding partitions and wall linings.

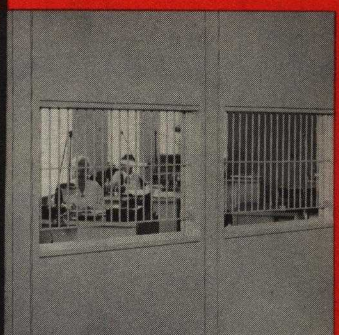


CHALK BOARDS—Modern school design seeks flexibility.

Standard size chalk boards and tack boards with customary accessories are adapted to Mills standard partition to permit rearrangement.

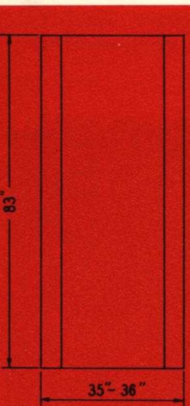


ACCESS DOORS — For access to pipe valves, vent dampers, etc. Size 24″ x 24″ x ¾″ thick, flush type, fully insulated. Concealed Soss hinges, friction catches, and drop ring pulls flush with surface. Vital for maintenance of modern facilities.



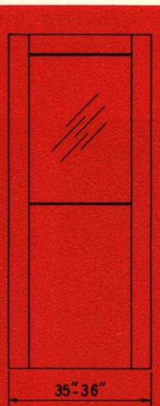
GRILLES—Steel, painted to match partition, slideup type to permit passing large packages. Also furnished hinged on either side or fixed in position.

DOORS

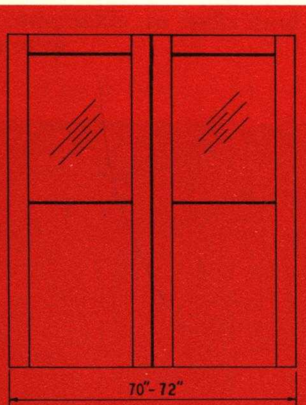


FLUSH STEEL #222

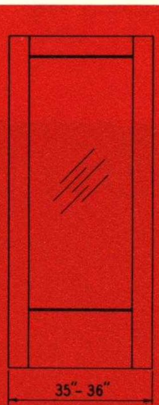
LOUVER	STD.
HALF	#260
FULL	#261



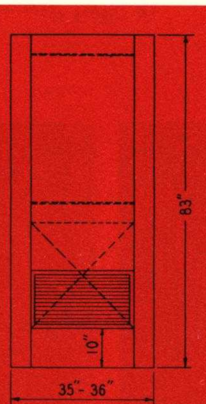
SINGLE GLAZED - #230
HALF LOUVER - #262
FULL LOUVER - #263
DOUBLE GLAZED - #120
HERMETICALLY
SEALED GLASS - #206



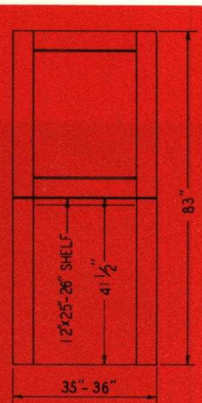
PAIRS OF DOORS
FOR-STEEL-GLASS-LOUVERS
SEE SINGLE TYPE NOS.



FULL LITE - #235
NO LOUVER



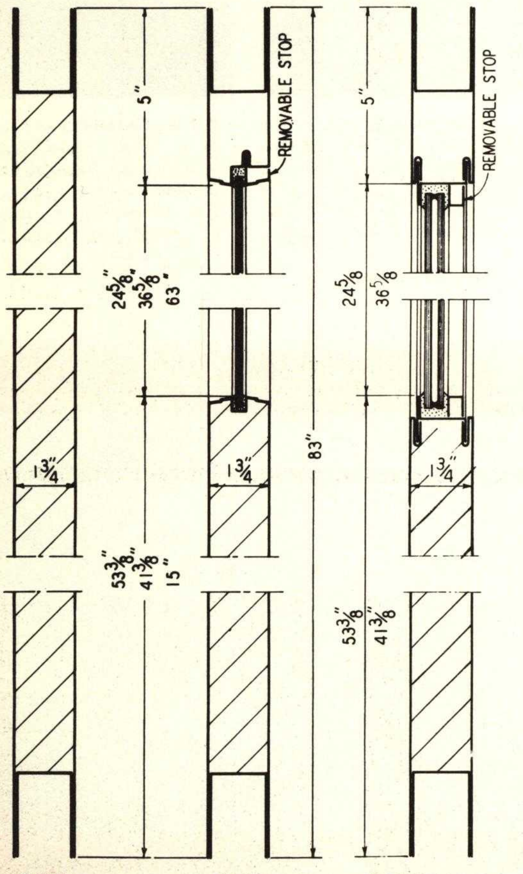
HALF OR FULL LOUVER
STANDARD OR LIGHT-PROOF
SEE TYPE NOS.


12"x25"-26" SHELF
41 1/2
83"
35"- 36"

STEEL DUTCH #237
GLAZED DUTCH #238

NOTE - (ALL ABOVE TYPES CAN BE FURNISHED DOUBLE ACTING
FOR SLIDE DOORS SEE PAGE 47-CONSTRUCTION SAME)

vertical sections thru doors

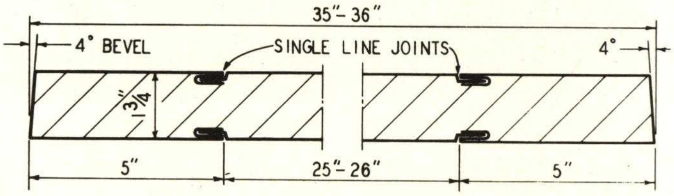

5"
REMOVABLE STOP
24 5/8"
36 5/8"
63"
1 3/4"
83"
53 3/8"
41 3/8"
15"
5"
REMOVABLE STOP
24 5/8
36 5/8
1 3/4"
53 3/8
41 3/8

FLUSH STEEL

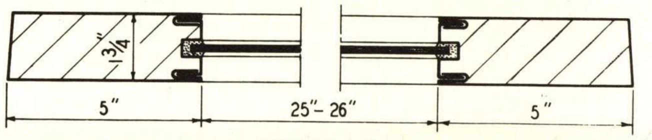
SINGLE GLAZED

HERMETICALLY SEALED GLASS

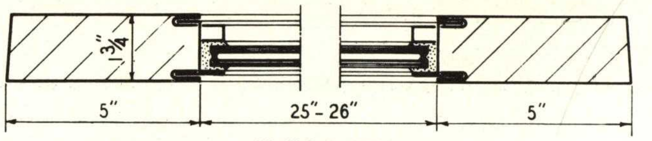
horizontal sections


35"- 36"
4° BEVEL
SINGLE LINE JOINTS
4°
1 3/4
5"
25"- 26"
5"

FLUSH STEEL

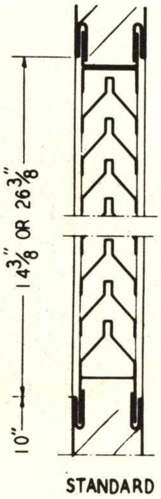


SINGLE GLAZED

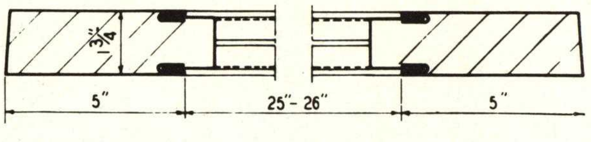


DOUBLE GLAZED

louver details vertical sections


14 3/8" OR 26 3/8"
10"

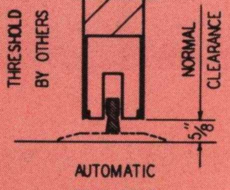
STANDARD



louvers horizontal sections

LOUVER FREE AREA IN SQ. INCHES				
DOOR WIDTH	HALF LOUVER		FULL LOUVER	
	STD.	L. P.	STD.	L. P.
35"	138	71	257	136
36"	144	74	268	142

miscellaneous details


THRESHOLD BY OTHERS
NORMAL CLEARANCE
5/8"

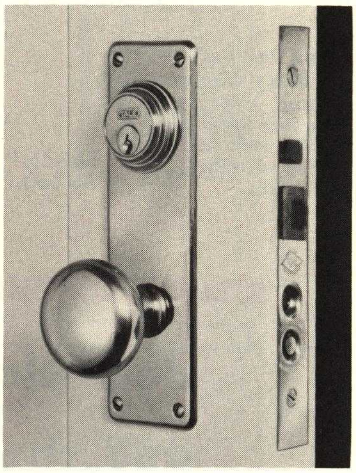
AUTOMATIC
FELT STOP

HARDWARE

Mills standard hardware, shown on these pages, is designed for use with all types of Mills interiors. Various types of locksets in tubular or cylinder style are interchangeable in mortises for that style. The hardware shown is carried in stock for immediate delivery. Specifications of non-stock hardware will cause a twelve week delay in scheduling as well as add to the cost of the installation. Mills hardware should be used since it is best installed on doors at the factory. Master key and sub master key systems can be furnished at any future time for use with standard hardware and standard doors.

mortise lock sets

All mortise lock sets are made to template and are interchangeable. Backset 2¾"; lock face 1⅛" x 8"; escutcheon 2$\frac{3}{16}$" x 7⅜". Master keyed cylinders of all standard makes fit Mills locks.

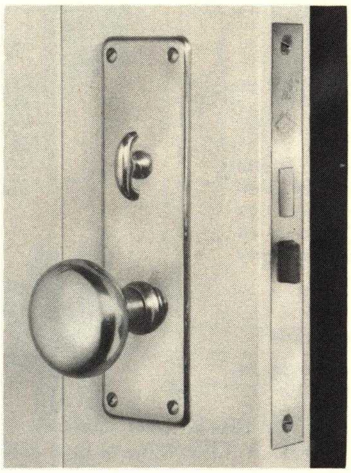


CT 76561 Pick-Proof Cylinder Lock Set

Operates by knob from inside and key from outside at all times. Outside knob is locked by stop in face. Auxiliary latch automatically deadlocks latch bolt so it cannot be forced back when door is closed, but does not prevent operation by key or knobs.

CT 77901 Cylinder Lock Set

Same as above but without auxiliary latch.

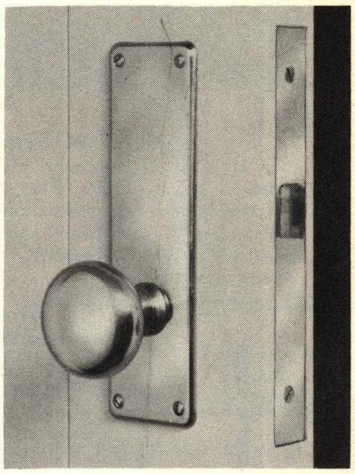


CT 715351 Single Communicating Lock Set

Operates by knob from either side. Thumb turn on inside only operates the dead bolt. Center of knob 40½" above floor.

CT 715251 Double Communicating Lock Set

Same as above but with divided dead bolt. Thumb turns on both sides, each operate one half of dead bolt, making it possible to lock door from both sides independently.



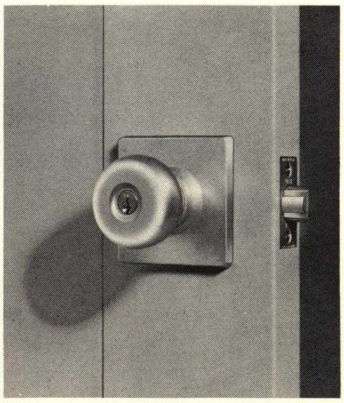
CT 710341 Latch Set

Latch Bolt operates by knob from either side, no locking device. Center of knob 40½" above floor.

Standard Finish—U.S. 10
(Dull Bronze) Also Available:
U.S. 28 Alumilite
U.S. 26-D Dull Chrome

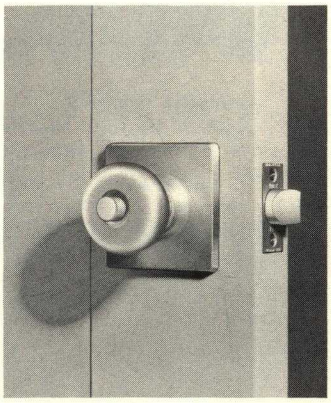
tubular lock sets

Key in knob simplifies detail on face of doors. Backset 2¾". Lock face 1$\frac{1}{16}$" x 2½". Knob diam. 2¼". Rose 3¼" Square. Master keyed with other similar type locks of same manufacturer.



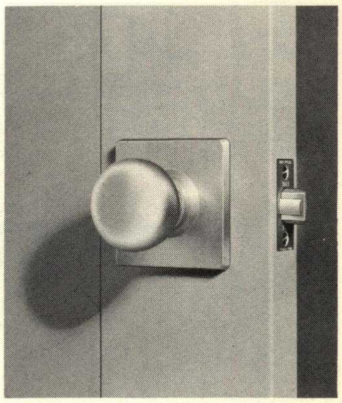
LW 5304 Deadlocking Tubular Lock Set

Operates by knob from inside and key from outside at all times. Outside knob is locked by push button in center of inside knob.



LW 5303 Single Communication Lock Set

Operates by knob from either side. Push button on one side locks knob on opposite side.

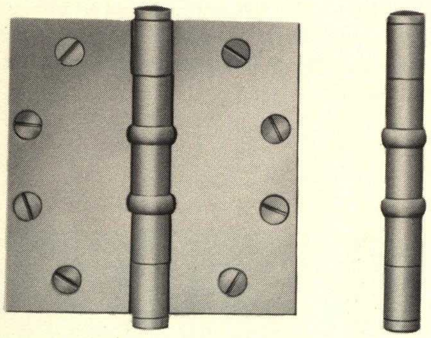


LW 5301 Tubular Latch Set

Plain latch bolt operates by knob from either side. No locking mechanism.

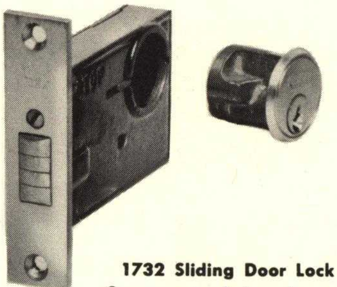
HARDWARE . . . *Continued*

hardware for doors



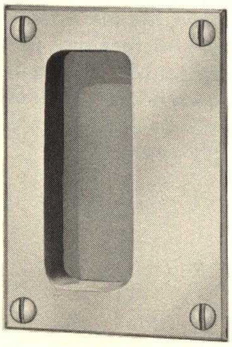
BB 179 Butt Hinges

Size 5″ x 4″ of hardened steel, .134″ thick polished bronze finish. Flat button tip. Ball bearing washers provide noiseless operation and long life. Two butts to each door up to and including 36″. Over 36″ three butts per door are furnished.



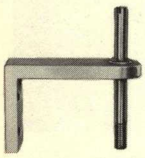
1732 Sliding Door Lock

Operated by key. Hooked latch engages with cast bronze keeper. Backset 2¾″; lock face 1″ x 4″. Used with flush door pull at right.



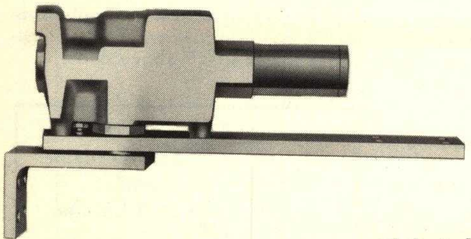
712 Flush Door Pull

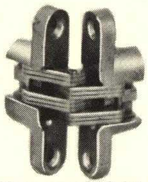
Size 2¾″ x 4″. Bronze finish, furnished for both sides of sliding doors.



1804 checking gate pivot

For glazed railings. Single acting. Top element installed in cutout below glazed panel. Bottom element concealed in bottom of gate.





204 concealed hinge

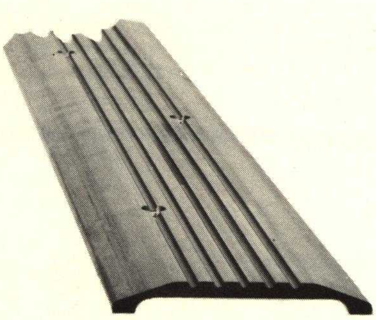
For hinged cabinet doors. Fly leaf hinges invisible when door is closed.

5813 flush ring pull

For flush cabinet and access doors.

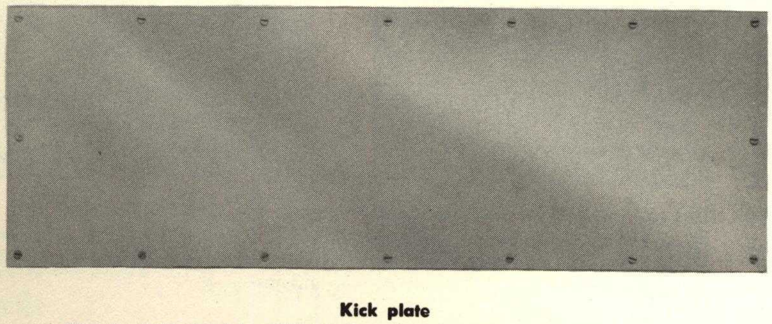
FB 13X door stop

Double floor support for firm anchorage. Height 1″; rubber bumper 1½″ wide.



Corrugated threshold

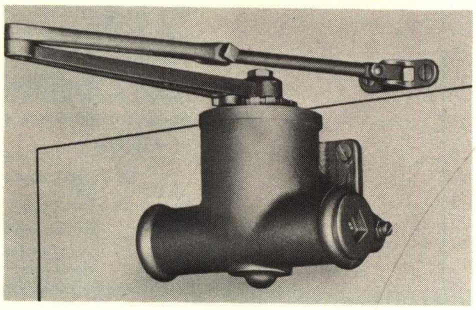
Height ½″; width 4″. Specify whether beveled both sides, or one side square for use with carpeting.



Kick plate

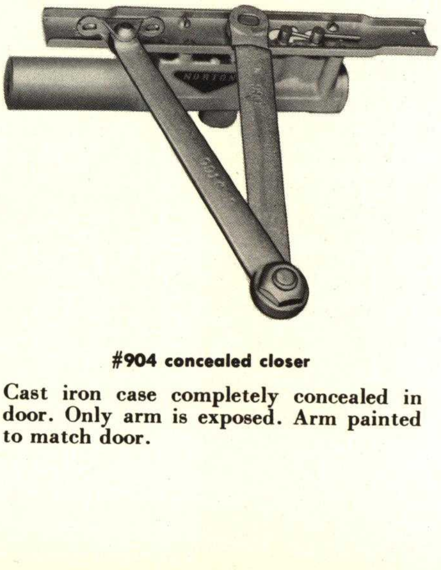
Height 10″. Width, 2″ less than width of door. Specify whether one or both sides.

door closers and checks



Size C, surface closer

Cast iron case painted to match partition. Holder arm, for holding door open, furnished when specified.



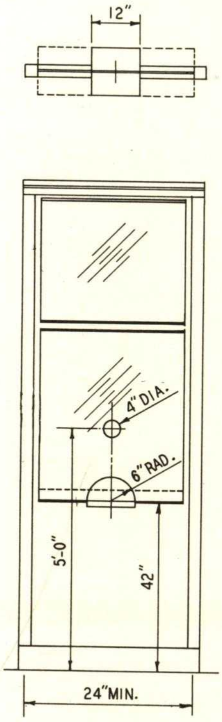
#904 concealed closer

Cast iron case completely concealed in door. Only arm is exposed. Arm painted to match door.

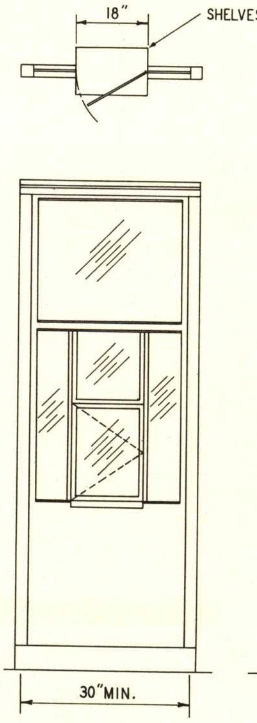
wickets and grills

SCALE ¼″ = 1′-0″

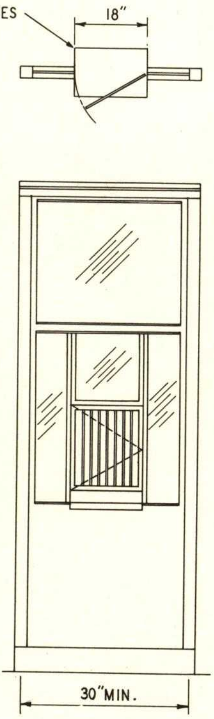
STOCK SIZE 18″ x 24″


12″
4″ DIA.
6″ RAD.
5′-0″
42″
24″MIN.

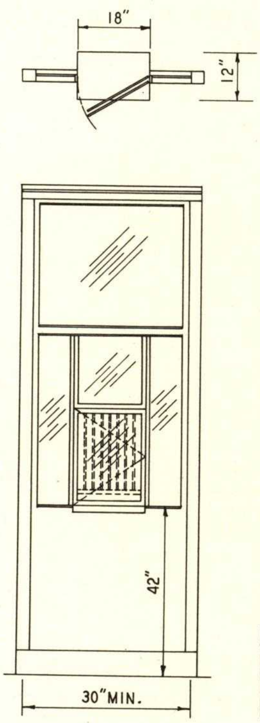
SPEAK HOLE &
ALT. HAND HOLES----


18″
SHELVES
30″MIN.

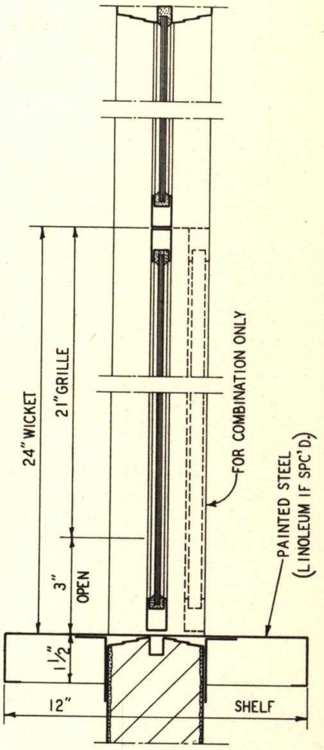
HINGED
WICKET



HINGED OR FIXED
GRILLE


18″
12″
42″
30″MIN.

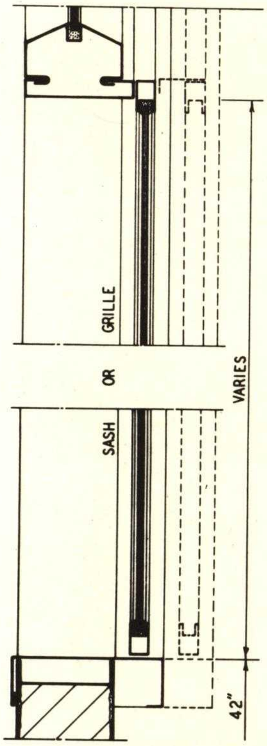
COMBINATION
WICKET & GRILLE


24″ WICKET
21″ GRILLE
3″
OPEN
1½″
FOR COMBINATION ONLY
PAINTED STEEL
(LINOLEUM IF SPC'D)
12″
SHELF

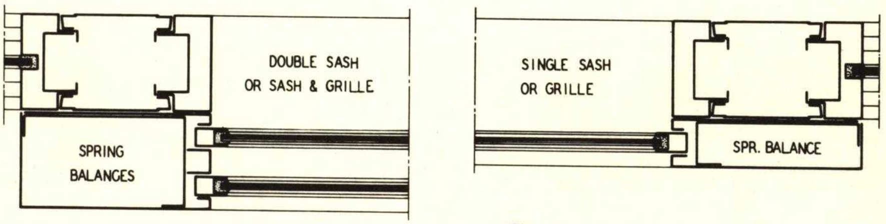
TYPICAL VERTICAL SECT.

SCALE: 1½″ = 1′-0″

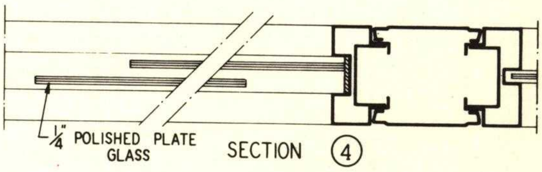
slide sashes


GRILLE
OR
SASH
VARIES
42″

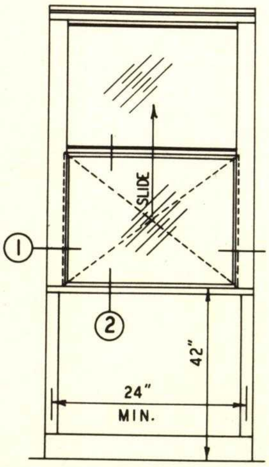
SECTION ②


DOUBLE SASH
OR SASH & GRILLE
SPRING
BALANCES
SINGLE SASH
OR GRILLE
SPR. BALANCE

SECTION ①


¼″ POLISHED PLATE
GLASS

SECTION ④

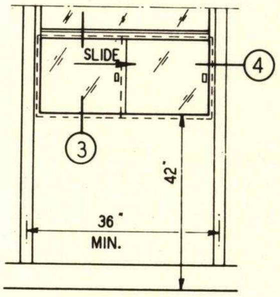

SLIDE
①
②
42″
24″
MIN.

VERTICAL
SLIDE SASH

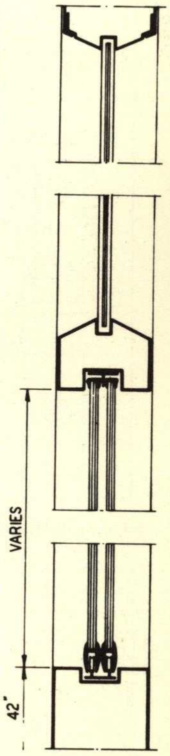
VERTICAL SASH TO HAVE SPRING BALANCE & LIFTS WITH LATCHES OR LOCK WHEN SPECIFIED.

HORIZONTAL SASH TO HAVE LOCK WHEN SPECIFIED

STEEL SLIDE UNITS CAN BE FURNISHED WHEN REQUIRED.

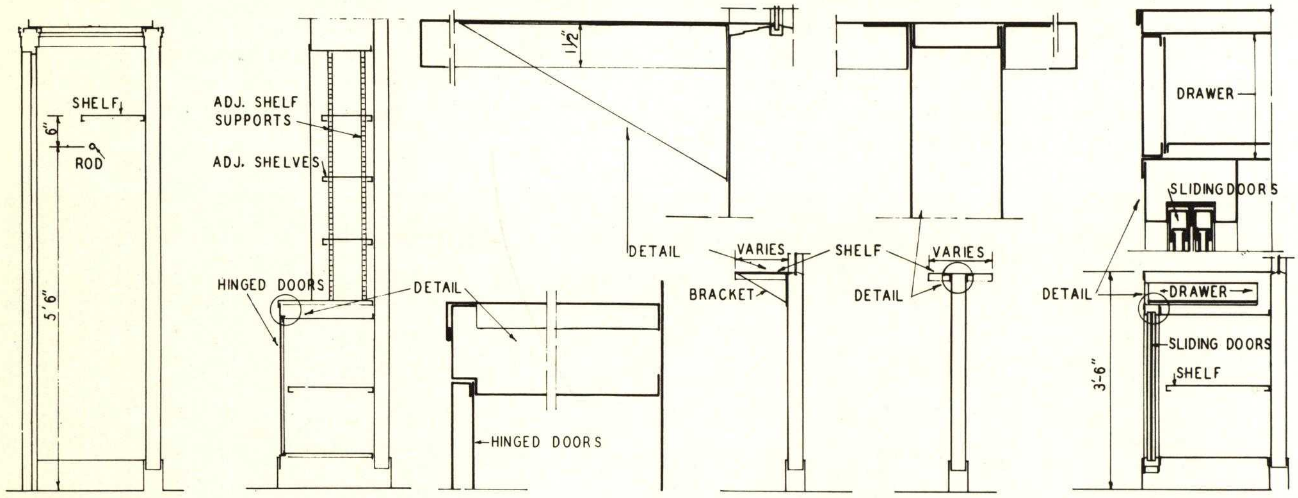

SLIDE
④
③
42″
36″
MIN.

HORIZONTAL
SLIDE SASH



SECTION ③

SHELVING AND COUNTERS


SHELF
6"
ROD
5'6"
ADJ. SHELF SUPPORTS
ADJ. SHELVES
HINGED DOORS
DETAIL
1½"
HINGED DOORS
DETAIL
VARIES
SHELF
VARIES
BRACKET
DETAIL
DRAWER
SLIDING DOORS
DETAIL
DRAWER
SLIDING DOORS
SHELF
3'-6"

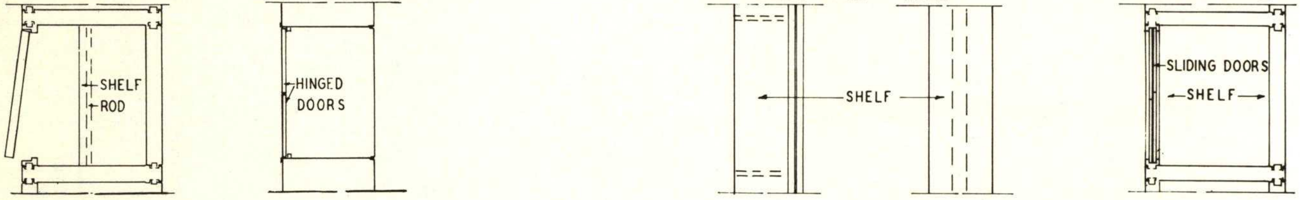
CLOSET SECTION WITH ROD & SHELF

BOOK SHELVES WITH CUP'D BELOW

SHELF OFFSET ON GLAZED RAIL

SHELF ON RAIL

COUNTER WITH GLAZED RAIL


SHELF
ROD
HINGED DOORS
SHELF
SLIDING DOORS
SHELF

PLAN OF CLOSET

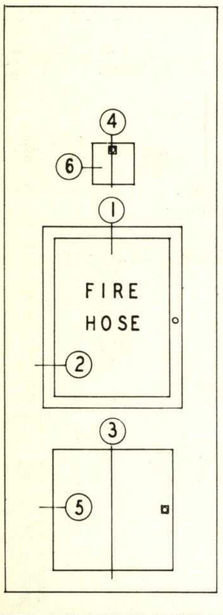
PLAN OF BOOK SHELVES

PLAN OF SHELF

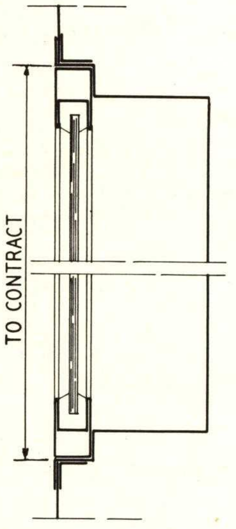
PLAN OF SHELF

PLAN OF COUNTER

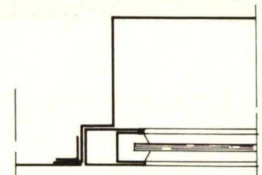
MISCELLANEOUS OPENINGS


④
⑥
①
FIRE HOSE
②
③
⑤

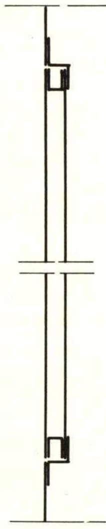
WALL LINING ELEVATION


TO CONTRACT

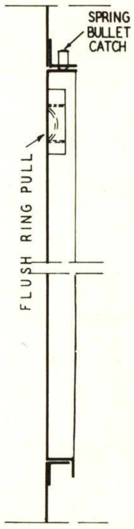
SECTION ①



PLAN ②

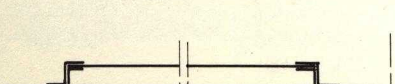


SECTION ③ ACCESS DOOR

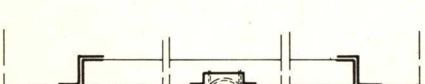

SPRING BULLET CATCH
FLUSH RING PULL

SECTION ④ SNAP IN COVER

STANDARD SIZE OPENINGS IN PANELS FOR ACCESS DOORS				
A	12"	18"	24"	24"
B	18"	31"	36"	48"

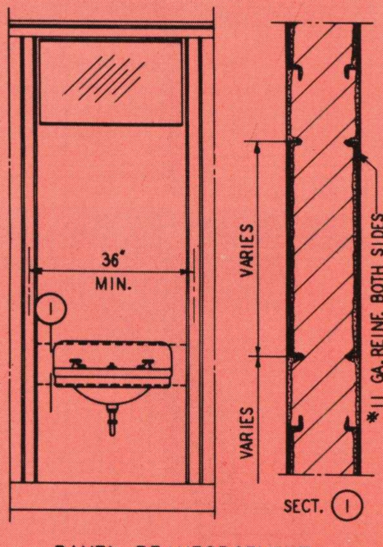


PLAN ⑤ ACCESS DOOR



PLAN ⑥ SNAP IN COVER

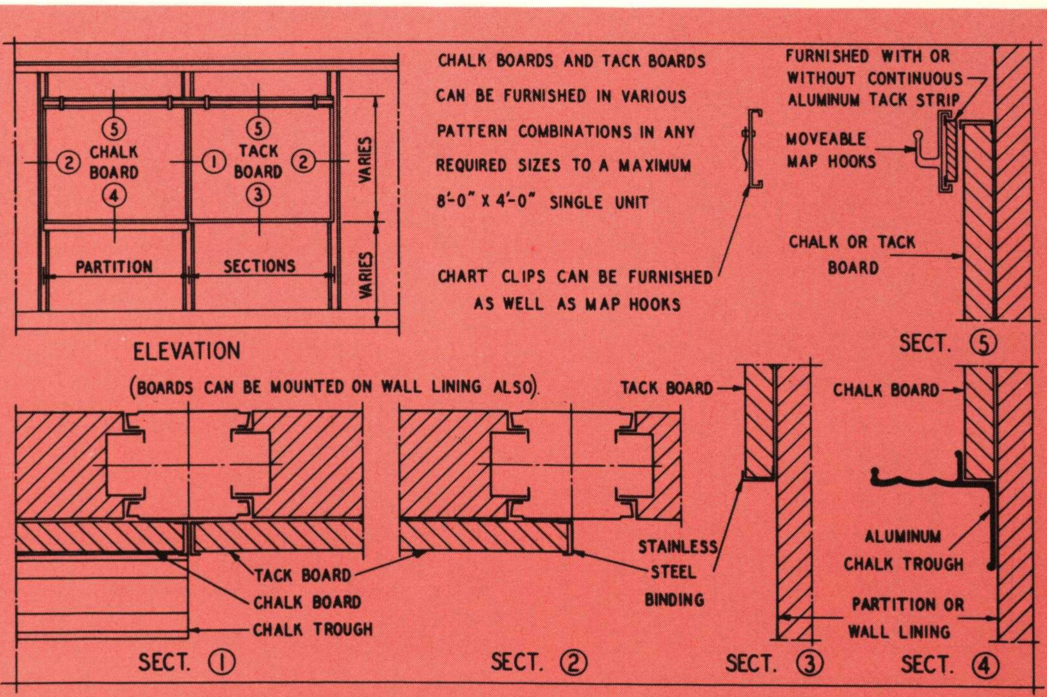
PANEL REINFORCEMENTS


36" MIN.
①
VARIES
VARIES
*11 GA. REINF. BOTH SIDES
SECT. ①

PANEL REINFORCEMENT

CHALK BOARDS AND TACK BOARDS

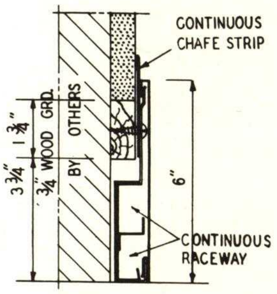
Chalk Boards and Tack Boards can be installed readily on Mills Movable Metal Walls. They are easily moved when it is desirable to change the layout of the room or to move the walls. Standard models of chalk boards and tack boards are bound and trimmed in stainless steel and furnished for use with slate or porcelain enameled steel chalking surfaces and composition or cork tackboards. Movable map hooks and chart hooks and extruded aluminum chalk trays are also available.


⑤
CHALK BOARD
②
④
①
TACK BOARD
③
VARIES
VARIES
PARTITION
SECTIONS
ELEVATION
(BOARDS CAN BE MOUNTED ON WALL LINING ALSO).
FURNISHED WITH OR WITHOUT CONTINUOUS ALUMINUM TACK STRIP
MOVEABLE MAP HOOKS
CHALK OR TACK BOARD
SECT. ⑤
TACK BOARD
CHALK BOARD
TACK BOARD
CHALK BOARD
CHALK TROUGH
STAINLESS STEEL BINDING
ALUMINUM CHALK TROUGH
PARTITION OR WALL LINING
SECT. ①
SECT. ②
SECT. ③
SECT. ④

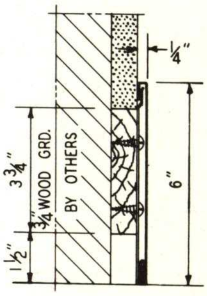
CHALK BOARDS AND TACK BOARDS CAN BE FURNISHED IN VARIOUS PATTERN COMBINATIONS IN ANY REQUIRED SIZES TO A MAXIMUM 8'-0" X 4'-0" SINGLE UNIT

CHART CLIPS CAN BE FURNISHED AS WELL AS MAP HOOKS

WIRING WALL BASE

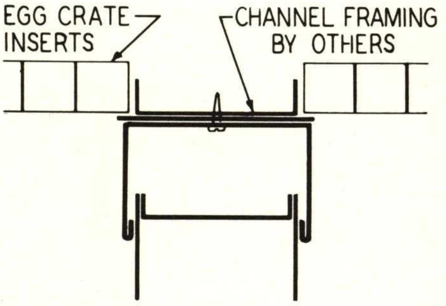

CONTINUOUS CHAFE STRIP
3 3/4"
1 3/4"
3/4 WOOD GRD.
BY OTHERS
6"
CONTINUOUS RACEWAY

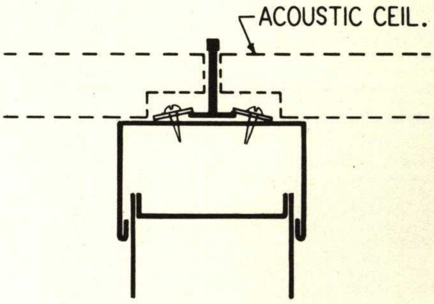
WIRING
WALL BASE

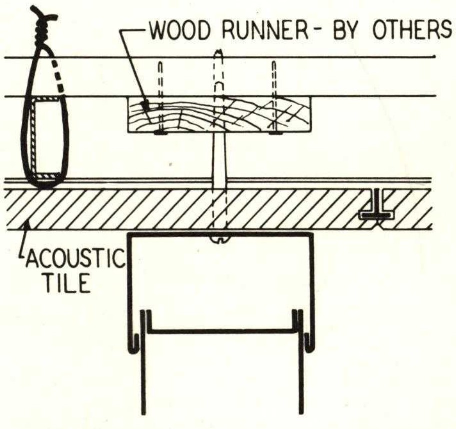

1/4"
3 3/4
3/4 WOOD GRD.
BY OTHERS
6"
1 1/2"

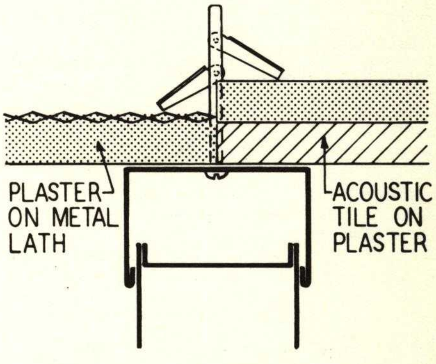
DUMMY
WALL BASE

SUSPENDED CEILING ATTACHMENTS


EGG CRATE INSERTS
CHANNEL FRAMING BY OTHERS


ACOUSTIC CEIL.


WOOD RUNNER - BY OTHERS
ACOUSTIC TILE


PLASTER ON METAL LATH
ACOUSTIC TILE ON PLASTER

SALES REPRESENTATIVES

. . . IN ALL PRINCIPAL CITIES

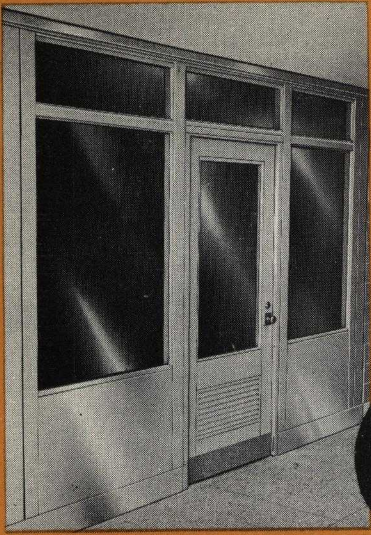
		Phone
ALABAMA		
Birmingham 3	Wilson Door & Window Supply Co., 716 Eighth Court, W.	ALpine 1-4533
Montgomery	Shepard M. Stewart, 1262 Magnolia Curve	AMherst 2-0473
ARIZONA		
Phoenix	Beach Building Specialties, 1040 E. Camelback Rd., P.O. Box 2268	CRestwood 4-3555
ARKANSAS		
Fort Smith	Felix Thomson Co., 423 N. 10th St.	SUnset 2-5067
CALIFORNIA		
Los Angeles	(Whittier) B.L. Wilcox & Associates, 123 Baldwin Place,	OXbow 6-3213
San Francisco 3	Partition Specialties, 344 Harriet Street	UNderhill 3-7791
COLORADO		
Denver 16	Leever Post Co., 4350 N. Broadway	AMherst 6-2475
CONNECTICUT		
Hartford 5	The Reynolds Agency, 634 Asylum Ave.	JAckson 7-3151
DELAWARE		
Wilmington 5	Jandy, Inc., 3407 Lancaster Pike	Wyman, Del. 8-2244
DISTRICT OF COLUMBIA		
Bladensburg, Md.	John H. Hampshire Inc., 4626 Annapolis Rd.	Union 4-0300
FLORIDA		
Jacksonville 3	George P. Coyle & Sons, 2361 Dennis St., P. O. Box 2267	EL 6-4821
Miami	Joe Farrington, Inc., 300 Biscayne Blvd. Way, DuPont Center, Suite 414	FRanklin 4-1717
St. Pete 33	Building Specialties, Inc., P. O. Box 10969	5-4613
West Palm Beach	Engineered Products, 6205 South Dixie	JUstice 5-5545
GEORGIA		
Atlanta	J. R. Ulery Company, 565 Plum St., N. W.	JAckson 1-2299
IDAHO		
	Gerstner Specialties, Inc., 83 Navajo St., P.O. Box 336, Salt Lake City, Utah	EL 5-2993
ILLINOIS		
Chicago 10	The Mills Company, 2561 W. 79th Street	WAlbrook 5-9700
Peoria	W. W. Grote Co., 3208 N. University	5-5612
Rockford	Architectural Iron Co., Inc., 904-22nd Street	3-8403
INDIANA		
Evansville 14	Somers Engineering Sales, P.O. Box 752	GReenleaf 6-2640
Fort Wayne	Irmscher Sales, 2920 Engle Rd., P.O. Box 324	HArrison 4242
Indianapolis 22	Stackhouse Bldg. Specialties Co., 1314 W. Washington	MElrose 2-8503
South Bend	See The Mills Company, Chicago, Ill.	WAlbrook 5-9700
IOWA		
Davenport	Plath Building Supply, P. O. Box 306	Dial 6-0177
Des Moines 8	Kurtz Hardware Co., 312-314 Walnut Street	AT 8-0148
Waterloo	Pinkerton Bldg. Supply, 302½ W. 4th St., Box 419	AD 3-3361
KANSAS		
Hutchinson	Supply Service, Inc., 528 S. Main Street	MOhawk 3-9111
Topeka	See B-D-R Engineering Corp., Kansas City, Mo.	JE 1-8366
Wichita	Supply Service, Inc., 1111 N. Washington	AMherst 7-5831
KENTUCKY		
Lexington	Faulkner-Clark Material Sales, 234 N. Upper St., Box 295	5-2984
Louisville	Kal-Flex Kentucky, 404 N. Hubbard Lane	TWinbrook 5-1577
LOUISIANA		
New Orleans 16	Metal Bldg. Products Co., Inc. 1937 Lafayette St., Box 83	JAckson 5-3242
Shreveport	Harold Lipper Co., 301 Spring St.	4-6686
MAINE		
	See Reynolds Agency, Boston, Mass.	
MARYLAND		
Baltimore	John H. Hampshire Inc., 330 W. 24th Street	HOpkins 7-3970
MASSACHUSETTS		
Boston	The Reynolds Agency, 419 Boylston St., Room 312	KEnmore 6-4844
Pittsfield	Kenneth P. Ritchie, 21 North St., Room 205	HIlcrest 5-5375
Worcester 8	Chester E. Peterson Company, 306 Main Street	PLeasant 4-0734
MICHIGAN		
Alpena	Wiltse Bros. Corp., P.O. Box 32	4300
Detroit	Gardiner C. Vose, Inc., 18080 James Couzens	DIamond 1-4050 1-4051, 1-4052
Flint 1	J. P. Burroughs & Son, Inc., 625 W. Second St.	CE 2-2181
Grand Rapids 7	Associated Material & Supply, 1222 Burton St., S. E.	CHerry 3-3653
Lansing 29	Young Bros. & Daley, Inc., 720 East Michigan	IVanhoe 4-5431
Muskegon Hts.	General Building Materials Co., 2523 Sixth St.	3-2258
Saginaw	Hugh Lee Iron Works, Inc., 925 S. Water Street	PLeasant 7-0338
MINNESOTA		
Minneapolis	Pella Products 929 Washington Ave., S.	FEderal 5-4137
MISSISSIPPI		
	Open	
MISSOURI		
Kansas City	B-D-R Engineering Corp., 4243 Pennsylvania Ave.	JEfferson 1-8366
St. Louis 17	Len A. Maune Company, 8500 Eager Road	WOodland 2-8100
MONTANA		
	Open	
NEBRASKA		
Omaha	Engineering Products Company, P.O. Box 1124	ATlantic 1776
NEVADA		
	Gerstner Specialties, Inc., 83 Navajo St., P.O.Box 336, Salt Lake City, Utah	EL 5-2993
NEW HAMPSHIRE		
	Chester E. Peterson Co., 306 Main St., Worcester Mass.	PLeasant 4-0734

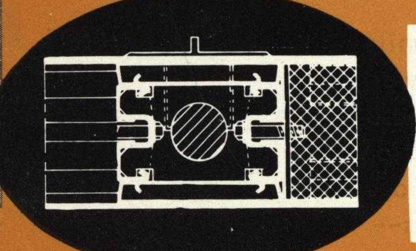
		Phone
NEW JERSEY		
	Northern Section see New York City Southern Section see Philadelphia	
NEW MEXICO		
Albuquerque	Don J. Cummings Co., 7721 Apache Ave., N.E., Box 3103	9-2411
NEW YORK		
Buffalo	A. O. Stilwell Co., Inc., 991 Main St.	GRant 6506
Canandaigua	James D. Reddick, P.O. Box 1	1718
New York 19	Mills Metal Partition Co., 640 Fifth Avenue	JUdson 2-6844
Syracuse	James D. Reddick, 500 Lafayette Bldg.	GRanite 1-2241
Rochester	James D. Reddick, 209 Powers Bldg.	LOcust 2-7331
NORTH CAROLINA		
Asheville	S. R. Goldman, Room 212, Haywood Building	ALpine 3-1151
Carrboro	S. H. Basnight & Sons, Drawer 547, Main St.	Chapel Hill 9-458
Charlotte 1	R. R. Robertson, 1409 Independence Bldg. Box 56	EDison 3-5561
NORTH DAKOTA		
	See Pella Products, Minneapolis, Minn.	FEderal 5-4137
OHIO		
Akron 10	Albert E. Hotard Company, 790 Thayer Street	FRanklin 6-7129
Cincinnati 2	Central Building Products Co., 626 Broadway	GArfield 1-0381,1-0382
Cleveland 3	Mills Metal Partition Co., Inc., 7500 Euclid Ave.	EXpress 1-3726
Columbus 23	Alvan Tallmadge Co., 624 Harmon Ave.	CApitol 1-7858
Dayton 2	Andrew Plocher Sons Co., 424 East First St.,	BAldwin 8-6128
Portsmouth	Earl C. Hayes Co., 1144 Eighth St., P.O. Box 509	ELmwood 3-4450
Toledo 7	Wm. C. Turnbull Co., P.O. Box 44, Sta. C.	CHerry 6-3437
Youngstown 4	L. D. Sheffield & Son, 4185 Belmont Ave. Ext.	RIverside 6-6323
OKLAHOMA		
Tulsa 1	Building Specialties Co., 4403 S. Peoria	RIverside 3-1376
OREGON		
Portland	Gamble-Hawkins Co., 1617 N. W. 14th Avenue	CApital 7-2546
PENNSYLVANIA		
Erie	Erie Steel Products Company, 1400 Irwin Drive	4-1528
Philadelphia 3	Victor C. Smith, 1717 Sansom St.	LOcust 7-5377, 7-5378
Pittsburgh 22	Richard B. Wyatt, 1 Gateway Center	EXpress 1-4463
Reading	John H. Millard, 4 South 20th Street, P.O. Box 934	FRanklin 3-6450
Scranton	Fred R. Evans, 312 Madison Avenue	DIamond 7-9691
RHODE ISLAND		
Providence 7	Edcar Sales Company, 634 Broad Street	DExter 1-6123
SOUTH CAROLINA		
Greenville	J. Mac Rabb Co., 10 Pine Forest Drive, P.O. Box 144	CEdar 2-1303
SOUTH DAKOTA		
Rapid City	J. S. Kibben Co., Inc., 44 East Rapid Street	FIllmore 2-0144
TENNESSEE		
Chattanooga	The Currin Company, 1208 Carter Street	AMherst 6-2762
Knoxville	Lee Martin, 400 Seventeenth St., P.O. Box 10300	2-1634
Memphis 12	Modern Doors & Windows, Inc., 2954 Summer Ave.	GL 8-3332
Nashville	Whittemore Products, Inc., 4012 Hillsboro Road	CY 7-7509
TEXAS		
Amarillo	Ford Brick & Tile Co., 1707 West 8th St.	DRake 3-4822
Austin 31	Ranney Builders Specialty, 5215 East First St., P.O. Box 5062	GReenwood 6-6328
Corpus Christi	Anco Sales Co., P.O. Box 7293	TE 5-6259
Dallas	R. M. Sedwick Co., 230 Mercantile Comm. Bldg.	RIverside 1-3519
El Paso	Neff-Buckner-Holt, Inc., 600 W. Paisano Dr., Box 7278	3-1405
Houston 19	Buie Bldg. Material Co., 7400 Washington Ave.	UNderwood 4-7781
San Antonio	Rufus A. Walker & Co., 401 Delgado St., Box 8357	PErshing 4-5139
UTAH		
Salt Lake City	Gerstner Specialties, Inc., 83 Navajo St., Box 336	EL 5-2993
VERMONT		
	Open	
VIRGINIA		
Bristol	Engineering Sales Corp., 2005 W. State St.	NOrth 3784
Norfolk 7	John H. Hampshire, Inc., 714 Front Street	MAdison 5-3697
Richmond 22	John H. Hampshire, Inc., 2513 Chamberlayne Avenue	ELgin 8-1561
Roanoke 17	John H. Hampshire, Inc., 2101 Winston Ave., S. W.	DIamond 4-5163
WASHINGTON		
Seattle 15	Fryer Knowles, Inc., 6202 Roosevelt Way	LA 3-7700
Spokane 31	Dix Steel Company, Broadway & Fiske	KEystone 4-2633
WEST VIRGINIA		
Clarksburg	Kyle & Co., Corner Court St. & Washington Ave.	MAin 4-5481
Huntington 17	James J. Weiler & Sons, Inc., 202-220 Elm St.	JAckson 5-8123
St. Albans	John H. Hampshire, Inc., 428 Lore Street,	PArkway 7-9821
WISCONSIN		
Eau Claire	Lee Building Specialties Co., 218 Graham Ave.	TEmple 2-0932
Milwaukee 2	J. Linc Kern Co., 759 N. Milwaukee St.	BR 6-8480
WYOMING		
	J. S. Kibben Co., Inc., 44 East Rapid St. Rapid City, South Dakota	FIlmore 2-0144
FOREIGN REPRESENTATIVES		
CUBA		
Havana	Suinsa Suministros Industriales, Aparto de Correos P.O. Box 2736	U-8966
HAWAII		
Honolulu	Theo H. Davies & Co., Ltd., 841 Bishop St.	56991
PUERTO RICO		
San Juan	Earl K. Burton, Inc., Fernandez Juncos Ave., #1400 Stop 20, P.O. Box 1367	2-4672 or 3-3168

the mills company

965 WAYSIDE ROAD
CLEVELAND 10, OHIO

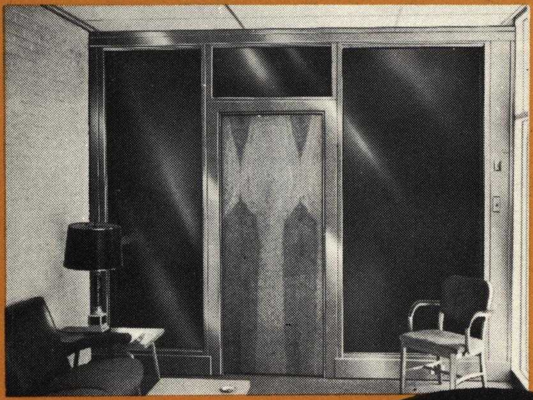
NATIONAL
STEEL
PARTITIONS

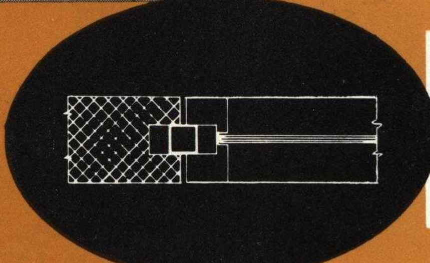




FLUSH TYPE —"F" PARTITIONS

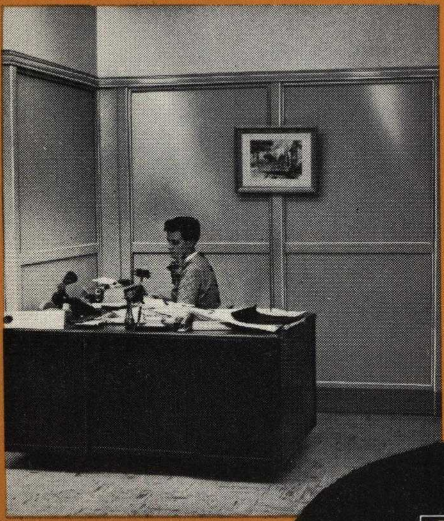
Completely flush wall, 3" thick. Available as all steel, or steel and glass combinations. Quick access to wiring. Ceiling or cornice high. Easily moved and rearranged. Widely used in office buildings, schools, institutions, etc.





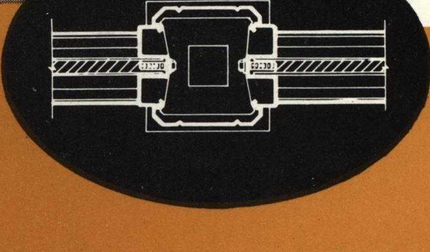
UNIWALL TYPE —"S" PARTITIONS

Flush, 3" thick partitions, with Rockwool filled panels. Panels interlock, making one thin dividing line. All steel or steel and glass combinations. Simple to erect – and to relocate as desired.



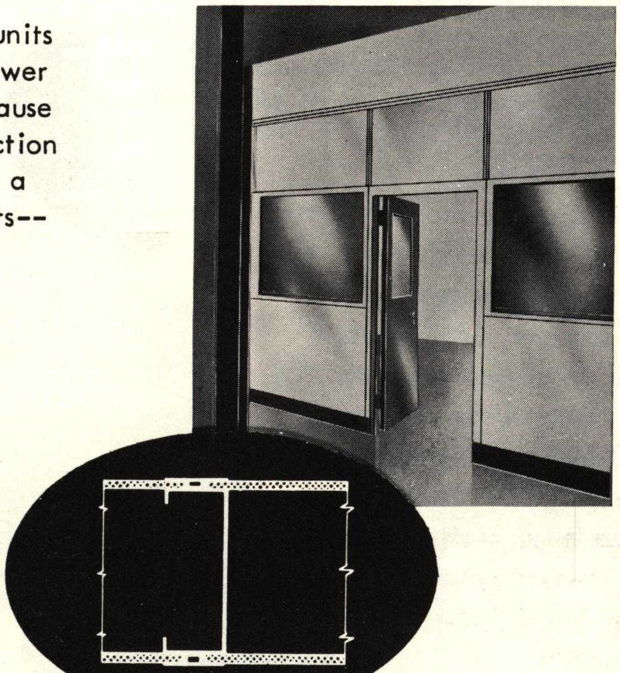
SM—TYPE PARTITIONS

Economy is secured, while maintaining advantages of more expensive types of partitions. Panels are 3/8" thick, with insulating material packed between the steel sheets. 3" thick posts. Easy to relocate or rearrange.



MOVEABLE STEEL PARTITIONS by NATIONAL

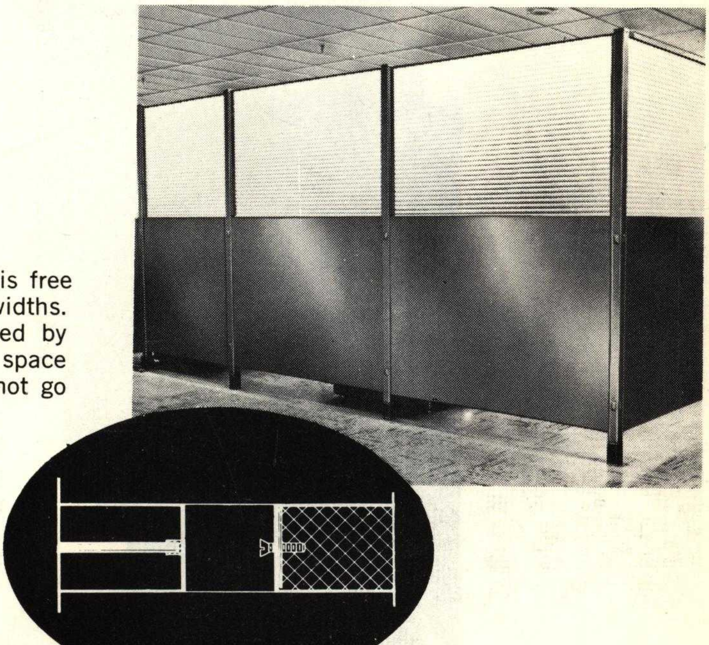
National's moveable walls are in standard units which give complete flexibility of use . . . lower cost of installation--and maintenance. Because of their unique design, and the mass-production techniques in making them, you can secure a wall arrangement to fit specific requirements--at lower cost.



DYNAWALL TYPE –"D" PARTITIONS

A commercial type partition, favored in factories, warehouses, laboratories, institutions, etc. May be built up in combinations of glass, steel mouldings and various non-metallic panels to any ceiling height. Simple to erect and relocate. Full panel interior accessible for wiring and piping.

ALL TYPES for ALL APPLICATIONS



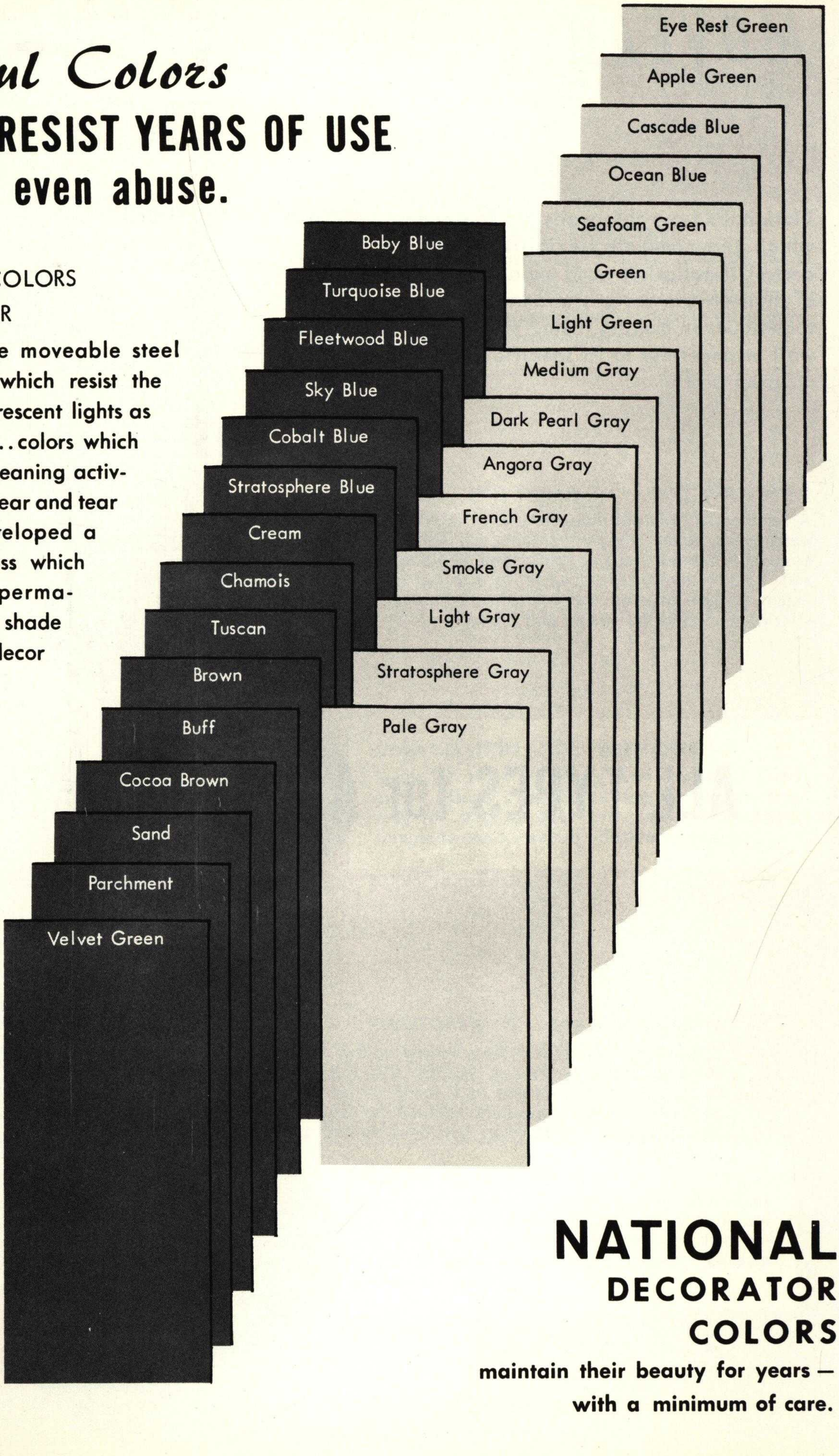
SNAP-JOINT TYPE –"P" PARTITIONS

Complete flexibility may be achieved by this free standing partition. Various heights and widths. Units are interchangeable and easily moved by non-skilled labor. Especially adapted for space divison in those areas where partitions do not go to the ceiling.

Beautiful Colors
THAT RESIST YEARS OF USE ... and even abuse.

FULL RANGE OF COLORS TO FIT ANY DECOR

In order to provide moveable steel partitions in color which resist the harsh effects of fluorescent lights as well as of sunlight... colors which take the abuse of cleaning activities and of human wear and tear —National has developed a special paint process which insures beautiful, permanent color. There is a shade and hue to fit all decor requirements.



Eye Rest Green
Apple Green
Cascade Blue
Ocean Blue
Seafoam Green
Green
Light Green
Medium Gray
Dark Pearl Gray
Angora Gray
French Gray
Smoke Gray
Light Gray
Stratosphere Gray
Pale Gray
Baby Blue
Turquoise Blue
Fleetwood Blue
Sky Blue
Cobalt Blue
Stratosphere Blue
Cream
Chamois
Tuscan
Brown
Buff
Cocoa Brown
Sand
Parchment
Velvet Green

NATIONAL
DECORATOR COLORS

maintain their beauty for years — with a minimum of care.

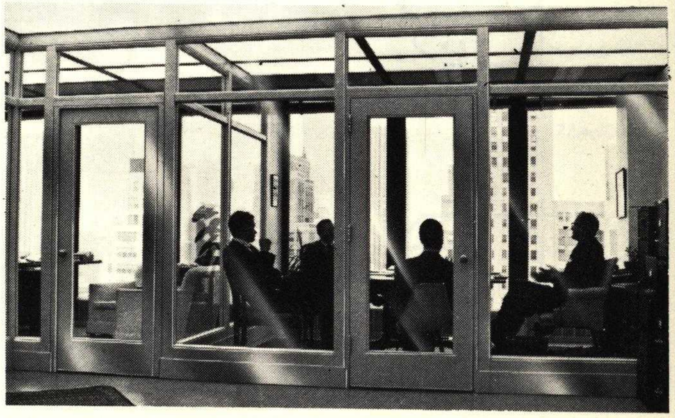
FLUSH TYPE-F PARTITION

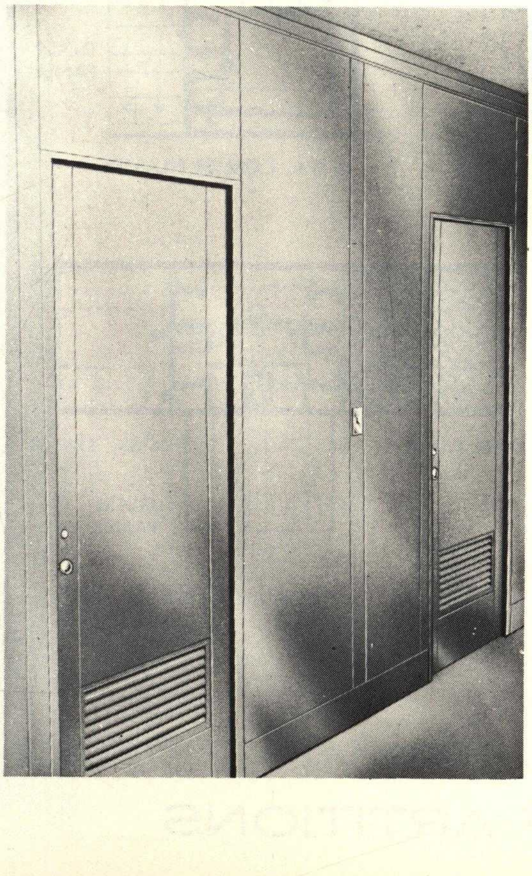
Flush Type "F" Partitions provide a completely flush wall, 3" thick. The factory assembly of panel units by bolting and field joints by patented clips provides the strongest possible construction in a movable wall. Filler is of rockwool, 3" thick.

At left is installation in the main offices of the Daitch Shopwell Super Market, New York, of a combination steel and glass Flush Type "F" Partition, 7'-2¼" high. This is a steel and glass partition with mineral board top filler.

The Flush Type "F" Partition is easily moved and relocated. The 18 ga. vertical channels are bolted to the panels for ease of assembly and replacement of damaged panel faces. The stiffeners are 24 ga., 12" on center, spot-welded 3" on centers.

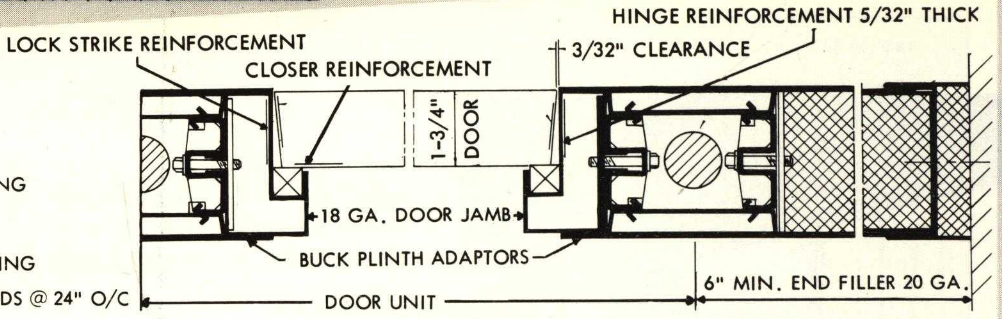
At the right is a Flush Type "F" Partition, 8' high with open lite ceiling-high partition. This installation is in the Francis H. Cabot Advertising Agency, New York City.



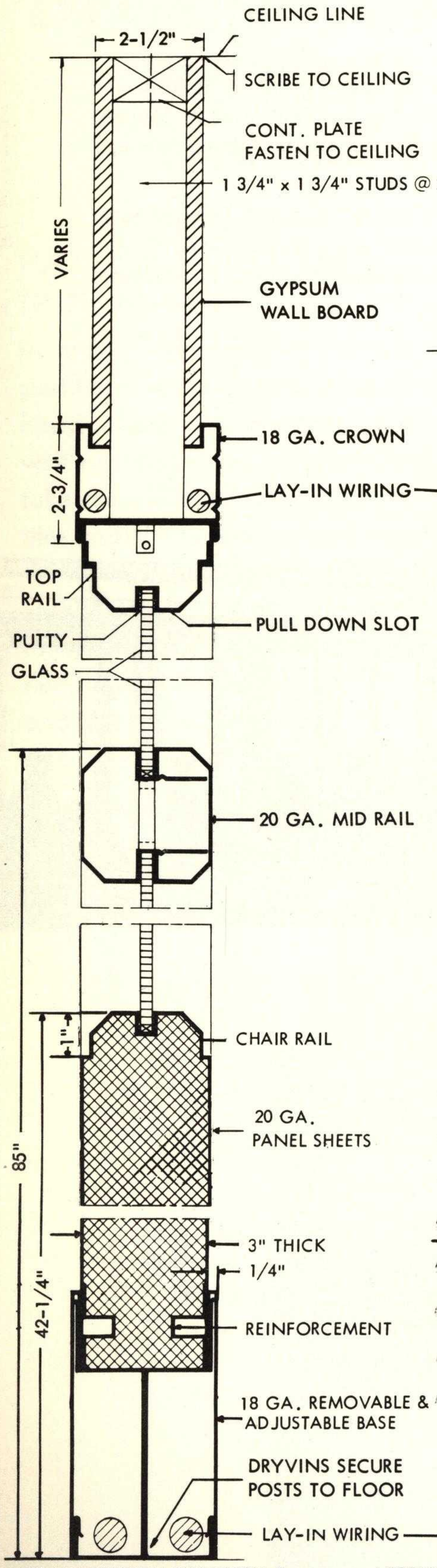


The Flush Type "F" Partition is used widely in office buildings, schools, institutions, etc. because it is easily moved and simply designed, yet sensible in cost. Available in all steel or steel and glass panels. All units are made in 6" increments. Maximum is 48" in steel panels and 54" in steel and glass panels.

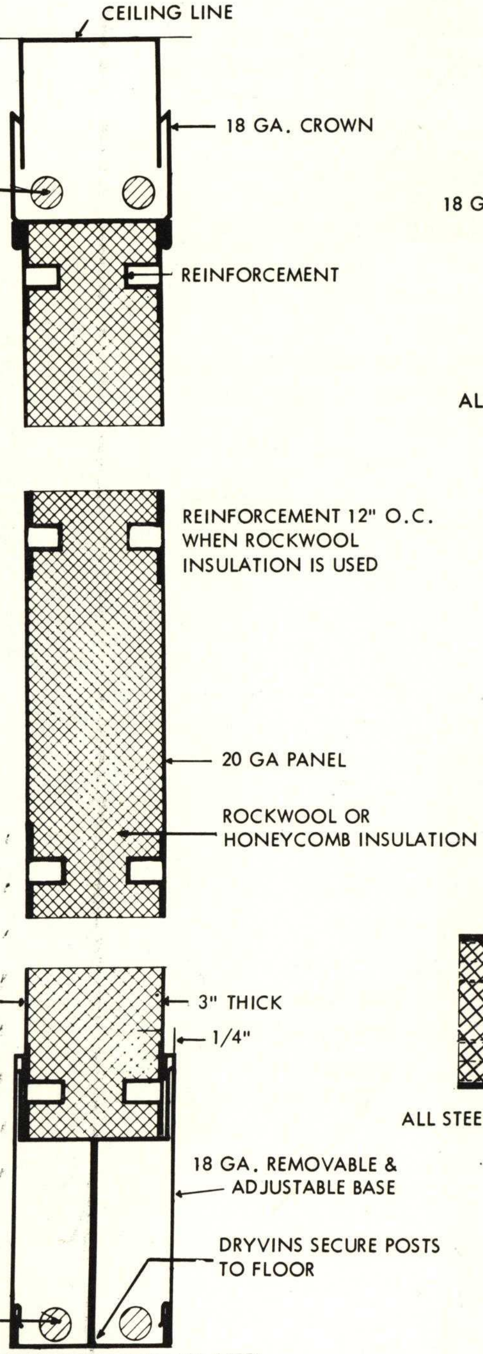
DETAILS - SCALE: 3" = 1'-0"


LOCK STRIKE REINFORCEMENT
CLOSER REINFORCEMENT
3/32" CLEARANCE
HINGE REINFORCEMENT 5/32" THICK
1-3/4"
DOOR
18 GA. DOOR JAMB
BUCK PLINTH ADAPTORS
6" MIN. END FILLER 20 GA.
DOOR UNIT

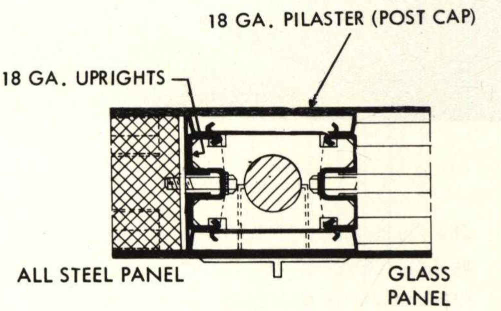
SECTION THRU DOOR UNIT


2-1/2"
CEILING LINE
SCRIBE TO CEILING
CONT. PLATE FASTEN TO CEILING
1 3/4" x 1 3/4" STUDS @ 24" O/C
VARIES
GYPSUM WALL BOARD
18 GA. CROWN
2-3/4"
LAY-IN WIRING
TOP RAIL
PUTTY
GLASS
PULL DOWN SLOT
20 GA. MID RAIL
1"
CHAIR RAIL
20 GA. PANEL SHEETS
85"
3" THICK
1/4"
REINFORCEMENT
42-1/4"
18 GA. REMOVABLE & ADJUSTABLE BASE
DRYVINS SECURE POSTS TO FLOOR
LAY-IN WIRING

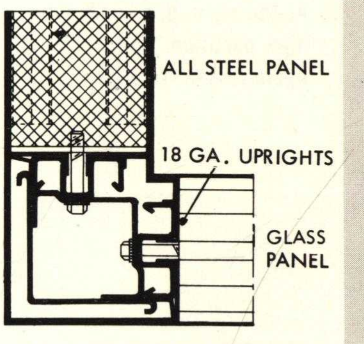
VERTICAL SECTION THRU STEEL & GLASS PARTITION


CEILING LINE
18 GA. CROWN
REINFORCEMENT
REINFORCEMENT 12" O.C. WHEN ROCKWOOL INSULATION IS USED
20 GA PANEL
ROCKWOOL OR HONEYCOMB INSULATION
3" THICK
1/4"
18 GA. REMOVABLE & ADJUSTABLE BASE
DRYVINS SECURE POSTS TO FLOOR

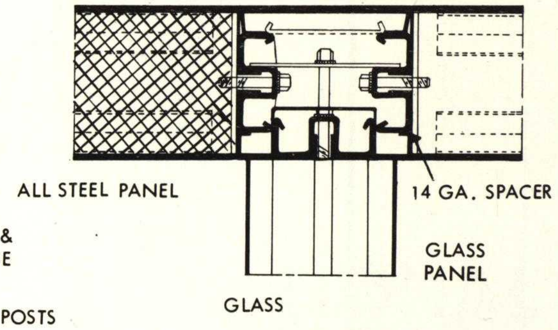
VERTICAL SECTION THRU ALL STEEL PARTITION CEILING HIGH


18 GA. PILASTER (POST CAP)
18 GA. UPRIGHTS
ALL STEEL PANEL
GLASS PANEL

ONE WAY POST

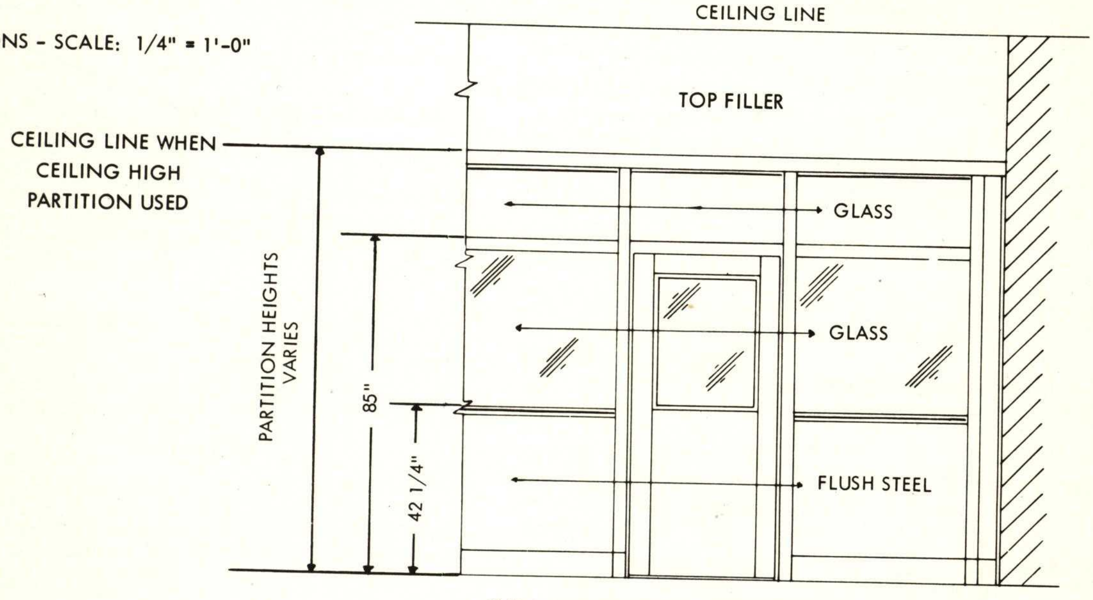

ALL STEEL PANEL
18 GA. UPRIGHTS
GLASS PANEL

18 GA. CORNER PILASTER

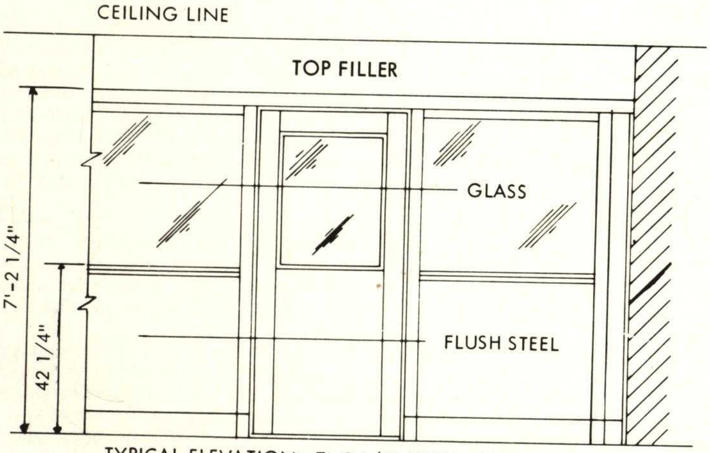

ALL STEEL PANEL
14 GA. SPACER
GLASS PANEL
GLASS

"T" CONDITION POST

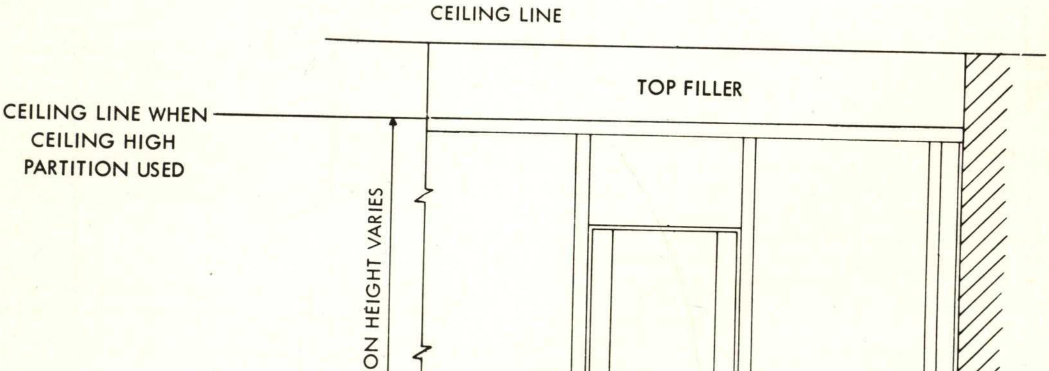
ELEVATIONS - SCALE: 1/4" = 1'-0"


CEILING LINE
TOP FILLER
CEILING LINE WHEN CEILING HIGH PARTITION USED
GLASS
PARTITION HEIGHTS VARIES
85"
GLASS
42 1/4"
FLUSH STEEL

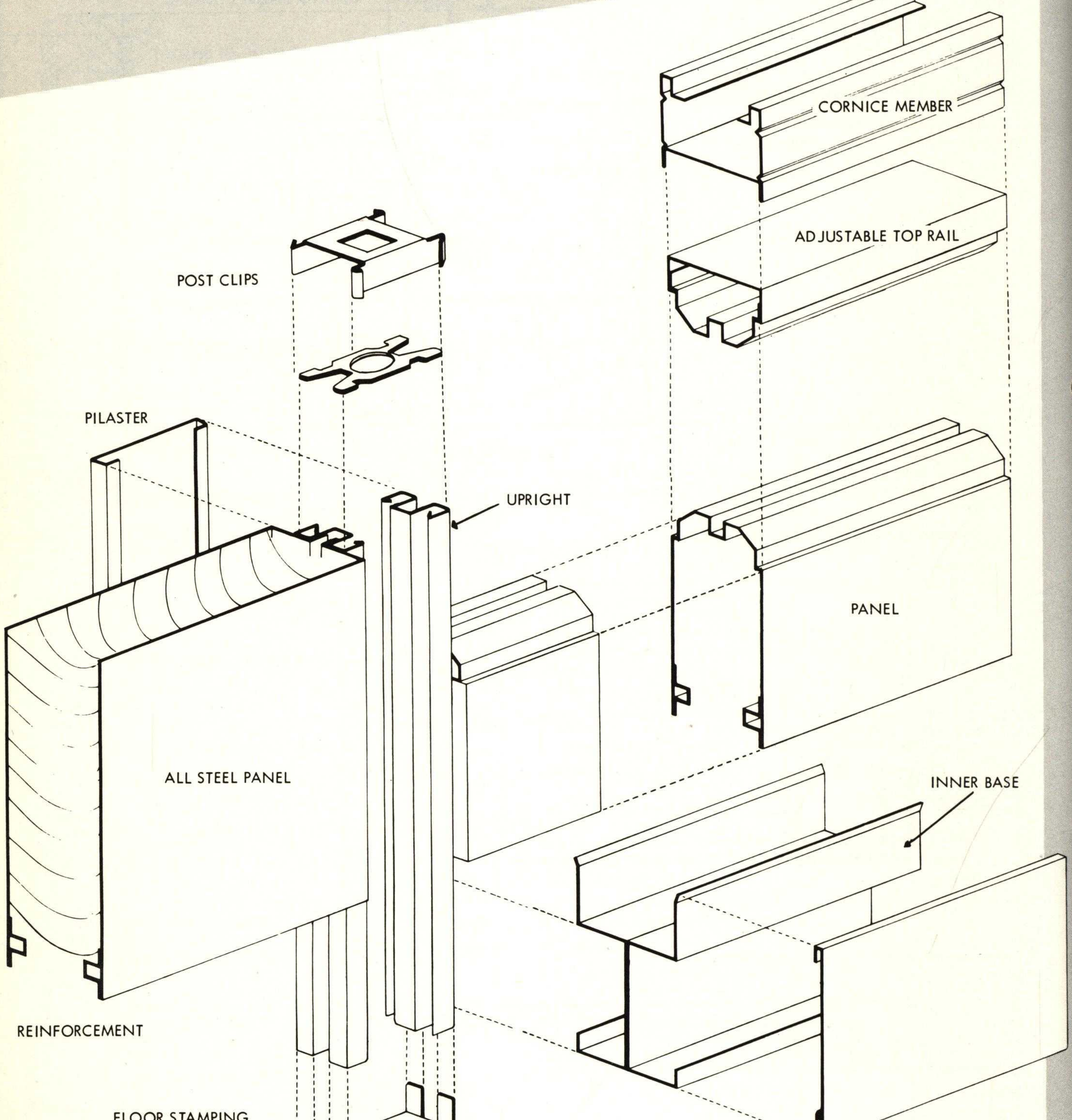
TYPICAL ELEVATION, STEEL & GLASS PARTITION


CEILING LINE
TOP FILLER
GLASS
7'-2 1/4"
42 1/4"
FLUSH STEEL

TYPICAL ELEVATION, 7'-2 1/4" HIGH, STEEL & GLASS


CEILING LINE
TOP FILLER
CEILING LINE WHEN CEILING HIGH PARTITION USED
PARTITION HEIGHT VARIES
FLUSH STEEL

TYPICAL ELEVATION, ALL STEEL,


CORNICE MEMBER
ADJUSTABLE TOP RAIL
POST CLIPS
PILASTER
UPRIGHT
PANEL
ALL STEEL PANEL
INNER BASE
REINFORCEMENT
FLOOR STAMPING

NATIONAL ***Moveable*** STEEL PARTITIONS

specifications

GENERAL

Completely furnish and erect National Steel Partition Company's Flush Type F Steel Partitions as specified herein.

SHOP DRAWINGS

Detailed shop drawings of complete plan showing partition, layout typical elevations, hardware schedule, finish and any special conditions and construction shall be submitted for approval to the architect before fabrication and assembly.

ERECTION

Installation of all steel partition runs shall be on top of the finished flooring. All partitions shall be fitted to existing building conditions and shall be erected in a substantial and rigid manner, straight and plumb with horizontal lines level. All units shall be aligned at joints and interlocked. Floor fastenings shall be completely concealed and adjustable to floor level variations.

CHANGEABILITY

Any layout change which is desired shall be easily and economically executed without debris or dirt and with 100% salvage. Partitions and doors shall be completely interchangeable with units of like size. Panel and door units may be dismantled and reinstalled without disturbing adjacent units.

MATERIALS

Exposed steel shall be commercial quality cold-rolled properly annealed and roller leveled with smooth, clean surfaces. All gauges of specified metal are U. S. Standard.

UNITS

For future extensions of either 2-, 3-, or 4-way, units shall be so assembled that extensions may be joined without removal of adjacent units or material above cornice line. The partitions are to be 3" thick, height shall be standard cornice of either 7'-2¼", 8'-2¼", 9'-2¼" or 10'-2¼" to top of cornice trim as indicated. Factory will ship all units in one assembly from floor to cornice in widths of 6" increments not to exceed 48" in all steel and 54" in steel and glass.

PANELS

Shall be made of two sheets of 20 gauge and insulation 3" thick. Panels shall be flush with face of post caps and the sheets proper shall be reinforced with horizontal stiffeners spot-welded on 3" centers and these stiffeners shall be placed approximately every 12" in the height of a sheet.

Rockwool filler shall be packed solid between panel sheets for further sound absorption and backing to the sheets.

An alternate construction shall omit the horizontal stiffeners and substitute honeycomb for rockwool insulation.

As indicated in elevation, glass opening shall be provided in upper sections of panels for either single glass or hermetically sealed double glass units.

DOORS, TRANSOMS AND DOOR FRAMES

Doors shall be made flush with No. 20 gauge 5" wide styles flush with No. 20 gauge pans which shall deaden sound. Standard swing door with frame shall fit a 42" wide section and the door shall be 3' x 6'-10". Doors shall be reinforced for hinges, locks and door checks. Hinge reinforcement shall be 10 gauge, lock reinforcement 10 gauge, check reinforcement 14 gauge. Doors shall be 1¾" thick with 3/32" clearance at heads and jambs. All transoms are to be center pivoted and pole operated. All frames shall be of floating type, of 18 gauge steel, to compensate for various floor coverings at different floor levels. Frame height shall be adjusted by telescoping head. Continuous rubber gasket shall be installed at head and jambs of all frames.

HARDWARE

All hardware shall be interchangeable as called for in schedule of hardware. Two 5" x 4" loose pin ball bearing butt hinges shall be provided for all doors. Mortise latches in U. S. 10 finish shall be standard Cylinder locks of varying functions, finishes and designs also available.

BASE

The base shall be No. 18 gauge, 6" high with ¼" projection, plinths will normally be used at posts to allow the base to more closely conform to the floor. If desired, bases can be furnished in continuous lengths with the plinths omitted. Bases are to be vertically adjustable. In order to allow easy access to utility spaces, base shall be made removable.

CEILING TRIM

(For those partitions that extend to ceiling.)

They shall be constructed to run over all units to ensure rigidity for horizontal bracing. They shall be provided with a lay-in type wire raceway easily accessible from either side of unit. Raceway and internal cornice to be concealed by snap-in ornamental trim of No. 20 gauge.

CORNICE

(Provided for those partitions that do not reach ceiling.)

Cornice shall run in a continuous line over top of units. No. 18 gauge rolled steel section giving maximum rigidity for horizontal bracing. They shall also be provided with a lay-in type wire raceway.

FLUSH POST CAPS

Caps shall be of removable type for easy wiring and disassembly. Surface of caps to be made flush with panel face. They shall be of flat design in No. 18 gauge.

WALL FILLERS

Shall be telescopically adjustable and have no exposed raw steel edges or wall fastenings. They shall be of No. 20 gauge.

TOP FILLER

(Omit if no top filler required.)

For partitions that extend to ceiling, Mineral board top fillers which are double sheet mineral board ⅜" thick, shall be applied over wood studs set 24" on center.

As an alternate, steel top filler of No. 20 gauge can be supplied with single flush line joints and made of double steel and shall be removable.

FLOOR CONNECTIONS

All floor connections are concealed at base and all fittings shall be made below each post. They shall be provided with leveling shims for adjustment to normal floor irregularities. Connections are to be securely fastened to floor.

PANEL CONNECTIONS

All units proper are to be connected by No. 11 gauge compression and tension clip that maintains unit rigidity and properly aligns connecting units. In order to permit vertical wiring, clips are provided with a wiring hole and projections for snapping on flush post cap that are to be held in place without bolts, nuts, etc. Application of clips may be made at any point in height of unit.

FACTORY FINISH

All exposed surfaces of completed partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried prior to paint applications. Partitions are finished permanently with an enamel coat of alkyd-melamine base and baked to ensure quality and durability.

The finish coat shall be of "eggshell" texture, uniform throughout; color shall be National Steel Partition Company's Color No. .... or color to be as selected. If base and door colors are different from partition colors, specify National Steel Partitions Company Color No. ....

GLASS AND GLAZING

Glass for metal partitions shall be supplied by partition contractor and shall be of a quality, thickness and design as specified in drawings. As called for in specifications, glass shall be set in putty tinted to match partition or neoprene glazing strips. Glazing molds shall be self-seating and ensure a positive stop on glass at all times.

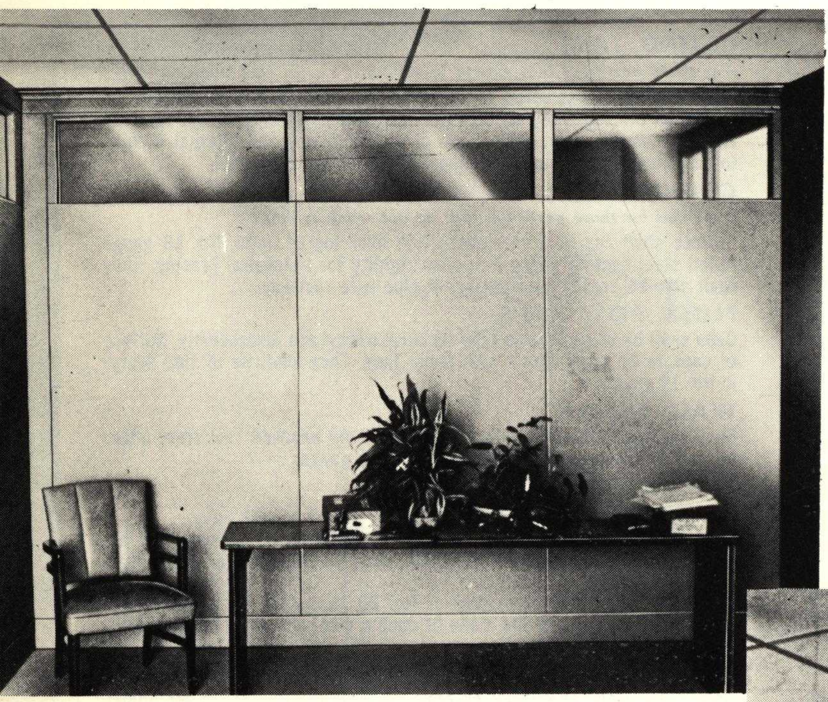
SOUNDPROOFING

Partition runs should be noted on plans as "soundproof" if maximum sound-proofing is necessary and the following specifications added: During erection of partitions all post connections, base and cornice and wall fillers shall be solidly packed with rockwool. The point where partition base and floor contact shall be sealed with felt which shall make continuous contact with floor and base. Top filler (if any) shall be solidly packed with rockwool for its entire height. All glazed partition runs shall be hermetically sealed double glass panels. To prevent sound leakage around glass, hermetically sealed double glass panels shall have all four sides of the double glass lites well sealed with putty. Automatic felt drops shall be furnished at each door.

CLEANING

All minor defects and blemishes shall be touched up neatly and finger marks removed. Cartons and rubbish shall be removed and the job left broom clean. Erection dust, washing, cleaning of glass are to be performed by user.

NIWALL TYPE - S PARTITIONS

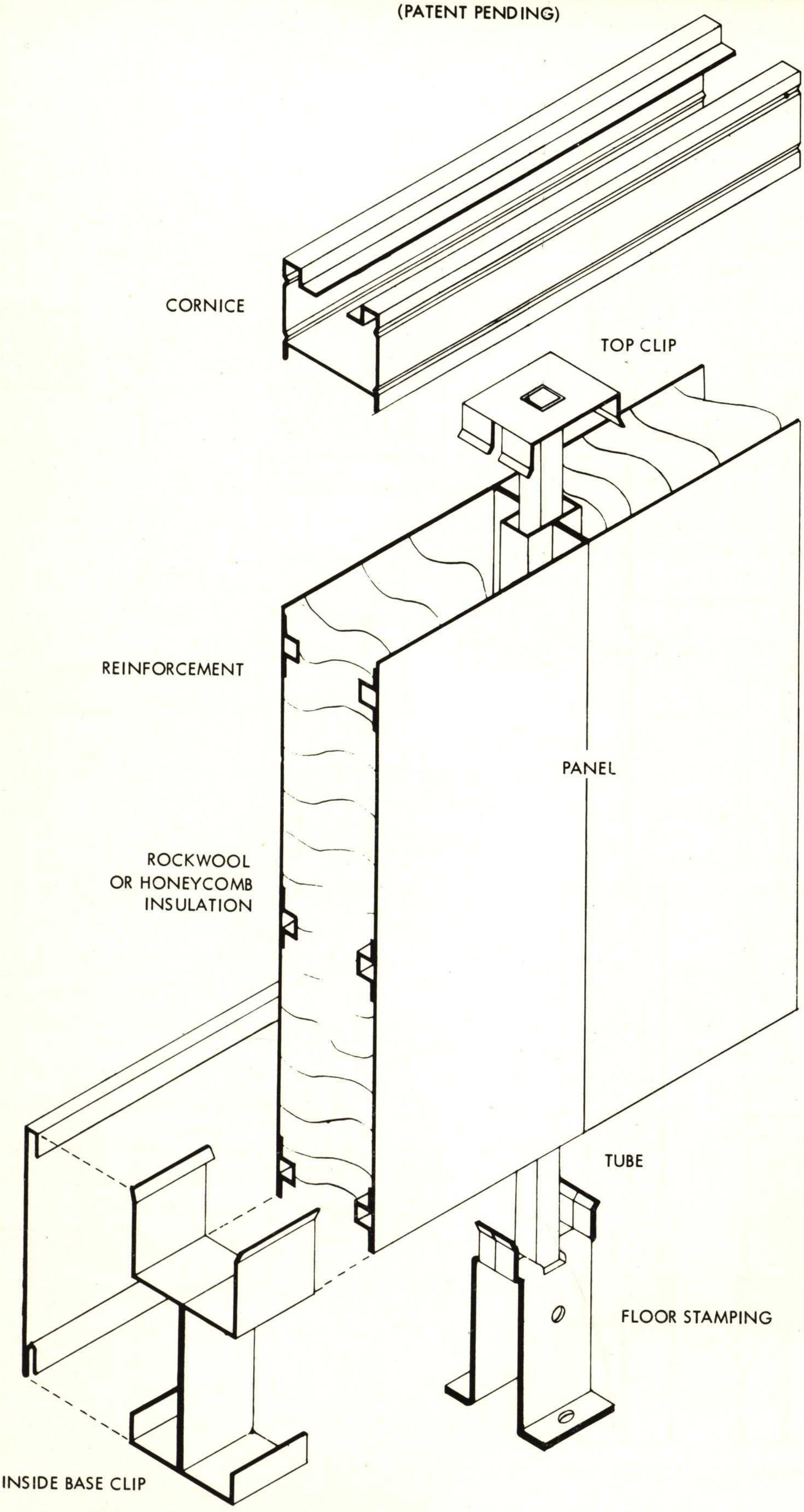


This is a low cost full 3" thick partition available in all steel, steel and glass or open lite glass panels. Any panel or door unit may be removed and re-erected within a run without disturbing the adjacent panels or the cornice above, yet the panels are interlocked securely. Easy to erect, and easy to relocate. There are built-in wiring facilities and provisions for electrical components. Floor shoe and top panel plate are designed so that they interlock, providing tight joints and positive panel alignment.

Two applications of the National Uniwall Type "S" Partitions are indicated by the illustrations on this page. Both show a 9' ceiling high partition; one with a glass and steel combination while the other has a glass lite above doorline.

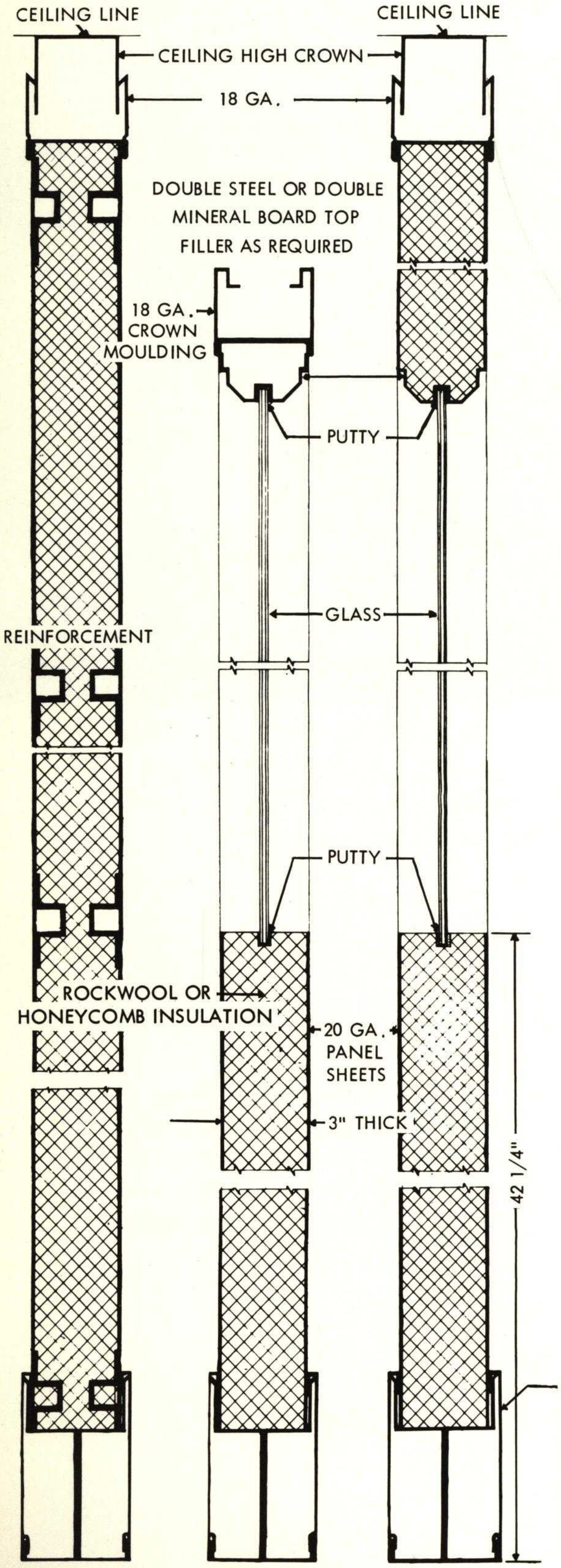
UNIWALL TYPE - S PARTITIONS

(PATENT PENDING)

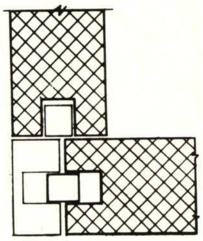

CORNICE
TOP CLIP
REINFORCEMENT
PANEL
ROCKWOOL
OR HONEYCOMB
INSULATION
TUBE
FLOOR STAMPING
INSIDE BASE CLIP

UNIWALL TYPE - S PARTITIONS

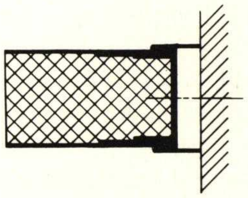
DETAILS - SCALE: 3" = 1'-0"


CEILING LINE
CEILING LINE
CEILING HIGH CROWN
18 GA.
DOUBLE STEEL OR DOUBLE MINERAL BOARD TOP FILLER AS REQUIRED
18 GA. CROWN MOULDING
PUTTY
GLASS
REINFORCEMENT
PUTTY
ROCKWOOL OR HONEYCOMB INSULATION
20 GA. PANEL SHEETS
3" THICK
42 1/4"
18 GA. REMOVABLE AND ADJUSTABLE BASE

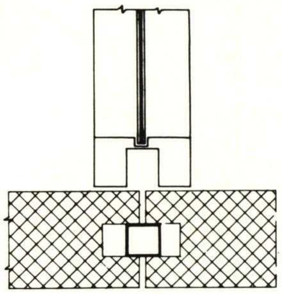
SECTION "A-A" SECTION "B-B" SECTION "C-C"



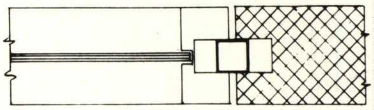
CORNER CONDITION



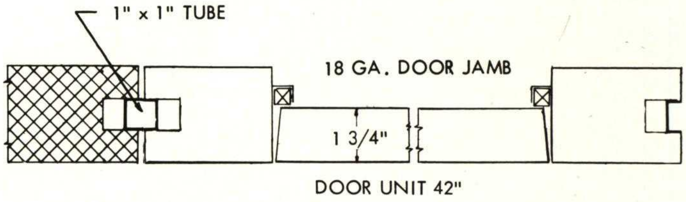
END FILLER CONDITION



"T" CONDITION

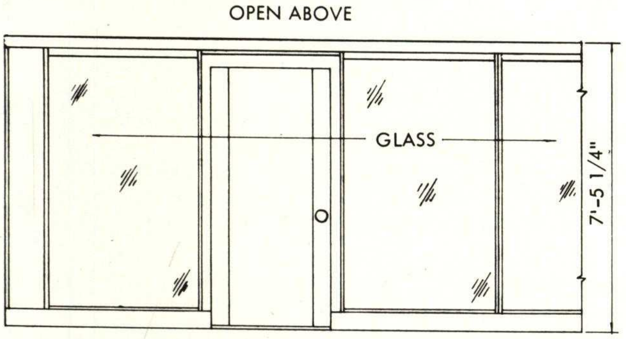


ONE WAY POST

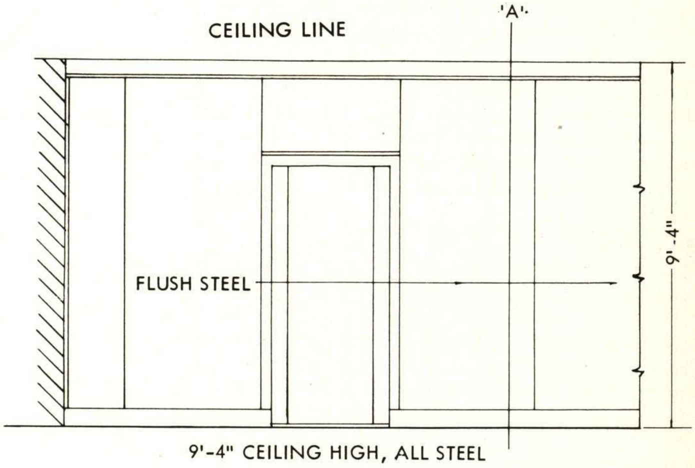

1" x 1" TUBE
18 GA. DOOR JAMB
1 3/4"

DOOR UNIT 42"

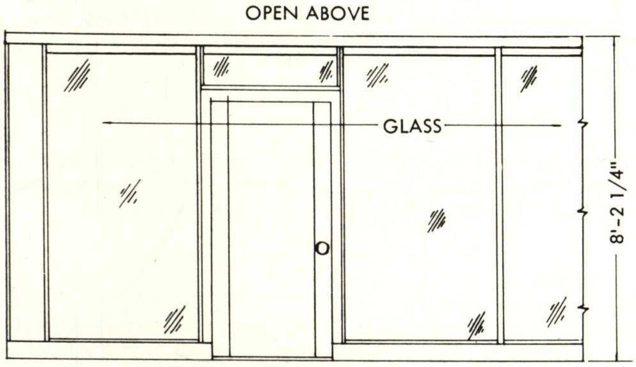
ELEVATIONS - SCALE: 3/16" = 1'-0"


OPEN ABOVE
GLASS
7'-5 1/4"

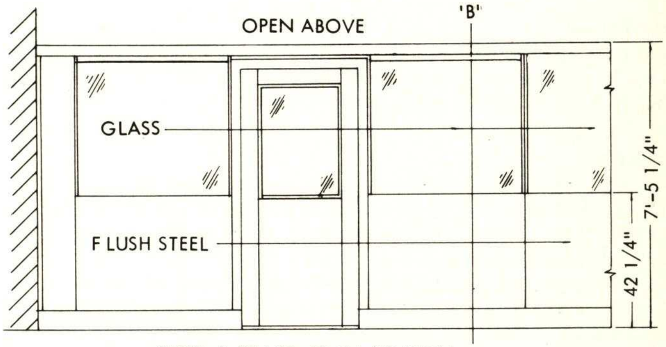
ALL GLASS, 7'-5 1/4"


CEILING LINE
'A'
FLUSH STEEL
9'-4"

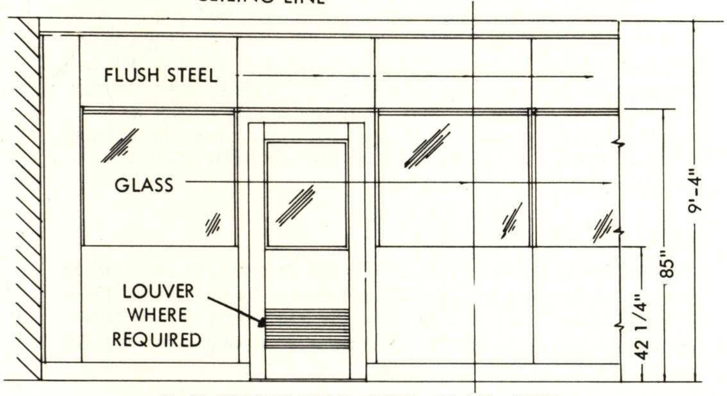
9'-4" CEILING HIGH, ALL STEEL


OPEN ABOVE
GLASS
8'-2 1/4"

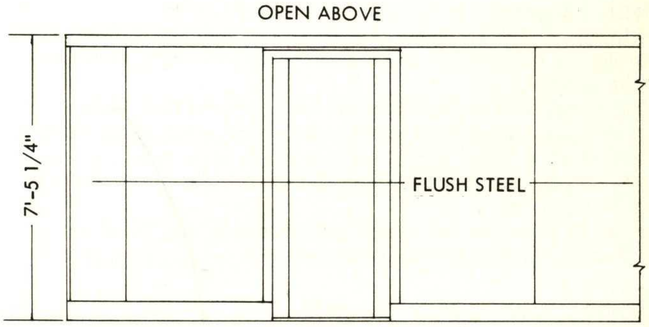
8'-2 1/4" HIGH, ALL GLASS


OPEN ABOVE
'B'
GLASS
FLUSH STEEL
7'-5 1/4"
42 1/4"

STEEL & GLASS, 7'-5 1/4" HIGH


CEILING LINE
'C'
FLUSH STEEL
GLASS
LOUVER WHERE REQUIRED
9'-4"
85"
42 1/4"

9'-4" CEILING HIGH, STEEL, GLASS, STEEL


OPEN ABOVE
FLUSH STEEL
7'-5 1/4"

ALL STEEL, 7'-5 1/4" HIGH

UNIWALL TYPE - S PARTITIONS

specifications

GENERAL
Completely furnish and erect National Steel Partition Company's Type "S" Steel Partitions as specified herein.

SHOP DRAWINGS
Detailed shop drawings of complete plan showing partition, layout, typical elevations, hardware schedule, finish and any special conditions and construction shall be submitted in duplicate for approval to the architect before fabrication and assembly.

ERECTION
Installation of all partition runs shall be on top of the finished flooring. All partitions shall be fitted to existing building conditions and shall be erected in a substantial and rigid manner, straight and plumb with horizontal lines level. All units shall be aligned at joints and interlocked, and floor fastenings shall be completely concealed and adjustable to floor level variations. Reinforcements shall be provided to ceiling or bracing on runs exceeding 20′ in length unsupported by cross runs.

CHANGEABILITY
Any layout change which is desired shall be easily and economically executed without debris or dirt and with 100% salvage. Partitions and doors shall be completely interchangeable with units of like size. Door units and panel units shall be interchanged without disturbing adjacent units and cornice above.

MATERIALS
Exposed steel shall be commercial quality cold-rolled furniture steel properly annealed and patent leveled with smooth, clean surfaces. All gauges of specified metal are U. S. Standard.

UNITS
For future extensions of either 2-, 3-, or 4-way, units shall be so assembled that extensions may be joined without removal of adjacent units or material above cornice line. (The partitions are to be 3″ thick, height shall be standard cornice of either 7′-5¼″, 8′-2¼″, 9′-2¼″ or ceiling heights as required.) Factory will ship all units in one assembly from floor to cornice in widths of 6″ increments not to exceed 48″ in all steel and 54″ in steel and glass. All panels of like size are to be interchangeable. All 42″ door sections will interchange with 42″ panels.

PANELS
Shall be made of two sheets of No. 20 ga. cold rolled steel. Panels shall be flush and the panel sheets proper shall be reinforced with horizontal stiffeners spot-welded on 3″ centers and these stiffeners shall be placed approximately every 12″ in the height of a sheet.

Partitions of steel and glass shall be similar to all steel except that openings for glass shall be provided above chair rail height, as indicated in the elevation.

All glass partitions shall be glazed full height within a steel panel frame. No. 20 gauge steel shall be used for the vertical glazing posts and the edges shall be formed to abut adjacent panels same as all steel. Horizontal 20 gauge top glazing members shall be self seating and telescopic within the top rail.

As an Alternate the hat shaped reinforcements may be omitted if honeycomb is substituted for rockwool.

DOORS AND DOOR FRAMES
Doors shall be made of flush design and they shall be packed with rockwool. Standard swing door with frame shall fit a 42″ wide section and the door shall be 3′ x 6′10″. Doors shall be reinforced for hinges, locks and door checks. Hinge reinforcement shall be 10 gauge, lock reinforcement 10 gauge, door check reinforcement 14 gauge. Doors shall be 1¾″ thick with 3/32″ clearance at heads and jambs.

To compensate for floor irregularities, all frames shall be fully adjustable.

HARDWARE
Shall be National's Standard.

All hardware shall be interchangeable as called for in schedule of hardware. Two 5″ x 4″ loose pin ball bearing butt hinges shall be provided for all doors.

BASE
The base shall be of flat sanitary design and made of No. 18 gauge, 6″ high with ¼″ projection, running in a continuous line on both sides of partition. To allow for normal irregularities in floor elevations, base is to be vertically adjustable. In order to allow easy access to utility spaces, base shall be made removable.

CEILING TRIM
(For those partitions that extend to ceiling.)

They shall be constructed to run over all units to ensure rigidity for horizontal bracing. They shall be provided with a lay-in type wire raceway easily accessible from either side of unit. Raceway and internal cornice to be concealed by ornamental trim of No. 18 gauge.

CORNICE
(Provided for those partitions that do not reach ceiling.)

Cornice shall run in a continuous line over top of units. No. 18 gauge rolled steel section giving maximum rigidity for horizontal bracing. They shall also be provided with a lay-in type wire raceway easily accessible from either side.

WALL FILLERS
Shall be telescopically adjustable and have no exposed raw steel edges or wall fastenings. They shall be double steel sheets with finish appearance similar to partition panels and shall be packed with glass wool.

TOP FILLER
(Omit if no top filler required.)

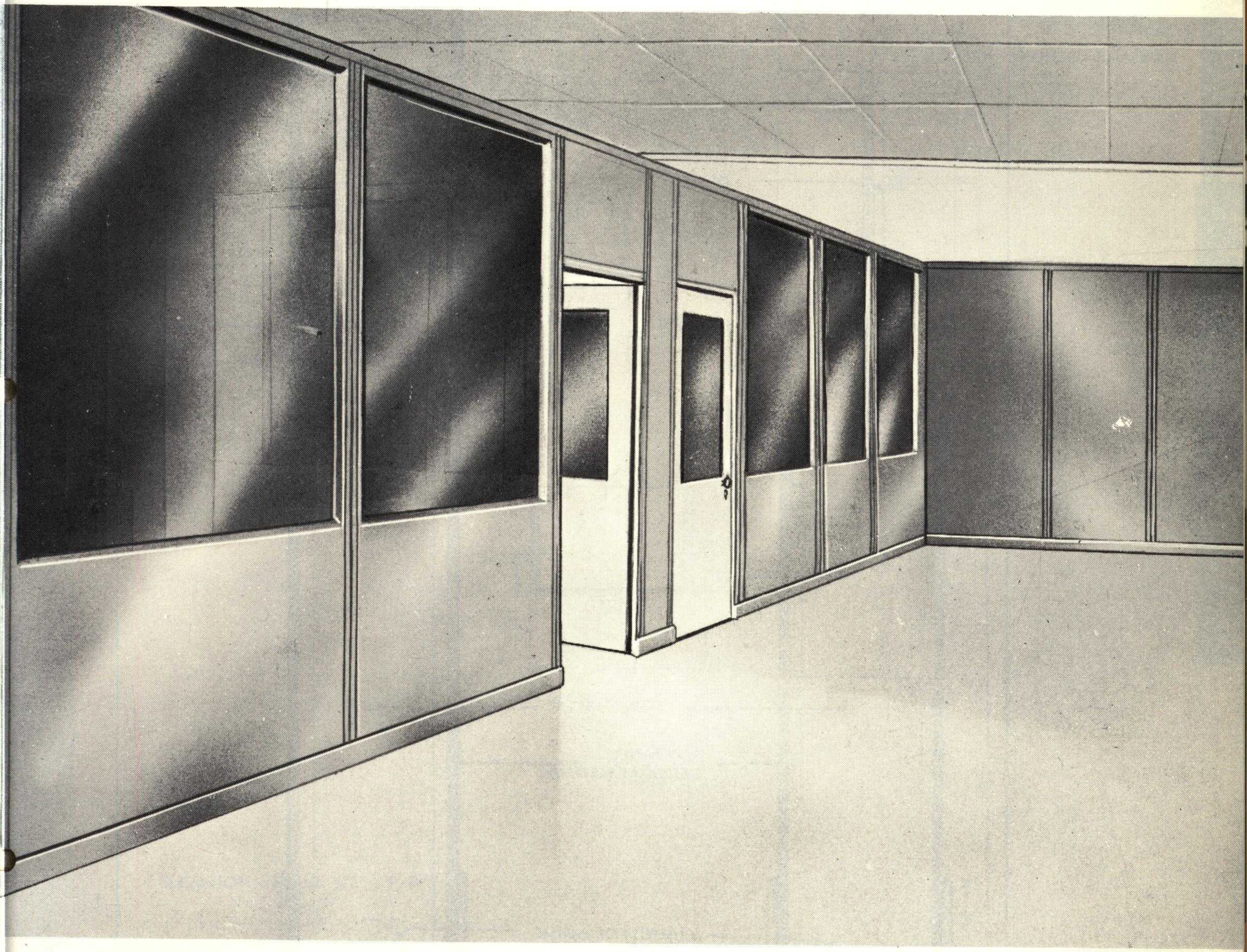
For partitions that extend to ceiling, Mineral board top fillers which are double sheet mineral board ⅜″ thick, shall be applied over studs set 24″ on center.

FACTORY FINISH
All exposed surfaces of completed partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried prior to paint applications. Partitions are finished permanently with a baked urea Melamine enamel to ensure quality, durability and performance. The finish coat shall be of "eggshell" texture, uniform throughout; color shall be National Steel Partition Company's Color No. .... or color to be as selected. If base and door colors are different from partition colors specify National Steel Partitions Company Color No. ....

GLASS AND GLAZING
Glass for metal partitions shall be supplied by contractor and shall be of a quality, thickness and design as specified in drawings. As called for in specifications, glass shall be set easily into integral glazing moulds which are a part of the glass frame and puttied. Neoprene glazing strips may be used as an alternate to putty.

CLEANING
All minor defects and blemishes shall be touched up neatly and finger marks removed. Cartons and rubbish shall be removed and the job left broom clean. Erection dust, washing, cleaning of glass are to be performed by user.

DYNAWALL TYPE - D PARTITIONS



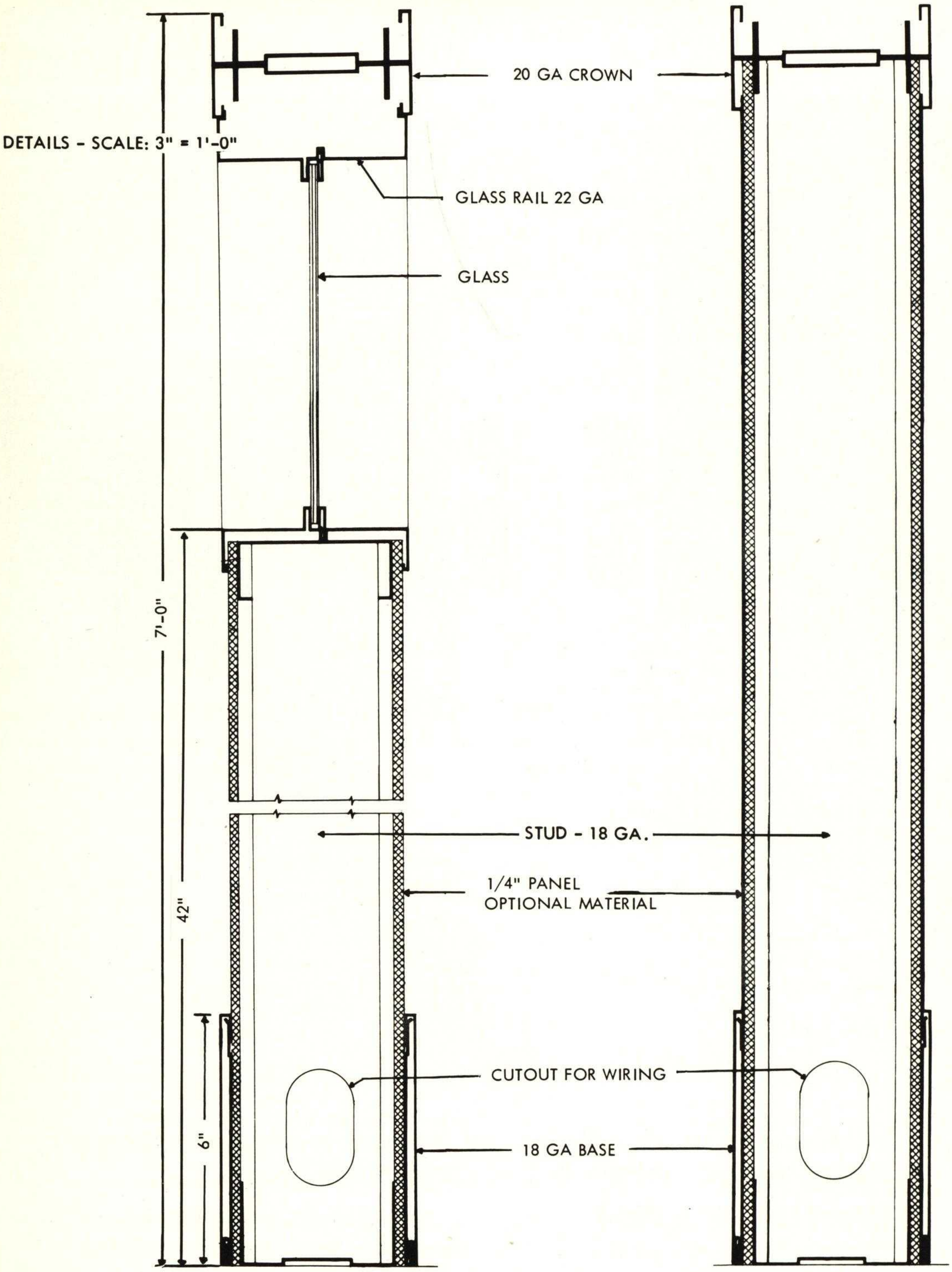
In order to make available a truly low cost, yet quality movable partition, National developed Dynawall Type "D"— the most economical partition made.

Dynawall is a field assembled system, using steel mouldings and various types of commercially available panel boards (¼" thick). Both panel faces are completely removable without disturbing adjacent panels and frames. This gives complete latitude of wiring and plumbing installation.

Panels and mouldings may be obtained in National's permanent factory-baked enamel finish or may be painted in the field.

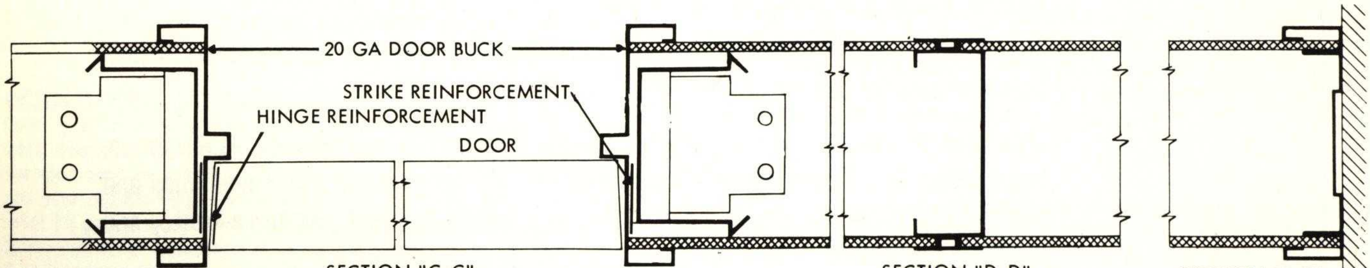
This type of partition is particularly favored in factories, warehouses, laboratories, institutions, etc. Various combinations may be built up of glass, steel mouldings and non-metallic panels to any ceiling height. It is simple to erect and to re-locate, and is 100% salvagable.

DYNAWALL TYPE - D PARTITIONS


20 GA CROWN
DETAILS - SCALE: 3" = 1'-0"
GLASS RAIL 22 GA
GLASS
7'-0"
42"
STUD - 18 GA.
1/4" PANEL
OPTIONAL MATERIAL
6"
CUTOUT FOR WIRING
18 GA BASE

SECTION "A-A"

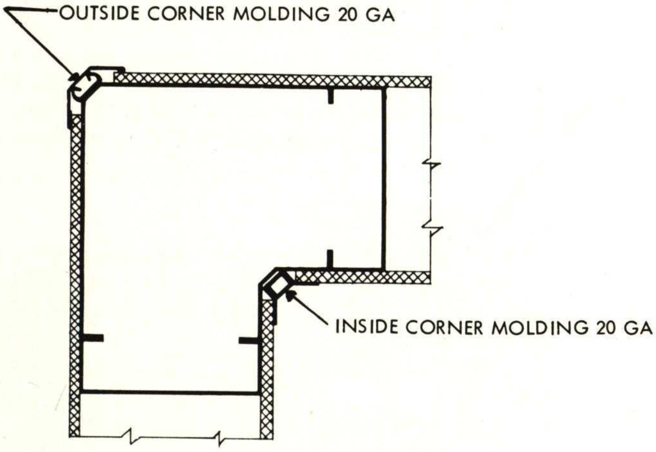
SECTION "B-B"


20 GA DOOR BUCK
STRIKE REINFORCEMENT
HINGE REINFORCEMENT
DOOR

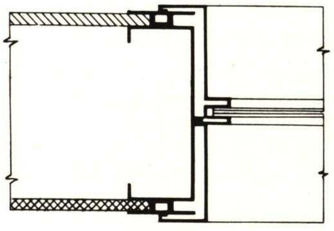
SECTION "C-C"

SECTION "D-D"

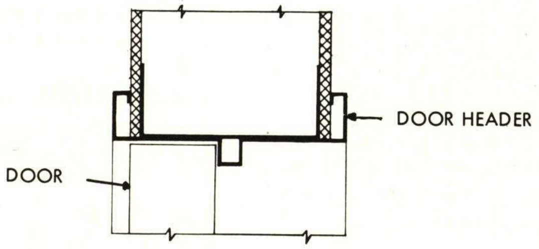
SECTION "E-E"


OUTSIDE CORNER MOLDING 20 GA
INSIDE CORNER MOLDING 20 GA

TYPICAL CORNER CONDITION

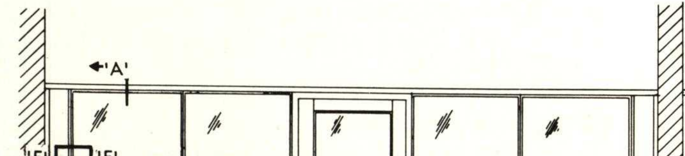


SECTION "F-F"

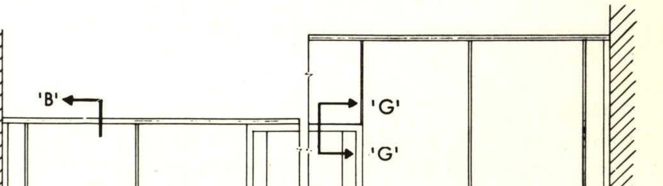

DOOR HEADER
DOOR

SECTION "G-G"

ELEVATION - SCALE: 3/8" = 1'-0"



TYPICAL ELEVATION TYPE "D" SOLID & GLASS



TYPICAL ELEVATION TYPE "D" SOLID

specifications

GENERAL

Completely furnish and erect National Steel Partition Company's Type D "Dynawall" Stud Type Steel Partitions as specified herein.

SHOP DRAWINGS

Detailed shop drawings of complete plan showing partition, layout, typical elevations, hardware schedule, finish and any special conditions and construction shall be submitted in duplicate for approval to the architect before fabrication.

ERECTION

Installation of all steel partition runs shall be on top of the finished flooring. All partitions shall be fitted to existing building conditions and shall be erected in a substantial and rigid manner, straight and plumb with horizontal lines level. All units shall be aligned at joints and interlocked and floor fastenings shall be completely concealed and adjustable to floor level variations. Provision shall be made for reinforcements to ceiling or bracing on runs exceeding 18′ in length unsupported by cross runs.

CHANGEABILITY

Any layout change which is desired shall be easily and economically executed without debris or dirt and with 100% salvage. Partitions and doors shall be completely interchangeable with units of like size.

MATERIALS

Exposed steel shall be commercial quality cold-rolled furniture steel properly annealed and patent leveled with smooth, clean surfaces. All gauges of specified metal are U. S. Standard.

UNITS

Units shall be constructed in multiple widths of 48″. Door and frame section shall be interchangeable with standard panel measuring 48″. Units are assembled and built so that future extensions of either 2-, 3- or 4-way may be joined together without removal of adjacent units or the use of fillers.

PANELS

Panels shall be faced with ¼″ thick cement asbestos Board, Fiber Board, Masonite, Plywood or other material as designated on drawings. Glass frames shall be welded and shall be constructed of standard units of 20 gauge frames. Lower panels shall be approximately 42″ high with glass frames or upper panels either 44″ or 22″ high.

POSTS

Bottom of posts to have opening for wiring. Posts shall be No. 18 gauge.

DOORS and DOOR FRAMES

Doors shall be made in a flush design with No. 20 gauge 5″ wide styles flush with No. 20 gauge panels which shall deaden sound. Doors shall be reinforced for hinges, locks and door checks. Hinge reinforcement shall be ⅛″ plate, lock reinforcement 16 gauge, check reinforcement 14 gauge. Doors shall be 1¾″ thick with 3/32″ clearance at heads and jambs. Frames shall be factory welded and finished of No. 20 gauge unit type. If so designated wood doors shall be used in lieu of steel

HARDWARE

All hardware shall be manufacturer's standard and interchangeable as called for in schedule of hardware. Two 5″ x 4″ loose pin ball bearing butt hinges shall be provided for all doors.

BASE

The base shall be No. 18 gauge, 6″ high.

CORNICE

(Provided for those partitions that do not reach ceiling.)

If required cornice shall run in a continuous line over top of units. They shall be of No. 20 gauge rolled steel section giving maximum rigidity for horizontal bracing, and of hollow construction to allow for concealed wiring.

WALL FILLERS

At the end runs, adjustable wall fillers are to be used and they shall be fastened securely to wall.

TOP FILLER

(Omit if no top filler required.)

If specified, Mineral Board top filler from cornice to ceiling.

FACTORY FINISH

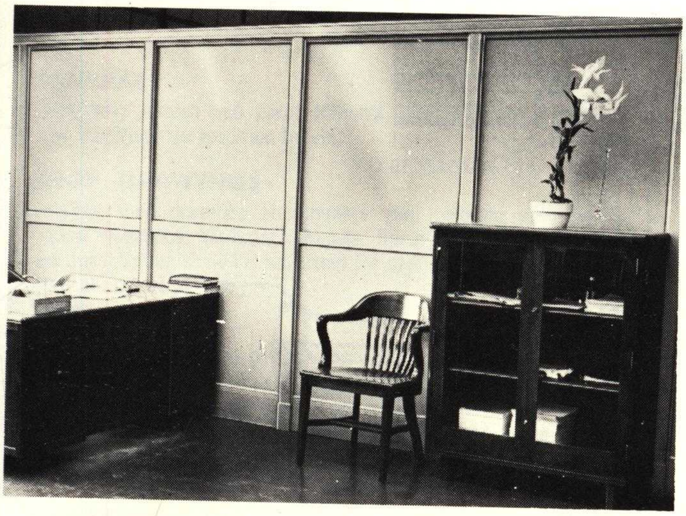
All exposed surfaces of completed partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried prior to paint applications. Metal partition mouldings may either be field or factory finished. If they are factory finished they shall be painted with a synthetic baking enamel and baked so that the paint is properly prolemerized. Color shall be National Steel Partition Company's Color No. .... or color to be as selected. If base and door colors are different from partition colors, specify National Steel Partitions Company Color No. ....

GLASS and GLAZING

Glass for metal partitions shall be supplied by contractor and shall be of a quality, thickness and design as specified in drawings. As called for in specifications, glass shall be set in putty and back puttied. Putty shall be colored. Putty shall match adjacent metal work color. Glazing stops and muntins shall be applied without the use of screws or bolts.

CLEANING

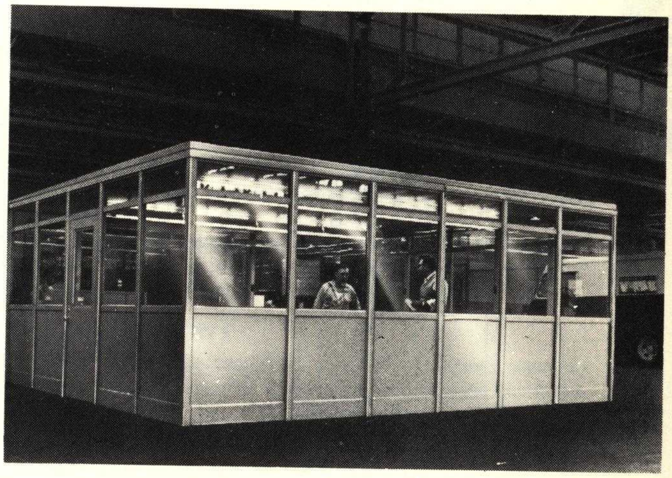
All minor defects and blemishes shall be touched up neatly and finger marks removed. Carton and rubbish shall be removed and the job left broom clean. Erection dust, washing, cleaning of glass are to be performed by user.

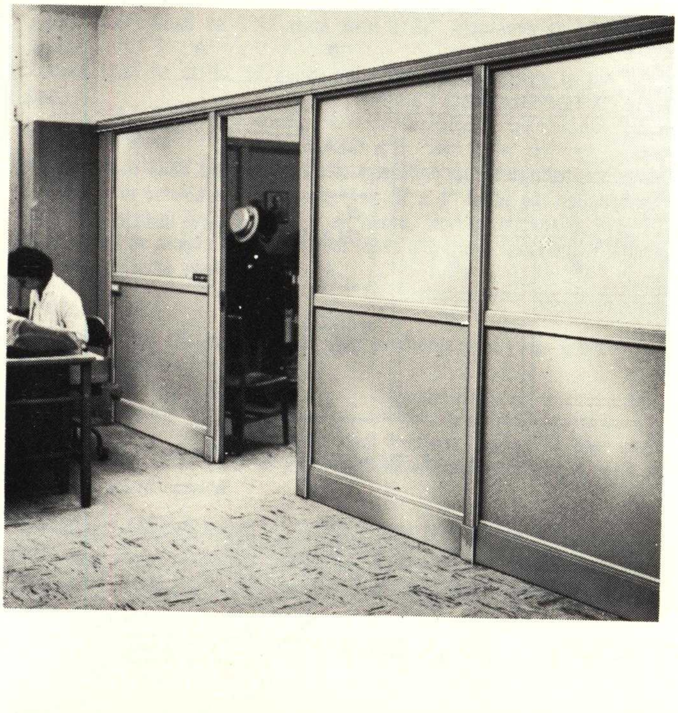


The National SM Type Partitions give the advantages of the more expensive types while keeping costs low for installation, maintenance and relocation. Panels are ⅜" thick with insulating material packed between steel sheets. Standard electrical components may be used. Provisions for wiring are available in post, base and cornice. At left, installation at Sears Roebuck, New York City. 7'-2¼" high partition, all steel open above.

The bolted construction in the SM Type Partition permits field cut-down. The 6" high hollow base provides space for pull-through wiring.

At right, installation at Brooklyn Union Gas Co., Brooklyn, N.Y. Partition is 8'-2¼" high, steel and glass with steel ceiling resting on partitions.

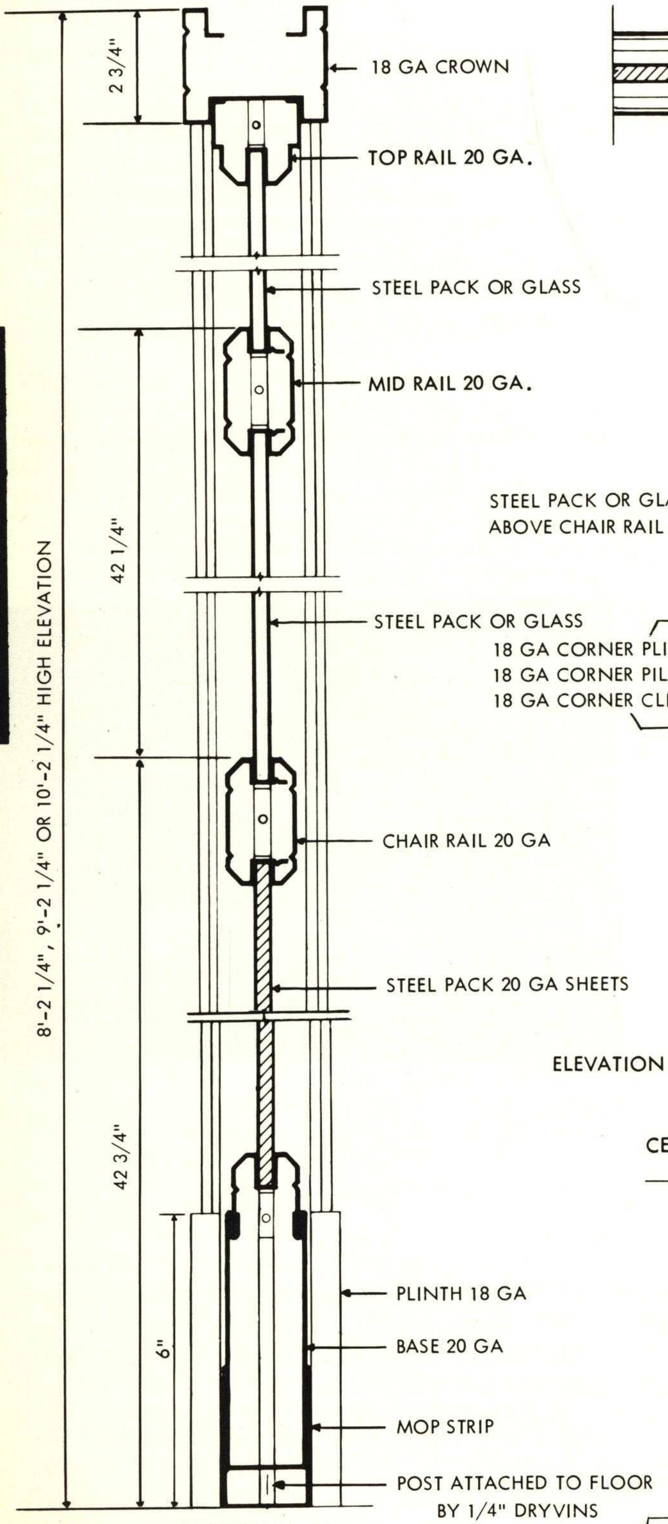




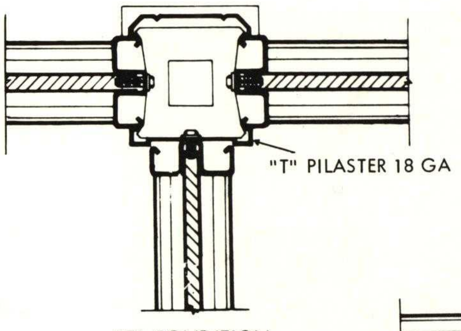
The SM Type Partition is designed to use a minimum number of parts, providing savings in both installation and fabrication. The 3" thick posts may be extended in all 4 directions. Adjacent panels are not disturbed.

At left, installation at Sears Roebuck, New York City. The SM Type steel and glass partition is 7'-2¼" high, with double mineral board top filler reaching to ceiling.

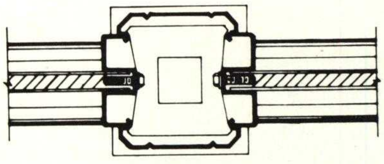
DETAILS - SCALE: 3" = 1'-0"


2 3/4"
18 GA CROWN
TOP RAIL 20 GA.
STEEL PACK OR GLASS
MID RAIL 20 GA.
42 1/4"
STEEL PACK OR GLASS
CHAIR RAIL 20 GA
STEEL PACK 20 GA SHEETS
8'-2 1/4", 9'-2 1/4" OR 10'-2 1/4" HIGH ELEVATION
42 3/4"
6"
PLINTH 18 GA
BASE 20 GA
MOP STRIP
POST ATTACHED TO FLOOR BY 1/4" DRYVINS

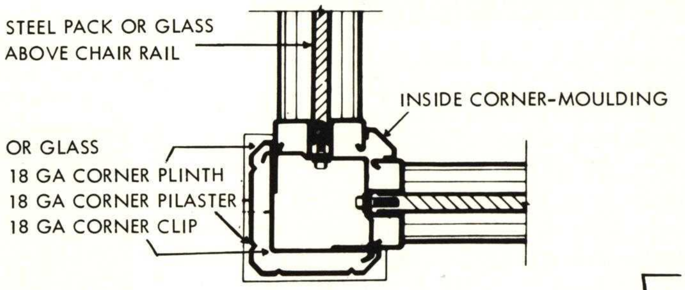
SECTION "A-A"


"T" PILASTER 18 GA

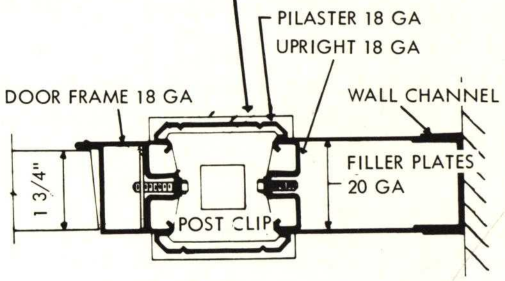
"T" CONDITION



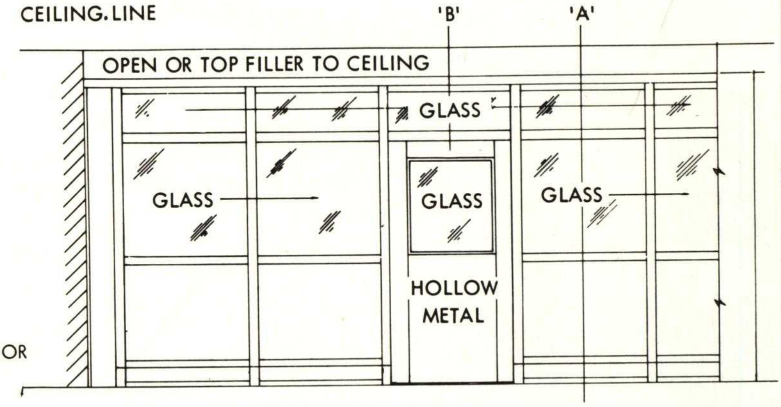
REGULAR POST


STEEL PACK OR GLASS ABOVE CHAIR RAIL
INSIDE CORNER-MOULDING
STEEL PACK OR GLASS
18 GA CORNER PLINTH
18 GA CORNER PILASTER
18 GA CORNER CLIP

CORNER POST


PLINTH 18 GA
PILASTER 18 GA
UPRIGHT 18 GA
DOOR FRAME 18 GA
WALL CHANNEL
1 3/4"
FILLER PLATES 20 GA
POST CLIP

ELEVATION - SCALE; 3/8" = 1'-0"


CEILING. LINE
'B'
'A'
OPEN OR TOP FILLER TO CEILING
GLASS
GLASS
GLASS
GLASS
HOLLOW METAL

TYPICAL PARTITION, STEEL & GLASS

specifications

GENERAL

Completely furnish and erect National Steel Partition Company's SM Type Partitions as specified herein.

SHOP DRAWINGS

Detailed shop drawings of complete plan showing partition, layout, typical elevations, hardware schedule, finish and any special conditions and construction shall be submitted for approval to the architect before fabrication and assembly.

ERECTION

Installation of all steel partition runs shall be on top of the finished flooring. All partitions shall be fitted to existing building conditions and shall be erected in a substantial and rigid manner, straight and plumb with horizontal lines level. All units shall be aligned at joints and interlocked. Floor fastenings shall be completely concealed and adjustable to floor level variations.

CHANGEABILITY

Any layout change which is desired shall be easily and economically executed without debris or dirt and with 100% salvage. Partitions and doors shall be completely interchangeable with units of like size. Panel and door units may be interchanged without disturbing adjacent units.

MATERIALS

Exposed steel shall be commercial quality cold-rolled furniture steel properly annealed and roller-leveled with smooth, clean surfaces. All gauges of specified metal are U. S. Standard.

UNITS

For future extensions of either 2-, 3-, or 4-way, units shall be so assembled that extensions may be joined without removal of adjacent units or material above cornice line. The partition height shall be standard cornice of either 7′-2¼″, 8′-2¼″, 9′-2¼″ or 10′-2¼″ to top of cornice trim as indicated in multiples of 5″ in width with a maximum of 60″ for glazed units and 50″ for solid steel units.

DOORS and DOOR FRAMES

Doors shall be made flush with No. 20 gauge 5″ styles flush with No. 20 gauge pans which shall deaden sound. Standard swing door with frame shall fit a 40″ wide section and the door shall be 2′-10″ x 6′-10″. Doors shall be reinforced for hinges, locks and door checks. Hinge reinforcement shall be 10 gauge, lock reinforcement 10 gauge, check reinforcement 14 gauge. Doors shall be 1¾″ thick with 3/32″ clearance at heads and jambs.

Frames shall be of No. 18 gauge unit type and adjustable to the floor line.

HARDWARE

All hardware shall be mobile as to operation and interchangeable as called for in schedule of hardware. Two 5″ x 4″ loose pin ball bearing butt hinges shall be provided for all doors. Mortise latches in U. S. 10 finish shall be standard with cylinder locks of various functions. Finishes and designs also available.

RAILS

Shall be of No. 20 gauge, rolled steel sections, with glass grooves for chair and snap on top rails.

POSTS

Shall be of No. 18 gauge, rolled steel sections. Design of post shall permit extension of 2-, 3- or 4-way with no removal of adjacent units or material above cornice.

BASE

The base shall be No. 20 gauge, 6″ high with a 2″ high mop mould adjustable vertically to take up the floor irregularities. Plinths at each post give easy access for wiring.

CEILING TRIM

(For those partitions that extend to ceiling.)

They shall be constructed to run over all units to ensure rigidity for horizontal bracing. They shall be provided with a lay-in type wire raceway.

PANELS

Shall be made of 2-20 gauge commercial quality rolled leveled steel sheets, permanently bonded to a 5/16 corrugated filler core with resin adhesives. Panels shall be assembled by means of bolts, permitting cutting down in the field. Glass openings to be provided in upper part of panels as indicated on the elevations.

CORNICE

(Provided for those partitions that do not reach ceiling.)

Cornice shall run in a continuous line over top of units. No. 18 gauge rolled steel section giving maximum rigidity for horizontal bracing. It shall also be provided with a lay-in type wire raceway easily accessible.

POST CAPS

Caps shall be of removable type for easy wiring and disassembly. They shall be of ornamental inlay design in No. 18 gauge.

WALL FILLERS

Shall be telescopically adjustable, to take up masonry irregularities. They shall be of No. 20 gauge.

TOP FILLER

(Omit if no top filler required.)

For partitions that extend to ceiling, Mineral board top fillers which are double sheet mineral board ⅜″ thick, shall be applied over wood studs set 24″ on center.

Steel top filler of No. 20 gauge (in lieu of mineral board) shall be single flush line joints made of double steel and shall be removable. Single sheet steel top fillers of 20 gauge steel are also available.

FLOOR CONNECTIONS

All floor connections are concealed at base and all fittings shall be made below each post. They shall be provided with leveling shims for fine adjustment to normal floor irregularities. Connections are to be securely fastened to floor.

PANEL CONNECTIONS

All units proper are to be connected by No. 14 gauge clips 24″ on center that maintains unit rigidity and properly aligns connecting units. In order to permit vertical wiring, clips are provided with a wiring hole and projections for snapping on flush post cap that are to be held in place without bolts, nuts, etc.

FACTORY FINISH

All surfaces of partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried prior to paint applications. Partitions are finished permanently with an enamel coat of alkyd-melamine base and baked to ensure quality and durability.

The finish coat shall be of "eggshell" texture, uniform throughout, color shall be National Steel Partition Company's Color No. .... or color to be as selected. If base and door colors are different from partition colors, specify National Steel Partition Company Color No. ....

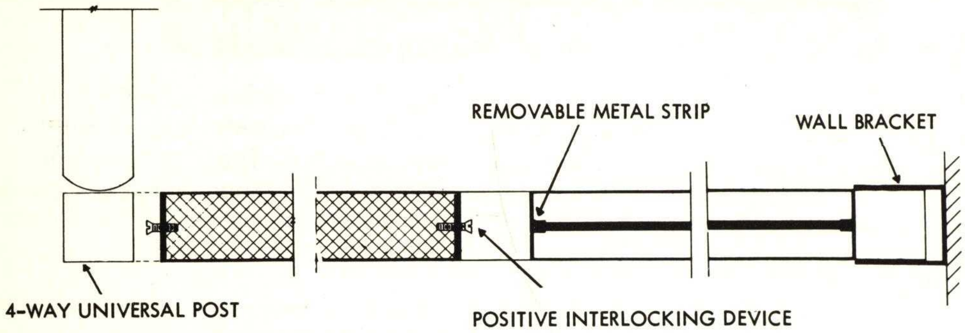
GLASS AND GLAZING

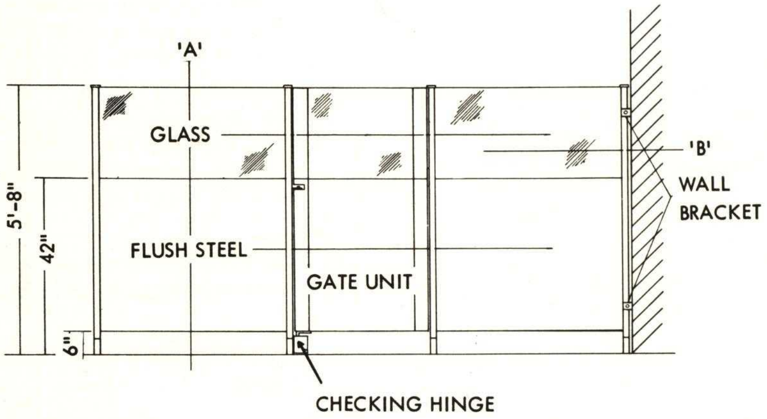
Glass for metal partitions shall be supplied by contractor and shall be of a quality, thickness and design as specified in drawings. As called for in specifications, glass shall be set in putty.

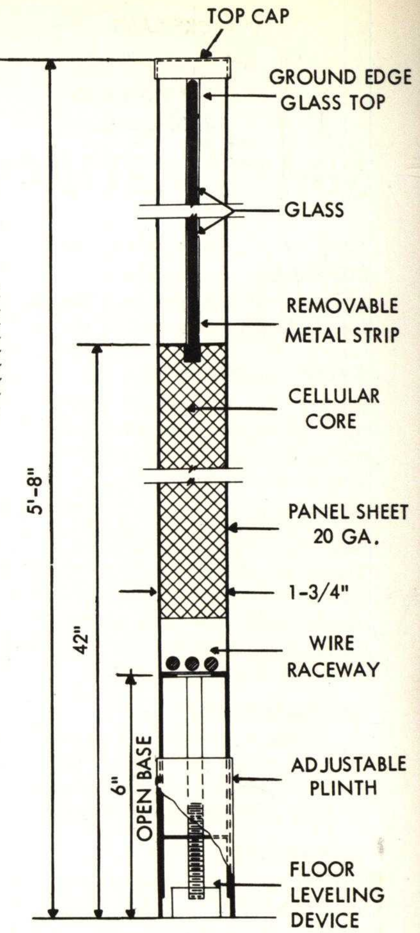
CLEANING

All minor defects and blemishes shall be touched up neatly and finger marks removed. Cartons and rubbish shall be removed and the job left broom clean. Erection dust, washing, cleaning of glass are to be performed by user.

NAP JOINT TYPE - P PARTITIONS


REMOVABLE METAL STRIP
WALL BRACKET
4-WAY UNIVERSAL POST
POSITIVE INTERLOCKING DEVICE


'A'
GLASS
'B'
WALL BRACKET
5'-8"
42"
FLUSH STEEL
GATE UNIT
6"
CHECKING HINGE


TOP CAP
GROUND EDGE GLASS TOP
GLASS
REMOVABLE METAL STRIP
CELLULAR CORE
PANEL SHEET 20 GA.
1-3/4"
WIRE RACEWAY
ADJUSTABLE PLINTH
FLOOR LEVELING DEVICE
5'-8"
42"
6"
OPEN BASE

specifications

OVERALL DESIGN

Partitions are to be constructed of interchangeable parts of steel surmounted by glass or accoustical material as specified. All partitions shall be easily assembled and so constructed to allow partitions to be disassembled and reassembled in any formations of units required.

PANELS

Panel shall be not less than 1¾ inches thick to provide a flush design. All surfaces of panel shall be 20 gauge U. S. standard cold rolled roller leveled furniture steel. Panel shall be so reinforced and welded to insure a lifetime rigid construction.

POSTS

1¾ inches in thickness of cold rolled and welded U.S. standard 16 gauge steel. Post shall be interchangeable and each to be equipped with a leveling device to permit easy installation and compensate for unevenness in floors. When required, posts can be equipped with a floor anchor to eliminate top sway and permit easy installation of doors and gates.

DOORS

All steel surfaces shall be 20 gauge cold rolled U. S. standard roller leveled furniture steel properly reinforced to receive hardware and eliminate warpage. All doors and gates are to be factory mounted to assure easy installation and shall be shipped as a complete unit with cylinder lock, key and inside snap latch. Doors to be so constructed to permit mounting to universal post on any one of four sides.

INSULATION

Panels, doors and gates shall be insulated with a rigid material of honeycomb construction bondarized under pressure and shall provide sound absorbency and impact resistance.

BASE

Ordinarily supplied open but if closure is required, base shall be of clip type construction easily mounted and fabricated so as to permit interchangeability.

GLASS

Glass to be supplied in 3 textures, clear, broadlite and bandlite and shall be not less than 7/32 inch in thickness. Bottom and sides of glass to be set in a vinyl channel cushion – top of glass to be polished or protected with a vinyl channel as specified.

WIRE RACEWAY

A wire raceway shall be provided at the bottom of each panel to receive wiring and shall run continuously along completed installation of partition passing through posts by using openings provided.

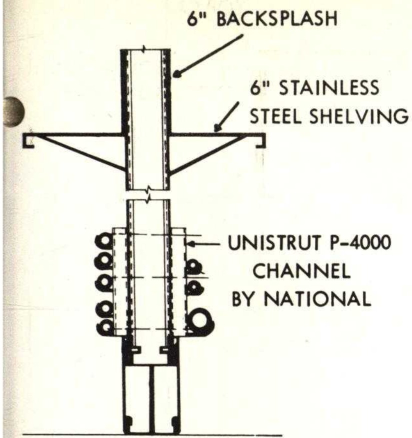
FACTORY FINISH

All exposed surfaces of completed partitions shall be thoroughly cleaned in a phosphate solution, rinsed with a rust inhibitor and properly dried prior to paint applications. Partitions are finished permanently with an enamel coat of alkyd-melamine base and baked to ensure quality and durability.

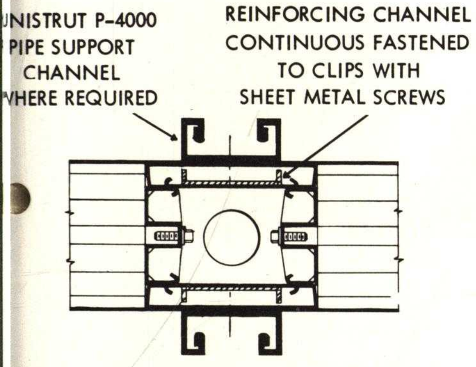
The finish coat shall be of "eggshell" texture, uniform throughout; color shall be National Steel Partition Company's Color No.......... ...... or color to be as selected. If base and door colors are different from partition colors, specify National Steel Partitions Company Color No. ....

LABORATORY PARTITIONS

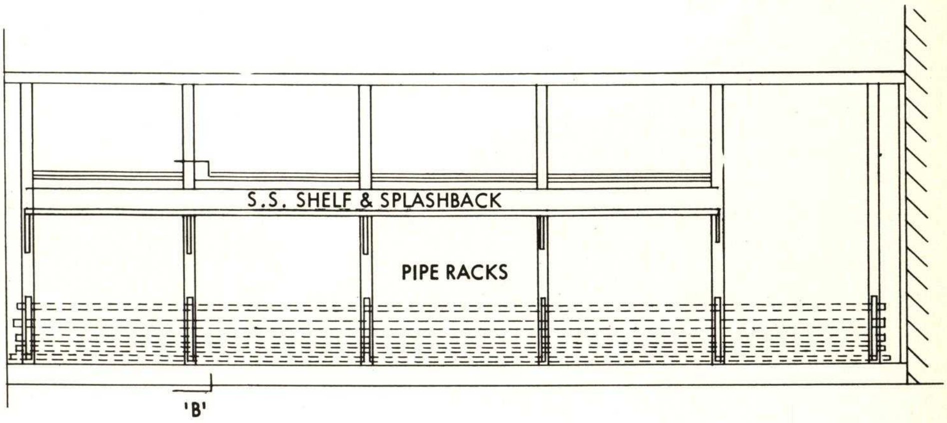
To fit the requirements of hospitals and laboratories, National constructs partitions so that all types of piping (drains, water, gas, vacuum, etc.) may be run on the exterior of the partitions. These fixtures and piping are generally hidden by laboratory furniture. Thus functionalism is secured at minimum cost.


6" BACKSPLASH
6" STAINLESS STEEL SHELVING
UNISTRUT P-4000 CHANNEL BY NATIONAL

SECTION 'B'-'B'


NISTRUT P-4000 PIPE SUPPORT CHANNEL HERE REQUIRED
REINFORCING CHANNEL CONTINUOUS FASTENED TO CLIPS WITH SHEET METAL SCREWS

TYPICAL POST DETAIL SHOWING PIPE SUPPORT AND REINFORCING CHANNELS

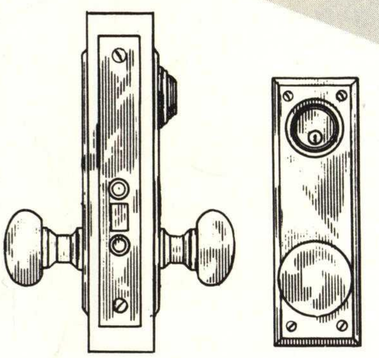

S.S. SHELF & SPLASHBACK
PIPE RACKS
'B'

DOORS

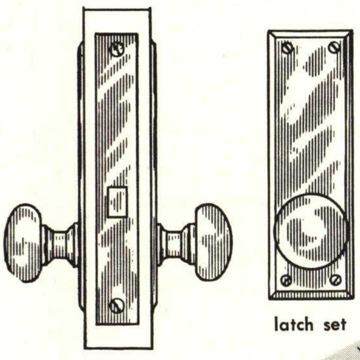
A complete range of door types are available with National Partitions. Included among these are:

Doors in Pairs, Flush Steel, Half Glass, Door Louvers, Dutch Half Glass, Dutch Half Glass, Dutch Flush Steel, Etc.

Door units are interchangeable with panel units of same size.



standard cylinder lock set



latch set

ACCESSORIES

Partitions by National are also available with wickets (Hinged or Slide), with horizontally Pivoted Transoms, and with Open Bases.

All desired accessories are available including Latch Sets, interchangeable Lock Sets of all functions, Surface Door Closers, Concealed Door Closers, etc.

SEATTLE
JAMESTOWN
ROCHESTER
ITHACA
GRAND RAPIDS
BUFFALO
SYRACUSE
ALBANY
DES MOINES
INDIANAPOLIS
CLEVELAND
BOSTON
SALT LAKE CITY
EVANSVILLE
TOLEDO
SAN FRANCISCO
DENVER
MELROSE PARK
HARRISBURG
HARTFORD
PITTSBURGH
QUAKERTOWN
ST. LOUIS
PHILADELPHIA
BETHESDA
OKLAHOMA CITY
GREENSBORO
ASHEVILLE
GOLDSBORO
LOS ANGELES
DALLAS
FORT WORTH
COLUMBIA
ATLANTA
BIRMINGHAM
NEW ORLEANS

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FAirfax 2-6722

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733 So. Fremont, Alhambra
CUmberland 3-4743

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2833 Third St.
ATwater 8-0644

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CHerry 4-4548

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Davis Acoustical Co., Inc.
27 Woodbine St.
CHapel 9-5684

ATLANTA, GA.
Anning-Johnson Co.
P.O.Box 2562, Stat."D"
SYcamore 4-9566

MELROSE PARK, ILL.
Anning-Johnson Co.
1959 Anson Drive
COlumbus 1-3636

EVANSVILLE, IND.
Anning-Johnson Co.
320 N.W. 7th St.
HArrison 3-3683

INDIANAPOLIS, IND.
Anning-Johnson Co.
1720 Alvord St.
WA. 3-2461

DES MOINES, IOWA
Anning-Johnson Co.
914 Grand Ave.
ATlantic 2-6896

NEW ORLEANS, LA.
Anning-Johnson Co.
1406 So. White
JAckson 2-8177

BETHESDA, MD.
W.M. Schoenfelder & Assoc.
7720 Wisconsin Ave.
OLiver 4-8500

BOSTON, MASS.
Armstrong Cont'g. & Sup. Corp.
22 Woodmont St., Brighton
ALgonquin 4-7580

GRAND RAPIDS, MICH.
Leggette-Michaels Co.
3453 Eastern Ave., S.E.
CH. 5-0496

ST. LOUIS, MO.
Hamilton Co., Inc.
4239 Lindall Blvd.
FRanklin 1-0100

ALBANY, N. Y.
Davis Acoustical Corp.
45 Fourth Ave.
4-1312 and 4-4944

BUFFALO, N. Y.
Davis-Fetch & Co., Inc.
236 Scajaquada St.
HUmboldt 8760

ITHACA, N. Y.
Rochester Davis-Fetch Corp.
421 East State St.
IThaca 4-2535

JAMESTOWN, N. Y.
Davis-Fetch & Co., Inc.
5 Osmer St.
31933

ROCHESTER, N. Y.
Rochester Davis-Fetch Corp.
22 Wright St.
IDlewood 6-1880

SYRACUSE, N. Y.
Davis-Fetch Acoustical Corp.
416 Tallman Ave.
GRanite 6-4001

ASHEVILLE, N. C.
The Bonitz Insulation Co.
Box 636
ALpine 3-1671

GOLDSBORO, N. C.
The Bonitz Insulation Co.
Box 1079
REpublic 4-4061

GREENSBORO, N. C.
The Bonitz Insulation Co.
411 Prescott-Box 1289
BR. 2-8174

CLEVELAND, OHIO
Anning-Johnson Co.
2254 Hamilton Ave.
SUperior 1-3530

TOLEDO, OHIO
Anning-Johnson Co.
P.O.Box 2852, Stat."B"
Greenwood 5-6861

OKLAHOMA CITY, OKLA.
The Denman Co.
3023 N. Oklahoma St.
JAckson 8-5575

HARRISBURG, PA.
The W.M. Moyer Co.
4200 Block Chambers Hill Rd.
JOrdon 4-2760

PHILADELPHIA, PA.
The W.M. Moyer Co.
1616 Walnut St.
PEnnypacker 5-8880

PITTSBURGH, PA..
Davis-Fetch Corp. of Penna.
5505 Centre Ave.
MAyflower 1-7320

QUAKERTOWN, PA.
The W.M. Moyer Co.
New Street
KEystone 6-6710

COLUMBIA, S. C.
The Bonitz Insulation Co.
1030 Drake St.
SUnset 7-7694

GREENVILLE, S. C.
The Bonitz Insulation Co.
P. O. Box 1343
CEdar 9-4042

DALLAS, TEXAS
Gambrell & Co.
211 West Comestock
RIverside 7-4835

FORT WORTH, TEXAS
Secrest & Gambrell, Inc.
P. O. Box 1723
WAlnut 6-0861

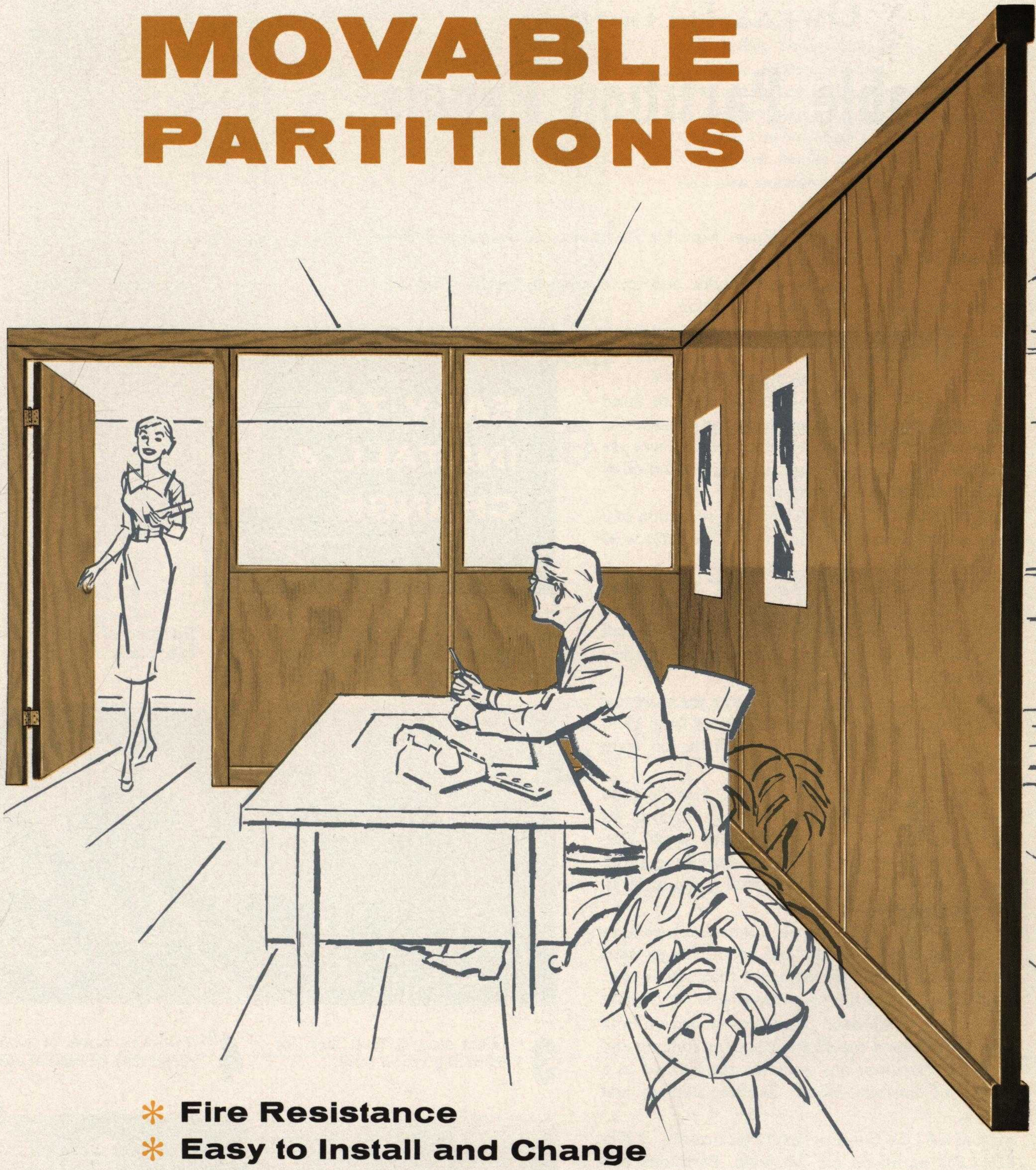
SALT LAKE CITY, UTAH
J. L. Parsons Co.
518 Felt Bldg.
DAvis 8-8757

SEATTLE, WASH.
F. T. Crowe & Co. Inc.
329 Second Ave., West
ATwater 4-8484

NATIONAL STEEL PARTITION CO., INC. 600 E. 156 ST. NEW YORK 55, N.Y. MO 5-0735

RODDIS PLYWOOD CORPORATION
SUCCESSOR TO
OWENS-ILLINOIS PLYWOOD COMPANY

MOVABLE PARTITIONS



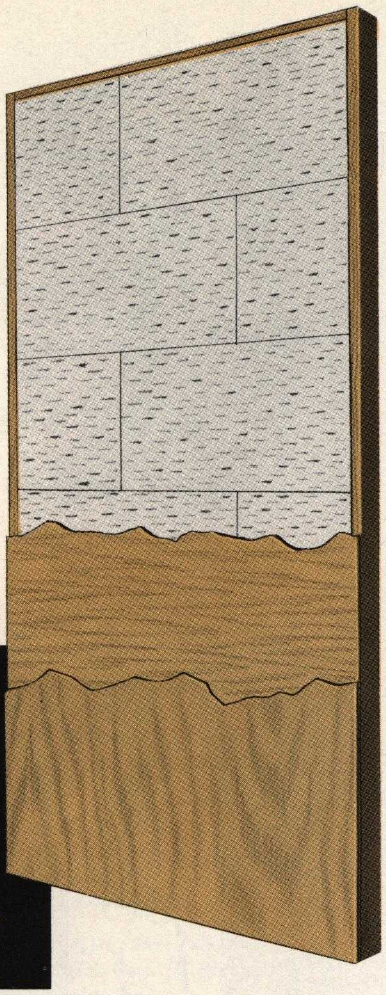
- **Fire Resistance**
- **Easy to Install and Change**
- **Natural Wood Beauty**
- **Sound Retarding**
- **Pre-Finished or Plain**

A. I. A. FILE NO. 35-H-6

Special Features of

Owens-Illinois

Movable Partition Panels



CONSTRUCTION—Owens-Illinois Movable Partitions are wood-faced, and with durable KAYLO* core.

MOVABILITY—Panels are easy, quick and inexpensive to install. They can can be changed to suit a revised floor plan.

FIRE RESISTANCE—Cores of Owens-Illinois panels are made from KAYLO* . . . a fireproof, rotproof, vermin-proof mineral core material.

NATURAL WOOD BEAUTY—Panels are faced with handsome hardwood veneers that enhance the appearance of any room or office. Birch faces are standard. Oak, cherry, walnut, mahogany and other species are available on request.

SOUND REDUCTION—The sound reduction of a panel at frequencies ranging from 137 to 2071 is 34 to 38 decibels.

LIGHTWEIGHT, STRONG—A 4′0″ x 8′0″ panel weighs approximately 100 pounds but can support an 8,000-pound distributed load with only one-half inch deflection when loaded. After unloading, there is no residual deflection.

DIMENSIONAL STABILITY—With the inorganic KAYLO* core, of a nominal density of from 19 to 22 pounds per cubic foot, there will be no warp or twist.

MINIMUM UPKEEP—Occasional cleaning and waxing keep Owens-Illinois panels, finished by craftsmen, looking newly-finished for years. Pre-finished panels require only occasional cleaning with a damp cloth. They are fade resistant, and impervious to most chemicals.

STANDARD SIZES—Panels are available in sizes up to 4′0″ x 8′0″ length and width. Larger sizes are available on request. Standard thickness is 1¾″. 1⁹⁄₁₆″ and 2¼″ partitions are available on request.

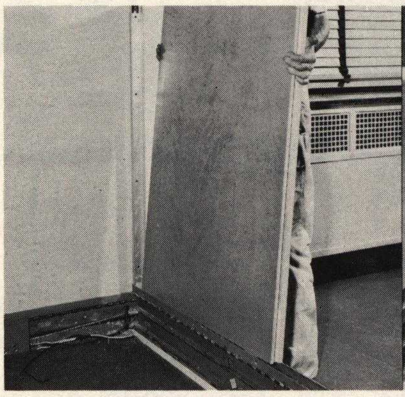
FINISHES—Unfinished panels are sanded on both sides to provide a superior surface for staining and finishing. Partitions are available pre-finished in a variety of finishes—blond, natural, nutmeg and pastels.

PRE-SEALING—For extra economy, PRE-SEALED partitions are available. Partitions pre-sealed by either the PB-101 or PB-202 process preserve natural wood beauty and require only a final finish coat on the job.

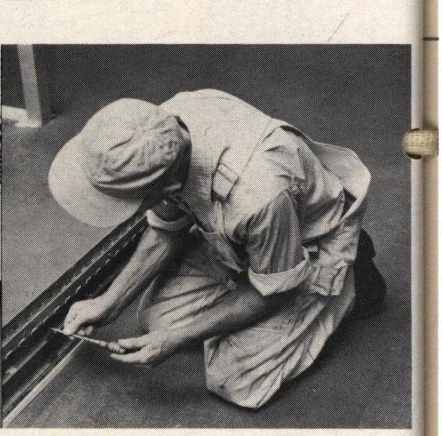
*KAYLO is an incombustible mineral core manufactured by Owens-Corning Fiberglas Corp., Toledo, Ohio.

EASY TO INSTALL & CHANGE ▽

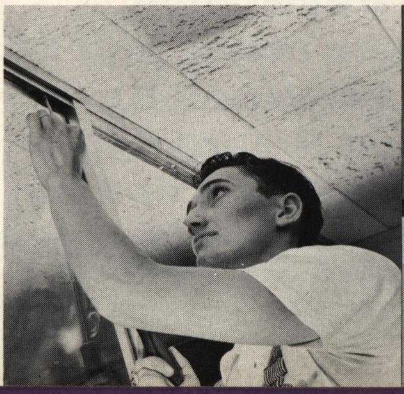
1 Install base plate with or without conduits for electric and phone cables as needed.



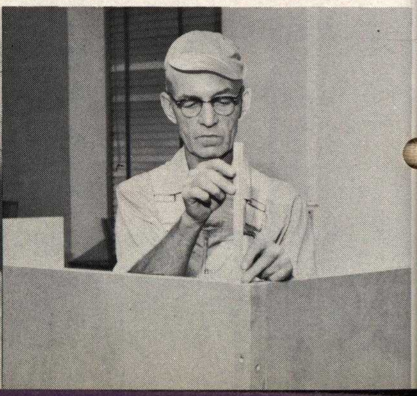
2 Fit base of panel to top of base plate.



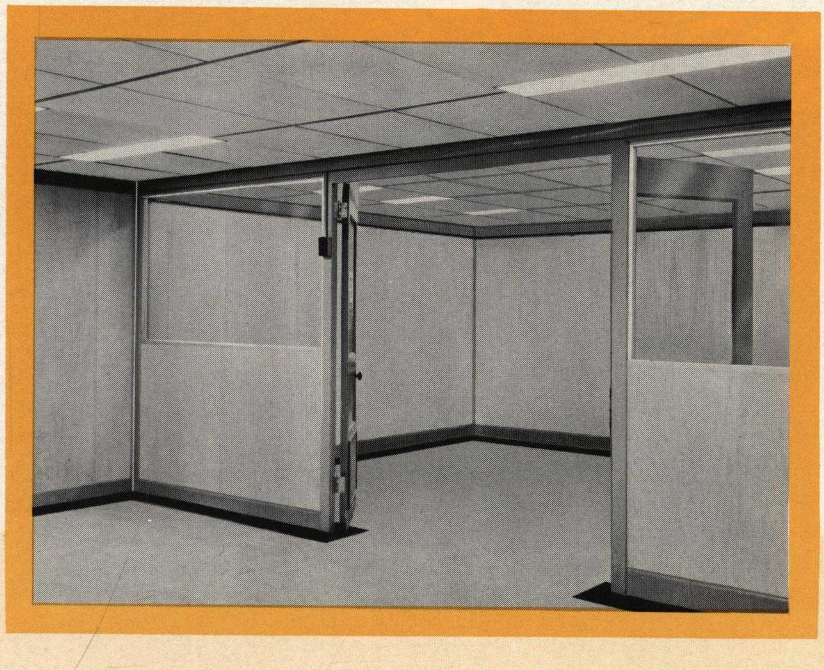
3 Glass stop is final step for installing vision strip.



4 Two-way posts of wood or metal may be used at corners.

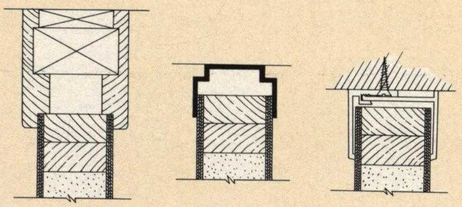


TYPICAL INSTALLATION DETAILS



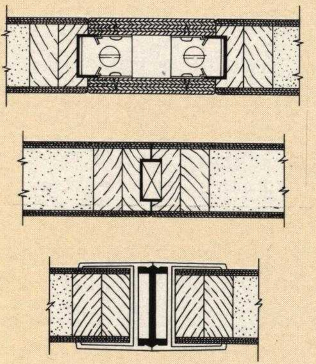
There are many methods of installing Owens-Illinois partitions. Since individual panels are made without special end milling, they are adaptable to all systems. You will want to modify or change their details to suit your own requirements.

❶



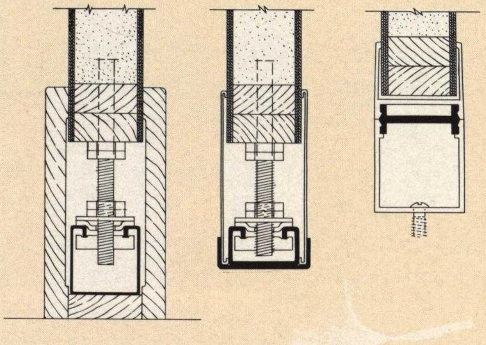
HEAD

❷



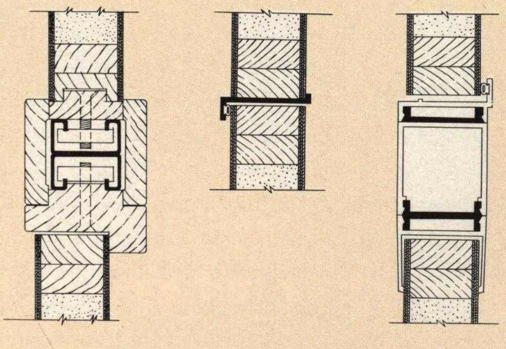
JOINT

❸



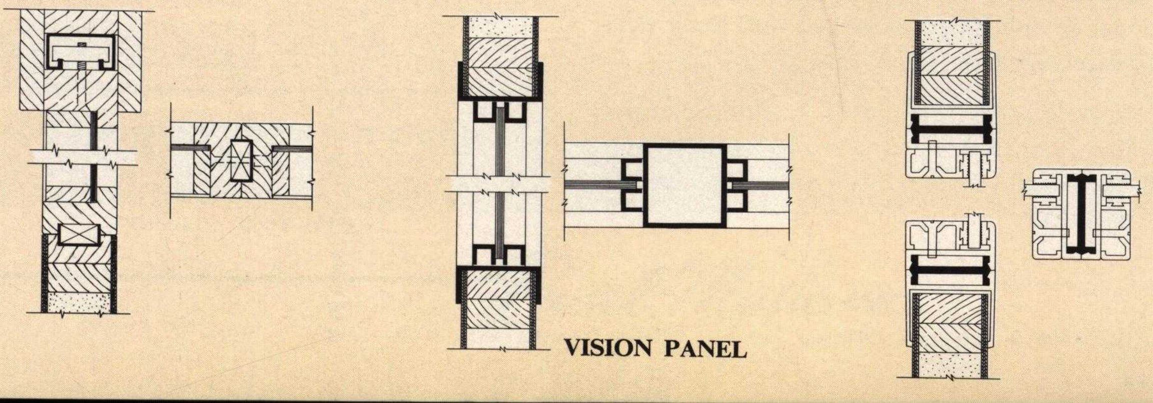
BASE

❹



DOOR

❺



VISION PANEL

OWENS-ILLINOIS PLYWOOD MOVABLE PARTITIONS

Suggested Specifications

GENERAL—Partitions where indicated on plans shall be Owens-Illinois Plywood Movable Partitions as manufactured by Owens-Illinois Plywood Company, North Troy, Vermont.

WORK INCLUDED—These specifications are intended to include complete installation of flush movable partitions as indicated on the plans. Shop drawings shall be submitted by the contractor to the architect for his approval and shall show details of construction, partition layout, hardware schedule, and finish where required. Copies of these drawings shall be furnished the General Contractor.

GENERAL REQUIREMENTS

1. DIMENSIONS—Partitions shall be 1¾″ standard thickness as shown on specifications. Other thicknesses on request. Maximum widths shall be 4′ and maximum heights shall be 8′. Larger sizes on request.

2. FLEXIBILITY—Additional units may be added without removing existing units. Panels shall be so installed that they may be moved or changed with a minimum of expense and effort.

3. INSTALLATION—All panels shall be flush and interlocked at panel joints and at door joints. Partitions shall be straight, plumb and true with horizontal lines level and shall be rigid and substantial. They shall be installed on top of the finished floor or carpet. Floor fastenings shall be concealed by a base plate (here specify wood molding, rubber, metal or other base cover plate) and shall be scribed to the floor. Ceiling attachments shall be concealed by wood, metal or other (here specify molding) type of molding. All partitions over 16 feet in length shall be reinforced to the ceiling or other bracing where these partitions are not supported by cross partitions, so as to provide additional rigidity. Ceilings shall be sufficiently rigid to withstand lateral thrust on panels.

4. ELECTRICAL PROVISION—Provisions shall be made for wiring and outlet space in the base, and posts. The installer shall provide cut outs for outlets in the partitions.

MATERIALS—Panels—Panels shall be Owens-Illinois Plywood Movable Partitions with KAYLO* core and manufactured by the Owens-Illinois Plywood Company, North Troy, Vermont. The face veneer shall be of high quality veneer (specify species and paint or stain grade or pre-finished here). All panels shall be edgebanded with 1⅜″ kiln-dried hardwood or softwood resin glued to the KAYLO* core.

EDGES—Standard panels have square edges; however, edges can be machined to suit job requirements.

DOORS—Doors shall be 1¾″ Owens-Illinois B-Label Fire Doors or D-S Fire Resistant Doors. Doors shall be hung with 1⁄16″ clearance at jambs and heads.

The base shall be continuous on both sides of the partition. Construction shall be of wood matching the panel veneer (alternate: rubber or metal). It shall be removable from either side to allow access to wiring.

The cornice shall run continuously on top of floor and ceiling panels and shall be of wood or metal matching the partition. Joints shall be staggered on both sides.

Top and end fillers where required shall be Owens-Illinois panels extending to the ceiling. Construction shall be wood matching panel faces.

FINISH—Faces of unfinished panels and all exposed wood parts shall be stained or filled to specifications or panels may be pre-finished as specified and all molding and trim stained or filled to match the factory finish.

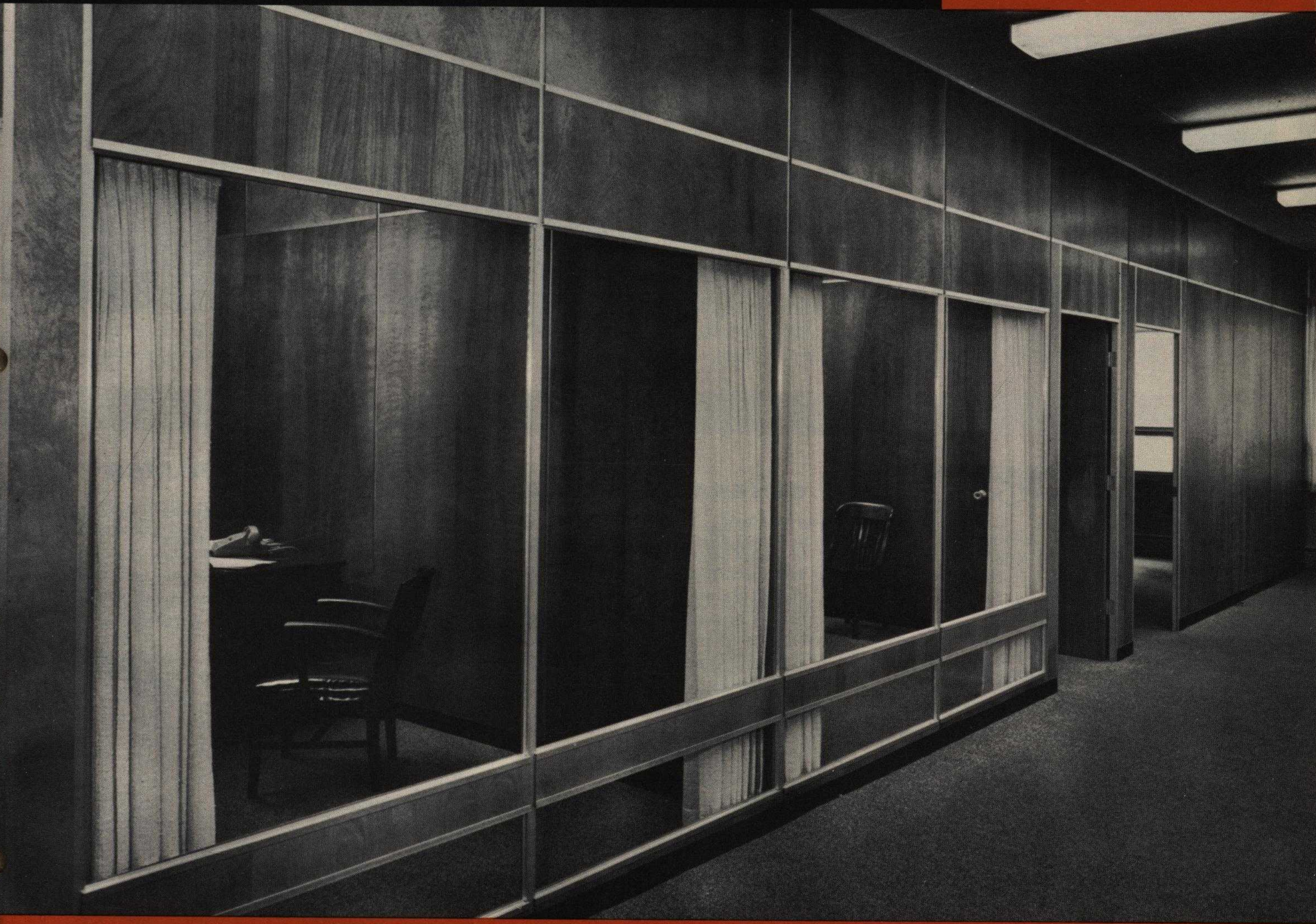
*KAYLO is an incombustible mineral core manufactured by Owens-Corning Fiberglas Corporation, Toledo, Ohio.

RODDIS PLYWOOD CORPORATION
SUCCESSOR TO
OWENS-ILLINOIS PLYWOOD COMPANY
NORTH TROY, VERMONT

LITHO IN U.S.A.

Panel-Matic

MOVABLE PARTITIONS



WOOD VENEER

STEEL

HARDBOARD

PLASTIC

ACOUSTICAL

GLASS

FRAMED IN LIGHT MODERN ALUMINUM

The system of interior partitioning that achieves beauty and versatility through STRUCTURAL SIMPLICITY

Panel-Matic INC.
528 BUTTERWORTH ST., S. W., GRAND RAPIDS, MICHIGAN, GL9-6733

SPECIFY *Panel-Matic* FOR BEAUTY,

EXCLUSIVE
STRIP-CLIP*
THE KEY TO PANEL-MATIC SIMPLICITY

A ¾″ wide strip of extruded aluminum, anodized to harmonize with the partitions selected, is clipped on both sides of the panels joining them in perfect alignment. The Strip-Clip provides electrical raceways; accepts all necessary electrical outlets, making it unnecessary to "wire up" a partition panel, which limits panel's re-use.

*Patent Pending

BEAUTY Panel-Matic partitions create the warmth and formality of fine panelling—classic and timeless in beauty—made contemporary through the subdued use of anodized aluminum framing.

VERSATILITY Only Panel-Matic offers such a wide variety of interchangeable panels; fine wood veneers, steel, hardboard, plastic, glass, acoustical.

SIMPLICITY Panel-Matic's patented strip-clip system of using only one standard part to join panels insures perfect vertical alignment—ease of installation—ease of change.

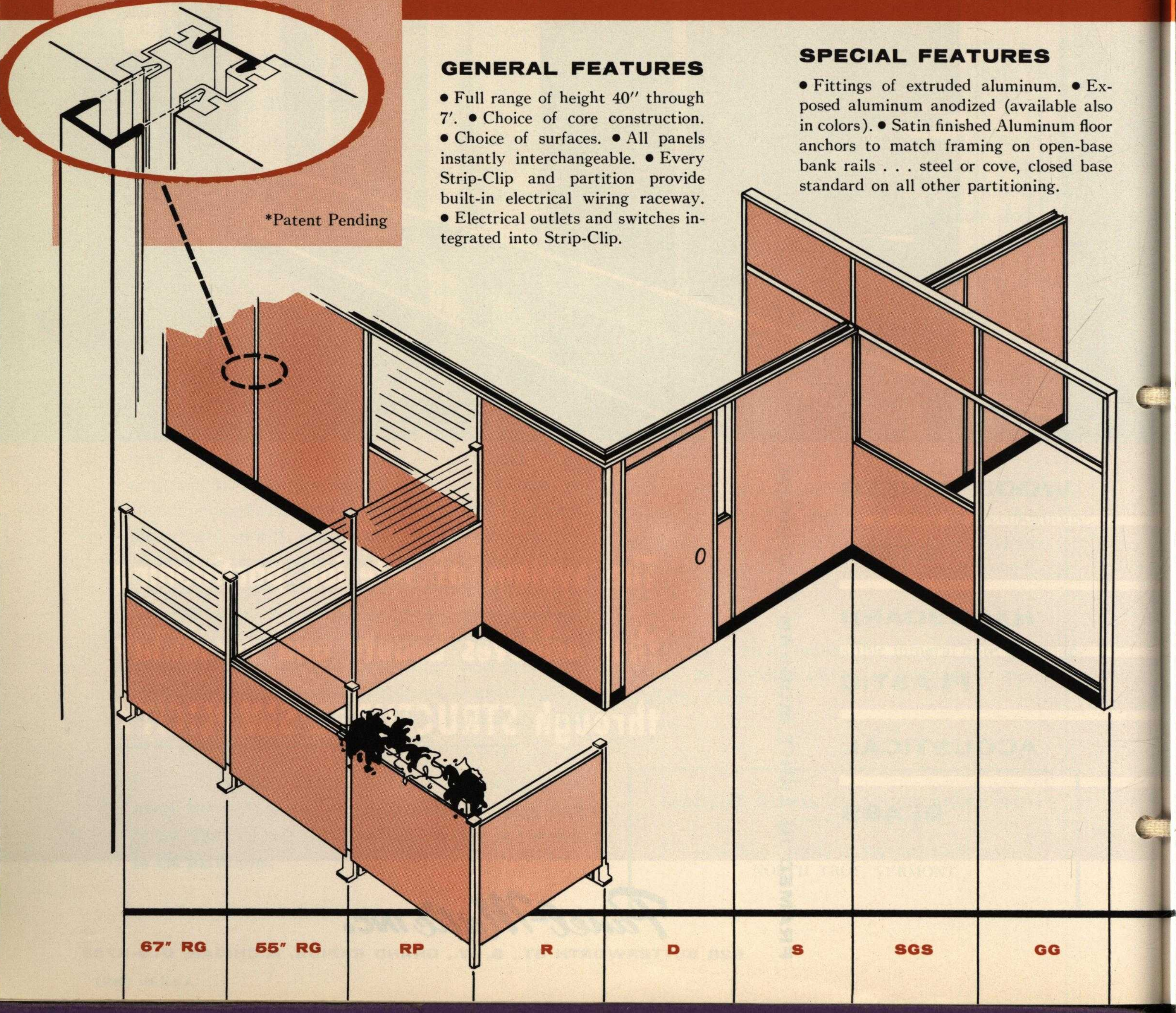
ECONOMY Because of the beautiful simplicity of the Panel-Matic design, substantial savings are realized in their purchase and application. They cost less to use . . . give more satisfaction.

GENERAL FEATURES

• Full range of height 40″ through 7′. • Choice of core construction. • Choice of surfaces. • All panels instantly interchangeable. • Every Strip-Clip and partition provide built-in electrical wiring raceway. • Electrical outlets and switches integrated into Strip-Clip.

SPECIAL FEATURES

• Fittings of extruded aluminum. • Exposed aluminum anodized (available also in colors). • Satin finished Aluminum floor anchors to match framing on open-base bank rails . . . steel or cove, closed base standard on all other partitioning.



VERSATILITY, SIMPLICITY, ECONOMY

Attractive, semi-private work stations of glazed 67″ RG, Panel-Matic, rail partitions, azure blue finish.

Panel-Matic standard wall partitions showing types S & SG with type SS in background creating supervisory offices in architectural firm.

PARTITION TYPES

LOW RAIL TYPES

R	43″ height with continuous aluminum rail. Corner and end post caps.
RP	Same as type "R" above except aluminum planter box replaces continuous aluminum rail.
RG	43″ height panel with posts to overall height (specify 55″ or 67″). Top edge of glass to be ground.
RF	Same as above except glass replaced by filler: corkboard, chalkboard, pegboard or Acoustifoam panel.

WALL TYPES

S	Full panel above base to cornice (standard height 7′2″; maximum 8′2″ height).
SS	Type "S" with matching panel above cornice to ceiling.
SSG	Type "S" with glass panel above cornice to ceiling.
SSF	Type "S" with filler panel above cornice to ceiling.

GLASS TYPES

Glass to be set with aluminum glass stops without use of putty or screws.

SG	Panel to have glass opening from 43″ above floor to cornice. (Standard height 7′2″ maximum 8′2″) (Hand and speak hole, deal plate, sliding glass, counter or 54″ sill height available).
SGS	Type "SG" with solid panel above cornice to ceiling.
SGG	Type "SG" with glass panel above cornice to ceiling.
SGF	Type "SG" with filler panel above cornice to ceiling.

FULL GLASS TYPES

G	Full glass lite from 6″ above floor to cornice (Standard 7′2″; maximum 8′2″).
GG	Full glass with glass above cornice.
GF	Full glass with filler above cornice.
GS	Full glass with solid panel above cornice.

FILLER TYPES

Same as glass types listed above except fillers to be other than glass. Specify hardboard, pegboard, plywood, Acousti-foam corkboard or chalkboard. Standard 1/4″ thickness; others to 3/8″ as available.

SF	Panel to have filler opening from 43″ above floor to cornice. (Standard height 7′2″; maximum 8′2″) (54″ sill height available).
SFS	Type "SF" with solid panel above cornice to ceiling.
SFG	Type "SF" with glass panel above cornice to ceiling.
SFF	Type "SF" with filler panel above cornice to ceiling.

DOOR SECTIONS

D	Manufactured to module, actual door opening 3′0″ x 6′8″ standard. Other sizes available. Glass lite panels available within door section.

SPECIFICATIONS

1. Scope of work:

Furnish and erect complete movable partitions as manufactured by Panel-Matic Inc., Grand Rapids, Michigan, in type(s) as indicated on the plans and specified hereunder. Submit drawings and schedules for approval.

2. Framing method and materials:

Partition panels will contain vertical recessed aluminum member to receive aluminum Strip-Clip for joining adjacent panels. Any unit shall be readily removable without disturbing adjacent units, and any door or panel unit of like size shall readily interchange. Desired changes of layout shall be made easily, quickly and economically without dirt or debris. Units shall be designed so that extensions in 2, 3, or 4 ways may be made quickly at any post. The partitions shall be without exposed bolts, nuts, rivets, or screws. All exposed aluminum including wall channels, horizontal rails, etc. to be anodized natural satin finish. (Specify color schedule, if desired.)

3. Panel type(s): (use as required)

—Type AW Wood panels where indicated on plans, to be flush 1¾″ thickness as shown. Panels shall be faced with (specify 1/8″ Birch, Mahogany, Walnut or other) furniture finished with highest quality rubbed-effect lacquer.

—Type AM Steel panels where indicated on plans, to be flush 1¾″ thickness, faced with 24 gage cold rolled stretcher leveled steel, primed and finished with highest quality low baked, catalized enamel in color(s) to be selected.

—Type AH Hardboard; where indicated on plans, to be flush 1¾″ thickness, faced with 1/8″ tempered hardboard, primed and finished with highest quality, low baked, catalized enamel in color(s) to be selected. 1/4″ Acousti-foam material to be used where indicated on plans, to be surface applied for maximum in-room sound conditioning.

4. Panel construction:

Panel core, skin and frame to be pressure laminated to form an integral panel unit for maximum strength. Reinforced core to be approved honeycomb construction.

5. Partition types:

To be as listed and specified herewith (and/or as shown on drawings). (Qualify types to be used).

6. End Fillers at Wall: (if used)

To be of same material as adjacent panels such as can be cut to meet wall and window conditions. Aluminum wall channel to include inorganic compression strip to seal wall irregularities.

7. Base: Closed type (if used)

Partition panels to have leveling legs located by groove in base strip. Base strip to be fastened to finish floor. Closed base of tempered hardboard or steel (rubber or vinyl cove base available) to be removable for access to wiring space. (Standard 4″ height or 6″ available).

8. Doors and Frames:

Furnish 1⅜″ (or 1¾″) hollow core wood (or hollow metal) flush doors in types and sizes per door schedule, and in color(s) to be selected. Manufacturer's standard Yale latch or lock set, 1 pair Stanley butts to be furnished.

9. Electrical Provisions (if used):

Partition contractor to furnish standard Carlings 220-A-BL, 215-A-BL switch and receptacle fittings for use in panel-matic aluminum sections and base material. Wiring and installation to be by electrical contractor.

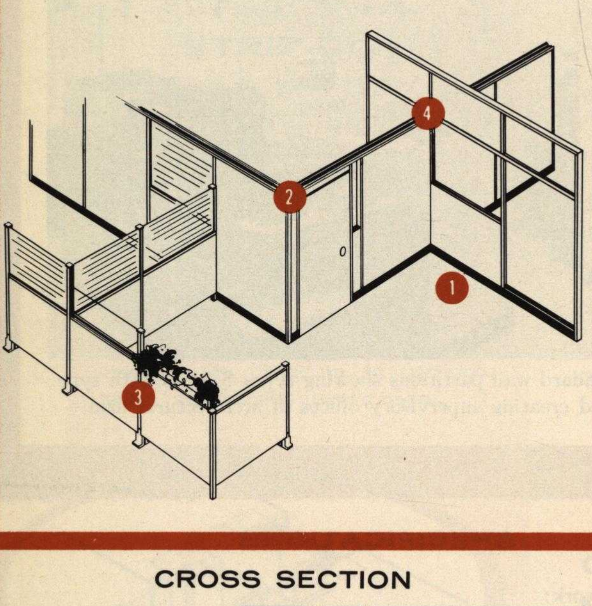
FOR DETAIL DRAWINGS, SEE BACK PAGE

Panel-Matic INC.
528 BUTTERWORTH ST., S. W., GRAND RAPIDS, MICHIGAN, GL9-6733

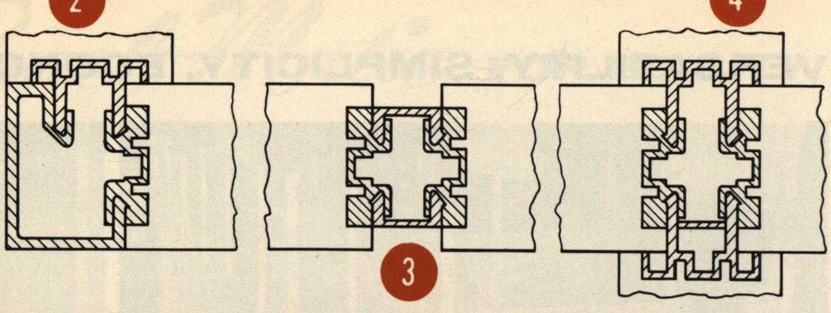
DETAILS

FOR PANEL-MATIC MOVABLE PARTITIONS

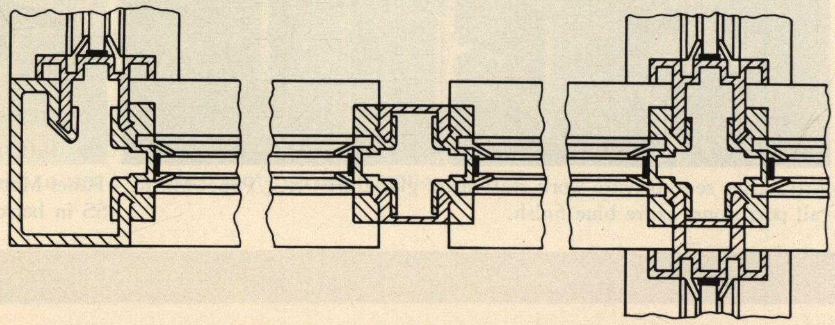
For additional details and drawings, write or wire Panel-Matic, Inc., 528 Butterworth S. W., Grand Rapids, Michigan.



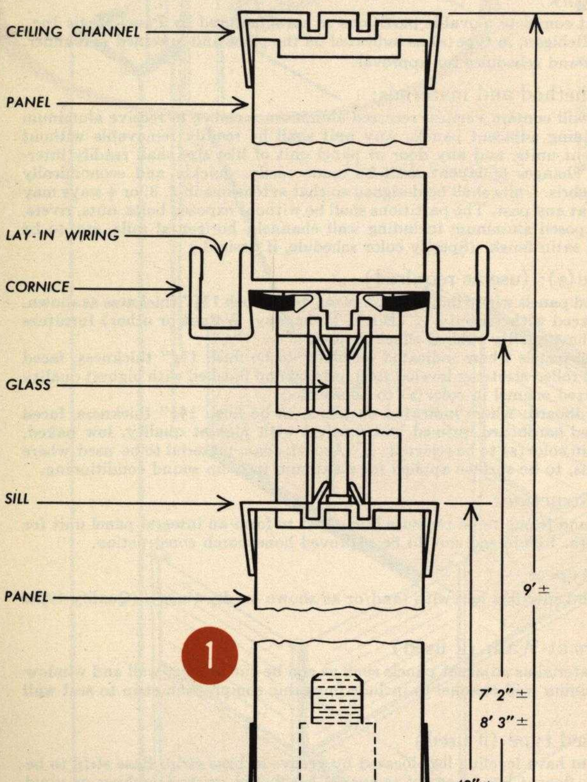
CONNECTIONS, SOLID PANELS



CONNECTIONS, GLAZED PANELS

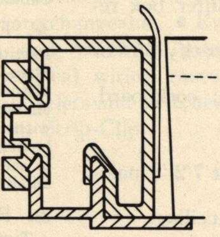


CROSS SECTION

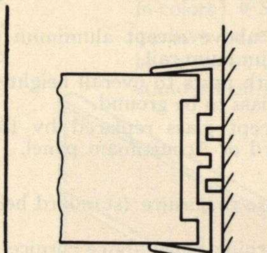

CEILING CHANNEL
PANEL
LAY-IN WIRING
CORNICE
GLASS
SILL
PANEL
1
9' ±
7' 2" ±
8' 3" ±
42" ±
ADJUSTABLE LEG
WIRE RACEWAY
COVE OR STEEL BASE
FLOOR PLATE

Typical wall type (SGS) partition

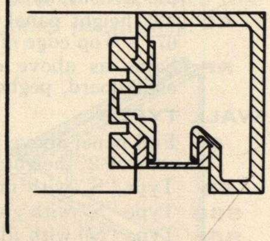
DOOR JAMB



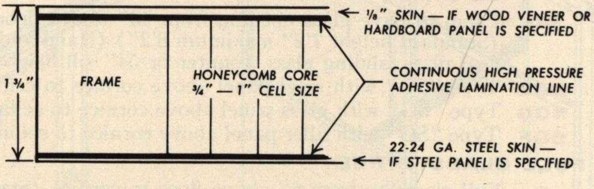
WALL CONDITION



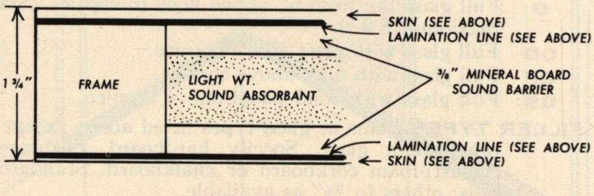
FINISHED END-OF-RUN CONDITION

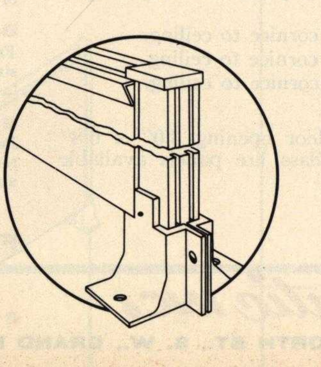


STANDARD PANEL CONSTRUCTION


1/8" SKIN — IF WOOD VENEER OR HARDBOARD PANEL IS SPECIFIED
1 3/4"
FRAME
HONEYCOMB CORE 3/4" — 1" CELL SIZE
CONTINUOUS HIGH PRESSURE ADHESIVE LAMINATION LINE
22-24 GA. STEEL SKIN — IF STEEL PANEL IS SPECIFIED

PANEL CONSTRUCTION FOR MAXIMUM SOUND BARRIER


SKIN (SEE ABOVE)
LAMINATION LINE (SEE ABOVE)
1 3/4"
FRAME
LIGHT WT. SOUND ABSORBANT
3/8" MINERAL BOARD SOUND BARRIER
LAMINATION LINE (SEE ABOVE)
SKIN (SEE ABOVE)



FLOOR ANCHOR

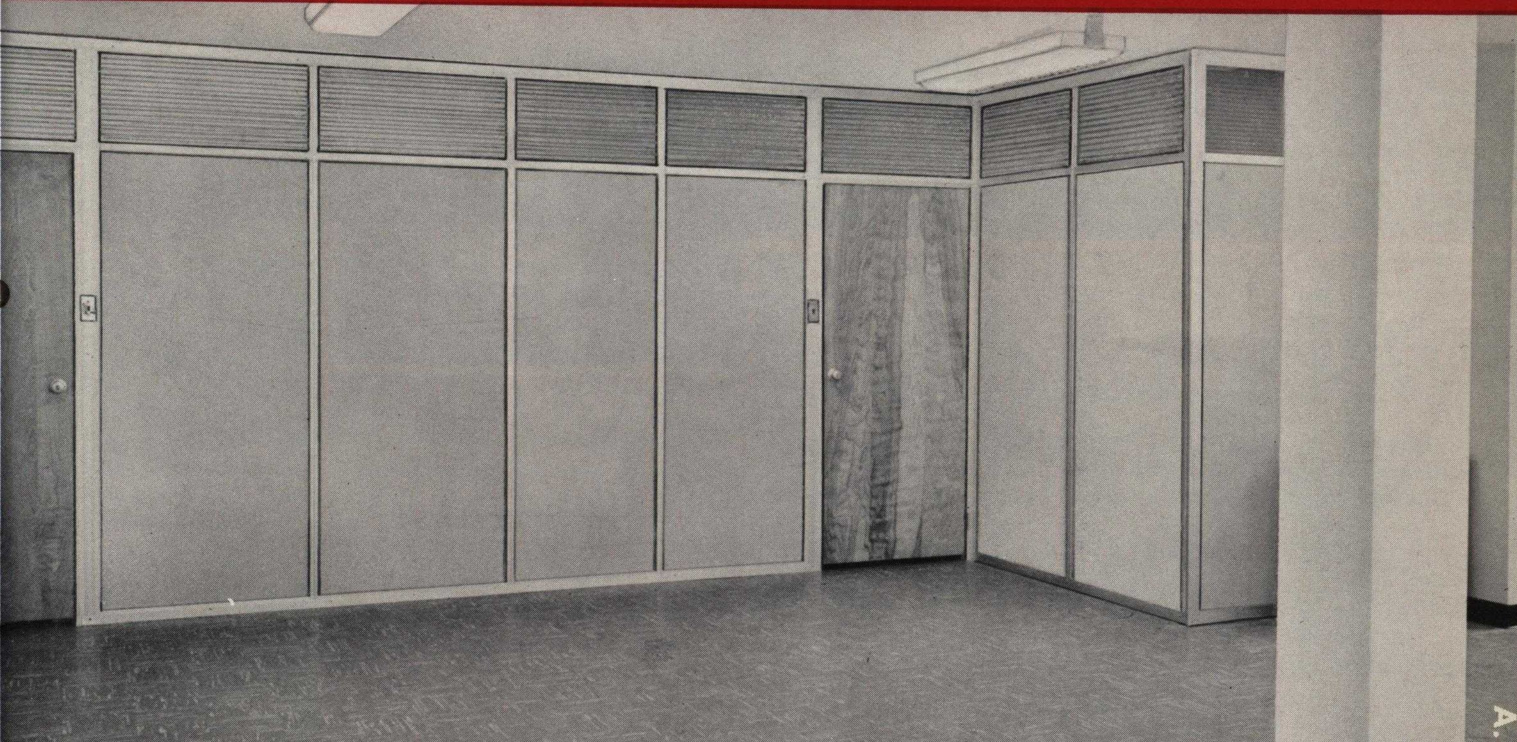
Satin finish floor anchor to match aluminum framing provides solid anchoring of open base, rail type partitions.

A. I. A. File No. 35-H-6

22a
Par

SPACE PANELS
Manufactured by
Partitions, Inc.
TRADEMARK

Anodized Aluminum GIVES YOU THE CUSTOM-LOOK PARTITION THAT'S *Budget-Minded!*



Actual Photograph of Partition Installation Showing Electrical Switches at Doorways

the **COLORS** *you want*

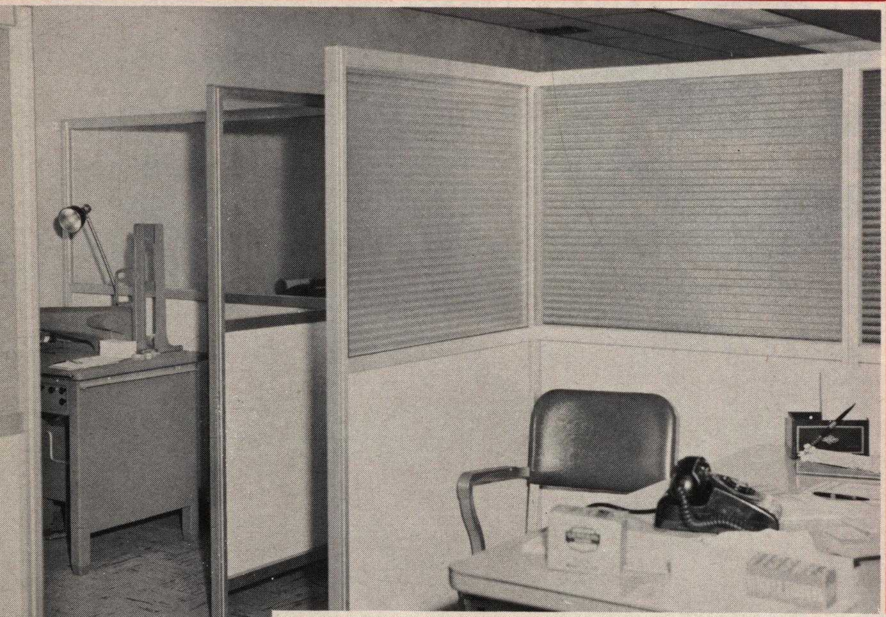
the simplest **INSTALLATION**

with lifetime **DURABILITY**

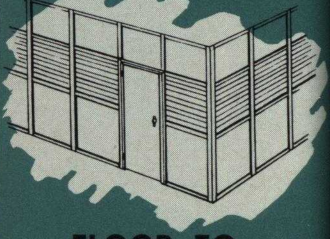
A. I. A. File No. 35-H-6

Copyright 1959—Partitions, Inc.

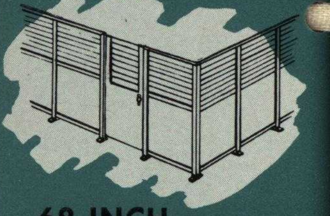
Partitions to suit every need!



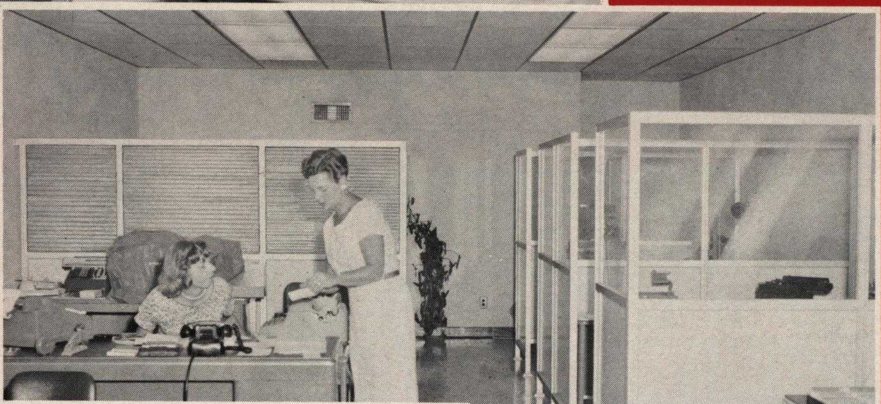
A typical arrangement of SPACE PANELS to provide semi-privacy in individual office units. Panels can be rearranged at will.



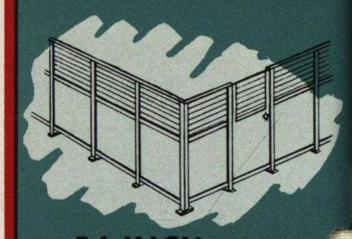
FLOOR TO CEILING INSTALLATION



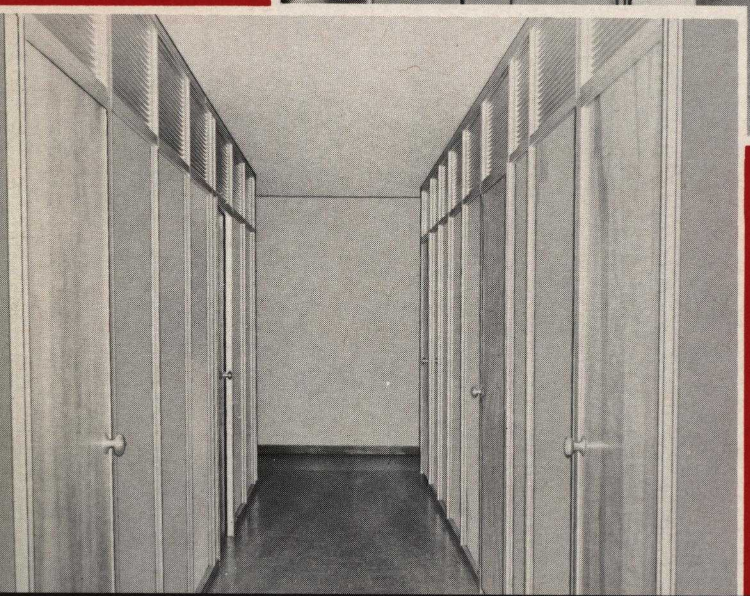
68-INCH SEMI-PRIVATE INSTALLATION



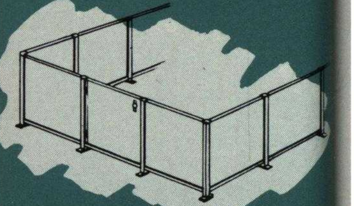
The small office takes on a modern, streamlined, functional appearance with SPACE PANELS used as divider walls.



54-INCH DIVIDER WALL



This floor-to-ceiling installation shows the advantage of the 1½″ thickness of the frames which leaves no unsightly projections and makes the greatest possible utilization of space.



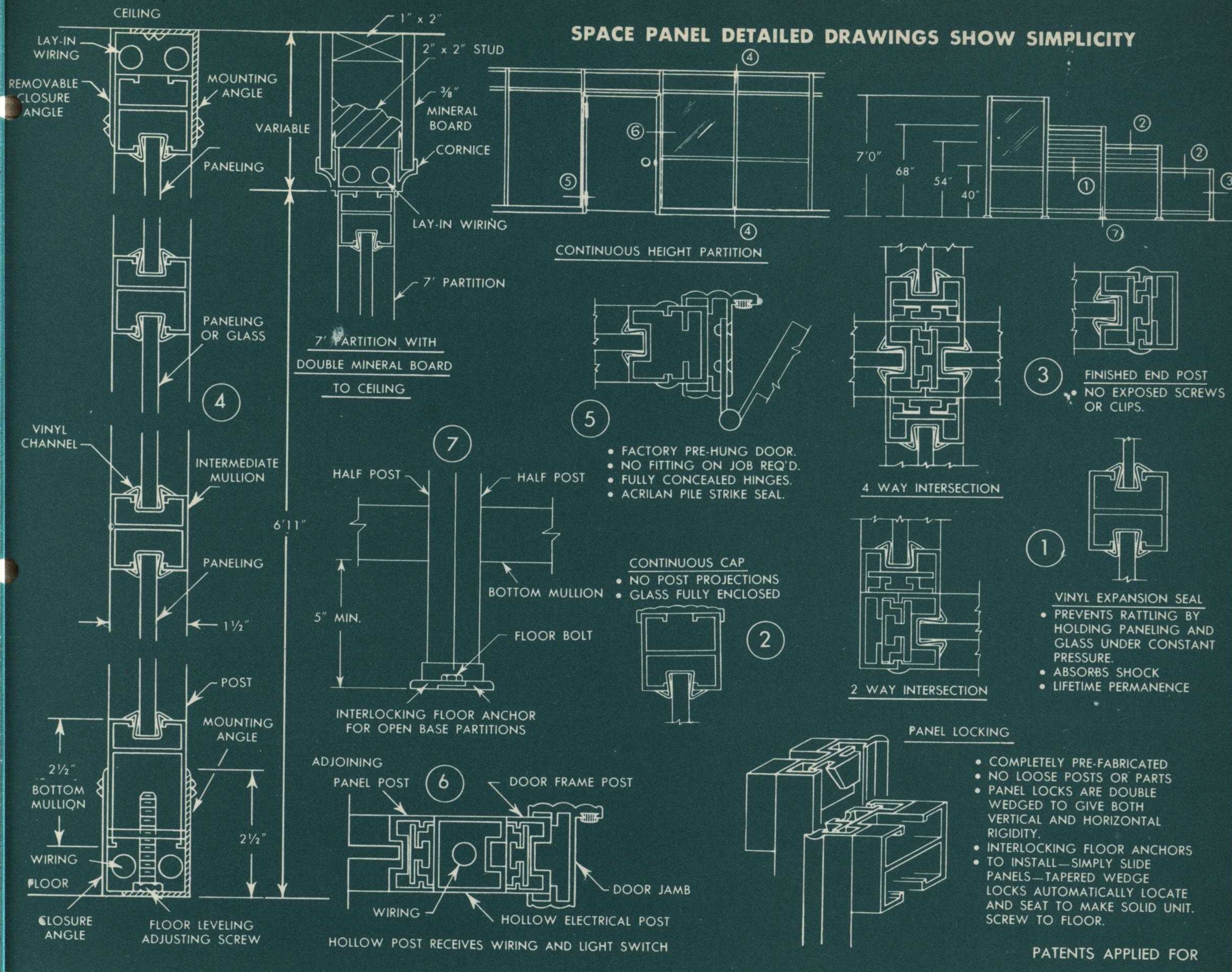
40-INCH RAILING

PHONE: ELGIN 6-8100

Partitions, Inc.

WEST CHESTER PIKE,
EDGEMONT, PENNSYLVANIA

MANUFACTURERS OF DURABLE, ANODIZED ALUMINUM PARTITION SYSTEMS



SPACE PANEL DETAILED DRAWINGS SHOW SIMPLICITY

CEILING
LAY-IN WIRING
REMOVABLE CLOSURE ANGLE
MOUNTING ANGLE
VARIABLE
PANELING
1" x 2"
2" x 2" STUD
3/8" MINERAL BOARD
CORNICE
LAY-IN WIRING
7' PARTITION
7' PARTITION WITH DOUBLE MINERAL BOARD TO CEILING
PANELING OR GLASS
④
VINYL CHANNEL
INTERMEDIATE MULLION
6'11"
PANELING
1½"
POST
MOUNTING ANGLE
2½"
BOTTOM MULLION
2½"
WIRING
FLOOR
CLOSURE ANGLE
FLOOR LEVELING ADJUSTING SCREW
④
⑥
⑤
④
CONTINUOUS HEIGHT PARTITION
7'0"
68"
54"
40"
①
②
②
⑦
⑤
⑦
HALF POST
HALF POST
BOTTOM MULLION
5" MIN.
FLOOR BOLT
INTERLOCKING FLOOR ANCHOR FOR OPEN BASE PARTITIONS
4 WAY INTERSECTION
③
FINISHED END POST
CONTINUOUS CAP
②
2 WAY INTERSECTION
①
VINYL EXPANSION SEAL
PANEL LOCKING
ADJOINING PANEL POST
⑥
DOOR FRAME POST
DOOR JAMB
WIRING
HOLLOW ELECTRICAL POST
HOLLOW POST RECEIVES WIRING AND LIGHT SWITCH

- FACTORY PRE-HUNG DOOR.
- NO FITTING ON JOB REQ'D.
- FULLY CONCEALED HINGES.
- ACRILAN PILE STRIKE SEAL.

FINISHED END POST
- NO EXPOSED SCREWS OR CLIPS.

CONTINUOUS CAP
- NO POST PROJECTIONS
- GLASS FULLY ENCLOSED

VINYL EXPANSION SEAL
- PREVENTS RATTLING BY HOLDING PANELING AND GLASS UNDER CONSTANT PRESSURE.
- ABSORBS SHOCK
- LIFETIME PERMANENCE

PANEL LOCKING
- COMPLETELY PRE-FABRICATED
- NO LOOSE POSTS OR PARTS
- PANEL LOCKS ARE DOUBLE WEDGED TO GIVE BOTH VERTICAL AND HORIZONTAL RIGIDITY.
- INTERLOCKING FLOOR ANCHORS
- TO INSTALL—SIMPLY SLIDE PANELS—TAPERED WEDGE LOCKS AUTOMATICALLY LOCATE AND SEAT TO MAKE SOLID UNIT. SCREW TO FLOOR.

PATENTS APPLIED FOR

Check these Advantages!

36 DECORATOR COLORS

No longer is there any need for drab, depressing and uninspiring office and service partitions. Space panels created by Partitions, Inc. offer a minimum choice of 36 of the newest decorator colors in a wide range of paneling materials which includes porcelain steel, Formica, wood veneer, novoply, duraply, cement-asbestos, tenex and sheet rock.

PARTITIONS ONLY 1½-INCH THICK

There are no unsightly, awkward and space-consuming projections in space panels engineered by Partitions, Inc. The streamlined 1½-inch thickness of the frames permits the greatest possible utilization of office and service space.

PRE-FABRICATED

Panels are completely pre-fabricated at the factory, using the paneling material of your choice in the decorator colors you want—or panels can be furnished unpainted, to be finished at your convenience after installation.

ANODIZED ALUMINUM

All frames are engineered to a fine precision from heat-treated extruded aluminum, anodized to remain permanently beautiful and provide lifetime service without maintenance.

TROUBLE-FREE INSTALLATION

Partition panels are interlocked on the job quickly and easily, with no interruption or disruption of business . . . no trimming, no sawing, no fitting, no glazing, no hammering.

FLEXIBILITY OF DESIGN

There is no limitation in the location of the horizontal mullion members in the frame. Your own choice determines where they shall be placed to suit your own decorator requirements.

SPACE PANELS WITH A FUTURE

This budget-minded partitioning system provides the ideal solution to changing space requirements because individual panels can be re-arranged quickly and without bother and expense.

SPACE PANELS

Manufactured by Partitions, Inc.

TRADEMARK

SUGGESTED ARCHITECTURAL SPECIFICATIONS

1. **GENERAL:** Furnish and erect SPACE PANELS designed and manufactured by Partitions, Inc., West Chester Pike, Edgemont, Pennsylvania.

2. **SHOP DRAWINGS:** Drawings shall be furnished showing layout, typical elevation, door schedule and related data for approval by architect before starting fabrication.

3. **MATERIALS:** All framing members shall be 6063-T5 extruded aluminum and anodized for permanent, maintenance-free finish. All framing members shall be 1½″ wide to gain maximum usable space.

   Paneling shall be of any approved building materials up to ⅜″ thick as required to obtain desired appearance and economy. Porcelain steel, formica, wood veneer, novoply, duraply, cement asbestos, tenex and sheet rock are typical recommended paneling materials.

4. **UNIT PANEL CONSTRUCTION:** Each unit SPACE PANEL shall be a pre-assembled complete unit consisting of two (2) vertical half-posts having alternating male and female panel locking hardware and screwed to a suitable number of horizontal mullions, thus forming a rectangular structure having a self-contained channel to accept and completely enclose the glass and/or paneling.

   Glass and paneling shall be separated from contacting framing members by a vinyl channel all around to absorb shock, deaden sound and to compensate for variations in paneling and glass thickness.

   Panel locking hardware shall be of a double-wedge design to provide both lateral and vertical alignment to facilitate joining of panels and to maintain positive constant locking pressure between panels. When locked to adjoining panels, each half-post shall become a full-post 1½″ square.

   Vertical location of intermediate horizontal members shall be variable or capable of elimination where specific architectural effect is required or desired.

5. **OPEN BASE SPACE PANELS:** The glass and/or paneling in the 40″, 54″, 68″ and 7 foot heights shall be enclosed at the top with the 1½″ square horizontal mullion, and shall be finished with a continuous extruded aluminum cap. Each half-post of finished unit shall have alternate male and female floor anchor castings which, when panels are joined, shall interlock and provide for two (2) screws to secure each post to the floor for maximum rigidity.

   Leveling shall be accomplished with extruded aluminum shims shaped to match the contour of the floor anchors.

6. **FLOOR-TO-CEILING SPACE PANELS:** These shall be either a continuous single unit panel from floor to ceiling or a unit panel 7-ft. high consisting of desired glass and/or paneling and having provisions for a double mineral board filler above to ceiling.

   The double mineral board filler units shall have a continuous extruded aluminum cornice at the top of the partition which shall receive two (2) sheets of ⅜″ mineral board and 2″ x 2″ wood framing and shall provide a concealed raceway for electrical wiring.

   Floor base channel formed by cover angles and bottom horizontal mullion shall provide for wire raceway and to receive electrical outlets.

   A hollow 1½″ square post shall be provided at doorways to receive electrical switches and wiring. Leveling shall be provided by 1¾″ x ⁵⁄₁₆″ screw at bottom of each vertical post.

7. **DOORS AND DOOR FRAMING:** Doors shall be 1⅜″ thick hollow core wood. Door frames shall be completely pre-assembled including transoms where required and shall be provided with male and female panel locks to lock to adjoining regular panels. Door jambs shall be pre-fitted and fastened to door frame complete with concealed butt hinges and latch striker plate so that fitting up of doors during erection is not required. Door jambs shall be provided with recess to accommodate an acrilan pile strike seal.

MANUFACTURED BY

Partitions, Inc.

Printed in USA

WEST CHESTER PIKE • EDGEMONT, PENNSYLVANIA • PHONE: ELGIN 6-8100

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PENMETAL MOVABLE INTERIOR PARTITIONS*

A.I.A. File No. 35-H-6

METAL MARK
Penmetal
1869
OF QUALITY

PENN METAL COMPANY, INC., BOSTON 9, MASSACHUSETTS

*Patents pending

PENMETAL MOVABLE INTERIOR

Copyright 1959, Penn Metal Company, Inc.

PARTITIONS combine rich beauty with structural stability and efficient sound control. Although designed for permanent use, they can be readily dismantled and re-erected, in a new location, to suit changed floor-plan requirements. Low initial cost, reduced maintenance and easy movability, with complete salvage of all parts, result in long-term economies.

These interiors are designed around a single modular framing system to which can be attached a wide variety of panels, providing finishes for practically any decor. Only a few standard parts are required to create any of the handsome, yet utilitarian, partitions illustrated in this catalog.

They permit a free hand in planning distinctive interiors for executive, general and factory offices; for commercial and public buildings; for stores, theaters, hotels, hospitals, schools, banks. In fact, they are adaptable to an endless variety of new, modern interiors—in either new construction or in modernization.

Penmetal movable partitions are a product of Penn Metal Company, Inc., for ninety years a leader in the manufacture of Metal Lath, Steel Framing and Expanded Metals. All framing members, steel panels and partition accessories are produced in a new, modern plant where automatically controlled manufacturing procedures insure the uniformity and precision so necessary in a high-quality product.

Service is nation-wide. Carefully selected distributors, located in principal cities, provide complete engineering and erection service. Ample warehouse stocks enable them to make installation without delay.

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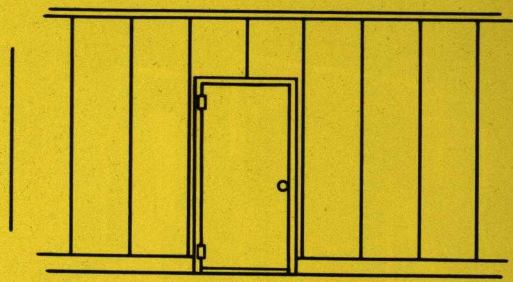
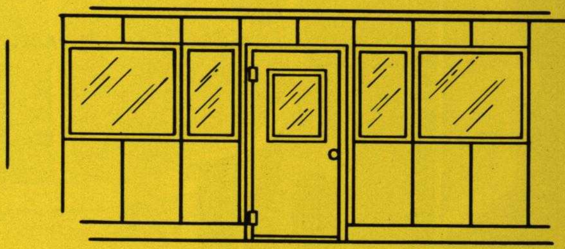
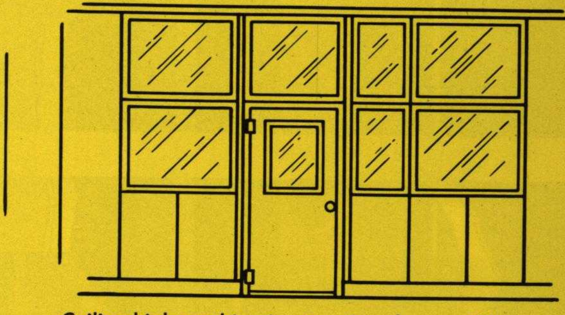
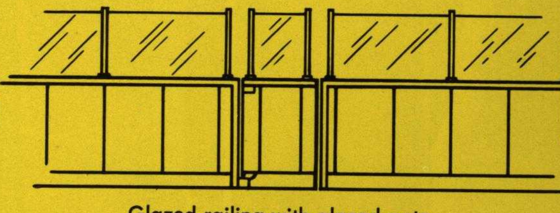
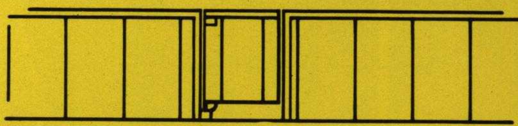
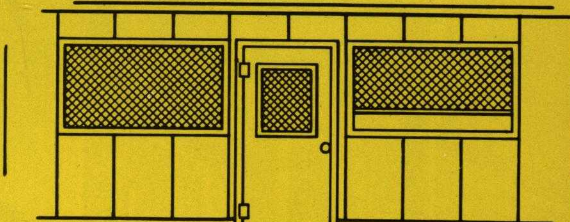

Standard partition with steel, hardwood, plywood or wallboard panels.


Cornice-high combination panel-and-glass partition.

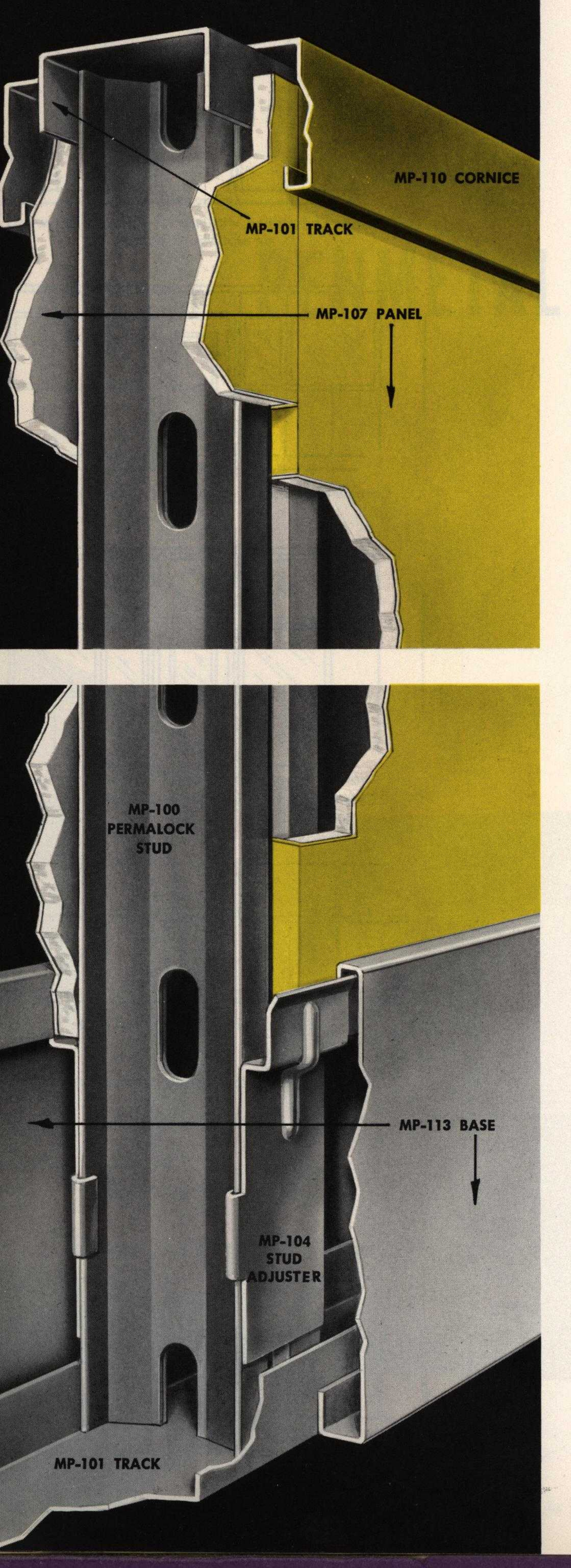

Ceiling-high combination two-tier glass partition.


Glazed railing with glazed gate.


Standard railing with gate.


Industrial partition with expanded metal.

DESIGN SIMPLICITY



Penmetal® movable interiors have a single framing system for the attachment of various types of paneling. The paneled surfaces on each side of the partition are flush, from floor to ceiling, with only hairline joints. There are no visible posts to detract from the smooth flowing lines.

As all units are standard, they are interchangeable. Hence individual panels may be quickly and easily removed without disturbing other panels. Because panel widths correspond to door sections, doors may be placed wherever desired in the room plan.

The dead-air space between the panels acts as an efficient thermal barrier. If required, this space can be filled with insulating wool to increase the insulation value of the partition. The hollow center can also be used for the concealed passage of wiring and piping.

FRAMEWORK

Heart of the framing system is the Permalock stud, which has been job-proved over a period of years. These 2½" steel members are formed so that panels can be readily and securely attached to them. Stud faces are wide to provide maximum strength and bearing surface for panels. Permalock studs have passed impact tests required by the *Bureau of Standards and Appeals* of New York City.

Each stud fits into a stud adjuster, which acts as a leveling bracket to assure "one line" joints regardless of floor variations. These stud adjusters also support the panels and provide clips for securing the base. Track sections, for both floor and ceiling, are sized to fit over the flanges of the studs. Bridging members are accurately made to assure correct stud spacing, and reinforce the partition structure.

Other parts of the system, such as cornices, inside and outside corner panels, and vertical end panels, are all designed for fast, simple assembly.

All parts are electro-galvanized or painted to prevent corrosion. Permalock studs are galvanized steel. Panels and fittings are Parkerized and coated with enamel, baked on.

Cut-away view of top and bottom sections of steel-paneled partition.

STEEL PANELING

Penmetal Steel Panels consist of 20-gage, surface-stretcher-leveled, steel sheet with ¼" sound-deadening insulation board bonded to the panel steel. Vertical edges are designed to snap into the Permalock studs. Bottom edges are supported by the stud adjusters.

With panels attached to both sides of the studs, the thickness of the finished partition is only 3". As this is less than the thickness of most movable partitions, important savings in floor space result when Penmetal interiors are used.

These attractive panels are available in a wide range of smart and distinctive decorator colors. A single color or a combination of compatible colors can be selected to achieve the desired result.

The baked-enamel finishes are applied at the factory over a rust-resistant base. These beautiful surfaces will not crack, chip or craze with time, and they will never need repainting. The only maintenance required is an occasional washing with a mild solution of soap and water.

WOOD PANELING

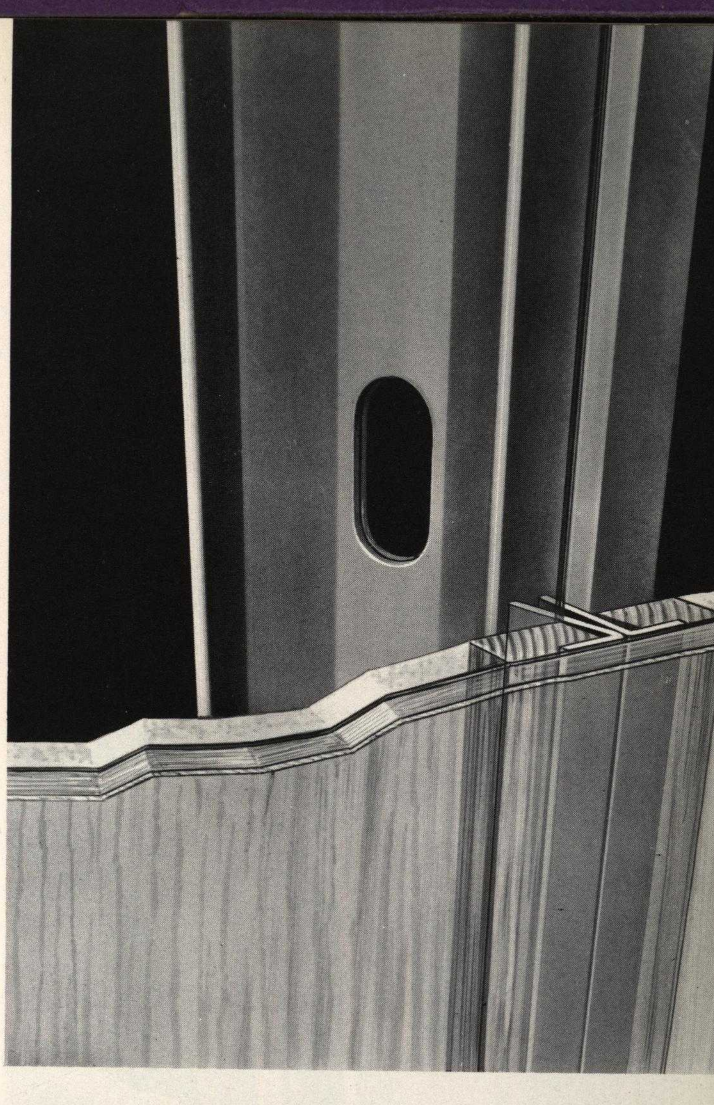
As many executives prefer a wood-paneled office, the Penmetal system provides for this. The interior can be paneled in rich attractive hardwoods; the exterior can be finished in steel to blend with other, adjacent partitions.

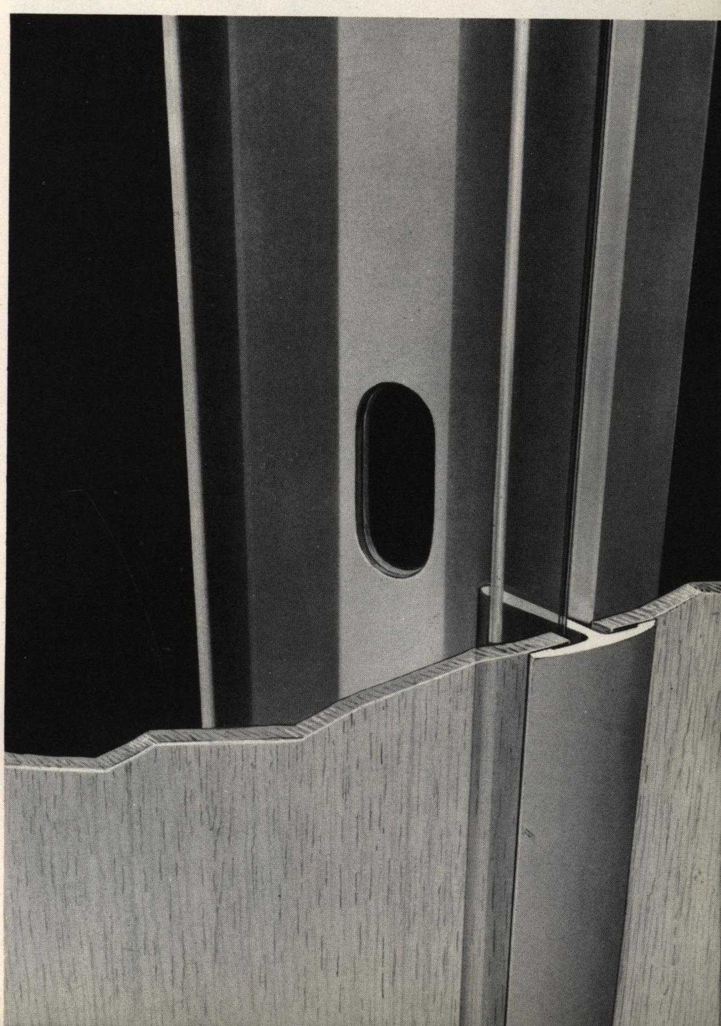
Plywood and hardwood panels in ¼" and ⅛" thicknesses respectively may be used. Panels should be applied as 24" widths. To the back of the paneling, ¼" sound-deadening insulation may be attached so that the panels present a butt-joint appearance within the room. This is accomplished by attaching, by glue or nails, angle panel attachment MP-144G. To the back of this, insulation board may be attached. The steel flanges of the angle snap into the Permalock studs, holding the panel securely in place.

An alternative design uses standard ¼" or ⅛" panels, 24" in width, without the insulation board and angle attachments. Attachment is by means of aluminum battens that snap into the stud and cover the joint between adjacent panels. This method of attachment is similar to that used for wallboard partitions.

WALLBOARD PANELS

Wallboard panels are attached to the studs by means of Kwik-Klip[*] batten strips. The batten strip is used where two panels butt against each other over the flange of the stud. The batten strip slips into the attachment groove of the stud, and, by friction,





UPPER ILLUSTRATION: Plywood panels, with insulation board, fastened to stud by angle panel attachment MP-144G.

LOWER ILLUSTRATION: ⅛" hardwood panel attached to the stud by aluminum batten strip MP-145.

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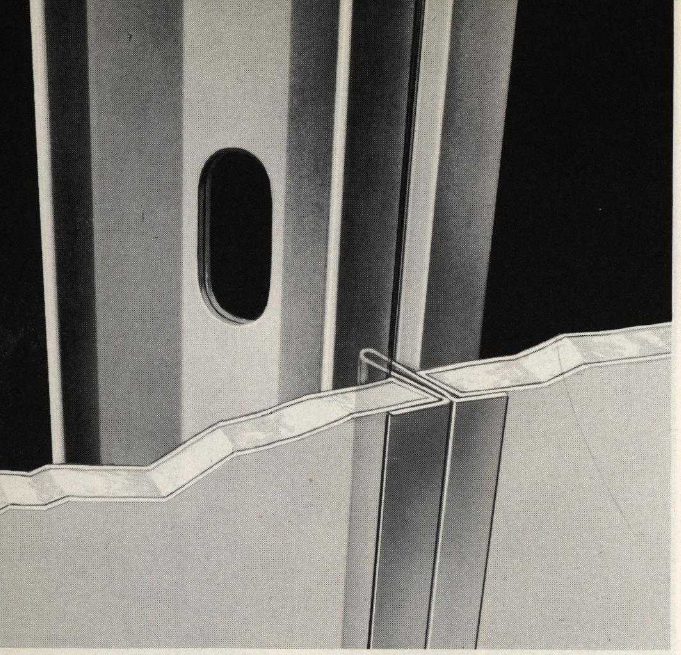
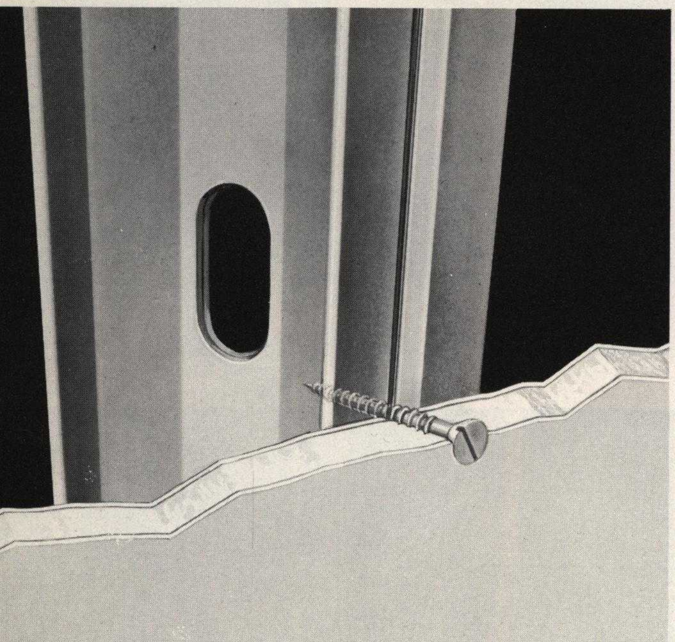
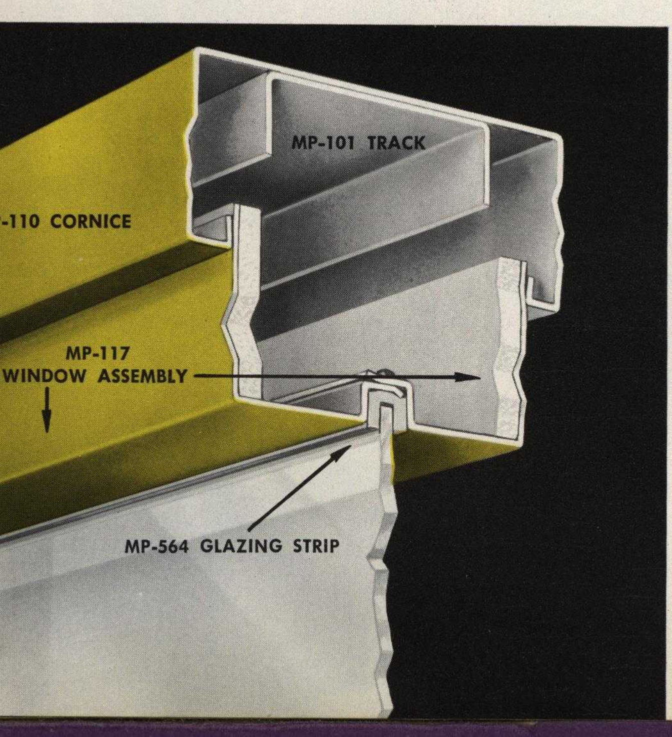
[*] Trade mark registered; patent applied for..







holds the panel securely in position. The lower edge of the wallboard is supported by the stud adjusters, and the top edge is held in place by the cornice.

When standard wallboard sheets, in 4′ widths, are specified, batten strips are used only at alternate studs. Attachment to the intervening studs, at the centers of the sheets, is by screw. The screws are countersunk below the panel surface, and the indentations are spackled to provide a smooth finish with the face of the wallboard. When 2′ wallboard panels are employed, batten strips are used at each stud.

Attachment of metal base is the same as for steel-panel partitions. When rubber or plastic base is called for, stud adjusters are not used. Instead, the wallboard panels rest on the floor, and the base is glued to the face of the panel.

PARTITIONS WITH EXPANDED METAL

For industrial plant stockrooms, tool rooms, etc., where free circulation of air and protection of room contents are both required, Penmetal expanded metal can be used in place of glass windows in the movable partitions. The expanded metal can be welded to the window frame or held in place with a special Penmetal vinyl extrusion. A variety of mesh sizes is available.

CONCEALED UTILITIES

Because the partitions are hollow, and the studs are furnished with regularly spaced, punched openings, the space between the panels can be used for the passage of wiring and piping. This permits the placement of outlets and switches at any convenient position, either horizontally or vertically.

PARTITION HEIGHTS

Given below are heights of the different types of partitions available.

Type of Partition	Partition Height
Standard Railing	44⅞″
Glazed Railing	44⅞″ plus 24″ glass
Cornice High (Solid Steel or With Windows)	7′0″, 8′1″ 9′1½″, 10′2⅝″
Ceiling High	As required*

** Maximum steel-panel height is 10′; for heights above 10′, filler panels may be used above the cornice. Maximum height for wallboard partitions is 12′.*

UPPER ILLUSTRATION: Two wallboard panels fastened to a stud with Kwik-Klip batten strip MP-120G (patent pending).

CENTER ILLUSTRATION: Centers of 4′–wide wallboard panels are screwed to stud. Screw sets below surface and indentation is spackled with wallboard cement.

LOWER ILLUSTRATION: Cut-away view of top section of 7′ steel-and-glass partition.

PARTITION THICKNESSES

The following tabulation shows the overall thicknesses of Penmetal movable partitions with various types of panels.

Type of Panel	Partition Thickness
Steel with insulation board	3″
⅛″ hardwood	2¾″
⅛″ hardwood with insulation board	3¼″
¼″ plywood	3″
¼″ plywood with insulation board	3½″
½″ wallboard	3½″
⅝″ wallboard	3¾″

HIGHLY EFFICIENT SOUND CONTROL

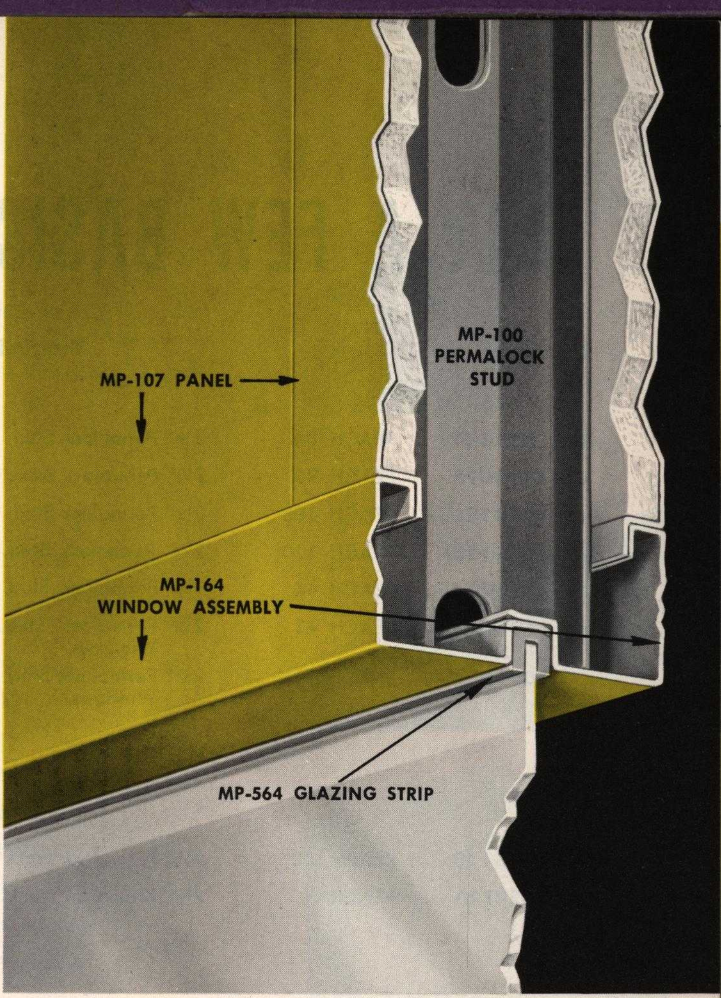
An important consideration in selecting movable partitions is their effectiveness as a barrier to the transmission of sound. Many people find difficulty in performing their best work when surrounded by distracting noises.

Penmetal movable interiors are designed to reduce to a minimum the transmission of sound from the area on one side of the partition to the area on the other side. How efficient they are has now been demonstrated in a test conducted by a recognized, independent testing laboratory.

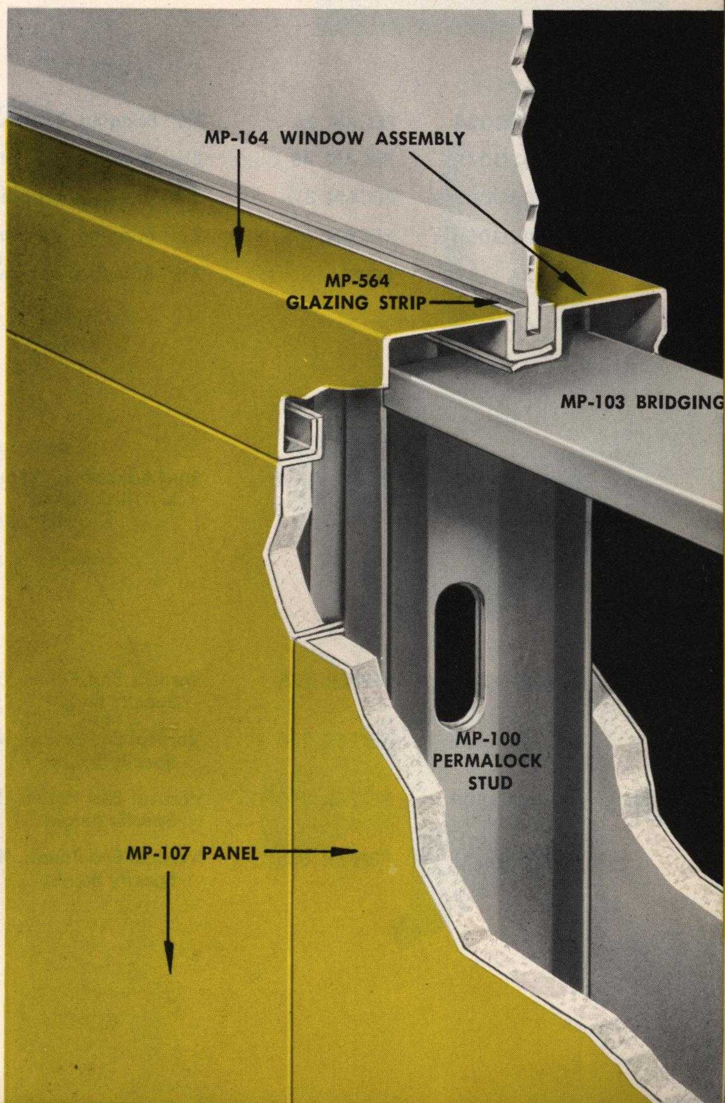
In this test, *an outstanding average sound-transmission-loss rating of 43 decibels was secured.* The results of the test also show exceptionally high decibel reductions at the critical sound-frequency ranges. The sound-transmission loss averaged 44.5 decibels at 350, 500, 700 and 1000 cycles per second.

A standard, 3″-thick, floor-to-ceiling Penmetal partition, without doors or windows, was tested. There was no packing between the studs; the only insulation was the standard panel backing.

In considering these ratings, it should be understood that the sound resistance of any partition may vary in adequacy with its location. What a person hears through a partition is affected by the general masking noise level, the amount of sound absorption in the rooms and, of course, openings for doors, windows, ductwork, etc. It should also be remembered that equally good ratings cannot be expected from glazed-railing and cornice-high partitions.

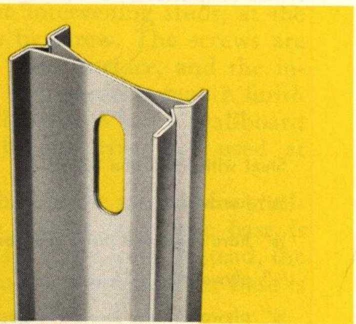
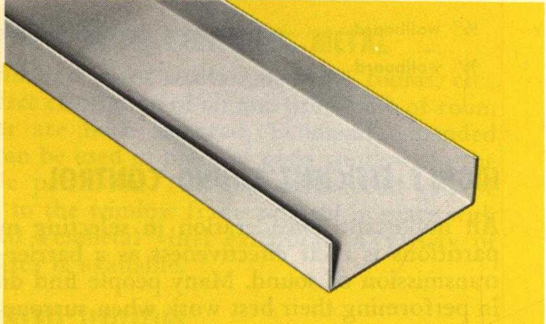
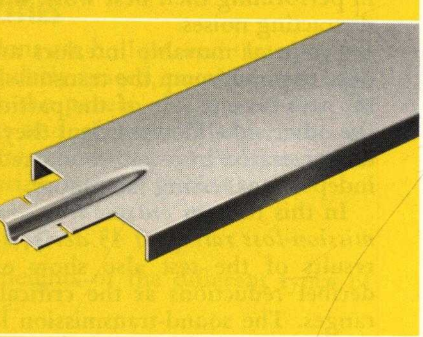
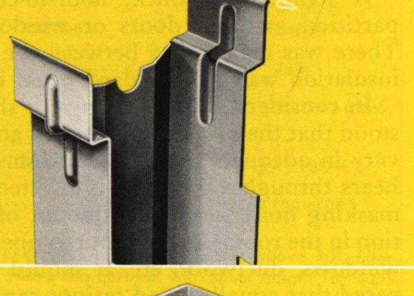
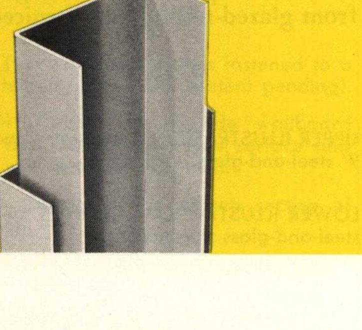


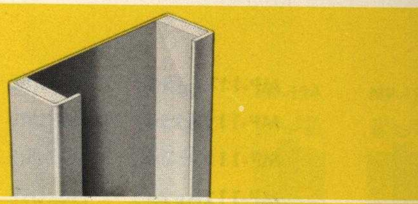
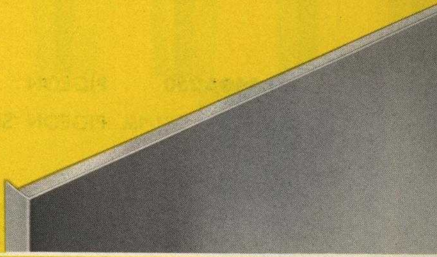
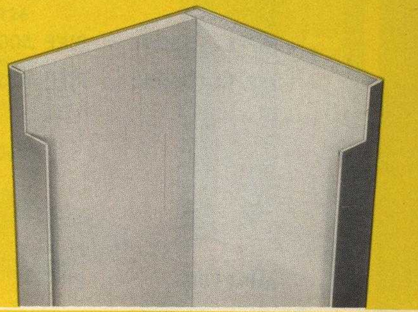
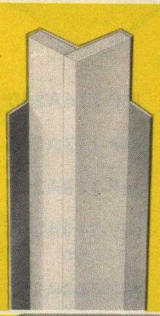
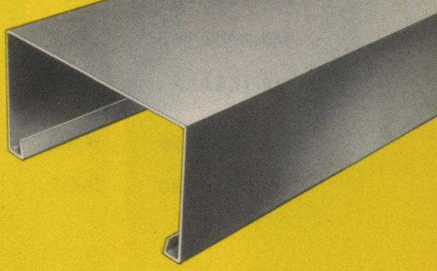
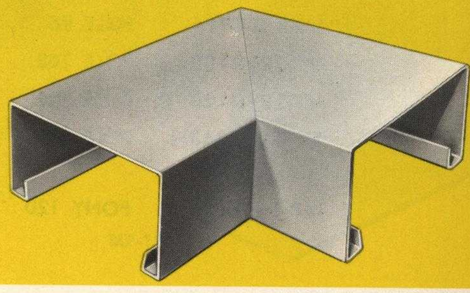
UPPER ILLUSTRATION: Cut-away view of top section of 8′ or 9′ steel-and-glass partition.

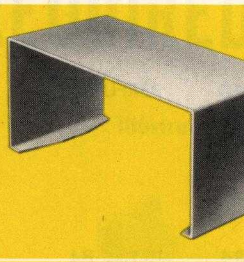
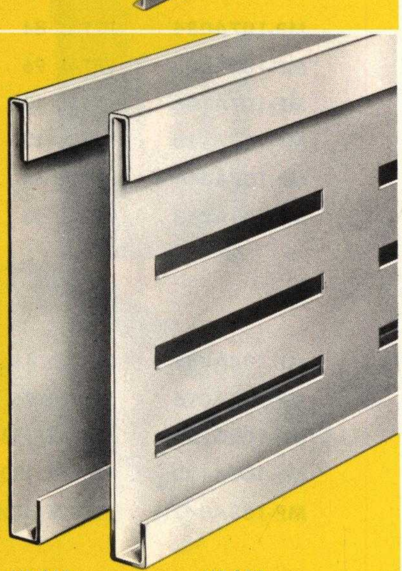
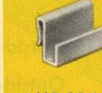
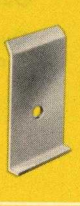
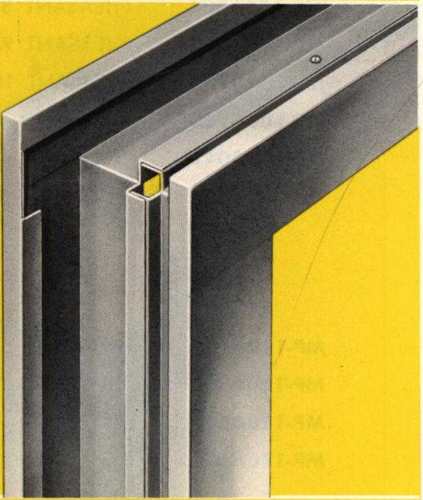
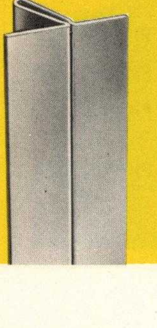
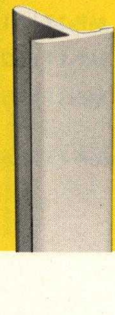


LOWER ILLUSTRATION: Cut-away view of bottom section of steel-and-glass partition.

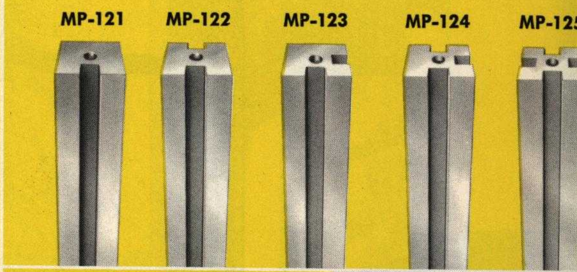
ONLY A FEW BASIC PARTS REQUIRED

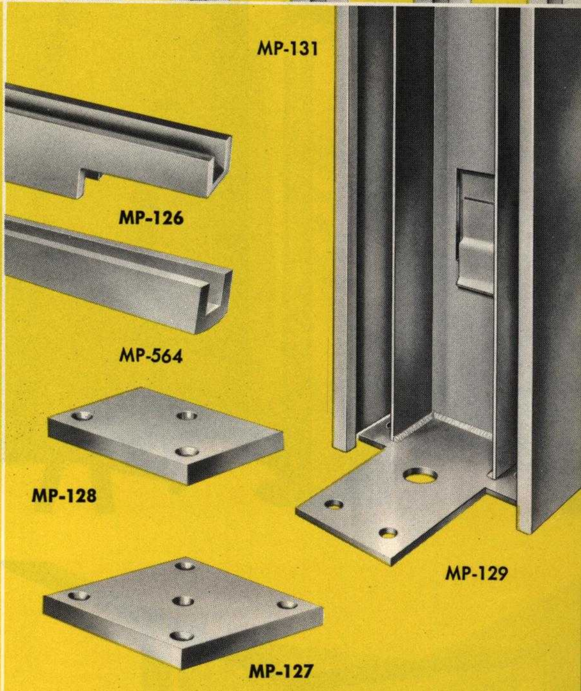
Part No.	Code	Description	Illustration
MP-100G084	PEACH 84	2½″ Permalock Stud, 7′0″ Partition	
MP-100G096	PEACH 96	2½″ Permalock Stud, 8′1″ Partition	
MP-100G108	PEACH 108	2½″ Permalock Stud, 9′1½″ Partition	
MP-100G120	PEACH 120	2½″ Permalock Stud, 10′2⅝″ Partition	
MP-100G044 11/16	PEACH 44	2½″ Permalock Stud, Below Railings	
MP-100G043 11/16	PEACH 43	2½″ Permalock Stud, Below Standard Windows	
MP-100G051 13/16	PEACH 51	2½″ Permalock Stud, Below File-height Windows	
MP-101G120	PEARL 120	2½″ Permalock Track	
MP-102R120	PENSION	2½″ Structural Track 16 Gage	
MP-103G024	PECAN 24	2½″ Bridging, 24″ Stud Spacing	
MP-103G048	PECAN 48	2½″ Bridging, 48″ Stud Spacing	
MP-103G003½	PECAN 3½	2½″ Bridging, adjacent to door	
MP-103G006½	PECAN 6½	2½″ Bridging, adjacent to door	
MP-146	PORT	2½″ Bridging, narrow, 24″	
MP-104G250	PEONY 250	Stud Adjuster and Base Clip, ¼″ Thick Panels	
MP-105A125	PEPPER 125	Vertical End Panels, ⅛″ Thick Panels, Specify height	
MP-105A250	PEPPER 250	Vertical End Panels, ¼″ Thick Panels, Specify height	
MP-105A500	PEPPER 500	Vertical End Panels, ½″ Thick Wallboard, Specify height	
MP-105A625	PEPPER 625	Vertical End Panels, ⅝″ Thick Wallboard, Specify height	

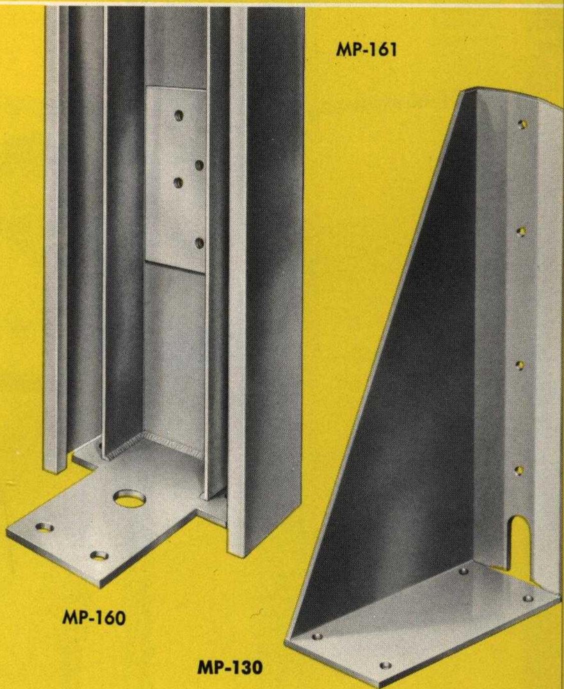
MP-106A250	PERFUME	Vertical End Windows, ¼″ Thick Panels, Specify height	
MP-107A084 **MP-107A096** **MP-107A108** **MP-107A120** **MP-107A044⅞** **MP-107A053**	PETAL 84 PETAL 96 PETAL 108 PETAL 120 PETAL 44 PETAL 53	24″ Panels, 7′0″ Partition 24″ Panels, 8′1″ Partition 24″ Panels, 9′1½″ Partition 24″ Panels, 10′2⅝″ Partition 24″ Panels 24″ Panels, Below File-height Windows	
MP-108A084 **MP-108A096** **MP-108A108** **MP-108A120** **MP-108A043½**	PEWEE 84 PEWEE 96 PEWEE 108 PEWEE 120 PEWEE 43½	Outside Corner Panel, 7′0″ Partition Outside Corner Panel, 8′1″ Partition Outside Corner Panel, 9′1½″ Partition Outside Corner Panel, 10′2⅝″ Partition Outside Corner Panel, Below Windows and Railings	
MP-109A084 **MP-109A096** **MP-109A108** **MP-109A120** **MP-109A043½**	PHEASANT 84 PHEASANT 96 PHEASANT 108 PHEASANT 120 PHEASANT 43½	Inside Corner Panel, 7′0″ Partition Inside Corner Panel, 8′1″ Partition Inside Corner Panel, 9′1½″ Partition Inside Corner Panel, 10′2⅝″ Partition Inside Corner Panel, Below Windows and Railings	
MP-110A125 **MP-110A250** **MP-110A500** **MP-110A625**	PHLOX 125 PHLOX 250 PHLOX 500 PHLOX 625	Cornice, 120″ Long, ⅛″ Thick Panels Cornice, 120″ Long, ¼″ Thick Panels Cornice, 120″ Long, ½″ Thick Wallboard Cornice, 120″ Long, ⅝″ Thick Wallboard	
MP-111A125 **MP-111A250** **MP-111A500** **MP-111A625**	PICNIC 125 PICNIC 250 PICNIC 500 PICNIC 625	Corner Cornice Assembly, ⅛″ Thick Panels Corner Cornice Assembly, ¼″ Thick Panels Corner Cornice Assembly, ½″ Thick Wallboard Corner Cornice Assembly, ⅝″ Thick Wallboard	

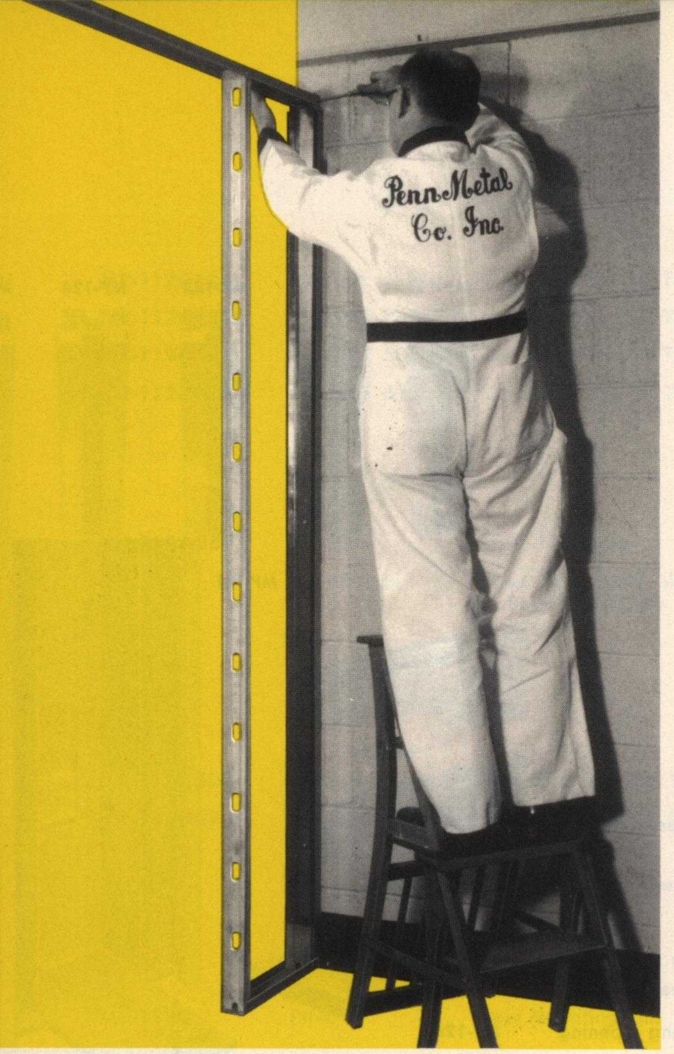
MP-112A125	PICTURE 125	Cornice Splice, ⅛″ Thick Panels	
MP-112A250	PICTURE 250	Cornice Splice, ¼″ Thick Panels	
MP-112A500	PICTURE 500	Cornice Splice, ½″ Thick Panels	
MP-112A625	PICTURE 625	Cornice Splice, ⅝″ Thick Panels	
MP-113A250	PIGEON	Base, 120″ Long	 MP-113 MP-159
MP-159	PIGEON SL	Base, 120″ Long (Slotted), Specify thickness of panels	
MP-114G500	PIKE 500	Base Extender Clip, ½″ Thick Wallboard	 MP-114
MP-114G625	PIKE 625	Base Extender Clip, ⅝″ Thick Wallboard	
MP-115G	PINE	Base Mounting Clip	 MP-115
MP-116A250	PISTOL	Window Assembly, 24″ x 30½″, 7′0″ Partitions	
MP-117A250	PITCH	Window Assembly, 48″ x 30½″, 7′0″ Partitions	
MP-118A250	PLATE	Window Assembly, 24″ x 38⅝″, 7′0″ Partitions	
MP-119A250	PLUM	Window Assembly, 48″ x 38⅝″, 7′0″ Partitions	
MP-163A250	PET	Window Assembly, 24″ x 30½″, 8′1″, 9′1½″ and 10′2⅝″ Partitions	
MP-164A250	PAD	Window Assembly, 48″ x 30½″, 8′1″, 9′1½″ and 10′2⅝″ Partitions	
MP-165A250	POKE	Window Assembly, 24″ x 38⅝″, 8′1″, 9′1½″ and 10′2⅝″ Partitions	
MP-166A250	PUNT	Window Assembly, 48″ x 38⅝″, 8′1″, 9′1½″ and 10′2⅝″ Partitions	
MP-167A250	PLAN	Window Assembly, 24″ x 38⅝″, for Second-tier Windows	
MP-168A250	PLOT	Window Assembly, 48″ x 38⅝″, for Second-tier Windows	
MP-120G084	POLE 84	KWIK-KLIP Batten Strip, 7′0″ Partition	MP-120 
MP-120G096	POLE 96	KWIK-KLIP Batten Strip, 8′1″ Partition	
MP-120G108	POLE 108	KWIK-KLIP Batten Strip, 9′1½″ Partition	
MP-120G120	POLE 120	KWIK-KLIP Batten Strip, 10′2⅝″ Partition	
MP-120G043½	POLE 43½	KWIK-KLIP Batten Strip, Below Windows and Railings	
MP-145X120	PONY 120	Aluminum Batten Strip, 10′0″, Clear Anodized	MP-145 

MP-121X024	POPPY	Glazing End Post
MP-122X024	PRAIRIE	Glazing Intermediate Post
MP-123X024	PRETZEL	Glazing L-Corner Post
MP-124X024	PRINCE	Glazing Tee Post
MP-125X024	PUMA	Glazing Cross Post
MP-126X048	PUPPET	Glass Retainer
MP-560	POACHER	Glazing Strip, for 1/8" Glass (Included with Window Assembly)
MP-564	POACHING	Glazing Strip, for 7/32" Glass (Included with Window Assembly)
MP-127X	PURSE	Glazing-post Base
MP-128X	PAIL	Glazing-post Dead-end Base
MP-129R250	PARKA 250P	Railing Post, for Railing Opening
MP-131R250	PARKA 250F	Railing Post Facing, for Railing Opening
MP-130	PANDA	Stud-support Bracket
MP-160R250	PALACE 250P	Gate Post, for Mounting Gate
MP-161R250	PALACE 250F	Gate Post Facing, for Mounting Gate


MP-121
MP-122
MP-123
MP-124
MP-12


MP-131
MP-126
MP-564
MP-128
MP-129
MP-127


MP-161
MP-160
MP-130



RAPID ERECTION

Penmetal movable interior partitions are fast and easy to erect or dismantle. Work can be done without disturbing normal office routine in adjacent areas, and there is no mess to be cleaned up after the work is completed.

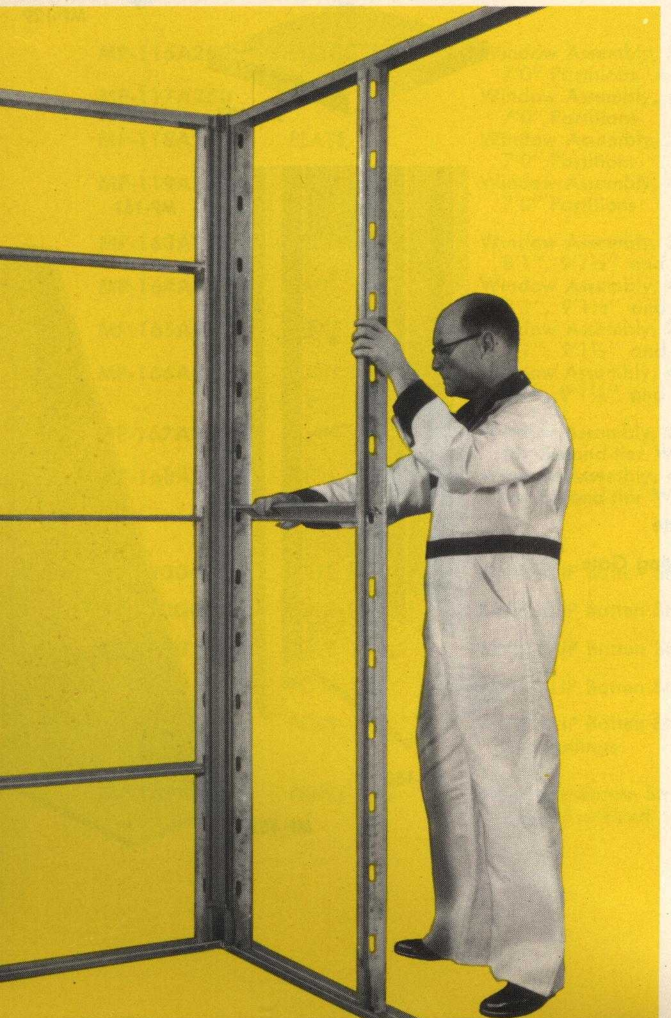
When a partition is taken down, all parts can be salvaged for re-use in another location. In short, there is no loss of materials when a partition is moved.

After a partition is erected, doors and windows can be interchanged or moved to new positions. Changes are easy to make, and new parts are not required.

The illustrations on this and the opposite page show how easy it is to install one of these handsome interiors. Note how few parts – all of which are standard—are required. The partition can be erected and demounted with ordinary tools.

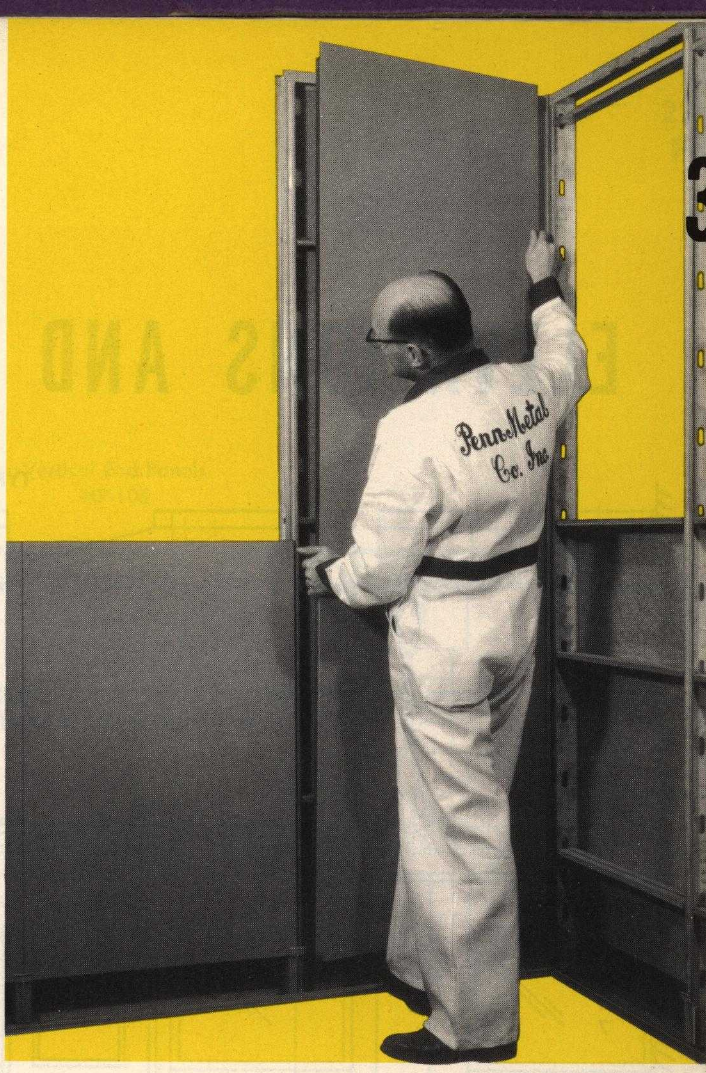
1

Here, a vertical end panel, set in floor and ceiling track, is attached to the existing wall. The vertical end panel will "finish off" the completed partition at the end. The floor and ceiling track are identical rolled channels. The Permalock studs are positioned 24" on centers.



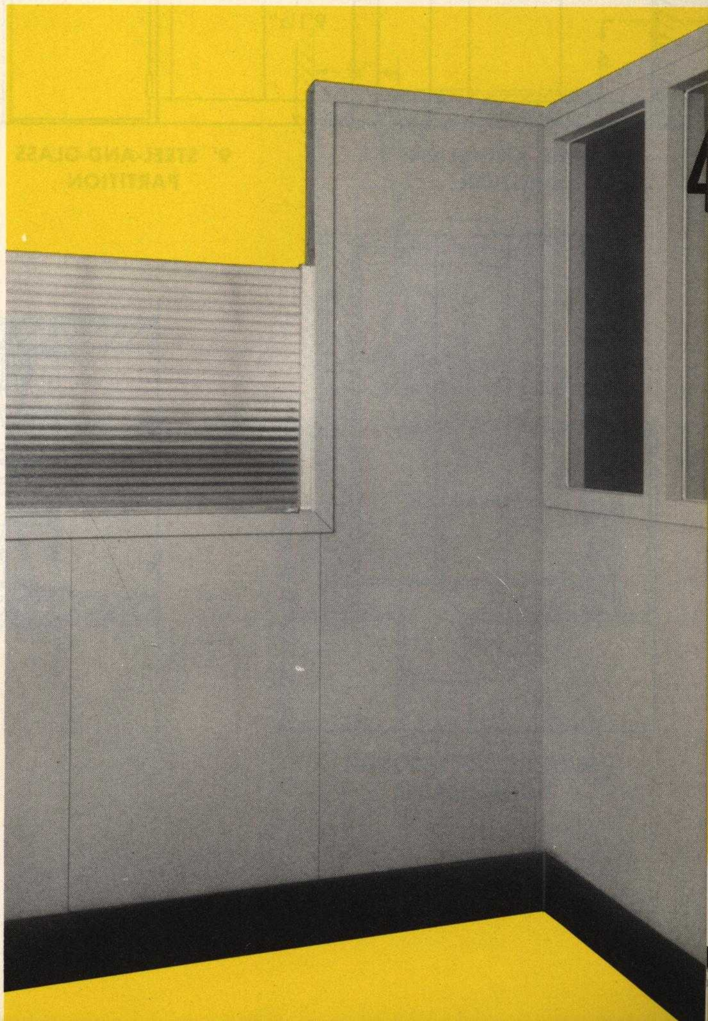
2

The next step is the installation of bridging. These members are installed by inserting their ends into the stud openings and then rotating so that their grooves engage the sides of the opening. Bridging is furnished in two lengths, for stud spacings of 24" and 48". (The longer length is used over doors and windows.) They provide the necessary stability for the partition, and they also assure accurate spacing for the studs, which is necessary for the application of the panels. The inside corner panel, which is shown in place, provides an unbroken interior corner.



3

In this photograph, an enameled-steel panel is about to be snapped into the groove in the Permalock stud. The bottom edge of the panel rests on the stud adjuster; the top panel edge will be covered later by the cornice. In addition to supporting the panel, the stud adjuster acts as a leveling bracket for the stud, to assure horizontal partition lines regardless of irregularities in the floor. The base is also attached to the stud adjusters.

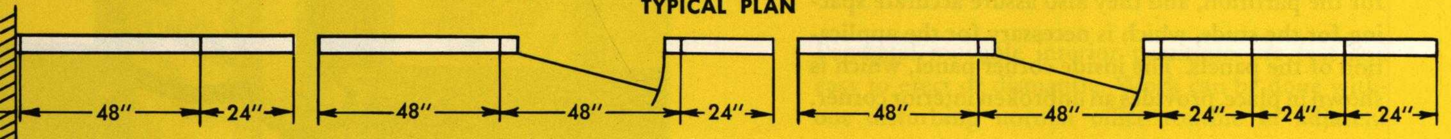


4

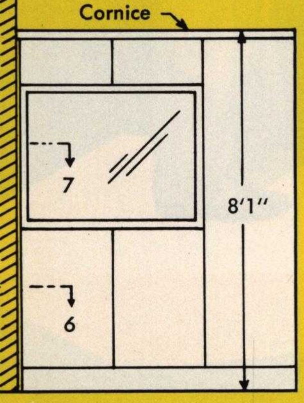
The finished partition, with base, cornice, and window framing attached, gives an impression of permanence and, yet, it is as easy to take down as it was to put up. Note that the joints between panels are hardly noticeable. This simple partition points up the versatility of Penmetal interiors. The section at the right is a steel-and-glass, 7'0" cornice-high partition. At the left, is a standard glazed railing. All parts, excluding the glass, are furnished by Penn Metal Company, Inc. This assures uniform quality throughout, as well as certainty that all parts will fit together for rapid, trouble-free erection.

ELEVATIONS AND SECTIONS

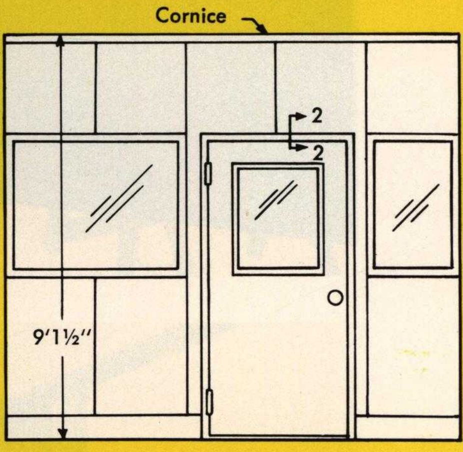
TYPICAL PLAN


48″
24″
48″
48″
24″
48″
48″
24″
24″
24″

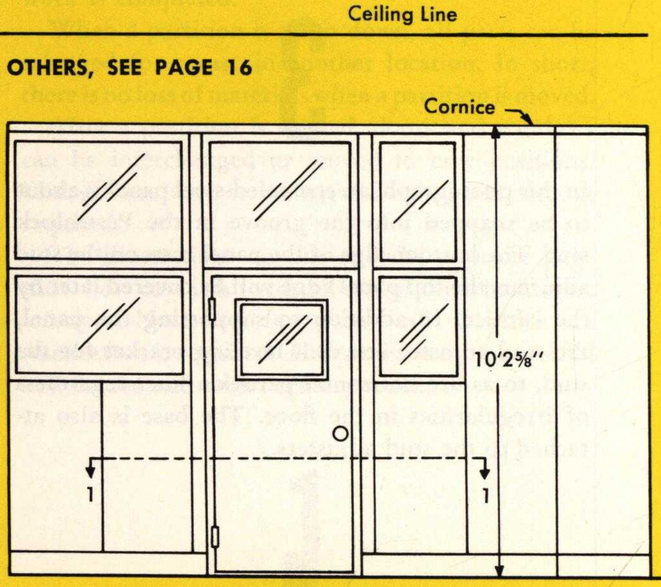
A FEW STANDARD PARTITIONS—FOR OTHERS, SEE PAGE 16


Cornice
7
8′1″
6

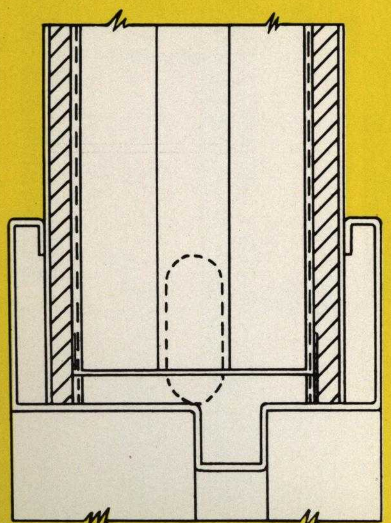
8′ STEEL-AND-GLASS PARTITION


Cornice
2
2
9′1½″

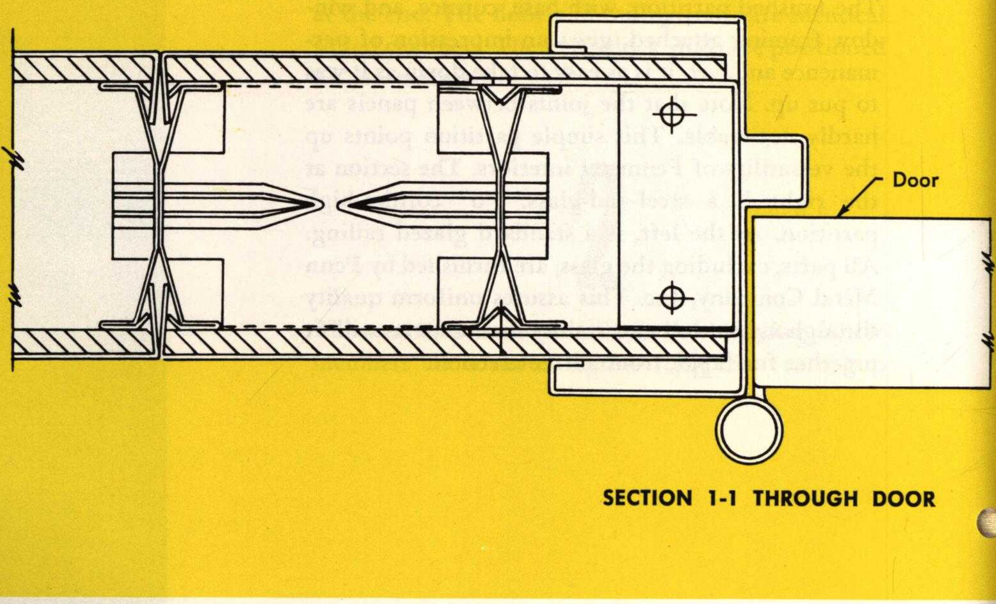
9′ STEEL-AND-GLASS PARTITION


Ceiling Line
Cornice
10′2⅝″
1
1

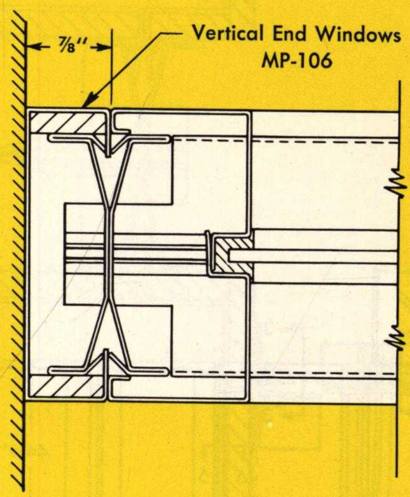
10′ TWO-TIER GLASS PARTITION



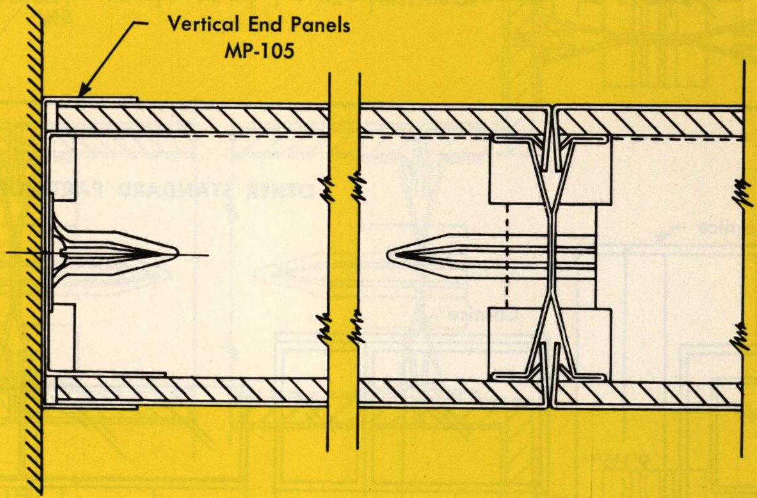
SECTION 2-2 THROUGH DOOR HEADER



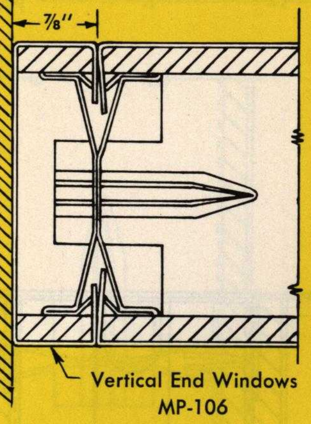
SECTION 1-1 THROUGH DOOR


7/8"
Vertical End Windows
MP-106

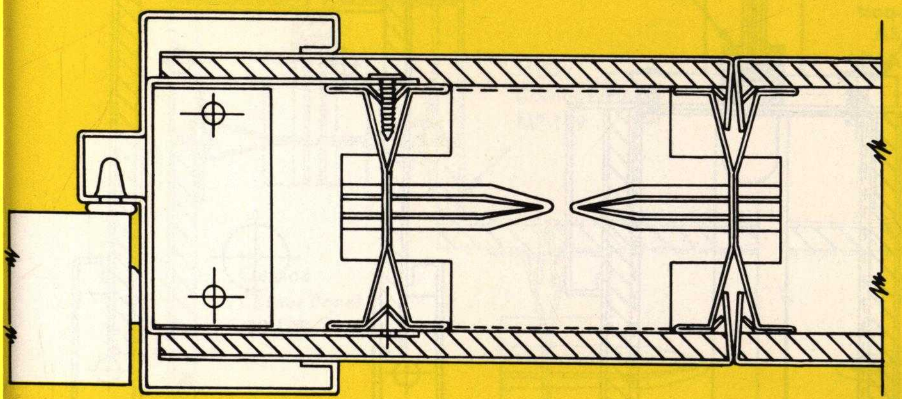
SECTION 7-7


Vertical End Panels
MP-105

VARIABLE-WIDTH PANEL ASSEMBLY

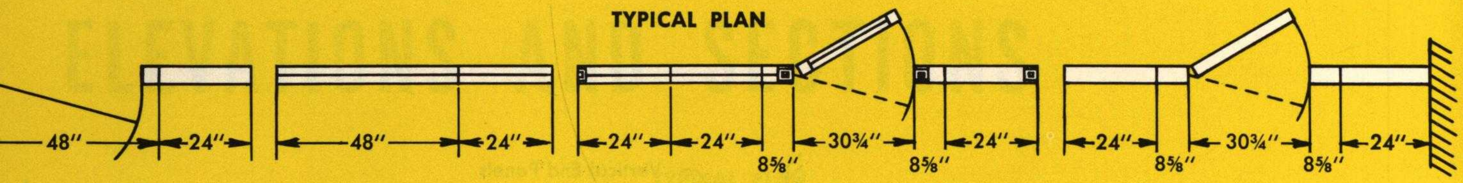

7/8"
Vertical End Windows
MP-106

SECTION 6-6

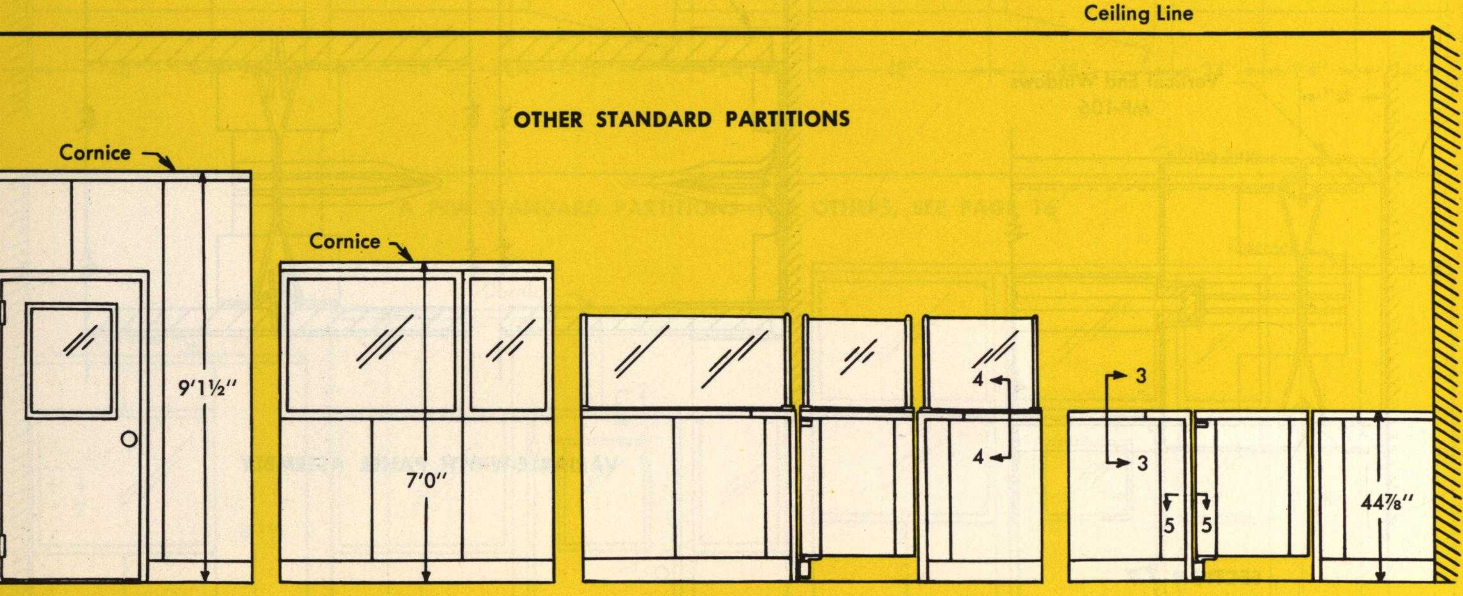


FRAME AND ADJACENT PANELS

TYPICAL PLAN


48″
24″
48″
24″
24″
24″
8⅝″
30¾″
8⅝″
24″
24″
8⅝″
30¾″
8⅝″
24″

OTHER STANDARD PARTITIONS

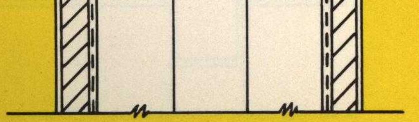

Ceiling Line
Cornice
9′1½″
Cornice
7′0″
4
4
3
3
5
5
44⅞″

STEEL PARTITION

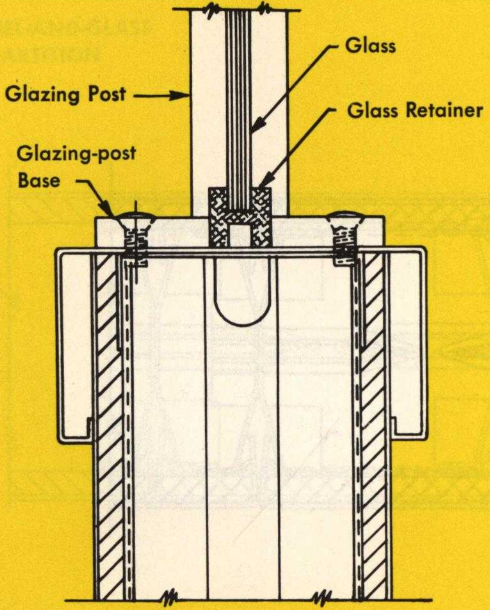
7′ STEEL-AND-GLASS PARTITION

GLAZED RAILING WITH GLAZED GATE

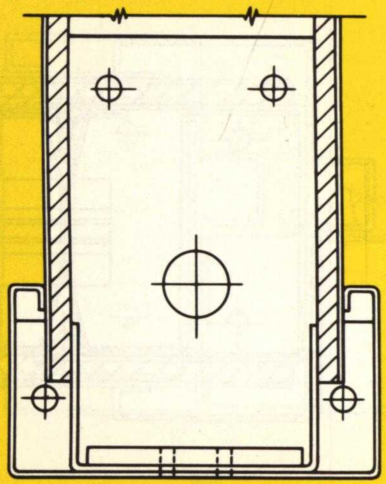
RAILING WITH GATE



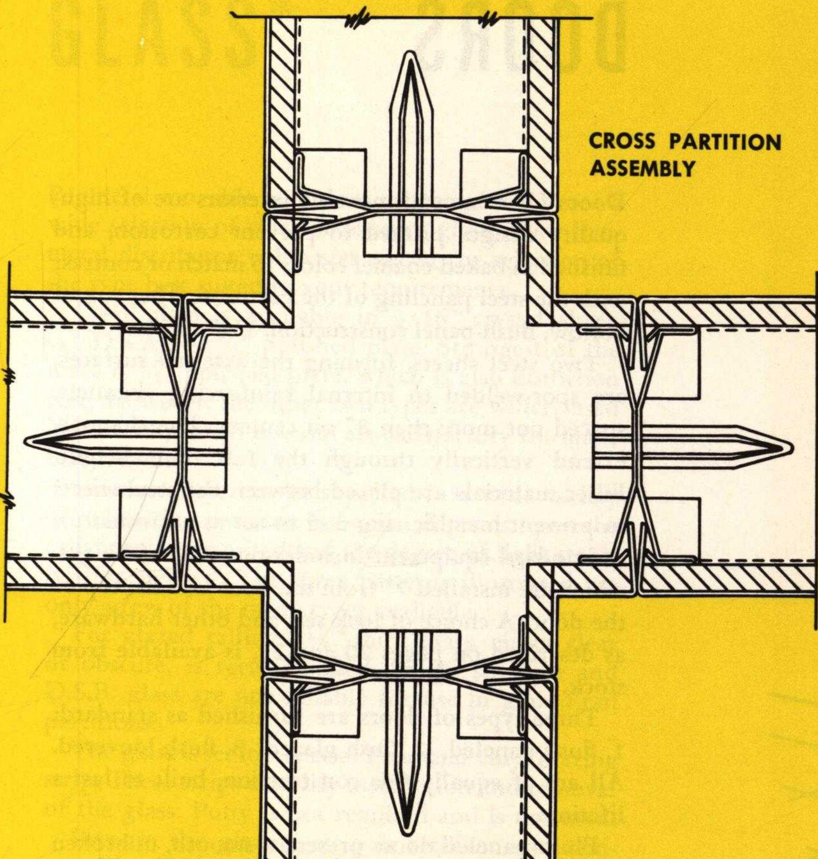
SECTION 3-3
THROUGH RAILING


Glass
Glazing Post
Glass Retainer
Glazing-post
Base

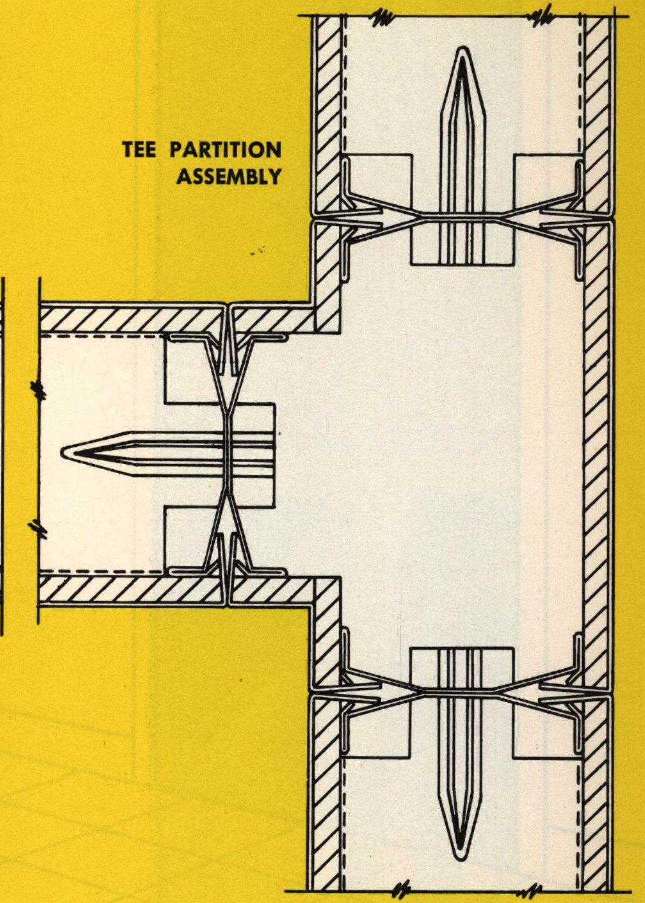
SECTION 4-4
THROUGH GLAZED RAILING



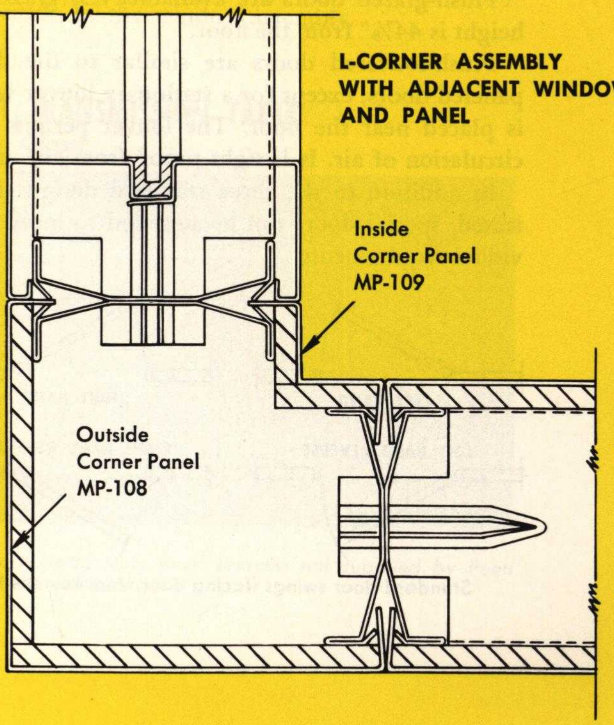
SECTION 5-5
THROUGH GATE-POST FACING



CROSS PARTITION ASSEMBLY

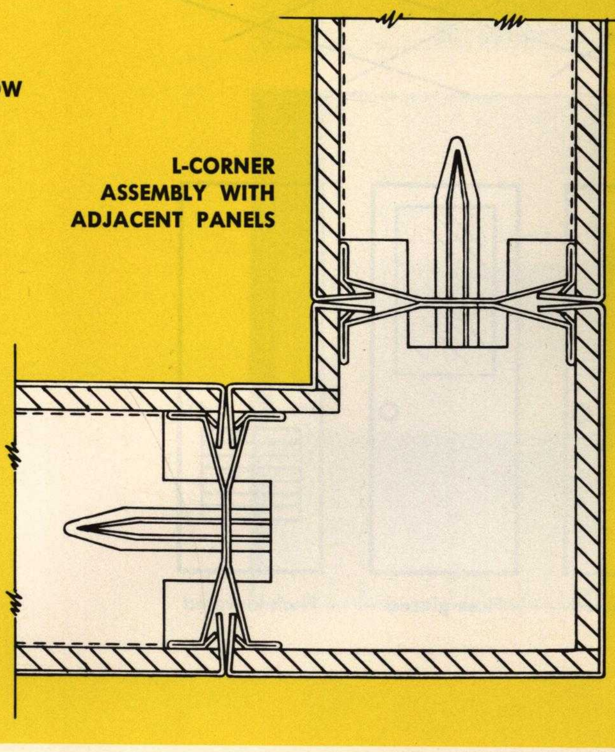


TEE PARTITION ASSEMBLY

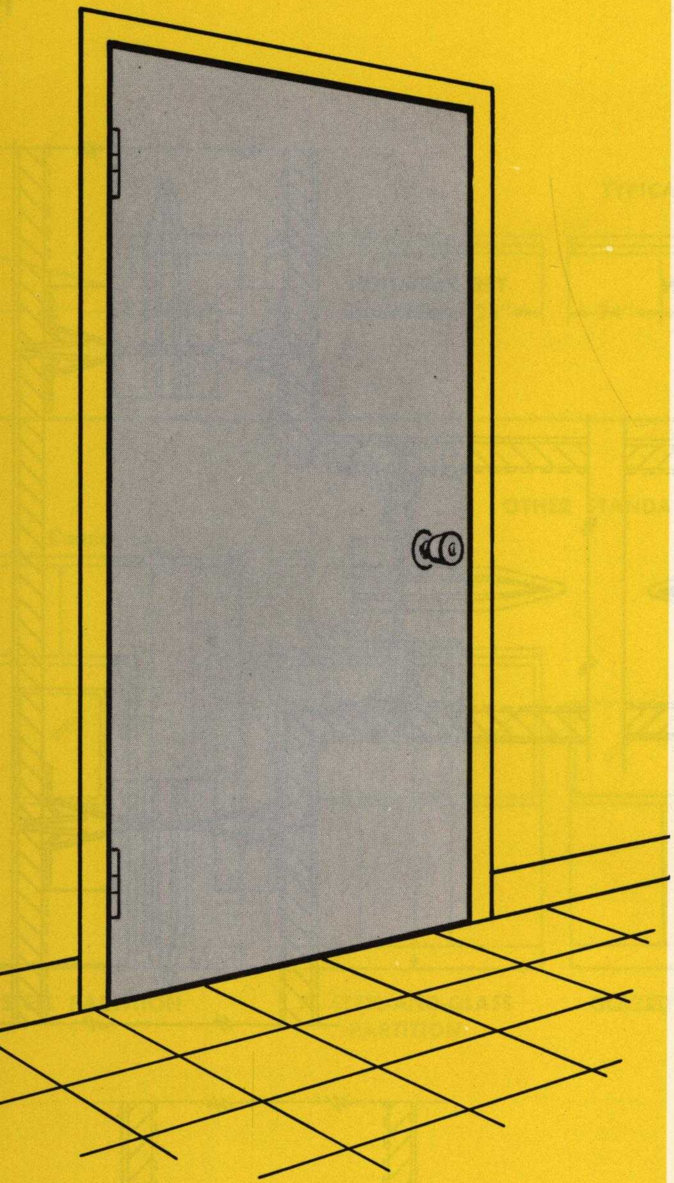


L-CORNER ASSEMBLY WITH ADJACENT WINDOW AND PANEL

Inside
Corner Panel
MP-109
Outside
Corner Panel
MP-108



L-CORNER ASSEMBLY WITH ADJACENT PANELS



DOORS

Doors for Penmetal movable interiors are of high-quality design, primed to prevent corrosion, and finished in baked-enamel colors to match or contrast with the steel paneling of the partition. They are of hollow, flush-panel construction, 1¾" thick.

Two steel sheets, forming the external surfaces, are spot-welded to internal reinforcing channels, spaced not more than 8" on centers. The channels extend vertically through the full door height. Filler materials are placed between the steel sheets to prevent metallic ring and to act as an insulator.

Standard equipment includes one pair of hinges, which are installed 7" from the floor and the top of the door. A choice of lock sets and other hardware, as described on pages 20 and 21, is available from stock.

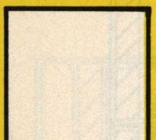
Three types of doors are furnished as standard: 1. flush paneled, 2. flush glazed, 3. flush louvered. All are of equally fine construction, built to last a lifetime.

Flush-paneled doors present a smooth, unbroken surface on both sides. There are no joints, projections or indentations of any kind.

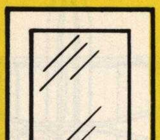
Flush-glazed doors are available, less glass. Sill height is 44⅞" from the floor.

Flush-louvered doors are similar to the flush-paneled doors, except for a stationary louver which is placed near the floor. The louver permits free circulation of air. It is sight proof from any angle.

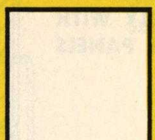
In addition to the three standard designs illustrated, special doors can be supplied to meet individual requirements.



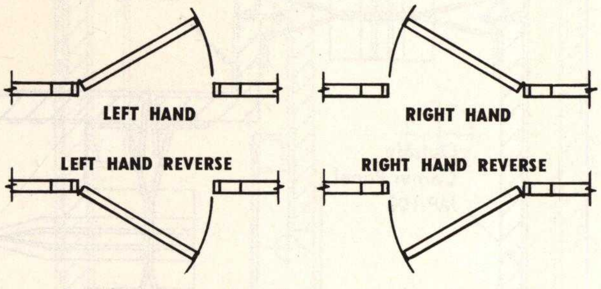
Flush paneled



Flush glazed



Flush louvered



Standard door swings (facing door from key side).

GLASS*

Penmetal movable partitions can be glazed from a wide selection of clear or obscure glass. Your Penmetal distributor will assist you in the selection of the type best suited to your requirements.

Clear glass is available in 3/16" crystal sheet, ⅛" D.S.A., or ¼" polished plate. Strongest of the three is ¼" polished plate, which is also distortion free. However, the other two types are widely used in movable partitions, and are satisfactory for many installations.

Obscure glass can be supplied in a wide variety of interesting patterns. Selection depends upon the artistic effect required and the degree of light transmission needed. The three patterns illustrated are only a few of the many types available.

For glazed railings, ¼" thick glass, either clear or obscure, is recommended. Single strength and D.S.B. glass are not suitable for use in glazed-rail partitions.

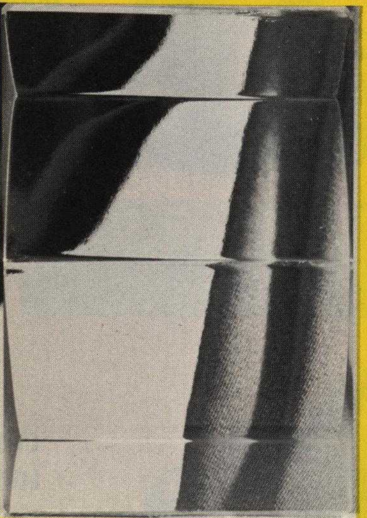
The glass is set in a special Penmetal vinyl glazing strip. These strips simplify installation and removal of the glass. Putty is not required and is not used.

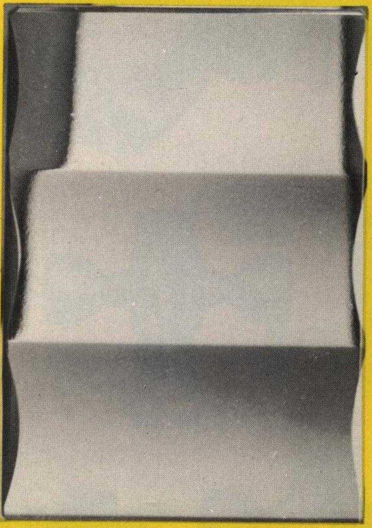
Because the glazing strip is resilient and nonmetallic, it eliminates rattling of the glass and greatly reduces the possibility of breakage due to excessive jarring. The glazing strip is held securely in position by the window assembly.

LIGHT TRANSMISSION TABLE
(Clean Glass)

Type	Thickness	Approximate Transmission Value
Polished plate	¼"	88%
39 oz. crystal	3/16"	89%
D.S.A.	⅛"	90%
Obscure—usual patterns	7/32"	74% to 86%

To be secured from local sources; not supplied by Penn Metal Company, Inc.



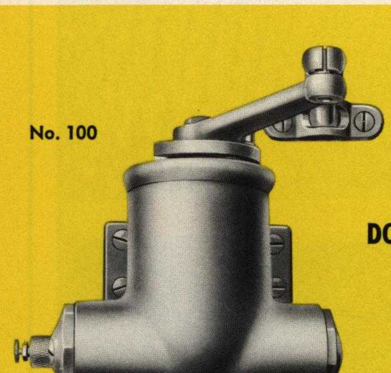


No. 616

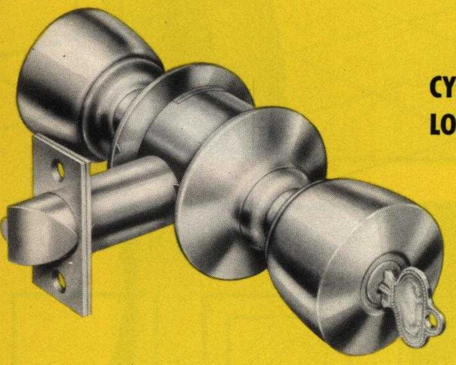
No. 626

DOOR PUSH AND PULL PLATES

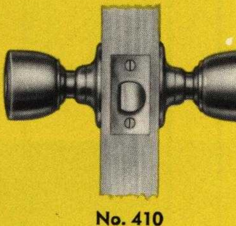
No. 100



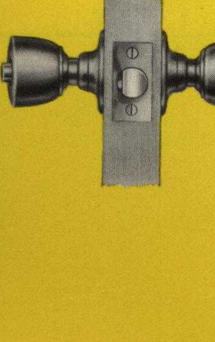
DOOR CLOSERS



CYLINDRICAL LOCK SETS



No. 410



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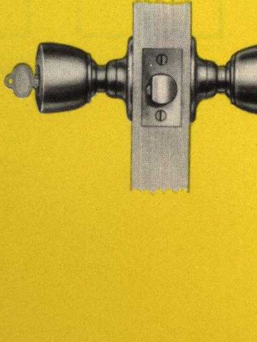


No. 446½

HARDWARE

Standard hardware, furnished with Penmetal movable partitions, is the heavy-duty type, designed for lasting service. With the exception of the door hinges, all items are either wrought or extruded bronze with a lustrous, satin finish. Hinges are polished and plated steel.

All items listed on this and the opposite page are carried in stock for immediate delivery. Nonstocked, special-order hardware can be supplied, but will cause a delay in delivery. When required, such items should be ordered well in advance.

DOOR PUSH AND PULL PLATES

These plates are furnished for installation on swinging doors to assure easy traffic flow. Both plates are 14" x 3½" in size. The grip on No. 626 measures 5¼" from center to center, and projects 2⅜".

DOOR CLOSERS

The No. 100 door closer is a rugged, dependable device designed to close doors surely and quietly. Opens to 100 degrees. It is reversible for right- or left-hand doors, without any rearrangement of parts.

CYLINDRICAL LOCK SETS

Three standard styles of cylindrical lock sets are available for corridor, closet, communicating and inner-office doors. These lock sets are interchangeable; all meet U.S. Government Specifications Type 161.

No. 410, *for passage and closet doors.* Latch bolt by knob either side. Each knob always free.

No. 422, *for communicating or inner offices.* Latch bolt by knob either side. Push button locks outside knob; inside knob always free. Turning inside knob or closing door releases push button.

No. 446½, *for corridor doors.* Latch bolt by knob either side. Inside knob always free; outside knob locked by key in inside knob. Key in outside knob retracts latch bolt when outside knob is locked.

MORTISE LOCK SETS

These lock sets are supplied in three different styles, with either plain or antifriction latch bolts. (The letter "A" before the number designates antifriction type.) They are available with an adjustable bevel from flat to standard ⅛″.

No. 2038 and A2038, *for inner office doors.* Latch bolt by knob either side except when outside knob is locked by stop in front; by key outside at all times.

No. 2056 and A2056, *for corridor offices.* Latch bolt by knob either side except when outside knob is locked by stop in front; by key outside at all times. Auxiliary latch deadlocks latch bolt and stop, preventing manipulation when door is closed.

No. 2059 and A2059, *for corridor closet doors.* Latch bolt knob inside and by key outside. Outside knob rigid at all times. Auxiliary latch deadlocks latch bolt, preventing manipulation when door is closed.

KICK PLATES

Stocked for doors that are subject to heavy traffic, these plates may be attached to one or both sides. They are available in 16-gage brushed aluminum or brushed brass or in Formica in various colors, for 2′6″ or 3′0″ doors. Height is 6″.

BALL-BEARING HINGES

Hinges have button tip and plug. They are furnished with two ball bearings for noiseless, antifriction operation. Available in size 4½″ x 4½″.

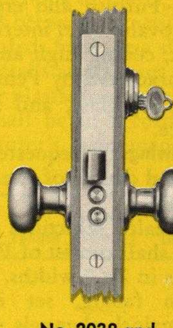
AUTOMATIC DOOR HOLDERS

No. 220 door holders are for application to either wall or base. Spring tension is adjustable to suit different widths and weights of doors so that proper holding tension can be obtained without placing undue strain on the door.

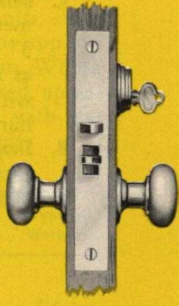
DOOR STOPS

Two styles of door stops are available. No. 165 has a base 2¼″ in diameter, and projects 3⅝″. The diameter of the No. 209 is 1⅞″, and it projects 1⅜″.

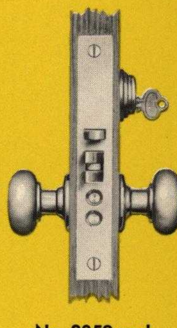
MORTISE LOCK SETS



No. 2038 and
No. A2038

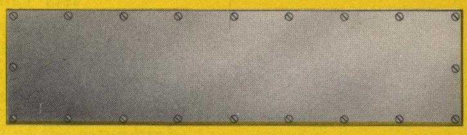


No. 2056 and
No. A2056

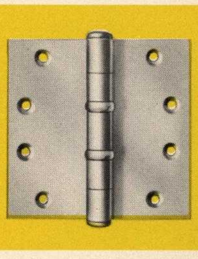


No. 2059 and
No. A2059

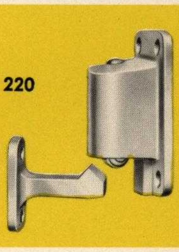
KICK PLATES



BALL-BEARING HINGES



AUTOMATIC DOOR HOLDERS



No. 220

DOOR STOPS

No. 165

No. 209

SPECIFICATIONS

Penmetal Movable Interiors with Steel Panels

I CEILING-HIGH AND/OR CORNICE-HIGH PARTITIONS

A. General — Furnish and erect complete, Penmetal movable steel interiors, flush type, full 3" thick, ceiling high and/or cornice high, as manufactured by Penn Metal Company, with doors, glass, and approved standard hardware.

B. Shop drawings, if requested, shall show plan layout and details of construction.

C. Materials

1. Concealed structural and framing members shall consist of Penmetal Permalock studs in 2½" widths, with 1-3/16" minimum facing, set in standard-length Permalock channels at floor and ceiling or cornice rail (if cornice-high installation), and braced with Penmetal bridging members. Studs shall be designed to receive attaching units of the panels. They shall also be punched for the passage of concealed wiring, so that electrical outlets can be placed at random on the surface of the partition.
2. Steel-panel units shall consist of 20-gage finished-leveled sheet steel with ¼" sound-deadening insulation board bonded to the panel sheet.

D. Construction

1. Partitions shall be so designed and constructed as to be readily erected and quickly demounted, wholly or partially, and relocated without damage to partition or adjacent walls. Parts shall be arranged so that 2-, 3-, or 4-way extensions may be joined thereto, and panels may be removed without disturbing the rest of the partition.
2. Floor and ceiling channels shall be anchored in place. Studs shall be set 24" on centers in floor and ceiling channels or cornice rail, and Penmetal steel bridging shall be inserted between the studs at the following heights:

Height of Partition	Number and Spacing of Bridging Members
7 ft. or 8 ft.	3 (at third points)
9 ft. or 10 ft.	4 (at quarter points)

Note: 2 pieces of bridging are recommended behind short panels under windows and railings.

Steel panels shall then be snapped into the studs, and trim shall be applied in accordance with standard methods of erection. All connections to floors, walls and ceilings, and between structural units, shall be concealed. Steel base shall be applied by Penmetal's attachment system.

II STANDARD RAILING-HIGH PARTITIONS

Standard railings, where shown on the drawings, shall be movable, full-flush, 44⅞" high, with neat flush-cap molding. They shall be securely anchored to the floor, and shall be constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Where specified, they shall match partitions in color or finish.

III GLAZED-RAIL PARTITIONS

Where shown on the drawings, glazed-rail partitions shall be movable, full flush; securely anchored to the floor; and constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Steel panels shall be 44⅞" high, with 24"-high aluminum clear anodized glazing posts above to receive ¼" glass, as specified.

IV GATES

Gates, where called for on the drawings, shall be double acting, equipped with all necessary hardware.

V TREATMENT OF MATERIALS (RUST RESISTANCE)

All members shall be protected against rust by the Parkerizing method, or shall be galvanized. Structural-steel members, when required for reinforcement, shall be 40,000-psi, Penmetal structural-grade steel (ASTM Specification — Designation A-245), painted with an oven-dried coat of rust-resisting, red-oxide. Exposed surface panels and accessory units shall be finished in prescribed colors of baked enamel over a Parkerized surface, as required.

VI FINISHED SURFACES OTHER THAN STEEL PANELS

General specifications, as heretofore stated, also apply to framing and erection of finished surfaces other than steel panels, where applicable.

A. Unfinished wallboards shall be applied vertically in 24"-width increments, and shall be held in place by Kwik-Klip batten strip No. MP-120G. Where wallboard in standard 4' widths is used, application and finish, including tape and cement, shall be in accordance with the wallboard manufacturer's standard specifications. In lieu of regular nails, the nails and/or screws used shall be in accordance with the table in section I, paragraph D-2, on page 23.

B. Wood-grained wallboards and veneered plywoods shall be applied vertically in 24"-width increments, and shall be attached to the studs by Penmetal aluminum batten strip No. MP-145 or Penmetal angle backing attachment No. MP-144G.

VII WORKMANSHIP

The finished partition shall be plumb, neat in appearance, free from defects, and with horizontal lines leveled. Hardware shall be adjusted and left in proper working condition.

SPECIFICATIONS Penmetal Demountable Wallboard or Wood-panel Partitions

I CEILING-HIGH AND/OR CORNICE-HIGH PARTITIONS

A. **General** — Furnish and erect complete, Penmetal wallboard or wood-panel interior system with doors, glass, and approved standard hardware.

B. **Shop drawings,** if requested, shall show plan layout and details of construction.

C. **Materials**

1. Concealed structural and framing members shall consist of Penmetal Permalock studs in 2½" or 3⅝" widths as specified with 1-3/16" minimum facing, set in standard-length Permalock channels at floor and ceiling or cornice rail (if cornice-high installation), and braced with Penmetal bridging members. Studs shall be designed to receive attaching units for wallboard or wood panels, as required by the type of collateral material. They shall also be punched for the passage of concealed wiring, so that electrical outlets can be placed at random on the surface of the partition.

D. **Construction**

1. Partitions shall be so designed as to be readily erected and quickly demounted, wholly or partially, and relocated without damage to partition or adjacent walls.

2. Floor and ceiling channels shall be anchored in place. Studs shall be set 24" on centers in floor and ceiling channels or cornice rail, and Penmetal steel bridging shall be inserted between the studs as follows, for either 2½" or 3⅝" studs:

Height of Partition	Bridging
8 ft. to 10 ft.	1 row at center
10 ft. to 16 ft.	2 rows

Wallboard or wood panels shall be applied vertically in 24"-width increments, and shall be held in place by Penmetal batten strip No. MP-120G or MP-145, or by Penmetal angle panel attachment No. MP-144G, in accordance with Penmetal standard methods of erection. Where wallboard in standard 4' widths is used, application and finish, including tape and cement, shall be in accordance with the wallboard manufacturer's standard specifications. In lieu of regular nails, the nails and/or screws used shall be as specified below.

All connections to floors, walls and ceilings, and between structural units, shall be concealed. Steel base shall be applied by Penmetal's attachment system. Where rubber or plastic base is to be used, application shall be in accordance with the manufacturer's recommendations.

	Screws*		Nails‡	
Panel Thickness	Length	Type of Washer†	Length	Type of Washer†
⅛"	⅞"	No. 2	—	—
⅜"	1"	No. 2	1"	No. 1
½"	1⅛"	No. 2	1⅛"	No. 1
⅝"	1¼"	No. 2	1¼"	No. 1

* Screws shall be flat-head, galvanized, S/M screws.
‡ Nails shall be Stronghold, 11-gage, flat-head, ratchet-type, coated.
† Washers shall be galvanized (for use with wallboard) and supplied through Penn Metal Company.

II STANDARD RAILING-HIGH PARTITIONS

Standard railings, where shown on the drawings, shall be movable, 44⅞" high, with neat flush-cap molding. They shall be securely anchored to the floor, and shall be constructed of the same high-quality materials, and to the same standards of workmanship, as the partition.

III GLAZED-RAIL PARTITIONS

Where shown on the drawings, glazed-rail partitions shall be movable; securely anchored to the floor; and constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Panels shall be 44⅞" high, with 24"-high glazing posts above to receive ¼" glass, as specified.

IV GATES

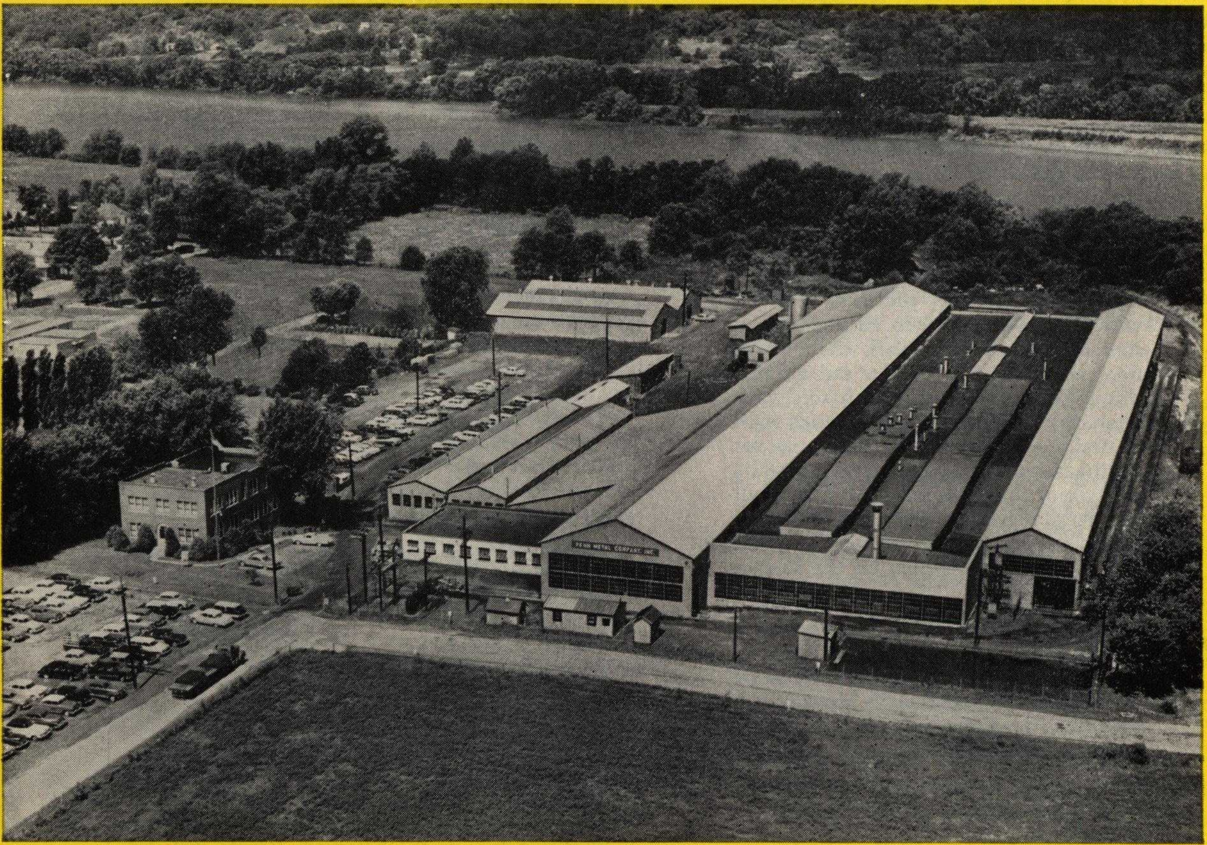
Gates, where called for on the drawings, shall be double acting, equipped with all necessary hardware.

V TREATMENT OF MATERIALS (RUST RESISTANCE)

All members shall be protected against rust by the Parkerizing method, or shall be galvanized or painted. Structural-steel members, when required for reinforcement, shall be 40,000-psi, Penmetal structural-grade steel (ASTM Specification — Designation A-245), painted with an oven-dried coat of rust-resisting, red-oxide.

VI WORKMANSHIP

The finished partition shall be plumb, neat in appearance, free from defects, and with horizontal lines leveled. Hardware shall be adjusted and left in proper working condition.



METAL MARK
Penmetal
1869
OF QUALITY

a name to remember

PENN METAL COMPANY

INCORPORATED

Sales Office for Movable Partitions: Parkersburg, W. Va., AXminster 5-4521
General Sales Office: 40 Central Street, Boston 9, Mass., LAfayette 3-6344
Plant: Parkersburg, W. Va.
Distributors in Principal Cities

Printed in U.S.A.

MP-5
10-59-25M

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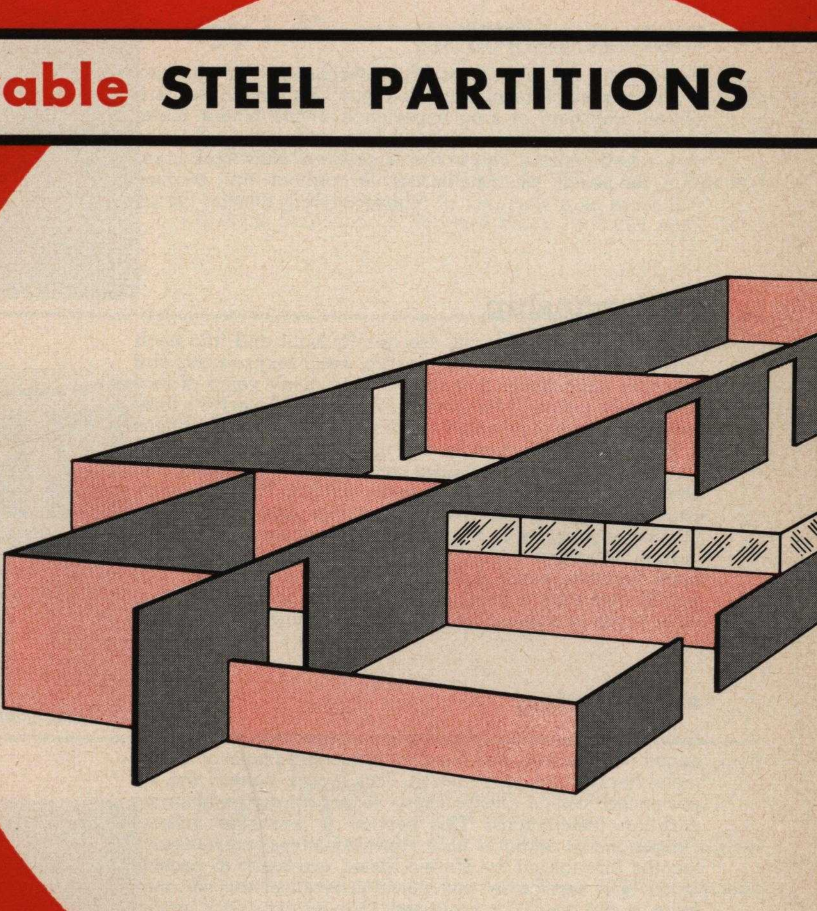
A.I.A. 35-H-6

STEEL PARTITIONS
+ JAMESTOWN, NEW YORK +

movable STEEL PARTITIONS



CATALOG No. 60

modern movable Steel partitions for all purposes

service

Steel Partitions' long experience in fabricating and installing movable steel partitions has developed an organization of sales and field representatives, engineers, production men, erectors and management personnel well grounded in the basic requirements and fundamentals essential to handle any metal partition installation whether it be large or small.

responsibility

Steel Partitions welcomes the responsibility of handling the complete job—from the initial planning layouts, complete fabrication through final installation, ready for occupancy. Our specially trained erection crews travel the entire country installing original work as well as rearranging old layouts and can always be relied upon to give 100% cooperation to other related trades and sub-contractors.

highest quality

Nothing but the highest quality materials are incorporated in the manufacture of our products. Our employees are skilled craftsmen of long experience in the hollow metal industry. The hollow metal industry came into existence over a half century ago in the Jamestown, New York area. Our thousands of installations throughout the country will serve as a warranty of highest quality (Partial list on Page 19.)

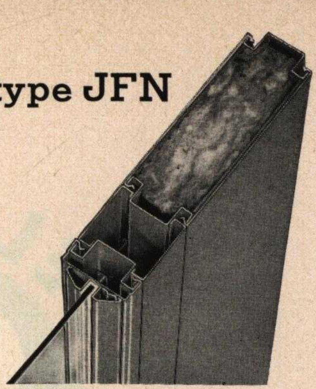
workmanship

Steel Partition panel units are quality built and into each unit goes the skilled craftsmanship, keen engineering and practical experience that results from many years of sectional steel partition fabrication. As one of America's foremost producers of movable metal partitions, Steel Partitions is well qualified to handle any movable steel partition installation you may have under consideration. Highly skilled and experienced metal craftsmen, working in a modernly equipped plant, with quality materials and under rigid controls is your assurance of advanced construction details, lasting structural stamina, rigidity and enduring finish. Steel Partition panel units have that built-in custom like quality that only a product made by an organization that takes pride in doing a good job can produce.

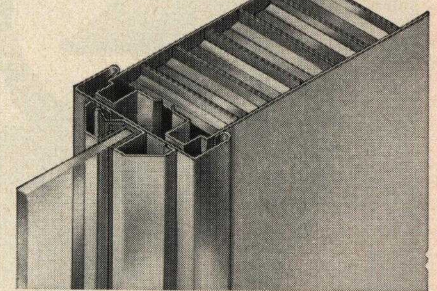
engineering

Steel Partitions, Inc., maintains a competent and experienced engineering staff familiar with every phase of hollow metal design and construction. This highly trained and experienced staff is always ready to assist you in planning partition installations. This service is available without obligation. In addition field representatives, conveniently located throughout the United States, are ready to provide on-the-spot service for any partition requirement you may have on the boards or projected. Our service is not limited to standard items. We welcome your special requirements that may be incorporated in a typical installation.

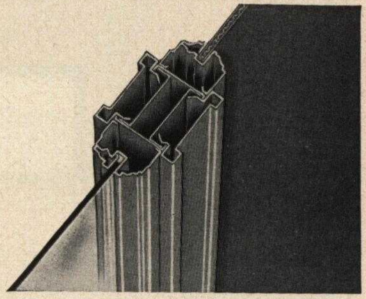
flush wall • type JFN



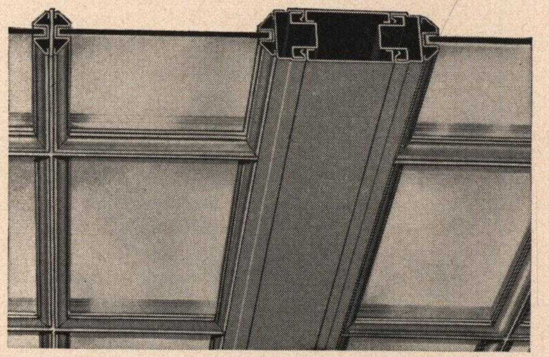
flush wall • type JL



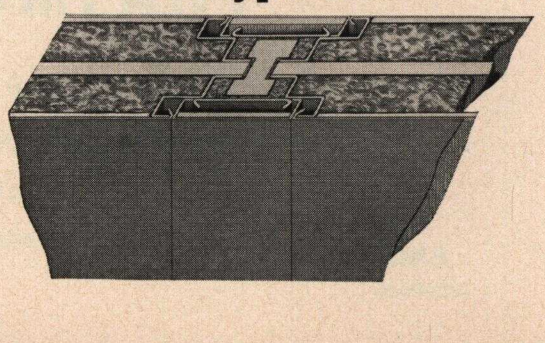
paneled wall • type E

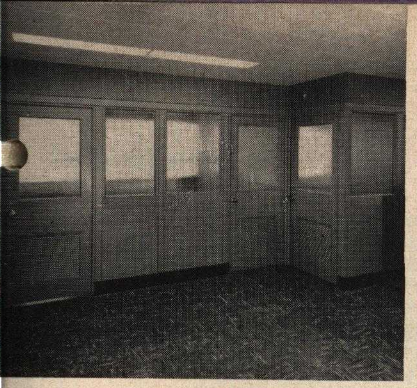


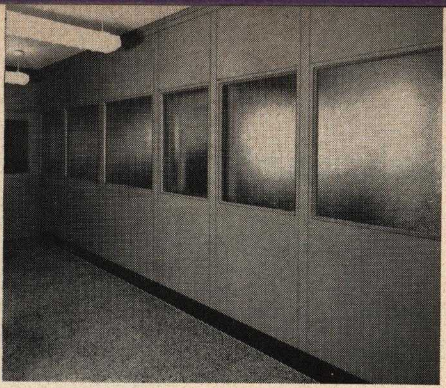
smoke screen • type SC



fire rated • type JFF





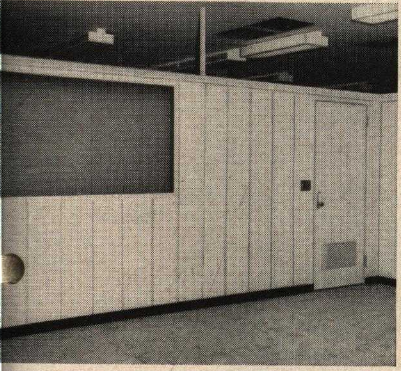


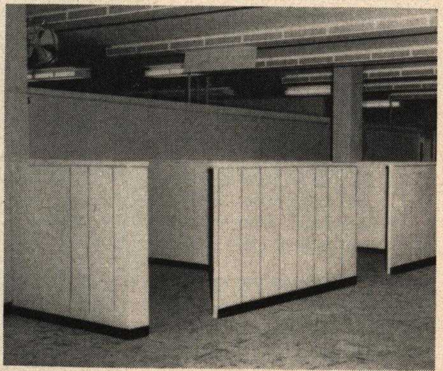
page 4

type JFN

flush wall sound retarding partitions and wainscot

1. Modern Design Harmonizing With Finest Architectural Treatments.
2. Full Flush Panel Construction. Easy To Clean.
3. Efficient and Exclusive Sound Retarding Insulation.
4. Patented Stretcher Channel Construction Assures Lasting Rigidity.
5. Fully Interchangeable Units. Easily Assembled or Rearranged.
6. Completely Rustproofed.
7. Provision for Wiring in Base, Cornice and Vertical Post Assembly.



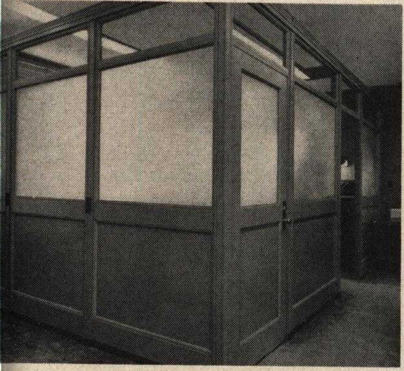


page 10

type JL

flush economy partition

1. Readily adaptable to office areas as well as factory installations.
2. Economy without sacrificing the features of more expensive movable partitions.
3. The ultimate in simplicity—only four basic parts required.
4. Special height partition at standard partition prices. Eliminates costly top fillers.
5. All steel partition easily converted to glass and steel. Fully flexible to changes in the field.
6. Easily and quickly installed by untrained workers.
7. Mass produced on modern equipment results in fast deliveries.
8. Readily accessible lay-in wiring in base and cornice —space also available vertically between panels.
9. Easily stored or warehoused.

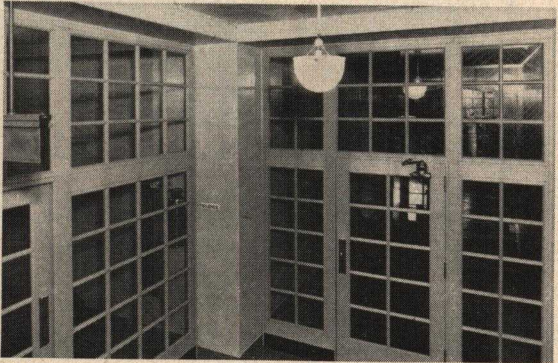


page 14

type E

mono-unit paneled partitions

1. Attractive Paneled Design.
2. Mono-Unit Panel Construction. 100% Salvageable When Rearranged.
3. Quick, Easy and Economical to Assemble.
4. Extremely Rigid Full Welded Construction.
5. Provision for Wiring in Cornice, Chair Rail, Base and Vertical Members.
6. Wide Selection of Standard Stock Units.

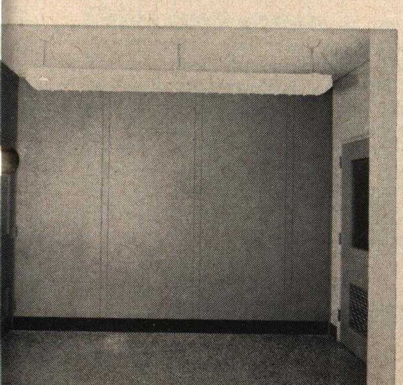


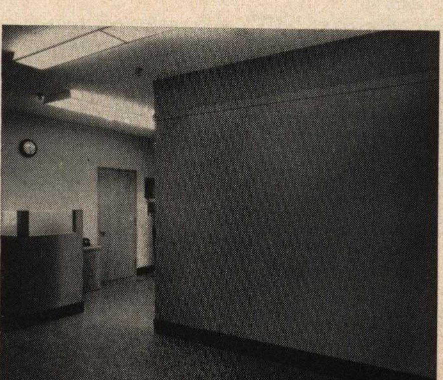
page 16

type SC

corridor and stair well. smoke screens

1. Available in Type "JFN" Construction.
2. Custom Built To Meet Building Conditions.
3. Localizes Smoke Hazards.
4. Facilitates Orderly Evacuation.
5. Saves Lives.
6. Can Be Dismantled and Relocated.





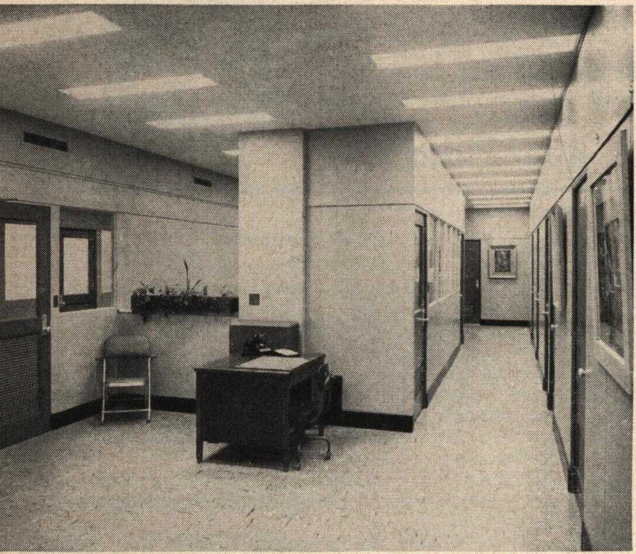
page 17

type JFF

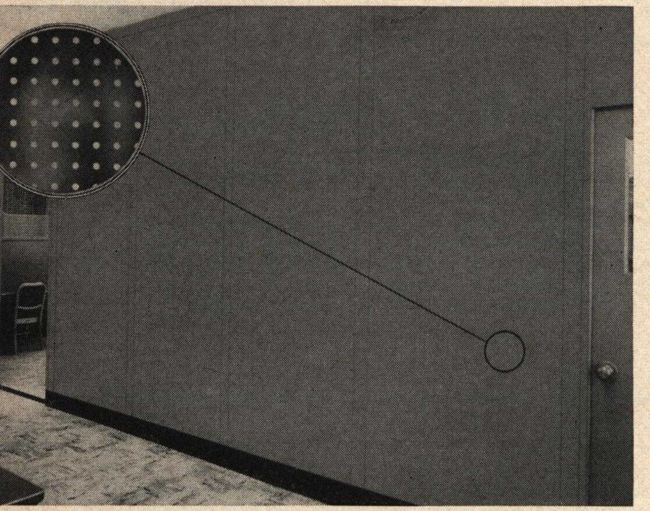
fire rated movable metal partitions

1. Meets ASTM ONE-HOUR Fire Test Specifications E 119-55.
2. Can Be Used in Adjoining with Type "JFN"—Matching Exterior Appearance.
3. Added Protection for Personnel and Valuable Equipment.
4. Provides Flexibility for Future Needs and Without Dust and Debris.
5. Saves Space.
6. Answers Need For One-Hour Fire Partition in Corridors, Public Buildings, Equipment Rooms and Laboratories.

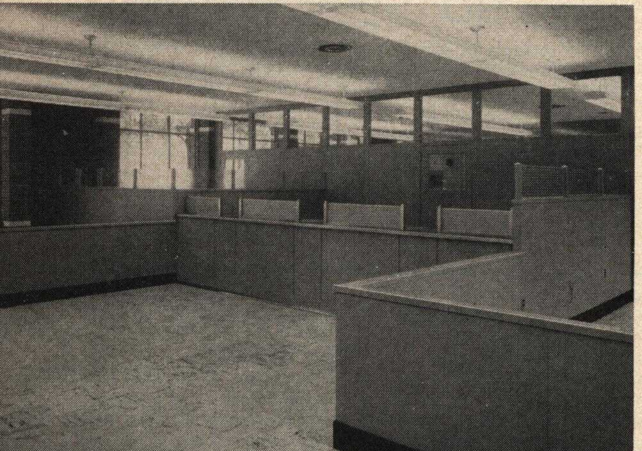
type JFN—a modern flush partition



Onodoga County Office Building, Syracuse, New York. Flush 7′-2¾″ all steel and glass and steel partition 42½″ chair rail with double mineral board top filler. Low rail 42½″ high.



Flush all steel to 9′-0″ ceiling perforated acoustic wall.



Flush low railing 42½″ high and bank railing 54″ plus 12″ glass. Flush glass and steel partitions. Pennsylvania Gas Co., Jamestown, N. Y.

Type "JFN" full flush panel units introduce an advanced conception of movable steel partition and wainscot especially adapted for executive offices. It is definitely functional in design, presenting, when assembled, a modern, flush wall, unbroken by unnecessary lines and free from deep ridges or grooves to collect dust. TYPE "JFN" partition is pleasing to the eye, reflecting the quiet, restful efficiency so desirable in modern office interiors. The standard types and sizes of "JFN" panels are shown on Page 6. (Partitions are regularly designated as all-steel, steel-glass, steel-glass-glass, and steel-glass-steel, depending on the combination of units).

TYPE "JFN" matching wainscot for inside exterior and masonry walls harmonize with the movable steel partition to give a pleasing, modern complete interior. (See Page 7 for typical details).

TYPE "JFN" partition is modern in construction, offering many advanced and exclusive structural features that enhance its practical usefulness, enduring rigidity, flexibility and ease of erection and rearrangement. Some of these advantages are listed below and additional construction details will be found on Pages 6 through 8.

1 **EFFECTIVE SOUND INSULATED**
An exclusive "JFN" innovation provides a sound retarding factor in a standard 3-inch panel, greater than that accomplished by a 5½-inch commercial tile and plaster wall.

2 **EXCLUSIVE STRETCHER CHANNEL CONSTRUCTION**
A patented horizontal Stretcher Channel reinforcement member assures rigid, taut and ripple-free exterior surfaces regardless of how many times the partition is moved or re-arranged.

3 **COMPLETELY RUSTPROOFED**
"JFN" panels, cornices, bases, posts and reinforcement members are completely rustproofed inside and out by painting or plating.

4 **FULL FLOATING BASE**
Floating base construction assures flush floor contact where uneven floor conditions exist.

5 **CONTINUOUS WIRE RACEWAY**
A continuous divided wire raceway in cornice and base provide easy accessibility for both low and high voltage wires. Post construction allows for lay-in wiring in base.

6 **FLEXIBILITY**
2, 3 or 4-way post conditions can easily be formed from the basic one-way post assembly. Angular posts are adapted to meet installation conditions.

7 **SIMPLICITY**
"JFN" Partition is easily installed or relocated. There are few small parts to become lost or misplaced.

8 All doors are reinforced and mortised for both surface applied and concealed closers. Door Frame is adjustable type to allow for various clearances between bottom of door and floor.

perforated acoustic walls

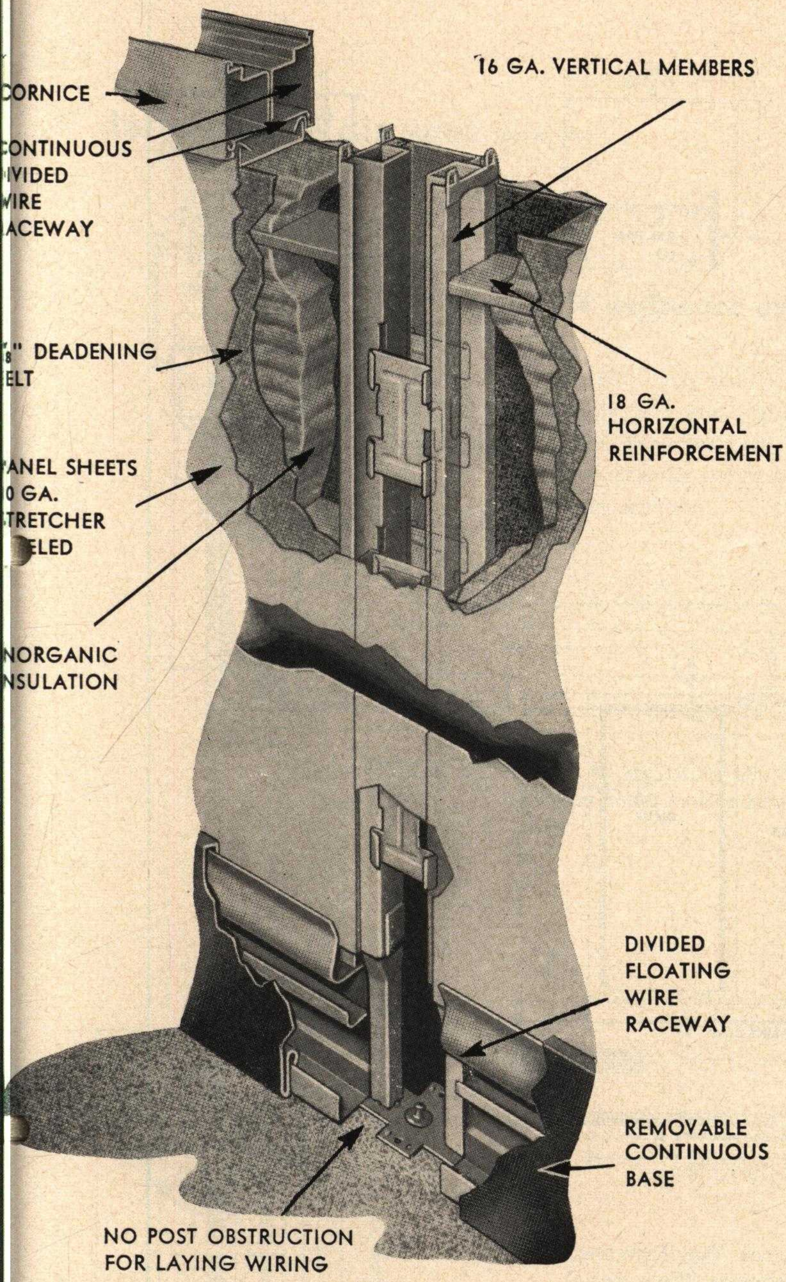
"JFN" Partitions are also available in acoustic units for all standard heights. The internal core is specially constructed to retard transmission of sound. Either or both sides of the panels may be perforated.

low railings and bank partitions

"JFN" units form attractive low railings and bank partitions.

Standard "JFN" units, selected from stock can be used effectively to control public and personal traffic in banks, finance offices, interview offices, public buildings and general offices. Their modern, full flush panel design harmonizes with any architectural style. TYPE "JFN" low railings (without glass) and bank partition (with glass) are 3 inches thick and have no protruding feet to mar the floor line, except where long runs occur and at gates. Stock units include gates, wickets and glass panels to meet all but the most unusual conditions. The fittings, trim and glass, are furnished to specifications. The same high quality workmanship and general structural features, that distinguish the full height "JFN" units are incorporated in their construction. Construction details will be found on Page 8.

features



single glazing

Exclusive "JFN" construction provides for easy removal of glass for replacement—No screws involved.

double glazing

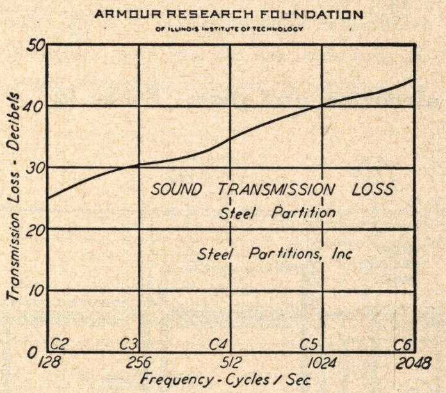
When soundproofness is desired for glazed panels a maximum co-efficient can be obtained by double glazing. "JFN" partition is also adapted to receive hermetically sealed double pane glass.

glass and mesh

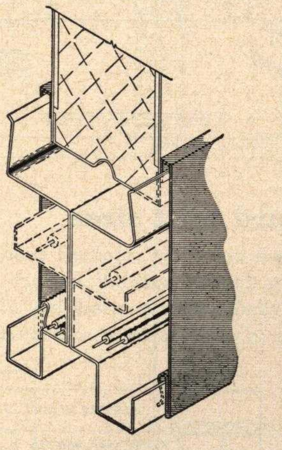
Syenite (obscure) glass 1/8" thick and DSA (clear) glass are standard for full height metal partition. 39 ounce crystal sheet or 7/32" syenite glass is standard for bank type partitions. Other standard glass types are available when specified. Metal partition putty is tinted to match finish. Vinyl plastic glazing mould (neutral color) also available when specified. In lieu of glass, common types of wire mesh and expanded metal may be substituted to meet special requirements.

soundproofing and dustproofing

Type "JFN" panels incorporate an exclusive sound insulating construction feature. In addition to the inorganic insulating material a 1/8" sheet of deadening felt is applied with mastic to the inner side of the metal skin. This sheet prevents practically all metal to metal contact between interior and exterior members. Tests by Armour Research Foundation on a standard "JFN" panel and wall filler section resulted in the sound insulating factor shown on the chart. Where more rigid conditions demand, the partition can be insulated as follows: Space within base, cornice, posts, wall filler, top filler (if any) shall be solidly packed with mineral wool during erection. Base shall be set in mastic seal making full contact at floor. Doors shall have threshold and wiper. Any glazed partition shall be double glazed or have hermetically sealed double panes thoroughly sealed on all sides.



DUST PROOFING can be accomplished by following the above steps plus caulking the wall filler and ceiling channels. LIGHT PROOFING as near as it can be attained follows the same procedure.



galvanized wire raceway

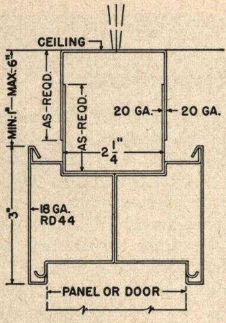
Floating **full length** galvanized raceway prevents corrosion from water seepage resulting from floor cleaning. Individual compartments, separate wiring for each room side of partition. Each side is also sub-divided to accommodate high and low tension circuits.

electrical service data

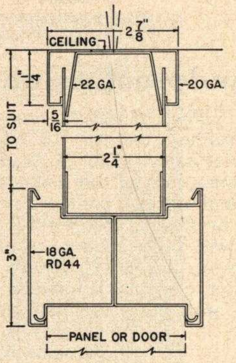
Provisions for electric services are normally made in the base and post assembly. Switches and duplex receptacles are located at convenient heights in the post. The latter also at desired intervals in the base. Switches, receptacles, and plastic or metal plates are available. Steel Partitions' standard cutout is 1 7/8" x 2 7/8".

type JFN

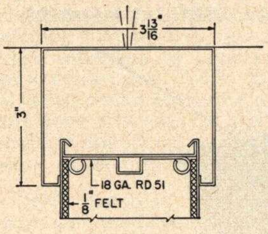
details of partitions 3" = 1'-0"


CEILING
MIN. 1" - MAX. 6"
AS-REQD.
AS-REQD.
20 GA.
20 GA.
2¼"
3"
18 GA. RD44
PANEL OR DOOR

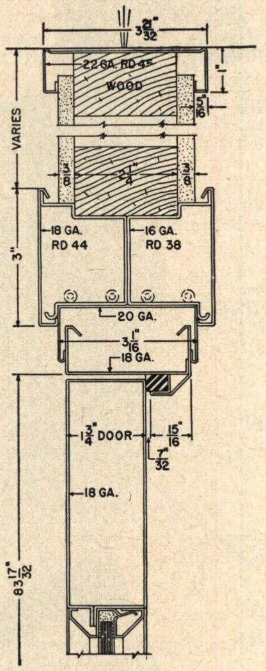
Ⓔ


CEILING
2⅞"
1¼"
22 GA.
20 GA.
5/16"
TO SUIT
2¼"
3"
18 GA. RD44
PANEL OR DOOR

Ⓕ

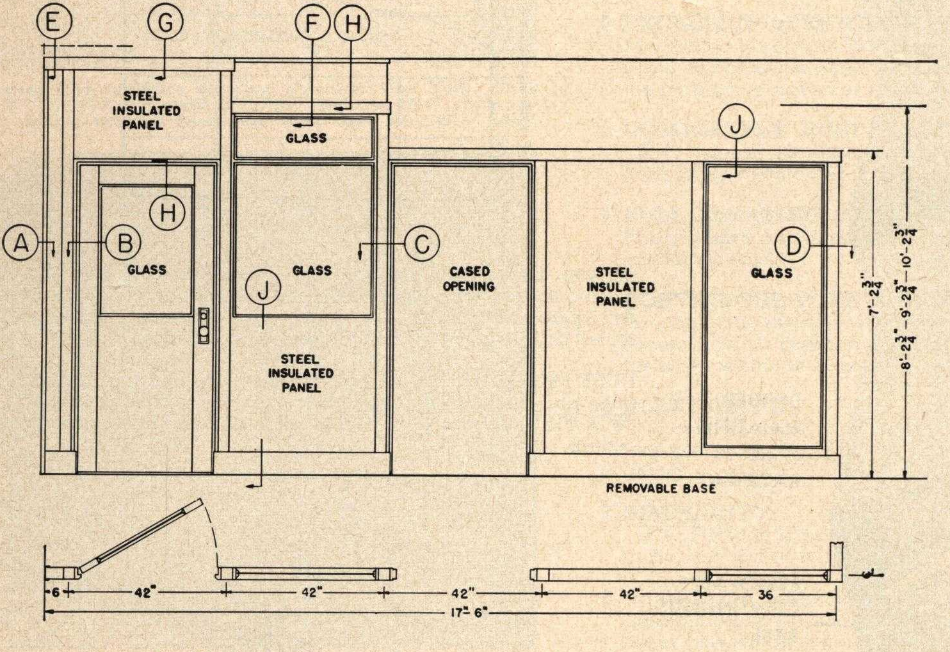

3 13/16"
3"
18 GA. RD 51
⅛" FELT

Ⓖ


3 21/32"
22 GA. RD 45
WOOD
1"
5/16"
VARIES
⅜
2¼"
⅜
18 GA. RD 44
16 GA. RD 38
3"
20 GA.
3 1/16"
18 GA.
1¾" DOOR
15/16"
7/32"
18 GA.
83 17/32"

Ⓗ

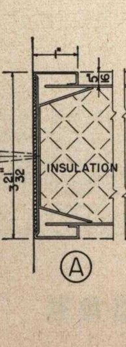
typical elevation and plan Scale: ¼" = 1'-0"


E
G
F
H
STEEL INSULATED PANEL
GLASS
J
H
A
B
GLASS
GLASS
C
J
CASED OPENING
STEEL INSULATED PANEL
GLASS
D
STEEL INSULATED PANEL
7'-2¾"
8'-2¾"
9'-2¾"
10'-2¾"
REMOVABLE BASE
6
42"
42"
42"
42"
36
17'-6"

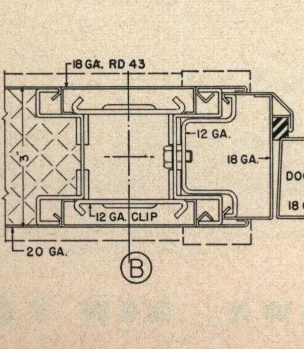
standard unit sizes

Units shown below are standard sizes and available from stock. They have been designed to meet all but very unusual partition or railing conditions. While special sizes are available if required they are not recommended. Special sizes are not conducive to good delivery or economical alterations.

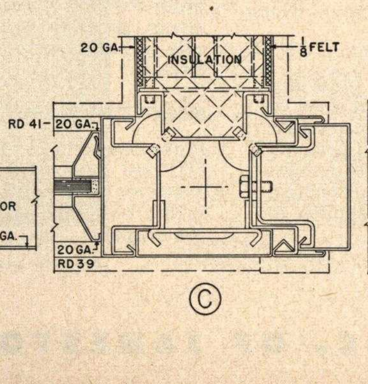
CORNICE HEIGHT 7'-2¾" 8'-2¾" 9'-2¾" 10'-2¾"		
PANEL UNIT WIDTHS		DOOR UNIT WIDTHS
ALL STEEL	6" 12" 18" 24" 30" 36" 42"	SINGLE DOOR = 36" & 42" PAIR = 66"
GLASS & STEEL	12" 18" 24" 30" 36" 42" 48"	SINGLE DOOR = 36 & 42" PAIR = 66"
WALL FILLERS	MINIMUM 5" TO MAXIMUM 20"	


1"
1/16
3 21/32"
INSULATION
20 GA.

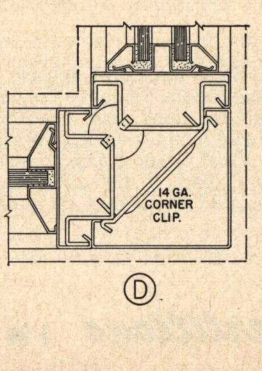
Ⓐ


18 GA. RD 43
3"
12 GA.
18 GA.
DOOR
18 GA.
12 GA. CLIP

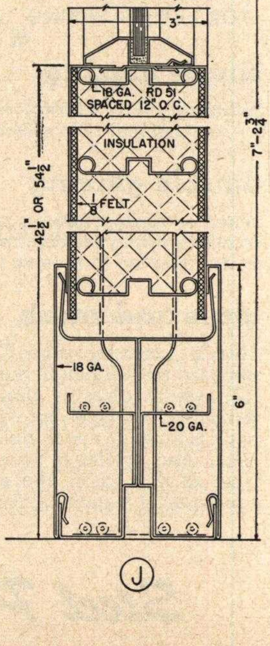
Ⓑ


20 GA.
INSULATION
⅛" FELT
RD 41
20 GA.
20 GA.
RD39

Ⓒ


14 GA. CORNER CLIP.

Ⓓ

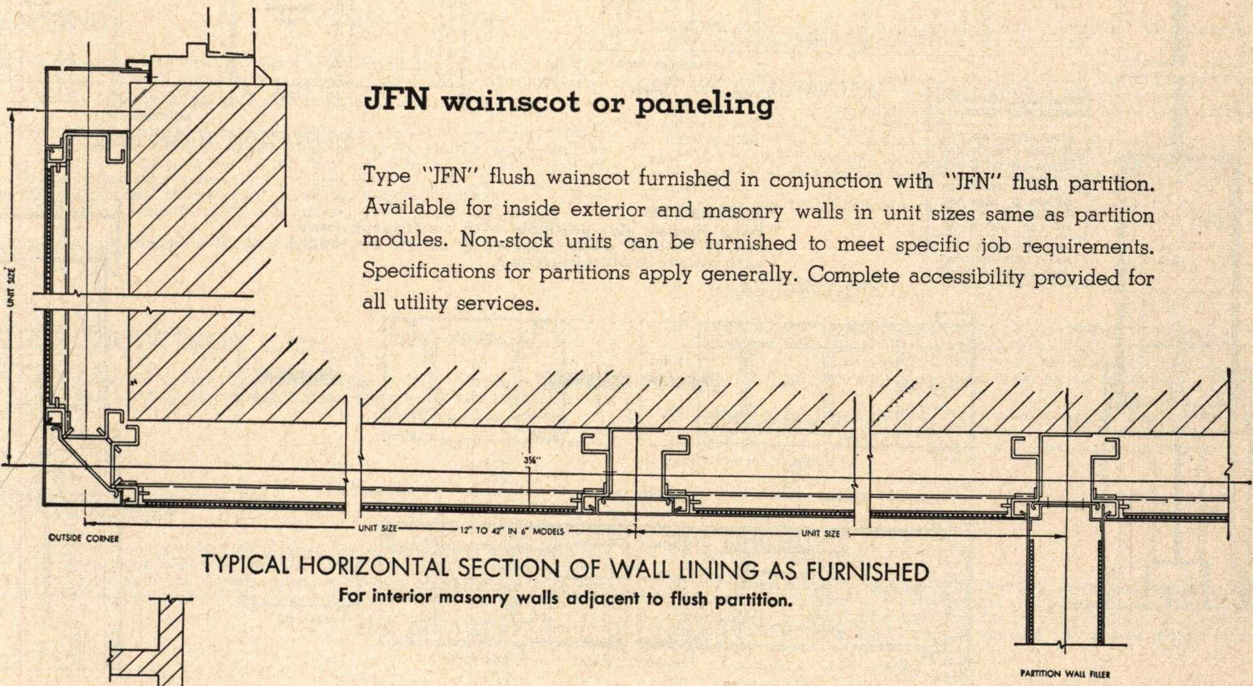

18 GA. RD 44
16 GA. RD 38
3"
18 GA. RD 49
3"
18 GA. RD 51 SPACED 12" O.C.
INSULATION
⅛" FELT
42½" OR 54½"
7'-2¾"
18 GA.
20 GA.
6"

Ⓙ

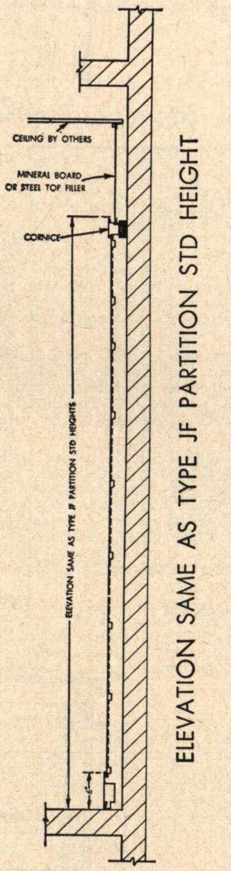
details of Wainscot (no scale)

JFN wainscot or paneling

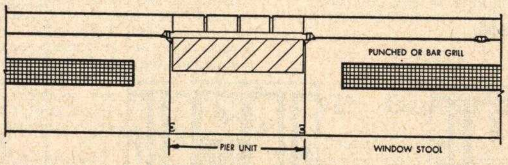
Type "JFN" flush wainscot furnished in conjunction with "JFN" flush partition. Available for inside exterior and masonry walls in unit sizes same as partition modules. Non-stock units can be furnished to meet specific job requirements. Specifications for partitions apply generally. Complete accessibility provided for all utility services.


UNIT SIZE
3¼"
OUTSIDE CORNER
UNIT SIZE
12" TO 42" IN 6" MODELS
UNIT SIZE
PARTITION WALL FILLER

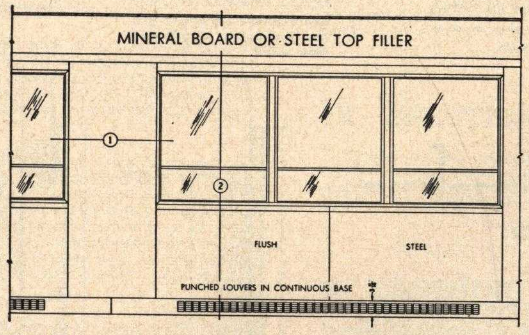
TYPICAL HORIZONTAL SECTION OF WALL LINING AS FURNISHED
For interior masonry walls adjacent to flush partition.


CEILING BY OTHERS
MINERAL BOARD OR STEEL TOP FILLER
CORNICE
ELEVATION SAME AS TYPE JF PARTITION STD HEIGHTS
6"
ELEVATION SAME AS TYPE JF PARTITION STD HEIGHT

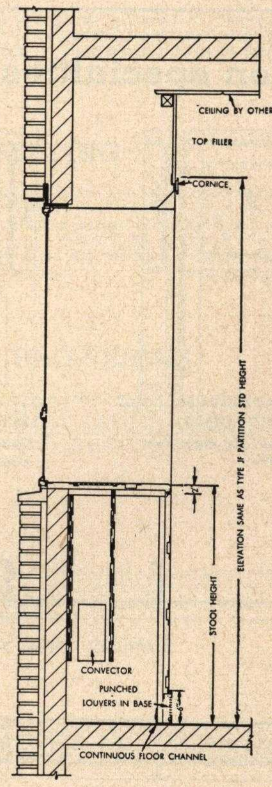
TYPICAL VERTICAL SECTION OF WALL LINING PANEL


PUNCHED OR BAR GRILL
PIER UNIT
WINDOW STOOL

SECTION 1


MINERAL BOARD OR STEEL TOP FILLER
①
②
FLUSH
STEEL
PUNCHED LOUVERS IN CONTINUOUS BASE

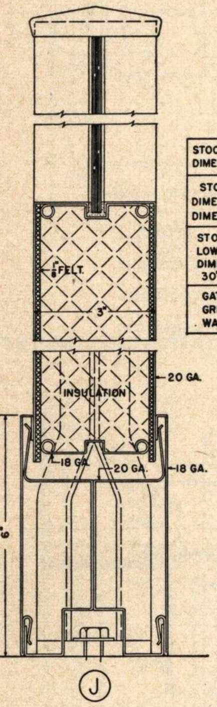
TYPICAL ELEVATION OF COLUMN COVER & CONVECTOR ENCLOSURE

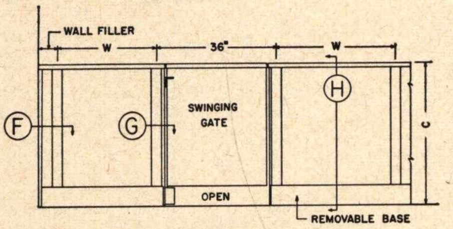

CEILING BY OTHERS
TOP FILLER
CORNICE
ELEVATION SAME AS TYPE JF PARTITION STD HEIGHT
STOOL HEIGHT
CONVECTOR
PUNCHED LOUVERS IN BASE
CONTINUOUS FLOOR CHANNEL

SECTION 2

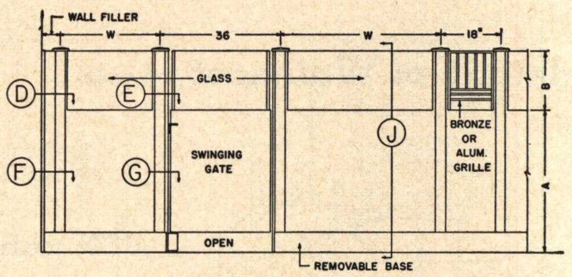
type JFN

details of railings (no scale)


FELT
3"
INSULATION
20 GA.
18 GA.
20 GA.
18 GA.
6"
J


WALL FILLER
W
36"
W
F
G
H
SWINGING GATE
C
OPEN
REMOVABLE BASE

ELEVATION-LOW RAIL


WALL FILLER
W
36
W
18"
D
E
GLASS
B
J
BRONZE OR ALUM. GRILLE
F
G
SWINGING GATE
A
OPEN
REMOVABLE BASE

ELEVATION BANK RAIL

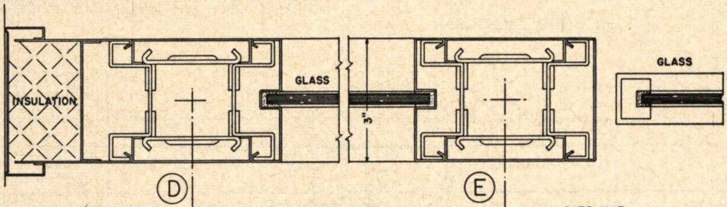
STOCK SIZES LOW RAILING
DIMENSION C = 36" OR 42½"

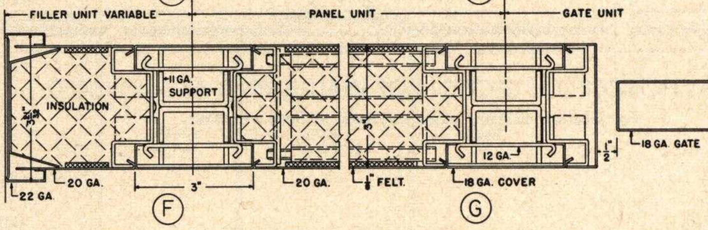
STOCK SIZES-BANK RAIL
DIMENSION A = 42½" OR 54½"
DIMENSION B = 12"- 18" OR 24"

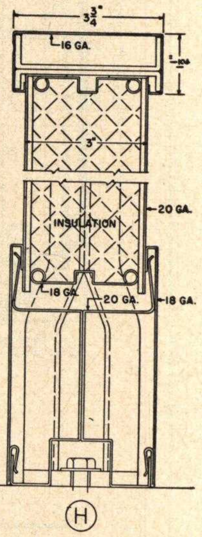
STOCK UNIT WIDTHS FOR
LOW RAIL & BANK RAIL
DIMENSION W = 18" 24"
30" 36" 42" & 48"

GATE UNIT WIDTH = 36"
GRILLE UNIT WIDTH = 18"
WALL FILLER 5" TO 20"

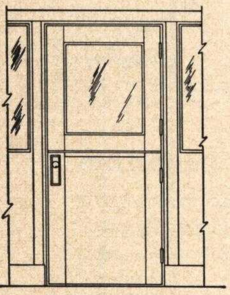
ALTERNATE
Bank Railing also available with continuous handrail. 18″ and 24″ glazing posts 1⅞″ square are topped with bronze or aluminum cap.


INSULATION
GLASS
3"
GLASS
1¼"
D
E

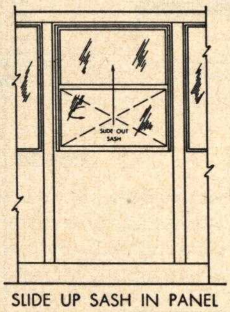

FILLER UNIT VARIABLE
PANEL UNIT
GATE UNIT
INSULATION
11 GA. SUPPORT
3"
12 GA.
1¼"
½"
18 GA. GATE
20 GA.
22 GA.
3"
20 GA.
⅛" FELT
18 GA. COVER
F
G


3¾"
16 GA.
1 1/16"
3"
INSULATION
20 GA.
18 GA.
20 GA.
18 GA.
H

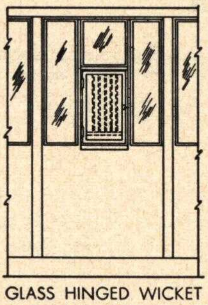
partition specialties (no scale)



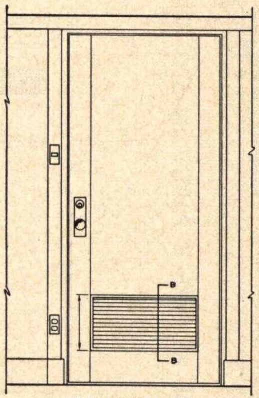
DUTCH DOOR
Folding doors and sliding doors are available.


SLIDE OUT SASH

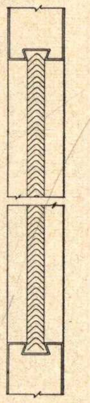
SLIDE UP SASH IN PANEL
Horizontal slide glass or steel wickets are available.



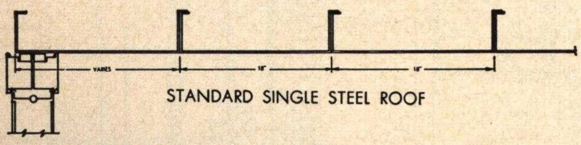
GLASS HINGED WICKET
Also available are hinged grill and combination of grill and glass wicket.



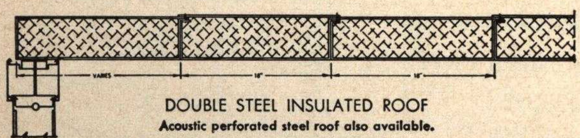
ELEVATION OF LOUVER IN DOOR



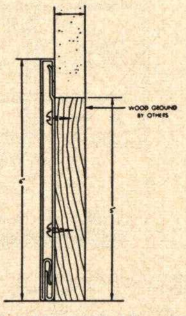
SECTION "B-B" THRU LOUVER IN DOOR


VARIES
18"
18"

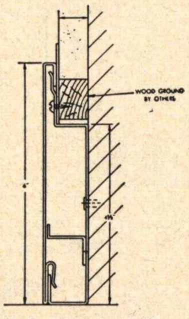
STANDARD SINGLE STEEL ROOF


VARIES
18"
18"

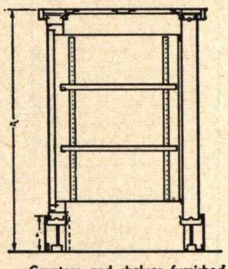
DOUBLE STEEL INSULATED ROOF
Acoustic perforated steel roof also available.


WOOD GROUND BY OTHERS
6"
5"

DUMMY BASE AT MASONRY WALLS


WOOD GROUND BY OTHERS
6"
4½"

WIRE RACEWAY BASE AT MASONRY WALLS



Counters and shelves furnished as an integral part of steel partitions and railings.

specifications

I GENERAL

(1) Furnish and erect flush steel partitions as indicated on architect's plans and specifications. Partition to be, or equivalent to, Type "JFN" as manufactured by Steel Partitions, Inc., Jamestown, New York.

(2) Partitions shall be insulated, movable office partitions not less than 3" thick of hollow metal and interchangeable unit construction with adjustment at the base to take care of irregularities in the floor and with double steel insulated fillers at end conditions. Door units shall be interchangeable with panel units of the same size. Where indicated on drawings, the spaces between partition cornice and the ceiling shall have double sheet fillers of mineral board or cold rolled steel.

(3) Partition shall be erected on the finished floor.

II SHOP DRAWINGS

Drawings showing details of construction, gauges of metal, hardware and all special conditions, shall be submitted to the architect for approval before fabrication of material.

III MATERIALS

Concealed structural members shall be of steel. All exposed sheet metal shall be cold rolled, furniture stock steel that has been properly annealed, process leveled and has smooth, clean surfaces. Gauges specified are United States standard. All internal and structural members shall be either painted with a rust resistance primer or plated.

IV CONSTRUCTION

(A) **Panels:** The panel units shall be 3" thick and constructed of two 16 gauge roll formed vertical members, and 18 gauge rigid horizontal expansion members of galvanite coated steel. The horizontal members shall be spaced at approximately 12" centers the entire height of the panel. This structural assembly shall be covered on each face with 20 gauge, patent leveled, cold rolled steel sheets and stretch to a flat, smooth, wrinkle free surface. The inner surface of the panel sheets shall be covered with a continuous sheet of ⅛" deadening felt, securely cemented to the metal, to eliminate metallic sounds. The entire panel unit assembly shall be filled with an approved inorganic wool insulating material. For glass openings, provide the upper panels with mouldings for either single or double glazing. Mouldings shall be loose on one side, snapped in place without use of glazing screws.

(B) **Posts and Post Covers:** The post section shall be made up of the two 16 gauge galvanite coated steel panel side members and two 18 gauge post covers. The assembly completed by the use of 12 gauge clips galvanite coated steel, spaced at approximately 18" intervals. A shim and guide leveling device shall be provided at each post to compensate for irregularity in the floor.

(C) **Cornice:** The inner cornice shall be roll formed from 16 gauge cold rolled galvanite coated steel and so shaped as to form a rigid, horizontal, continuous, structural member along the top of the panel units. The shape of the cornice member shall be such as to provide two independent raceways accessible the entire length for installation of electric wiring from either side of partition. The inner cornice shall be punched at 6" intervals to permit wiring or concealed reinforcing at any post. Cornice trim moulding shall be 18 gauge rolled steel shape 3" high with plain surface of standard lengths and attached to inner cornice.

(D) **Base:** The base shall be 18 gauge, cold rolled steel of a removable type 6" high with 5/16" projection furnished in standard 10 foot lengths. The base shall be so constructed that when removed access will be provided the entire length of the double electric wiring raceway for high and low tension wire on both sides. Inner wiring raceway shall be galvanized steel full floating for adjustment to floor variations.

(E) **Doors and Frames:** Doors shall be 1¾" thick and of a size to provide 3/32" clearance at side and head jambs. Doors to be reinforced and welded in accordance with approved standard construction. Cutouts and reinforcements shall be provided for hinges and lock. All doors shall be reinforced for both concealed and surface applied closers for present or future use. Door frames shall be from 18 gauge cold rolled steel and shall be so shaped as to incorporate in its construction a rubber stop member at head and jambs for quieter operation. Frames shall be full floating type to compensate for floor variations. Doors shall be glazed when called for in a manner similar to the panel units.

(F) **Wall Filler Sections:** Wall filler sections shall be of sufficient width to meet normal building conditions and shall be an assembly of 20 gauge patent leveled sheets and channels. The assembly shall be so constructed to permit scribing and neat fitting to the wall conditions during erection. The completed assembly shall be insulated in the same manner as a panel unit.

(G) **Top Filler (when required):** Double mineral board filler ⅝" thick shall be applied to 1⅝" x 2¼" wood framing extending from cornice to ceiling neatly scribed to walls, beams, pipes, etc. Joints shall be reinforced, pointed, finish smooth and painted by Painting Contractor.
Double steel filler of 20 gauge shall be applied to steel studs and extended from cornice to ceiling. Single line joints shall be located to center at post conditions of lower panel units and shall be removable. Finish to be applied at factory to match partitions.
Top fillers may be packed with inorganic insulating wool if required and specified.

V HARDWARE

(A) **Provisions:** Suitable cutouts shall be provided in doors and frames for all mortice hardware. Steel reinforcements drilled and tapped and secured by spot welding shall be inserted for attaching all hardware and shall be of ample size to stiffen the sheet metal against the strain of the service required.

(B) **Hardware:** Hardware shall be manufacturer's standard of design and construction normally furnished with movable metal partitions. Doors shall have one pair 5" x 4" ball bearing button tip hinges. (Refer to catalog for additional hardware information.)

VI FINISH

(A) **Prime:** All parts shall be thoroughly degreased and free from dirt and rust and shall receive a primer-surfacer rust resisting coat of synthetic material formulated for high adhesion qualities. The partition shall be so constructed that all concealed parts in the panel, base, cornice and door can be primed as above prior to assembly.

(B) **Enamel:** Best quality (semi-gloss rubbed effect) enamel of color as selected shall be applied to all exposed surfaces, sanded smooth between coats and baked to a hard finish.

(C) **Grain:** Surface shall be prepared as indicated in paragraph (A) above. Ground color for graining shall be applied, baked and sanded after which the graining coat is applied and baked. At least two (2) coats of the highest quality pyroxylin lacquer shall be applied.

VII GLASS AND GLAZING

Glass shall be furnished by the partition manufacturer of design, quality and thickness as specified on drawings. Glass stops shall consist of cold rolled sections and shall have no exposed fastening or glazing screws. Glass shall be bedded and back puttied in special steel sash putty colored to match the partition. Vinyl plastic glazing mould shall be used in lieu of putty when specified for partition. Metal glazing retainer shall be furnished for glazed railing.

VIII ELECTRICAL PROVISIONS

Provision shall be made for concealed electrical wiring through base, cornice, posts and fillers at wall and ceiling. Double lay-in raceways shall be provided in the cornice and the base for the separating of high and low tension wiring. Cutouts shall be made in pilaster covers or base for electrical outlets or switches when specified.

IX ERECTION

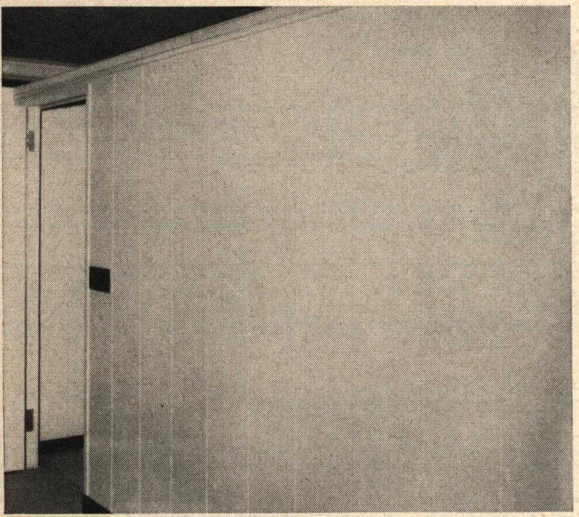
Partitions shall be erected straight and plumb in a rigid workmanshiplike manner. Hardware shall be adjusted and left in good working condition. Partitions shall be erected on finished floor with ceiling reinforcement at unsupported runs over 15-20 feet.

X CLEANING

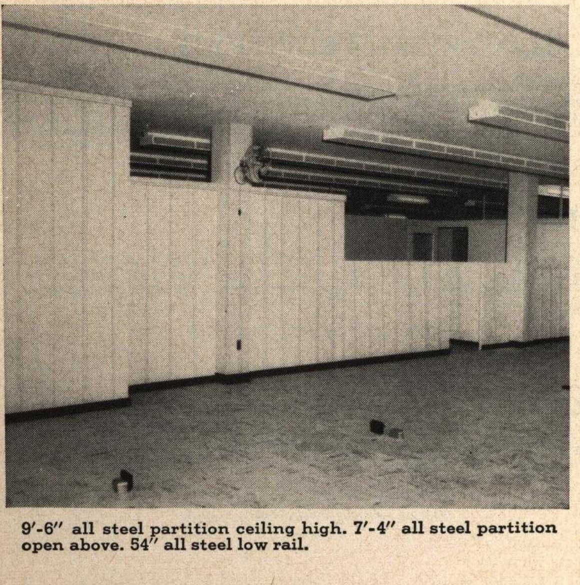
Remove all cartons, left over material, etc., and leave job broom clean. Touch up minor scratches and wipe down panels. Cleaning of glass and washing of partitions is to be performed by others.

type JL—new flush partition

New York Telephone Co., Utica, N. Y. Ceiling high all steel partition with glass sash.



New York Telephone Co., Utica, N. Y. 7'-4" all steel partition open above.



9'-6" all steel partition ceiling high. 7'-4" all steel partition open above. 54" all steel low rail.

A completely new and uniquely different 2" thick flush partition consisting of 12" wide panels custom fabricated to your particular ceiling height. Here is another new product from the engineering ingenuity of Steel Partitions, Inc. Simplicity of design plus new manufacturing techniques have been combined to produce this economically priced partition. Fabricated from quality materials in a workmanlike manner, this new, easy-to-erect type "JL" partition will enhance the appearance of any office area. It will also find wide acceptance in a multitude of industrial applications.

The efficient design of type "JL" has effectively eliminated many costly component parts usually associated with movable partitions without sacrificing the many advantages and desirable features expected from this type of building product. Single line flush joints add to the attractiveness of the partition and provide ideal surfaces for field application of various decorator materials.

outstanding features

1. Panels can be easily field cut horizontally or vertically.
2. Vertically adjustable door frame with vinyl cushioned stop on three sides.
3. Easily stored or warehoused—few component parts.
4. Triple wire raceways in base—double raceways in cornice and every 12" vertically between panels.
5. Full light glass panels as well as unobstructed horizontal glass sash. Can be field cut for alterations.
6. Cross runs (Tee Conditions) can be installed at any location. No restrictions that are common to post and panel construction.
7. Custom heights at standard prices—costly top fillers eliminated.
8. Fabricated from steel or aluminum with high quality baked enamel factory applied finish. Also available with various surface treatments such as vinyl plastic-coated material in a variety of colors and textures.
9. Quickly installed by Steel Partitions, Inc. erectors—or if preferred, local building maintenance personnel can install without difficulty.
10. All Steel Partition can be field cut and readily converted to Glass and Steel Partition by adding sash unit.
11. Completely re-usable.
12. Fast Delivery from stock.

low railing and bank partitions

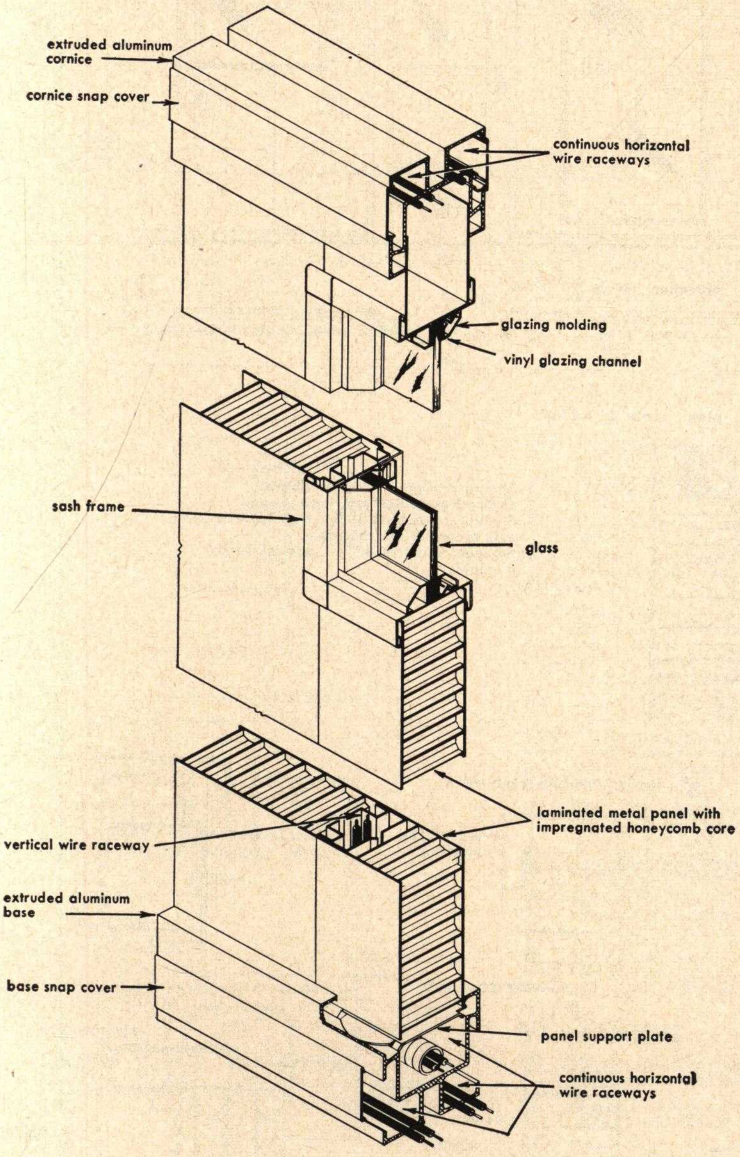
In addition to being versatile in meeting typical floor to ceiling movable partition requirements, type "JL" is particularly suitable for semi-private enclosures.

All Steel Low Railing is available in all standard heights up to 68". "JL" Bank Partitions with glass (Please refer to Page 13 for chair rail and glass heights available) combine an appearance of simplicity with dignity.

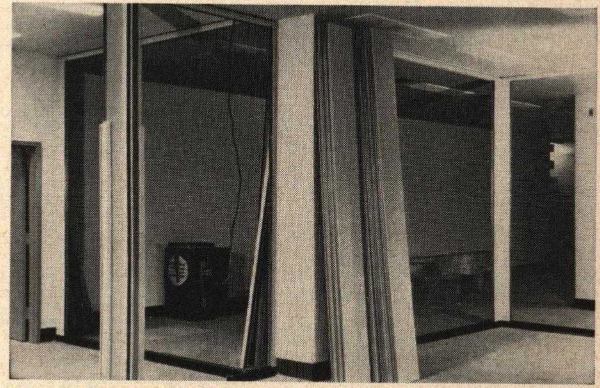
All Low Railing and Bank Partition panels have the same single line joint flush surface that enhances the modern appearance of the full height partition. Flush 1¼" thick gates with or without glass may be added where desired. Gates are equipped with pivoted checking hinges to swing one or both directions. Also on glazed gates appropriate push or pull hardware of matching finish is included.

Due to the unique design of "JL" partitions and use of concealed vertical reinforcing members, amazing strength and stability is gained. They are easily dismantled and re-installed.

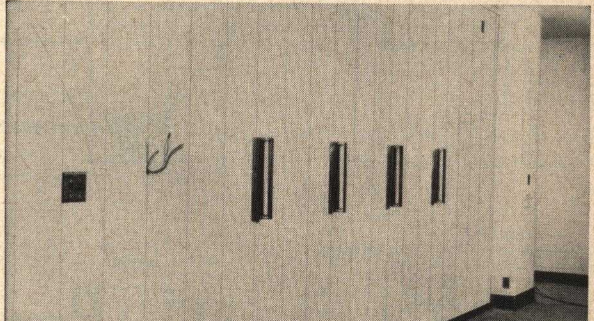
features


extruded aluminum cornice
cornice snap cover
continuous horizontal wire raceways
glazing molding
vinyl glazing channel
sash frame
glass
laminated metal panel with impregnated honeycomb core
vertical wire raceway
extruded aluminum base
base snap cover
panel support plate
continuous horizontal wire raceways

Type "JL" 10 foot ceiling high panels being set in place.



Illustrates type "JL" ceiling high partition base, cornice, and wall channels ready for installation of panels and door units.



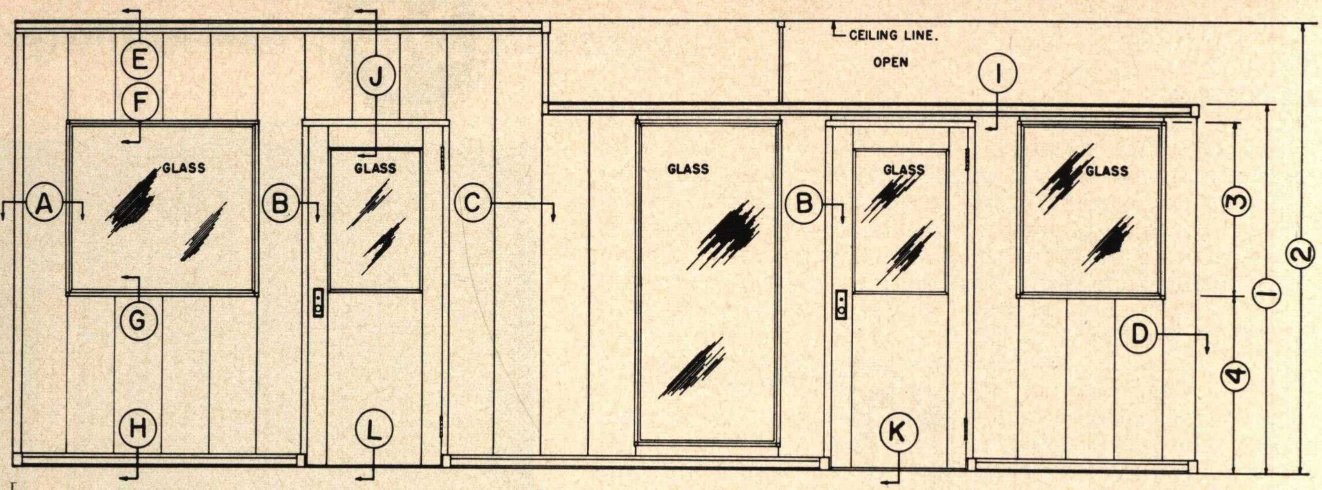
"JL" easily accessible for wiring—lay-in raceways both sides in cornice and base. Also vertical raceways ever 12 inches.

rigidity

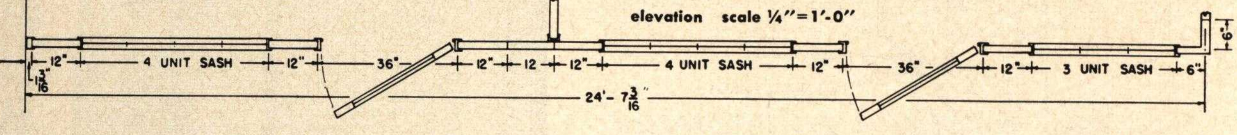
"JL" panels incorporate built-in rigidity through use of modern design and fabricating techniques. Steel sheets are laminated to a honeycomb core impregnated against moisture, vermin and mildew. The honeycomb core is bonded to the steel sheets with a high strength adhesive.

The result is a panel embodying exceptionally high impact resistance and vertical stability. "JL" partitions effectively support standard steel pan type ceilings.

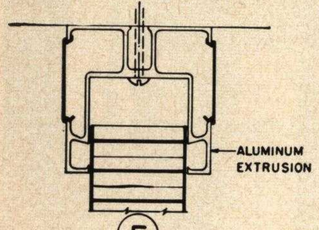
type JL partition and railing details scale 3″ = 1′-0″


CEILING LINE.
OPEN
E
F
J
I
GLASS
GLASS
GLASS
GLASS
GLASS
A
B
C
B
3
2
1
G
D
4
H
L
K

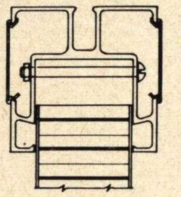
elevation scale ¼″=1′-0″


12″
4 UNIT SASH
12″
36″
12″
12
12″
4 UNIT SASH
12″
36″
12″
3 UNIT SASH
6″
6″
1¾/16
24′- 7 3/16″

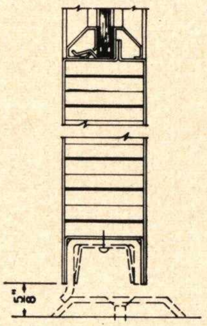
plan scale ¼″=1′-0″


ALUMINUM EXTRUSION

E



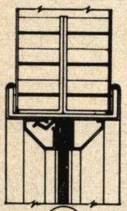
I



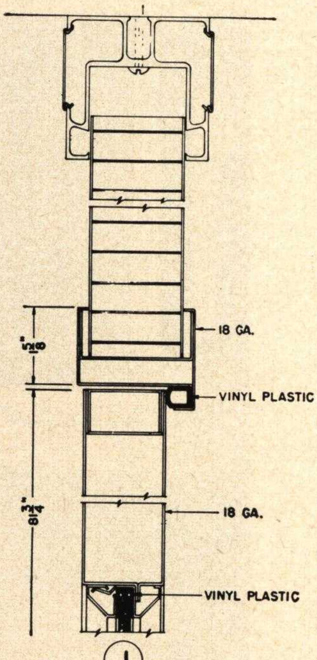
1. Standard height 7′4″ open above.
2. Ceiling high to meet job requirements.
3. Standard glass sash 40⅜″ high. Full height sash or special size available.
4. Standard chair rail 42⅝″. Special height available.

K WITHOUT THRESHOLD AND WIPER.

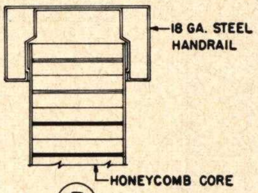
L



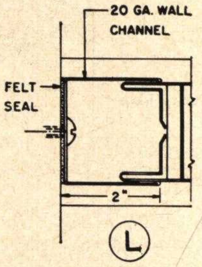
F


1 5/8″
18 GA.
VINYL PLASTIC
8 1/4″
18 GA.
VINYL PLASTIC

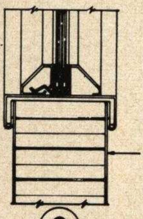
J


18 GA. STEEL HANDRAIL
HONEYCOMB CORE

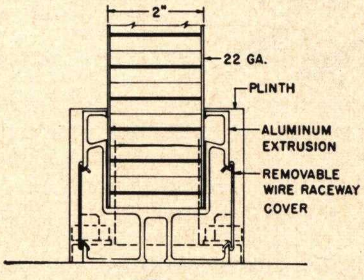
P


20 GA. WALL CHANNEL
FELT SEAL
2″

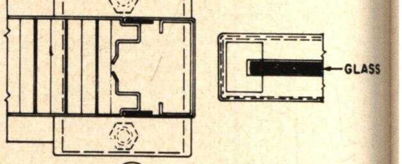
L



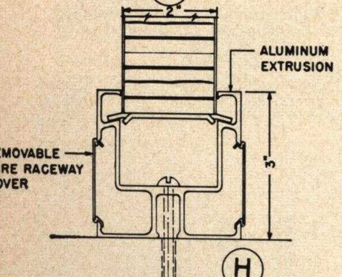
G


2″
22 GA.
PLINTH
ALUMINUM EXTRUSION
REMOVABLE WIRE RACEWAY COVER

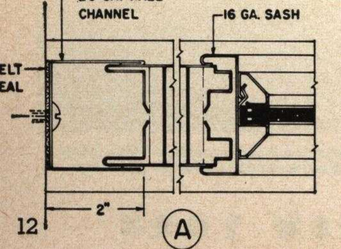
Q



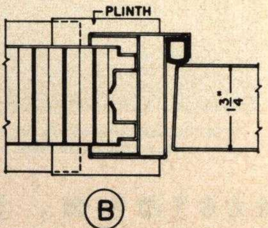
O


2″
ALUMINUM EXTRUSION
EMOVABLE
RE RACEWAY
OVER
3″

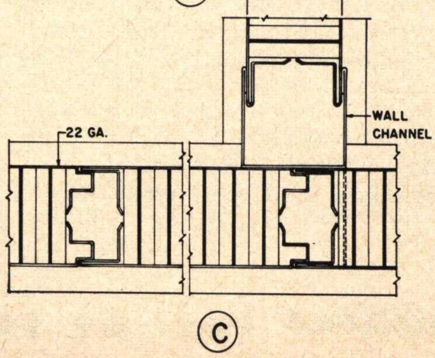
H


20 GA. WALL CHANNEL
16 GA. SASH
ELT
EAL
2″

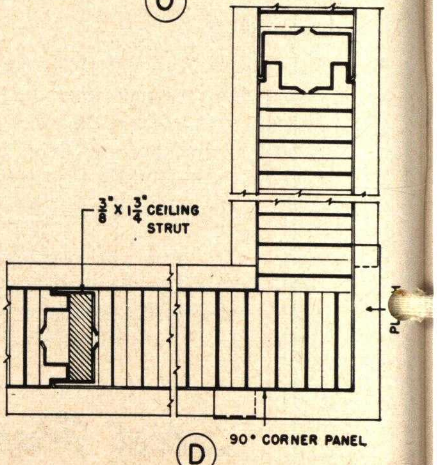
A



B

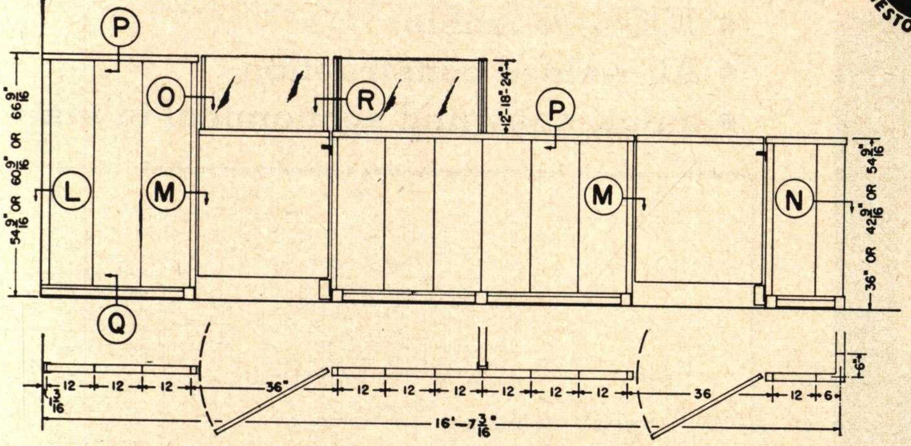

2″
22 GA.
WALL CHANNEL

C

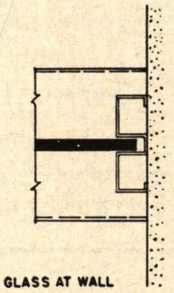

3/8″ X 1 3/4″ CEILING STRUT
PL

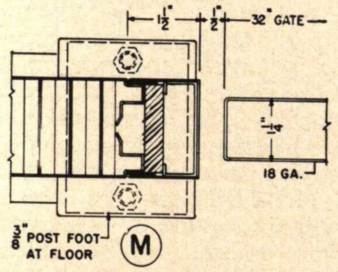
D

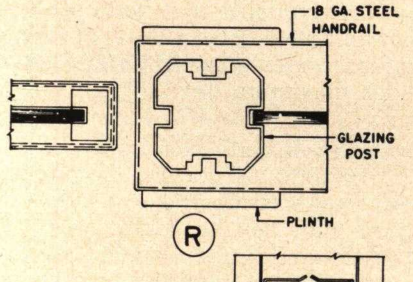
90° CORNER PANEL

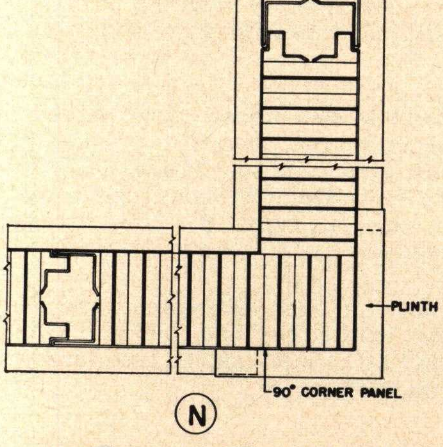


Note: Maximum height for glazed railing 66⅝₁₆″.









specifications

I GENERAL

(1) Furnish and erect flush metal partitions as indicated on architect's plans and specifications. Partition to be Type "JL" as manufactured by Steel Partitions, Inc., Jamestown, New York.

(2) Partitions shall be movable partitions 2″ thick Laminated Honeycomb construction in 12″ increments, so designed to received doors or sash units where shown on drawings.

II SHOP DRAWINGS

Drawings showing details of construction, gauges of metal hardware, and all special conditions shall be submitted to the architect for approval before fabrication of material.

III MATERIALS

Concealed structural members shall be of steel. All exposed sheet metal shall be cold rolled furniture steel that has been properly annealed, process leveled and has smooth, clean surfaces. Gauges specified are United States standard.

IV CONSTRUCTION

(A) **Panel units:** Shall be 2″ thick and constructed of two formed sheets of 22 gauge steel separated by impregnated honeycomb paper core, laminated with a high strength adhesive.

(B) **Base, Cornice, and Ceiling Channels:** Shall be 3″ high with a projection of ½″ from the face of the panels, and so designed as to permit the use of a single member for all three purposes. This member shall also be designed to incorporate a continuous wire raceway (Lay-in Type) on each side of the partition enclosed with a snap-on cover permitting easy access to the wiring at any time. This member shall be an Aluminum Extrusion.

(C) **Glass Openings:** Shall be constructed of a 16 gauge metal channel shape assembled in the partition in such a manner as to securely hold the panels below and above the glass opening in proper alignment. The glass sash shall be of knocked-down construction, assembled in the corner by means of a telescoping corner angle, so designed as to permit the sash units to be reduced in width in the field in case future rearrangement of partitions necessitate smaller openings.

(D) **Doors and Frames:** Shall be 1¾″ thick and of a size to provide 3/32″ clearance at side and head jambs. Cutouts and reinforcements shall be provided as required for hardware. Door frames shall be from 18 gauge steel constructed with ¼″ projection on each side of the panels and of knocked-down design for removing or installing in existing runs of partition. Door frame shall be so designed as to incorporate a cushion door stop of a Rubber or Vinyl extrusion. Standard jamb opening sizes to be normal 2′-10″ x 6′-11″ or 3′-10″ x 6′-11″.

(E) **Wall Filler Sections:** Shall consist of a wall channel, and a telescoping panel member creating sufficient adjustment to meet reasonable construction variations.

V HARDWARE

(A) **Provisions:** Suitable cutouts shall be provided in doors and frames for all mortice hardware. Metal reinforcements drilled and tapped and secured by spot welding shall be inserted for attaching all hardware and shall be of ample size to stiffen the sheet metal against the strain of the service required.

(B) **Hardware:** Hardware shall be manufacturer's standard; of design and construction normally furnished with movable metal partitions. Doors shall have one pair 5″ x 4″ ball-bearing button tip hinges. (Refer to catalog for additional hardware information.)

VI FINISH

(A) **Prime:** All parts shall be thoroughly degreased and free from dirt and rust. All exposed surfaces shall be coated with a synthetic rust resisting primer especially formulated for adhesive qualities.

(B) **Enamel:** Surface shall be prepared as indicated in paragraph (A) above after which best quality (semi-gloss rubbed effect) synthetic enamel of the standard color selected shall be applied.

(C) **Grain:** Surface shall be prepared as indicated in paragraph (A) above. Ground color for graining shall be applied, baked, and sanded smooth after which the graining coat is applied and baked. At least two (2) coats of highest quality clear pyroxylin lacquer shall then be applied.

VII GLASS AND GLAZING

Glass shall be furnished by the partition manufacturer of design, quality and thickness as specified on drawings. Glass stops shall consist of cold rolled sections and shall have no exposed fastening or glazing screws. Glass shall be set in Vinyl glazing channels of a color harmonizing with the partition color. Metal glazing retainers shall be furnished for glazed railing.

VIII ELECTRICAL PROVISIONS

(A) Provision shall be made in the base and cornice channels for wire raceways with removable snap-on covers.

(B) Provision shall be made between each panel for a vertical wire raceway and cutouts made in panels for switches or outlets when required by direction of the architect.

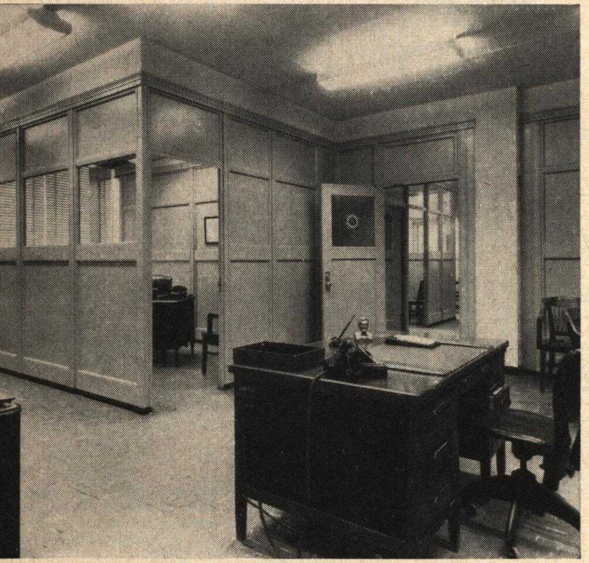
IX ERECTION

Partitions shall be erected straight and plumb in a rigid workmanshiplike manner. Hardware shall be adjusted and left in good working condition. Partitions shall be erected on finished floor with ceiling reinforcement at unsupported runs over 15-20 feet.

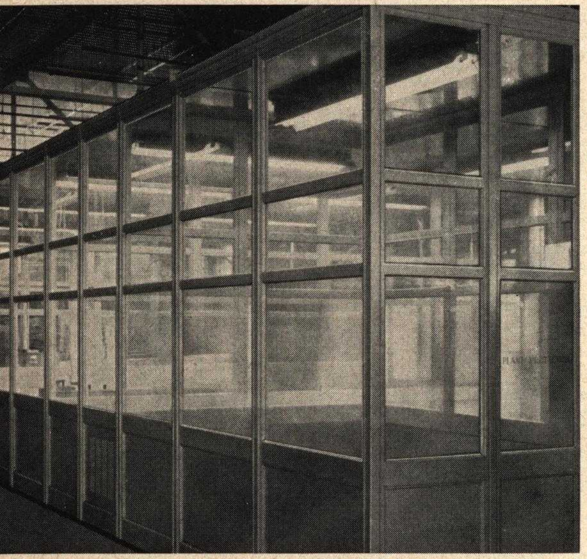
X CLEANING

Remove all cartons, left over material, etc., and leave job broom clean. Touch up minor scratches and wipe down panels. Cleaning of glass and washing of partitions is to be performed by others.

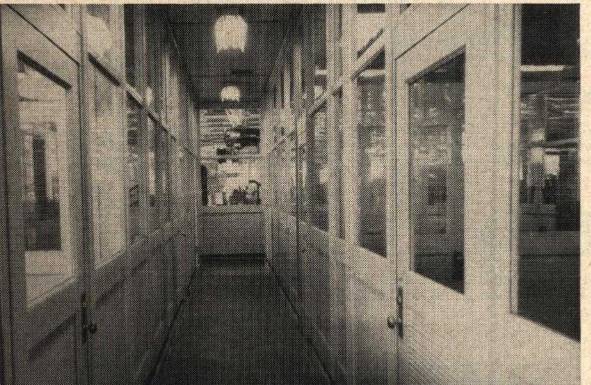
type E paneled wall



Lincoln National Bank and Trust Company, Syracuse, New York. Type E 9'-0" all steel and glass and steel partition, 54" chair rail, with double mineral board top filler.



Panel type factory installation. 12'-0¼" high glass and steel with single steel pan ceiling. Ford Motor Co., Parts Depot, Natick, Mass.



Type E 10'-4" glass and steel partition with steel pan ceiling.

- **100% interchangeable units**
- **100% reusable**
- **All welded construction**
- **quick, easy and economical to install**

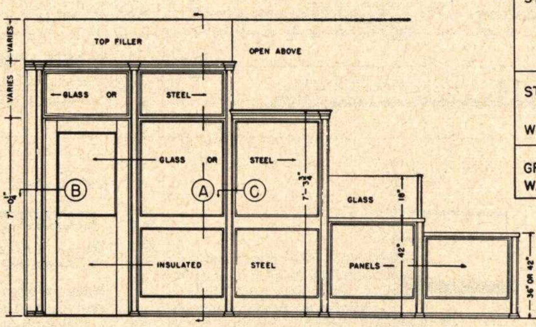
RAILING

STOCK UNIT WIDTH FOR LOW RAIL & BANK RAIL 16" 24" 32" 40" 48" 56" 64"

STOCK HEIGHT
LOW RAIL 36" & 42"
BANK RAIL 42" PLUS 18" OR 24" OF GLASS

STOCK GATE UNIT WIDTH 36" WITH OR WITHOUT GLASS

GRILLE UNIT WIDTH 16"
WALL FILLER 5" TO 20"



TYPICAL ELEVATION OF PARTITION & RAILING

TYPE "E" is a basic paneled type sectional steel partition made up of Mono-Unit sections, each section a complete unit in itself. It has proved a most practical and economical method of partitioning offices, industrial and institutional building where maximum flexibility and complete interchangeability are desired. Since each panel is a complete integral unit, with its corresponding cornice and base units at the same width, TYPE "E" Mono-Unit partition can be quickly and easily assembled without cutting or fitting, and rearranged without waste. This assures 100% salvage. TYPE "E" panels and sash are available in a wide selection of standard stock sizes that facilitate a great variety of cornice heights. Door units are interchangeable with panel units of the same size. This provides maximum flexibility.

A neat cornice cap is furnished at each post connection. If the customer so desires, a continuous cornice is available in lieu of the unit cornice. Single or double steel top filler or double mineral board top filler can be added above the cornice to the suspended or slab ceiling to close off an area. TYPE "E" partition accommodates lay-in wiring in posts and cornice; at the base and chair rail fish-in wiring access is available.

TYPE "E" units are built to the highest metal fabricating standards, securely welded and reinforced to provide maximum structural stamina and enduring rigidity. Complete information on standard units available, construction details and specifications on Page 11. Type "E" Low and Bank Railing to match also available.

TYPE "E" partitions have enjoyed widespread popularity with leading architects, contractors and building owners as evidenced by the long list of installations, both large and small, throughout the country.

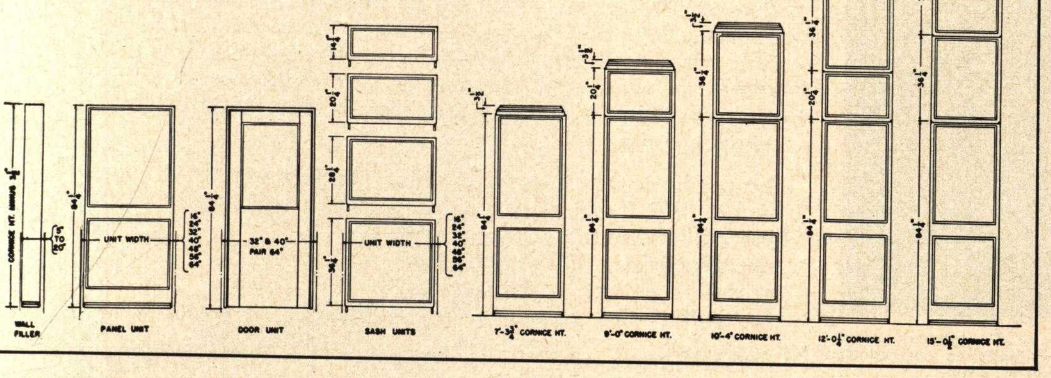
standard railing

Attractive, efficient railing, either low or bank type, are complementary to Type E partitions. See below for standard panel and gate units.

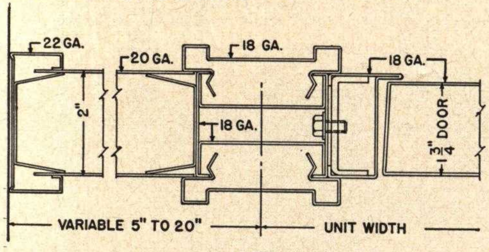
partition specialties page 8 also available for type E

PARTITION

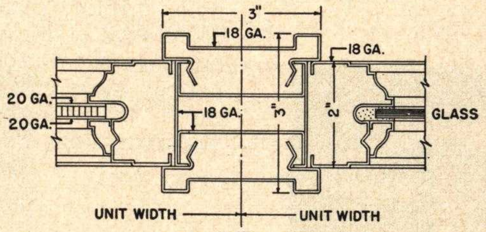
CORNICE HEIGHT	7'-3¾" 8'-6" 9'-0" 9'-8" 10'-4" 10'-8¼" 11'-4¼" 12'-0¼" 12'-8¼" 13'-4¼" 13'-8½" 14'-4½" 15'-0½"	
STOCK UNIT WIDTHS FOR BOTH GLASS & STEEL & ALL-STEEL PANELS	16" 24" 32" 40" 48" 56" 64"	STOCK SINGLE DOOR UNIT WIDTHS 32" & 40" FOR GLASS & STEEL & ALL-STEEL DOORS. DOUBLE DOOR UNIT WIDTH 64" FOR GLASS & STEEL & ALL-STEEL.
WALL FILLERS — MINIMUM 5" TO MAXIMUM 20"		


WALL FILLER
PANEL UNIT
DOOR UNIT
SASH UNITS
UNIT WIDTH
32" & 40" PAIR 64"
7'-3¾" CORNICE HT.
9'-0" CORNICE HT.
10'-4" CORNICE HT.
12'-0¼" CORNICE HT.
15'-0½" CORNICE HT.

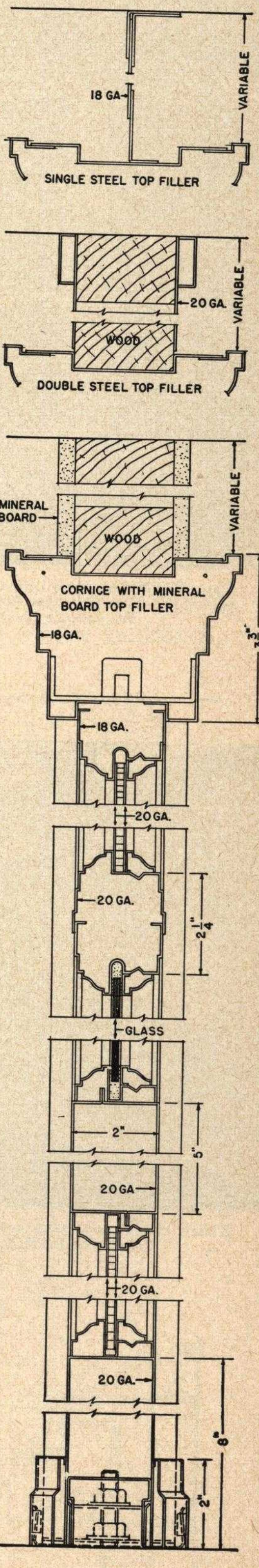
details scale 3″ = 1′-0″


22 GA.
20 GA.
18 GA.
18 GA.
18 GA.
2"
1¾" DOOR
VARIABLE 5" TO 20"
UNIT WIDTH

B


3"
18 GA.
18 GA.
20 GA.
20 GA.
18 GA.
3"
2"
GLASS
UNIT WIDTH
UNIT WIDTH

C


VARIABLE
18 GA.
SINGLE STEEL TOP FILLER
VARIABLE
20 GA.
WOOD
DOUBLE STEEL TOP FILLER
MINERAL BOARD
WOOD
VARIABLE
CORNICE WITH MINERAL BOARD TOP FILLER
18 GA.
3¾"
18 GA.
20 GA.
20 GA.
2¼"
GLASS
2"
5"
20 GA.
20 GA.
20 GA.
8"
2"

A

specifications

GENERAL—Furnish & install Type E, panel type partitions, as manufactured by **Steel Partitions, Inc.** Partitions shall be made up of units including the cornice, of standard width, so designed as to allow the utmost flexibility of arrangements and permit changes being made without disturbing units other than those to be rearranged.

Partitions must permit wiring through Base, Chair Rail, Cornice, Pilasters, and Wall Fillers.

MATERIALS—Shall be cold rolled, commercial quality steel. Panel plates shall be patent leveled. Mouldings shall be cold drawn for true sharp bends and profiles.

PANEL UNITS—Shall be of integral welded construction. The insulated panels shall be two 20 U. S. gauge plates separated by sound-retarding insulation.

FLUSH DOORS—Shall be 18 U. S. gauge steel 1¾″ thick of welded construction, properly reinforced for all hardware. Door units shall be interchangeable with panel units of the same size.

PILASTERS—Pilasters shall be cold drawn of 18 U. S. gauge steel, substantially reinforced and so constructed as to permit two, three, or four-way partition connections. Each pilaster shall be securely anchored to the floor.

CORNICE—Shall be of 18 U. S. gauge steel, cold drawn in unit lengths to conform with widths of panel units, and attached at each end to top of pilaster by split key anchoring wedge. A 14 U. S. gauge stiffener channel shall be the means of reinforcing the splice in the cornice over each pilaster. Pilaster caps shall be fitted to cover cornice joints. Install a dust cover of 16 U. S. gauge securely fastened to the cornice.

PARTITIONS TO CEILING—Ceiling high partitions shall be of the design described above, and accomplished by the addition of standard heighth sash added to the basic panel unit. Transoms shall be provided where shown on general drawings and shall be equipped with bottom counter balanced pivots.

MOP MOULDING—Adjustable steel mop moulding shall be attached to both sides of the bottom of all panels and pilasters with concealed fastening.

WALL FILLERS—Shall be of double thickness 20 U. S. gauge steel and of sufficient width to accommodate all conditions. The fit to the wall shall be snug and of neat appearance.

FINISH—The fabricated partitions shall be thoroughly degreased. All exposed surfaces shall be coated with a synthetic baking primer especially formulated for adhesive qualities. Final coat shall be high quality synthetic baking enamel. Sanded between coats and final coat, semi-gloss.

WORKMANSHIP—All materials shall be fabricated in the most approved manner, true to alignment and free from defects, neat in appearance and equal to the standard practice of the **Steel Partitions, Inc.**

GLASS AND GLAZING—All glass shall be embedded in special steel sash putty, colored to match the partition and to fit into rabbets of the partition sash, and shall be held in place by removable metal stops, securely fastened by oval head screws.

HARDWARE—Hardware shall be manufacturer's standard design (ours by Russel & Erwin). Locks shall be as specified for individual doors. All locks shall be interchangeable, one with the other; and master-keyed where required.

Door checks shall be of liquid type with regular or hold-open arms. All doors shall be equipped with one pair of 5″ x 4″ ball bearing steel butts.

ERECTION—All work shall be erected in a first class workmanlike manner under the supervision of a direct representative of **Steel Partitions, Inc.**

type SC smoke screens

corridor and stairwell

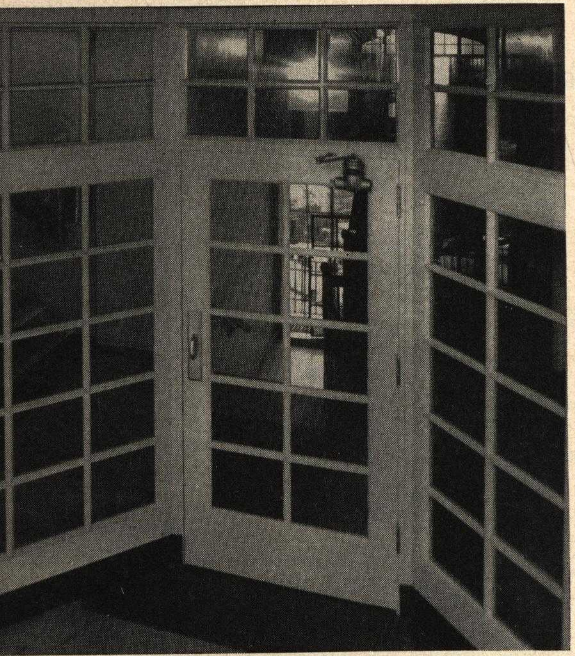
Localize smoke hazards and facilitate orderly evacuation in schools, hospitals, institutions, hotels, stores, public buildings

Smoke-filled corridors and stair wells can be as great a menace to the safety of the occupants of public and institutional buildings as fire itself. Steel Partitions, a pioneer in this vital safety field, makes available a practical and efficient Smoke Screen that is especially adapted by design and construction to guard against this hazard. These Smoke Screen units are designed both for use in new construction and for modernization programs as well.

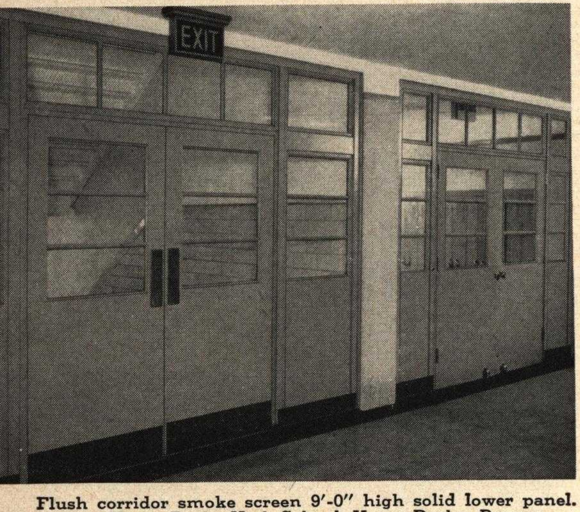
Smoke Screens are available in Type "JFN" full flush panel construction. Shown on this page are typical installations. Our competent and experienced engineering staff is always ready to work with architects, contractors and building owners to lay out an installation to meet their individual requirements.

No public or institutional building should be without the protection that these Smoke Screens afford. Industrial and commercial building owners are rapidly recognizing the importance of the added safety factor that they provide.

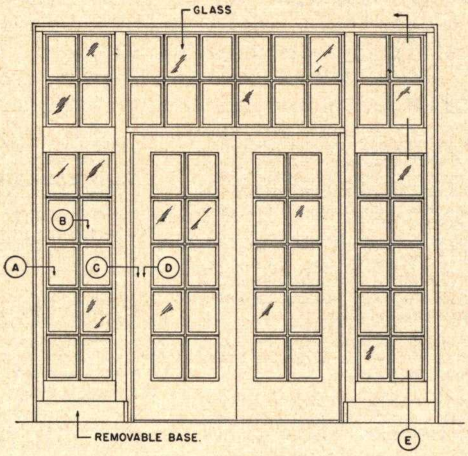
Smoke Screen construction details are shown below. Refer to Page 9 for General Specifications. Typical glass—¼" polished wire or MISCO. Typical hardware—push and pull plates, kick plates, standard butts with door closer or checking floor hinge.



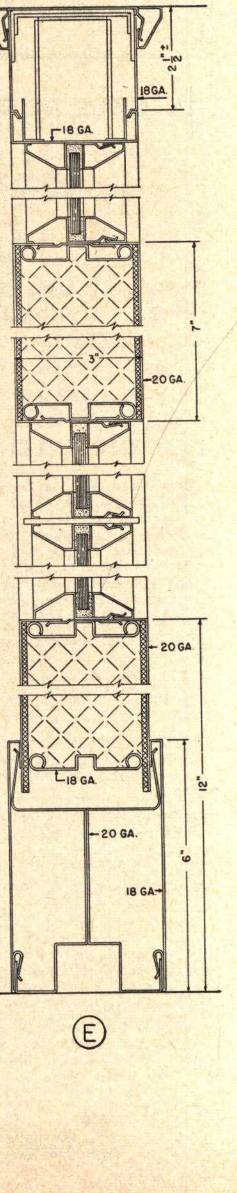
Type "JFN" stairwell smoke screen 10'-0" high with fixed transom. Standard hardware and ¼ polished wire glass. St. John's Hospital, Cleveland, Ohio.

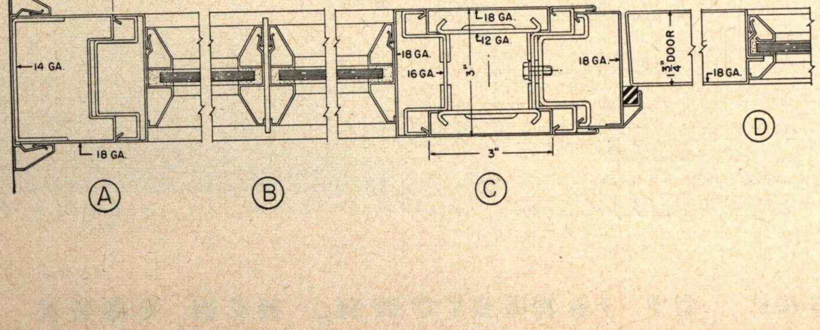


Flush corridor smoke screen 9'-0" high solid lower panel. Upper Darby High School, Upper Darby, Penna.



TYPICAL ELEVATION



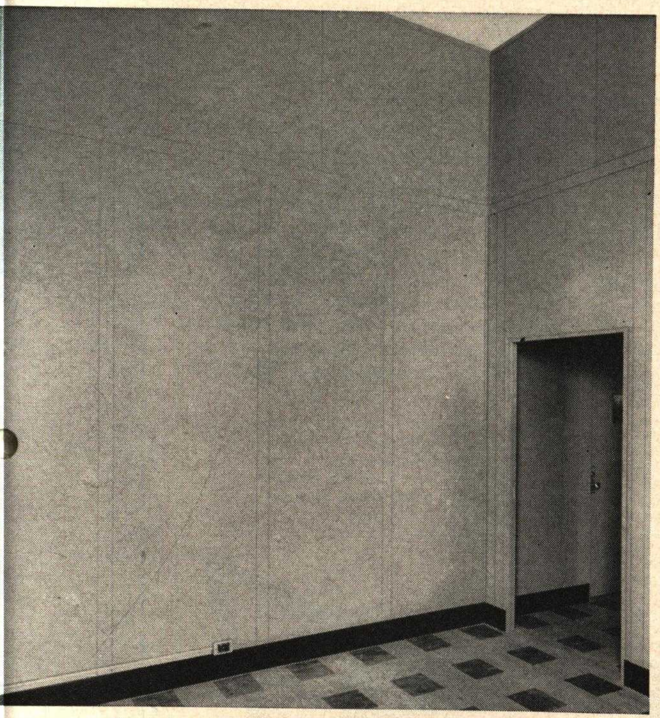


(no scale)

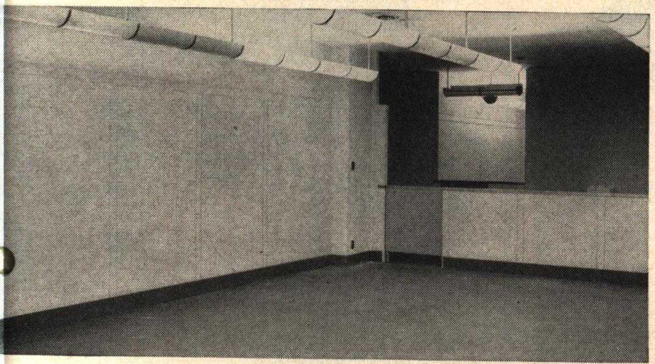
type JFF fire rated

STEEL PARTITIONS + JAMESTOWN, NEW YORK +

steel partitions



Flush type "JFF" fire rated partition 10'-2¾" high with double steel top filler. New York Telephone Co., Syracuse, N. Y.



Type "JFF" fire rated partition 7'-2¾" high with double steel top filler.

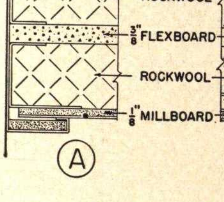
Fire rated steel partitions are available for use where an extra margin of safety is desired or required to meet building codes. Type JFF fire rated partitions comply with the American Society for Testing Materials, one hour fire test requirements, (standard specifications for fire test of building construction and materials E 119-55). The partition surpassed the minimum requirements for exposed side temperature of 1700° F, (927° C) as well as impact, erosion and cooling effect created by hose test.

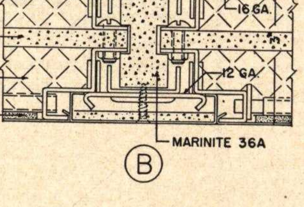
Fire rated partitions 3⅜'' thick are similar in construction and appearance to our standard JFN partition with the necessary reinforcements and insulation added to meet the one-hour rating requirements. Standard panel units are listed below. Switches and receptacles not recommended in post condition.

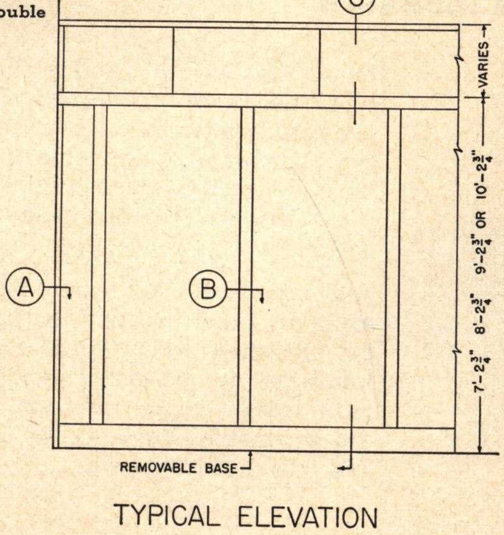
Type ''JFF'' fire rated partitions are especially adapted to changing requirements, specifically corridor installations, in municipal buildings such as schools, office buildings, hospitals, city halls, institutions, and court houses. In addition, they have great potential in meeting the requirements in separating equipment rooms from office areas in telephone buildings, laboratories, and experimental areas.

(no scale)

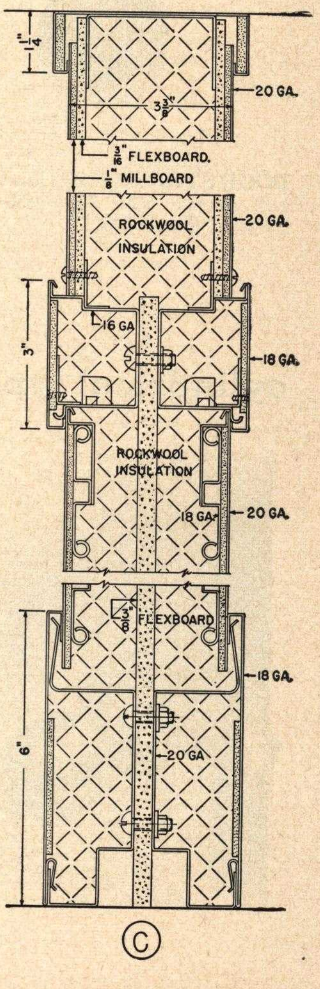
CORNICE HEIGTH	7'-2¾"	8'-2¾"	9'-2¾"	10'-2¾"		
PANEL UNIT WIDTHS						
ALL STEEL	6"	12"	18"	24"	30"	36"


20 GA.
1/8" MILLBOARD
ROCKWOOL
3/8" FLEXBOARD
ROCKWOOL
1/8" MILLBOARD
(A)

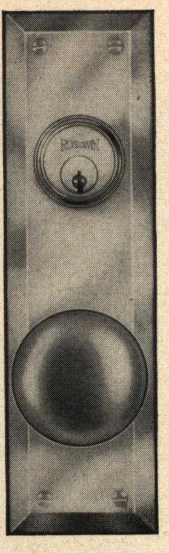

20 GA.
18 GA.
3/16" FLEXBOARD
16 GA.
12 GA.
MARINITE 36A
(B)


(C)
VARIES
7'-2¾" 8'-2¾" 9'-2¾" OR 10'-2¾"
(A)
(B)
REMOVABLE BASE

TYPICAL ELEVATION


1¼"
3⅜"
20 GA.
3/16" FLEXBOARD.
1/8" MILLBOARD
ROCKWOOL INSULATION
20 GA.
16 GA.
3"
18 GA.
ROCKWOOL INSULATION
18 GA.
20 GA.
3/8" FLEXBOARD
18 GA.
6"
20 GA.
(C)

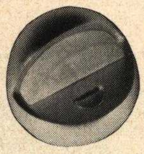
standard hardware

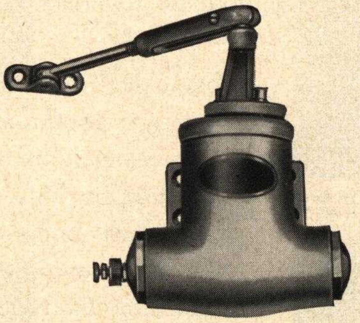

BERKELEY
Wrought Trim
Escutcheon 7" x 2¼"
Backsets 2¾" Lock Face 8" x 1¼"
Knob Dia. 2¼"

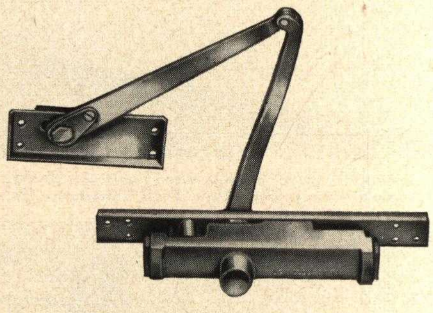
Steel Partitions' hardware was chosen for its high quality, modern design and flexibility. Using our Standard hardware prevents inevitable delays and added costs which result from use of non-standard hardware. We stock sizable quantities of our hardware. Our standard finish is U. S. 10 (dull bronze), however other finishes are available when specified. Flush Doors are provided with one pair standard 5" x 4" butts. Button tip butts are standard.

Russwin "10 STRIKE" locksets

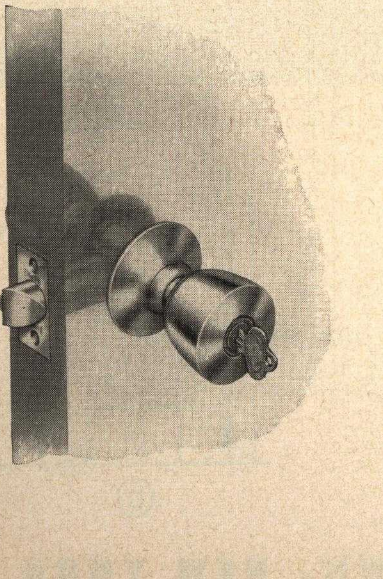
Russwin "10 STRIKE" locksets have been adopted as standard on all TYPE "JFN," TYPE "JL" and TYPE "E" door units because of their uniform quality, positive trouble free operation and amazing flexibility. They are so constructed that the locking function can be changed easily, quickly and inexpensively. All the interior working components are interchangeable and a simple rearrangement, usually without adding any additional parts, changes the locking mechanism to perform an entirely different function. This flexibility makes it possible to change the locks to meet new conditions when it is necessary to move or rearrange the partition. Like all Russwin locks, "10 STRIKE" locksets are precision made, with all interior working parts of heavy, rust resisting steel. Balanced knob action provides equal pressure on the knob in either direction, reducing all unnecessary strain on the working parts and assuring easy operation. The knobs and escutcheons are of wrought brass and are regularly supplied in the distinctive new "BERKELEY" design.


DOOR STOP SP 209½ low half dome cast bronze with 1⅛" solid rubber bumper. Height 1⅜".


SURFACE DOOR CLOSER with cast iron case painted to match partitions or aluminum or gold bronze. In sizes B and C. Hold open arms are available when specified.


CONCEALED DOOR CLOSER type LCN 304 with cast iron case completely concealed in door. Exposed arm painted to match partition. Hold open arm available when specified.

cylindrical type locksets



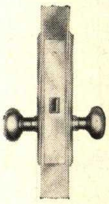
In addition to our standard mortice type hardware mentioned above, heavy duty cylindrical "key in knob" type hardware is available in both lock and latch functions. Trims other than shown are available when specified.

Although US-10 Dull Bronze Finish is standard, other common finishes will be furnished when specified. This hardware is extremely flexible to most master keying systems. Locks are reversible. Backset 2¾", Knob 2³⁄₁₆" dia., rose 2⅝" dia.

GATE HARDWARE
Rixson No. 356 cast bronze double and single acting hinge standard for glazed gates. A Chicago spring type double acting hinge standard for low gates. Secret gate catches available for either type. Gate pull plates or locks available when specified.

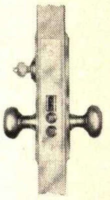
OTHER HARDWARE
Kickplates, Flush Bolts, Door Holder, push and pull plates, thresholds, transom and wicket hardware as well as slide door hardware furnished when specified.

functions



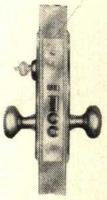
**10S-2025—
LATCH SET**

Latch bolt. Operates from either side by knobs. No dead bolt.



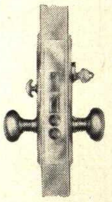
**10S-2038—
CYLINDER
LOCK SET**

Latch bolt operated from either side by knob except when outside knob locked by button. Key operates latch from outside.



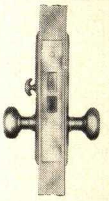
**10S-2056—
PICKPROOF
CYLINDER
LOCK SET**

Latch bolt by knobs. Outside knob locked by button and key. Auxiliary latch deadlocks latch bolt to prevent tampering.



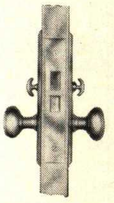
**10S-2048—
CYLINDER
LOCK SET**

Latch bolt by knobs. Outside knob locked by button and key. Dead bolt by key outside and turn piece inside.



**10S-2039—
SINGLE
COMMUNICATING
LOCK SET**

Latch bolt operated by either knob. Dead bolt by turn piece inside only. Emergency key outside.



**10S-2040—
DOUBLE
COMMUNICATING
LOCK SET**

Latch bolt operated by either knob. Each turn piece operates individual dead bolt.

installations

Acker & Keller, Inc., Kensington, Maryland (L)
Administration Building, Dayton, Ohio
A.E.C., Chemical Isolation & Purification Lab., Oak Ridge, Tennessee
A.E.C. Chemical Processing Plant, Arco, Idaho
Akron-Beacon Journal, Akron, Ohio
Alabama Dry Dock & Shipbuilding Co., Mobile, Alabama
Alcoa, Cleveland, Ohio
Allis-Chalmers Manufacturing Company, Terre Haute, Indiana
American Brass Co., Cleveland, Ohio
American Consulate Office Bldg., Toronto, Canada
American Foundrymen's Society, Des Plaines, Illinois
American Sterilizer Co., Erie, Penna.
Baltimore County Office Bldg., Baltimore, Md.
Barrett Division, Allied Chemical & Dye Corp., Toledo, Ohio
Bell Aircraft Co., Wheatfield, N. Y.
Bell Telephone Co., Greensburg, Penna.
Bess Construction Company, Elizabeth, Pennsylvania (L)
Bethlehem Steel Corp., Lackawanna, N. Y.
Blaw-Knox Manufacturing Plant, Mattoon, Ill.
Board of Education (4 Schools), Lackawanna, New York (SC)
B & O Railway Co., Pittsburgh, Penna.
Brian Supply Co., Providence, R. I.
Buffalo Forge Co., Buffalo, N. Y.
Canadian Embassy, Washington, D. C.
Cancer Research Lab., St. Louis, Mo.
Carnegie Steel Co., Gary, Ind.
Carrier Corporation, Syracuse, N. Y.
Carswell Air Force Base, Fort Worth, Tex.
Cattaraugus County Home, Machias, N. Y. (SC)
Chemung County Airport Administration Building, Horseheads, New York
Chemung County Welfare Bldg., Elmira, N. Y.
Chesapeake & Potomac Telephone Co., Baltimore, Md.
Chevrolet Motor Division, General Motors Corp., Kansas City, Missouri (L)
Children's Hospital, Buffalo, N. Y.
Chrysler Corporation, Kokomo, Ind.
Claghorn School, Philadelphia, Penna. (SC)
Commerce Building, Harrisburg, Penna.
Community Service Bldg., Dayton, Ohio
Connecticut State Hospital, Middletown, Conn.
Continental Aviation & Engineering Corp., Detroit, Mich.
Continental Foundry & Machine Co., Erie, Penna.
Cooper-Bessemer Corp., Mt. Vernon, Ohio
Crowley Milk Co., Inc., Binghamton, N. Y.
Crucible Steel Company, Syracuse, N. Y.
Dayton Daily News, Dayton, Ohio
Eastman Kodak Co., Rochester, N. Y.
Eaton Manufacturing Co., Marion, Ohio
Editors Building, Washington, D. C.
Elliott Company, Jeannette, Penna.
Ephrata Office Building, Ephrata, Wash.
Eriez Manufacturing Co., Erie, Penna.
Ex-Cell-O Corporation, Detroit, Mich.
Flint Municipal Center, Flint, Mich.
Florida Power Corp., Avon Park, Fla.
Ford Motor Company, Livonia, Mich.
Ford Motor Company, Memphis, Tenn.
Ford Motor Company, Natick, Mass.
Ford Motor Company, Richmond, Va.
Ford Motor Company, Teterboro, N. J.
Frankford Arsenal, Philadelphia, Pa.
Frederick Douglas Public School Philadelphia, Penna. (SC)
Gary Municipal Building, Gary, Ind.
General Accounting Office Bldg., Washington, D. C.
General Electric Co., Erie, Penna.
General Motors Corp., Ternstedt Division, Detroit, Mich.
Geo-Physics Lab., Bedford, Mass.
Gulf Research & Development Co., Harmarville, Penna.
Hagan Chemicals & Controls, Inc., Allegheny City, Penna.
Hartford Research Center, Middletown, Conn.
Hays Manufacturing Co., Erie, Penna.
Home Beneficial Life Insurance Co., Richmond, Va.
Hydro-Electric Power Commission, Toronto, Can.
I.B.M., Mobile, Ala.
Illinois Bell Telephone Co., Chicago, Ill.
Inland Steel Co., Indiana Harbor, Ind.
Jamaica Health Center, Queens, N. Y.
Johns Hopkins Hospital, Baltimore, Md.
Kaiser Aluminum & Chemical Corp., Halethorpe, Md.
Kent-Moore, Inc., Centerline, Mich.
Kings County Hospital, New York, N. Y.
Kopper Co., Inc., Baltimore, Md.
Lackland Air Force Base Hospital, Cadet, Tex.
Lau Blower Co., Dayton, Ohio
Lewis Cass Building, Lansing Mich.
Liberty Mutual Insurance Company, Boston, Mass.
Libbey-Owens-Ford Glass Co., Toledo, Ohio
Lincoln Building, New York, N. Y.
Lincoln-Mercury Assembly Plant, Metuchen, N. J.
Linde Air Products, Inc., Tonawanda, N. Y.
McDonnell Aircraft Corp., Hazelwood, Mo.
McDowell Co., Cleveland, Ohio
Marlin-Rockwell Corp., Jamestown, N. Y.
Maumee-Milan Consolidated High School, Woodburn, Ind.
Melpar, Inc., Fairfax County, Va.
Mercury Assembly Plant, Wayne, Mich.
Methodist Hospital, Philadelphia, Penna. (SC)
Metropolitan Utilities District, Omaha, Neb.
Michigan Bell Telephone Company, Wyandotte, Mich.
Missouri Pacific Lines, Palestine, Tex.
Monsanto Chemical Co., Miamisburg, Ohio
Morton Medical Research Bldg., Chicago, Ill.
Municipal Airport, Charlotte, N. C.
Muskegon County Courthouse & Jail, Muskegon, Michigan (L)
N.A.R.T.S. Hangar, Buckley Field, Colo.
National Aniline Division, Buffalo, N. Y.
National Cash Register Co., Dayton, Ohio
National Forge & Ordnance Co., Irvine, Penna.
National Housing Center, Washington, D. C.
National Institute of Health Building 13, Bethesda, Maryland (L)
National Old Line Life Insurance Company, Little Rock, Ark.
Naval Electronic Supply Office, Great Lakes, Ill.
Naval Land Plane Hangar, Guantanamo, Cuba
Niagara-Mohawk Power Corp., Buffalo, N. Y.
New England Tel. & Tel. Co., Worcester, Mass.
New York & Pennsylvania Co., Lock Haven, Penna.
New York State Thruway Authority, E. Syracuse, N. Y.
New York Telephone Co., Albany, New York
New York Telephone Co., Menands, N. Y.
New York Telephone Co., Newburgh, N. Y.
New York Telephone Co., Poughkeepsie, N. Y.
New York Telephone Co., Utica, N. Y.
Ohio Brass Company, Barberton, Ohio
Ohio Oil Company, Findlay, Ohio
Onondaga County Office Bldg., Syracuse, N. Y.
Owens Corning Fibre Glass, Toledo, Ohio
Pennsylvania Railroad Co., Pittsburgh, Penna.
Piper Aircraft Corporation, Vero Beach, Florida (L)
Procter & Gamble Manufacturing Co., Chicago, Ill.
Prospect Point Observation Tower, Niagara Falls, New York (L)
Quaker Oats Company, Barrington, Ill.
Railway Express Agency, Inc., New York, N. Y.
Raymond Manufacturing Co., Corry, Penna.
Rea Magnet Wire Co., Lafayette, Ind.
Republic Light, Heat & Power Co., Buffalo, N. Y.
Revere Copper, Brass, Inc., Baltimore, Md.
Rich's, Inc., Knoxville, Tenn.
San Juan Power Plant, San Juan, Puerto Rico
Schluderberg-Kurdle Co., Baltimore, Md.
Schuler Foods, Inc., Rochester, N. Y.
Schwayder Bros., Ecorse, Mich.
74th Street Power Station, New York, N. Y.
Shell Oil Company, Denver, Colo.
Sheppard-Pratt Hospital, Baltimore, Md. (SC)
Sinclair Oil Building, Tulsa, Okla.
Singer Manufacturing Co., The, Bridgeport, Conn.
Smokey Hill Air Force Base, Salina, Kans.
Spring Perch Co., Buffalo, N. Y.
St, Elizabeth Hospital, Brighton, Mass. (SC)
St. Joseph's Hospital, Logansport, Indiana
St. John's Hospital, Cleveland, Ohio (SC)
Stackpole Carbon Co., St. Marys, Penna.
Standard Oil Co., Lima, Ohio
State Farm Colony, Austin, Tex.
State Office Building, Escanaba, Mich.
Stevens T. Mason Bldg., Lansing, Mich.
Syracuse University, Syracuse, N. Y.
Thomas Holme Public School, Philadelphia, Penna. (SC)
Toledo Museum of Art, Toledo, Ohio
Trico Products Corp., Buffalo, N. Y.
Tulsa County Court House, Tulsa, Okla.
T.V.A., Chattanooga, Tenn.
Union Carbide & Carbon Corp., Detroit, Mich.
Universal-Cyclops Steel Corp., Titusville, Penna.
University of Florida, Teaching Hospital, Gainesville, Florida
University of North Carolina, Chapel Hill, N. C.
Upper Darby High School, Upper Darby, Penna. (SC)
Upper East Tennessee Mental Health Facilities, Greenville, Tennessee
U.S.A.E.C., Savannah River Plant, S.C.
U.S.A.F. Air Defense Lab., Lexington, Mass.
U.S. Air Force Base, Rapid City, S. Dak.
U. S. Geological Survey Bldg., Menlo Park, Calif.
U. S. Military Academy, West Point, N. Y.
U. S. Naval Air Station, Norfolk, Va.
U. S. Naval Gun Factory, Washington, D. C.
U. S. Naval Out-Patient Clinic, Norfolk, Va.
U. S. Rubber Co., Fort Wayne, Ind.
U. S. Steel Corp., Braddock, Penna.
Veeder-Root, Inc., Altoona, Penna.
Virginia Electric & Power Co., Hampton, Va.
Washtenaw County Building, Ann Arbor, Mich.
West Penn Power Co., Greensburg, Penna.
Western Electric Company, Dallas, Tex.
White Sewing Machine Company, Cleveland, Ohio
Wichita Municipal Airport, Wichita, Kans.
Wooster Rubber Company, Wooster, Ohio
Worthington Corporation, Decatur, Ala.
Yellow Cab Company, Pittsburgh, Penna.

sales representatives in principal cities

ALABAMA
Mobile
Shearer & Rayford
2504 Old Shell Road
Phone: GR 9-4581
ARKANSAS
Little Rock
John F. Brett & Co.
315 West Markham St.
Phone: FRanklin 5-4928
CALIFORNIA
San Francisco 3
R. A. Parker Co.
250 Seventy St.
Phone: Underhill 1-4612
DELAWARE
Wilmington 99
Robert F. Ingham Associates
P. O. Box 1689
Phone: OLympia 4-3129
DISTRICT OF COLUMBIA
Washington 6
Graham & Van Leer Company
810 18th Street N. W.
Phone: STerling 3-4411
FLORIDA
Palm Beach
Kader Building Specialties
322 Royal Palm Way
Phone: TEmpo 3-1832
GEORGIA
Atlanta 19
Gilsteel Distributing Co.
2720 Apple Valley Road
Phone: CEdar 36-779
ILLINOIS
Chicago 6
Walter W. Mitchell Co., Inc.
549 West Randolph St.
Phone: CEntral 6-3085
INDIANA
Fort Wayne 2
Moss Engineering Corp.
409 Standard Bldg.
Phone: Anthony 7151
Hammond
Standard Equipment & Supply Corp.
5020 Hohman St.
Phone: WE 1-3060
Indianapolis 1
Barrison & Clarke, Inc.
2926 E. Washington St.
Phone: Melrose 2-9388
KANSAS
Mission (Kansas City)
Claude Cooke Co., Inc.
5805 Reeds Road
Phone: Randolph 2-7175
KENTUCKY
Louisville 11
Atlas Plaster & Supply Co., Inc.
30th and Greenwood
Phone: Spring 6-4621
LOUISIANA
Shreveport
E. L. Burns & Co.
P. O. Box 9166
Phone: 6-2723
MAINE
Auburn
The Bader Company, Inc.
430 Turner St.
Phone: Lewiston 2-9733
MARYLAND
Baltimore 11
Consolidated Supply Co., Inc.
2800 Sisson St.
Phone: HOpkins 7-6108
MASSACHUSETTS—RHODE ISLAND—CONNECTICUT
Cambridge 41 (Boston)
The Parker Co., Inc.
99 First Street
Phone: KIrkland 7-3800
MICHIGAN
Detroit 1
O. C. Witte Company
1003 Donovan Building
Phone: WOodward 2-1001
Grand Rapids
Steele Bros. & Todd
1050 Cottage Grove S. E.
Phone: CH 5-0416
MISSISSIPPI
Jackson
Clarke Building Material Co.
316-217 First Federal Bldg. & Loan Annex
Phone: 2-1192
MISSOURI
St. Louis 22
Howard F. Willis Co.
P. O. Box 3818, Kirkwood Station
Phone: YOrktown 6-3555
MONTANA
Billings
Intermountain Const. Supply Co., Inc.
P. O. Box 982
Phone:
NEBRASKA
Omaha 8
Lumbermen's Brick & Supply Co.
900 South 15th St.
Phone: ATlantic 5160
NEW HAMPSHIRE
Concord
The Bader Company, Inc.
Rte 8, Beck Road
Phone: Cantebury—Story 3-6881
NEW MEXICO
Albuquerque
Navajo Supply Co.
303 Coors Blvd. S. W.
Phone: CHapel 7-8737
NEW YORK
Binghamton
LeValley McLeod, Inc.
358 Water Street
Phone: Raymond 24261
Buffalo 23
Bronsteel Products Corp.
1965 Sheridan Drive
Phone: BEdford 7890
Elmira
LeValley McLeod, Inc.
215-221 E. Church St.
Phone: Regent 4-6163
Glens Falls (Albany)
Glen Falls Commercial Sales
64 Kensington Road
Phone: 2-4935
New York City 7
R. L. Hanson, Inc.
30 Church St.
Phone: WOrth 4-3881
Olean
Olean Standard Equip. Co., Inc.
1606 W. State St.
Phone: 2-6820
Rochester 8
Carberry Building Specialties
135 Spring St.
Phone: BAker 5-2944
Syracuse 5
B. R. Johnson & Son, Inc.
5900 S. Salina St.
Phone: HOward 9-3244
Watertown
B. R. Johnson & Son, Inc.
127 N. Indiana St.
Phone: Sunset 2-1320
NORTH CAROLINA
Charlotte
Aubrey L. Simpson Co.
P. O. Box 1672
Phone: EDison 3-2486
OHIO
Cincinnati 3
Tom Ragouzis Co.
N. 207 Cincinnati Union Terminal
Phone: Maine 1-6150
Cleveland 15
Hume Sales, Inc.
1900 Euclid Ave.
Phone: CHerry 1-6668
Columbus
James F. Kirby
203 W. 3rd St.
Phone: AXminister 1-2400
Dayton
Seitz & George Office Equipment Co.
114 North St. Clair Street
Phone: BA 4-5658
Toledo
The George J. Haase Co.
1118 Madison Ave.
Phone: CHerry 3-7129
OKLAHOMA
Oklahoma City 18
Bissell Builders Supply Co.
3011 Paseo Bldg.
Phone: JA 5-6616
Tulsa 1
Bissell Builders Supply Co.
1805 Haskell Place
Phone: CHerry 2-8204
PENNSYLVANIA
Erie
George H. Kraft Associates
532 Maryland Drive
Phone: CL-52648
Lemoyne (Harrisburg)
Mason-Norton Co.
310 South Tenth St.
Phone: Hbg. REgent 7-4558
Philadelphia 2
James A. Clancy & Co.
4 South 15th St.
Phone: LOcust 7-2414
Pittsburgh 22
F. T. Haigh
1119 Empire Bldg. Room 1119
Phone: ATlantic 1-1814
SOUTH CAROLINA
Greenville
J. Edgeworth Beattie
204 Masonic Temple
Phone: CE 3-1721
TENNESSEE
Knoxville 2
Wm. S. Trimble Co., Inc.
622 Atchley St.
Phone: 5-2133
Nashville 22
Boyd Jacoway
P. O. Box 6151
Phone: CY 7-1348
TEXAS
Amarillo
Jenkins Brick & Supply Co.
820 West Sixth Ave.
Phone: DR 2-4336
Austin 1
R. A. Gilbert Co., Inc.
Perry-Brooks Bldg.
Phone: GReenwood 6-6229
Dallas 35
Volkmer & Kratz
6638 Maple Ave.
Phone: FL-6466
Fort Worth 1
Ray F. Holmes Co.
1628 Rogers Road
Phone: EDison 6-4073
Houston 6
Acme Bldg. Specialties, Inc.
1500 California St.
Phone: JAckson 3-5266
VERMONT
Burlington
The Bader Company, Inc.
699 Pine Street
Phone: UNiversity 3-3510
VIRGINIA
Norfolk 8
Lewis & Sales, Inc.
1073 W. 38th St.
Phone: MAdison 7-9091
Roanoke
Roanoke Engineering Sales Co.
2201 Franklin Road
Phone: DIamont 5-8119
WISCONSIN
Wauwatosa 13 (Milwaukee)
Wauwatosa Fuel & Supply Co.
Phone: BLuemound 8-7700
FOREIGN REPRESENTATIVE
Toronto, Canada
Bennett Equipment & Supply Ltd.
Terminal Building
Phone: EMpire 4-9520

Printed in U.S.A.

Steel Partitions INC. OF JAMESTOWN, N.Y.

22a
Tr

A.I.A. File No. 35H-6

Triangle

movable wood partitions

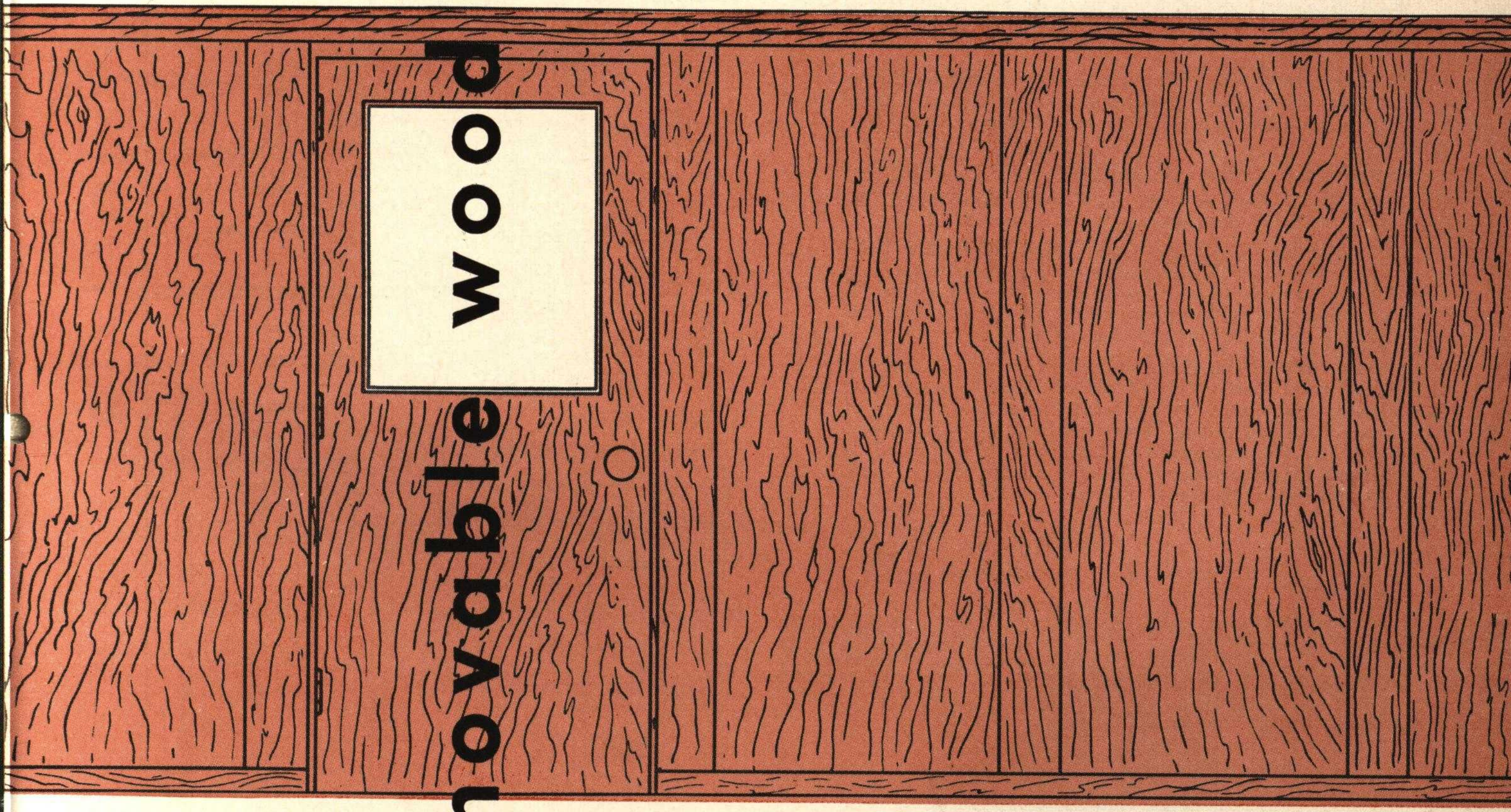
(Patent Applied For)

Beauty and Warmth Inherent with WOOD

Architecturally Designed

for Flexibility of Style

yet Standardized for Economy



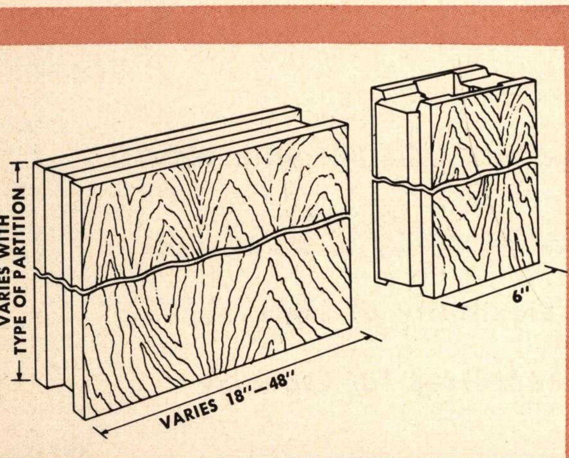
TRIANGLE and Millwork Supply Corp.

Triangle MILLWORK & SUPPLY CORP.
5 ENDICOTT AVENUE • JOHNSON CITY, NEW YORK
Architectural Millwork

Quality Craftsmanship
AWI
ARCHITECTURAL WOODWORK INSTITUTE

movable wood partitions

with the warmth and beauty of natural wood


VARIES WITH TYPE OF PARTITION
6"
VARIES 18"—48"

NOW! MOVABLE WOOD PARTITIONS

Architecturally Designed **and at NEW LOW PRICES**

ECONOMICAL: Best of All! You can have Design Flexibility, Simplified Erection, adequate Wire Chases, the Beauty and Warmth of REAL WOOD with a modern flush appearance and with a durable Super Smooth Finish *at even lower prices than the usual office partitions of steel or wood.*

DESIGN FLEXIBILITY: Simplicity of design and unit manufacture (Base, Door, Panel and Cornice or Cap Units) offer a flexibility of Style, Type and Woods to fit all *your* needs.

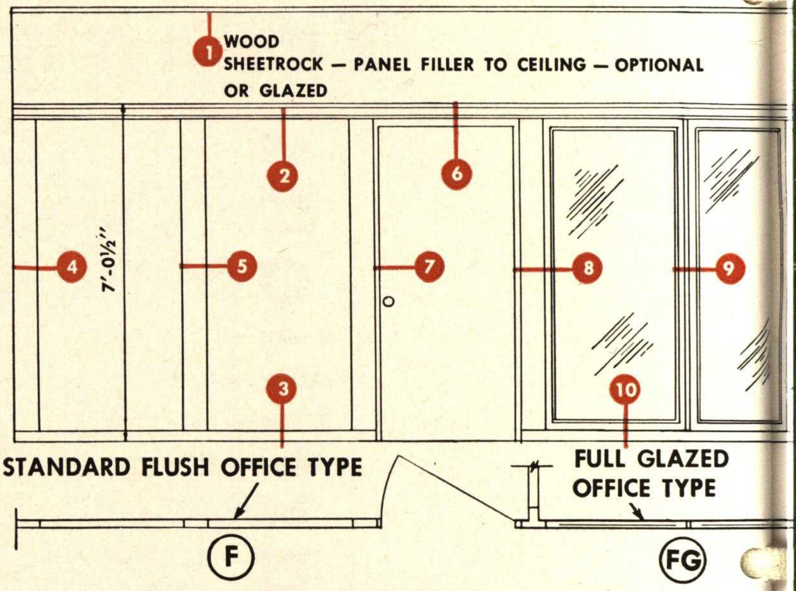
SIMPLIFIED ERECTION: Triangle Partitions require no special tools to erect and can be quickly relocated by the *average maintenance man.*

WIRE CHASES: All 4 Types (Std. Office, Full Glazed, Bank and Low Rail Type) have two separate wire chases. Access to wire chases is available at all times thru the use of removable covers held in place with concealed fasteners and a unique method of interlocking joints.

WOOD FINISH: The Natural, Stained or Painted Factory Finish has a simulated hand rubbed, durable beauty that is easily maintained on any of the numerous species of woods that are available. This rich, luxurious smoothness, which also accentuates the natural beauty of the wood, is obtained by presealing all Doors & Panels with the new patented Super Microseal Process.

SUPER SATIN SURFACE
(Pat.—General Plywood Corp.)

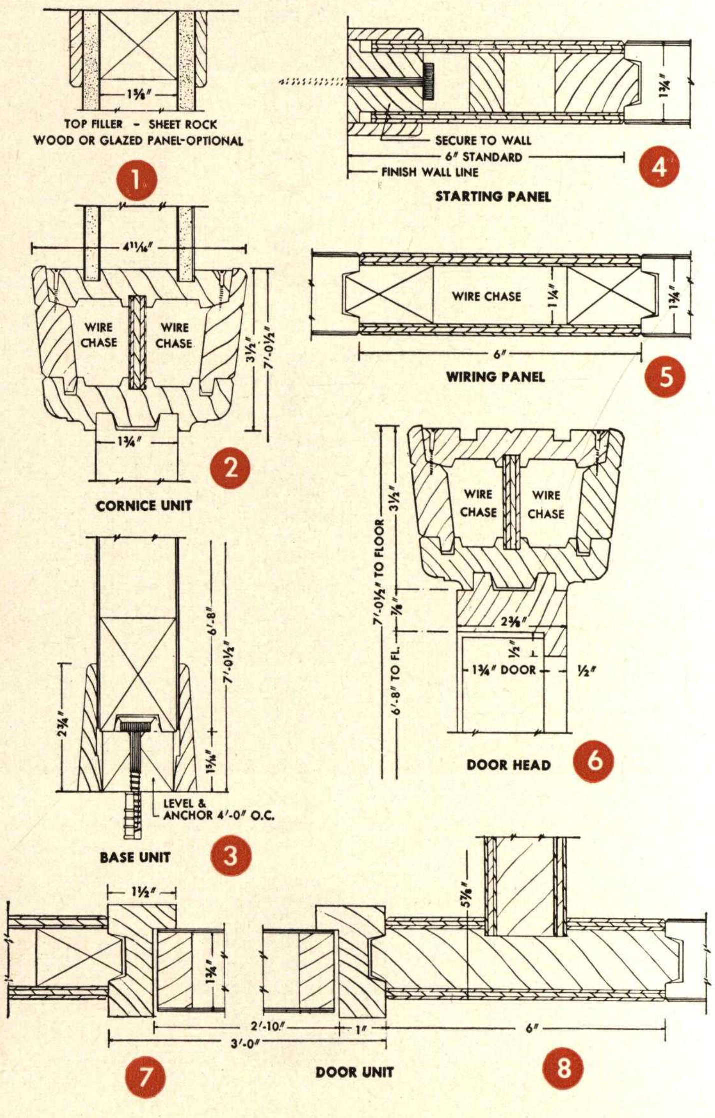
ELEVATION AND PLAN SCALE: ¼" = 1'0"


1
WOOD
SHEETROCK — PANEL FILLER TO CEILING — OPTIONAL
OR GLAZED
2
6
7'-0½"
4
5
7
8
9
3
10
STANDARD FLUSH OFFICE TYPE
FULL GLAZED
OFFICE TYPE
F
FG

suggested floor plan symbols:

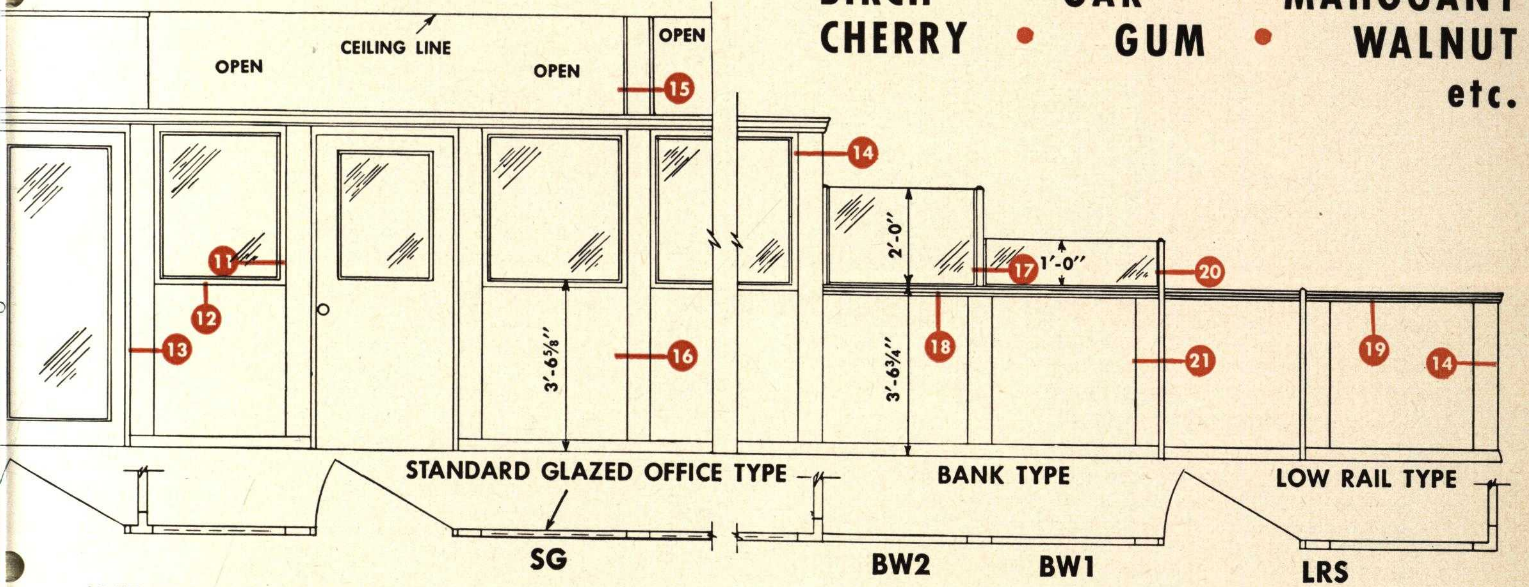
Standard FLUSH Office Type	F
Standard FULL GLAZED Type	FG
Standard GLAZED Office Type	SG

DETAILS SCALE: 3" = 1'0"


1⅜"
TOP FILLER - SHEET ROCK
WOOD OR GLAZED PANEL-OPTIONAL
1
1¾"
SECURE TO WALL
6" STANDARD
FINISH WALL LINE
4
STARTING PANEL
4 11/16"
WIRE CHASE
WIRE CHASE
3½"
7'-0½"
1¾"
2
CORNICE UNIT
WIRE CHASE
1¼"
1¾"
6"
WIRING PANEL
5
WIRE CHASE
WIRE CHASE
7'-0½" TO FLOOR
3½"
⅞"
2⅜"
½"
1¾" DOOR
½"
6'-8" TO FL.
DOOR HEAD
6
6'-8"
7'-0½"
2¾"
1⅝"
LEVEL & ANCHOR 4'-0" O.C.
BASE UNIT
3
1½"
1¾"
2'-10"
1"
3'-0"
5⅞"
6"
7
DOOR UNIT
8

Your choice of many beautiful woods:

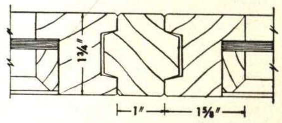
BIRCH • OAK • MAHOGANY
CHERRY • GUM • WALNUT
etc.


CEILING LINE
OPEN
OPEN
OPEN
15
14
11
12
13
16
3'-6⅝"
2'-0"
1'-0"
17
20
18
3'-6¾"
21
19
14
STANDARD GLAZED OFFICE TYPE
BANK TYPE
LOW RAIL TYPE
SG
BW2
BW1
LRS

if filler to ceiling is desired—draw type letters in the following appropriate symbols:

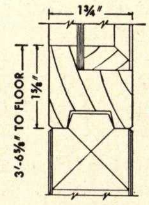
Sheetrock on Studs . . . . ○
Matching Wood Panels . . . . ⬡
Glazed Panels . . . . ▭

BANK Type SOLID Cap 2' Glass	BS2
BANK Type SOLID Cap 1' Glass	BS1
BANK Type WIRE Cap 2' Glass	BW2
BANK Type WIRE Cap 1' Glass	BW1
LOW RAIL Type SOLID Cap	LRS
LOW RAIL Type WIRE Cap	LRW



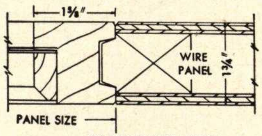
9

FULL GLAZED MULLION


1¾"
1⅝"
3'-6⅝" TO FLOOR

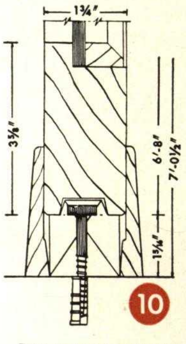
12

GLASS PANEL BOTTOM RAIL


1⅝"
WIRE PANEL
1¾"
PANEL SIZE

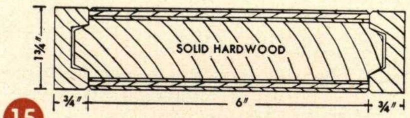
11

GLASS PANEL STILE


1¾"
3⅞"
6'-8"
7'-0½"
1⅝"

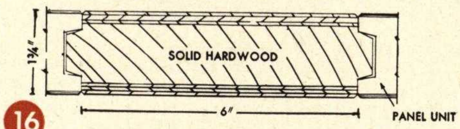
10

FULL GLAZED BASE UNIT


1¾"
SOLID HARDWOOD
¾"
6"
¾"

15

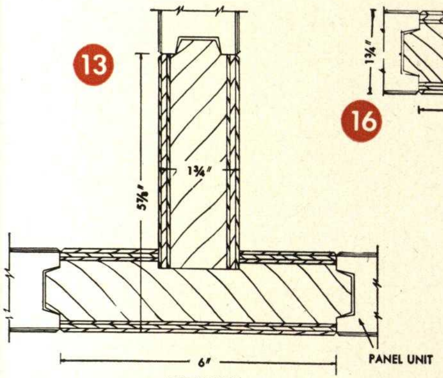
STRUT ABOVE CORNICE


1¾"
SOLID HARDWOOD
6"
PANEL UNIT

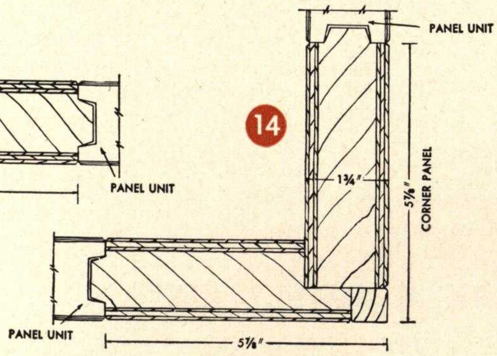
16

STRUT PANEL

13

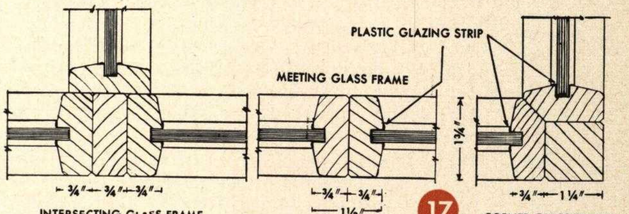

1¾"
5⅞"
6"
PANEL UNIT

TEE PANEL


PANEL UNIT
1¾"
5⅞"
CORNER PANEL
PANEL UNIT
5⅞"

14

CORNER PANEL

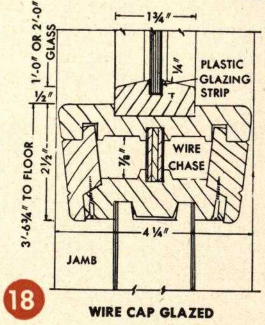

PLASTIC GLAZING STRIP
MEETING GLASS FRAME
¾"
¾"
¾"
¾"
¾"
1½"
1¾"
1¾"
¾"
1¼"

INTERSECTING GLASS FRAME

FRAMED GLASS PANEL

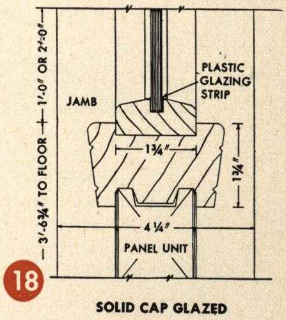
17

CORNER GLASS FRAME


1¾"
1'-0" OR 2'-0" GLASS
¼"
PLASTIC GLAZING STRIP
½"
2½"
⅞"
WIRE CHASE
3'-6¾" TO FLOOR
4¼"
JAMB

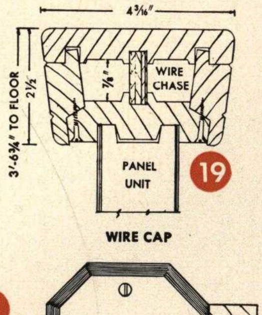
18

WIRE CAP GLAZED


JAMB
PLASTIC GLAZING STRIP
1'-0" OR 2'-0"
1¾"
1¾"
3'-6¾" TO FLOOR
4¼"
PANEL UNIT

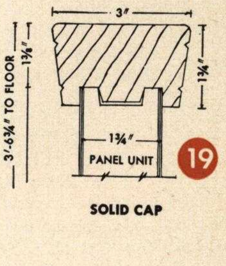
18

SOLID CAP GLAZED


4³⁄₁₆"
2½"
⅞"
WIRE CHASE
3'-6¾" TO FLOOR
PANEL UNIT

19

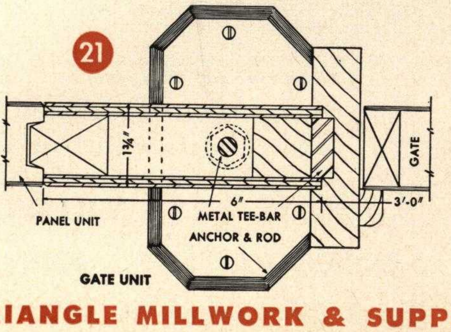
WIRE CAP


3"
1¾"
1¾"
3'-6¾" TO FLOOR
1¾"
PANEL UNIT

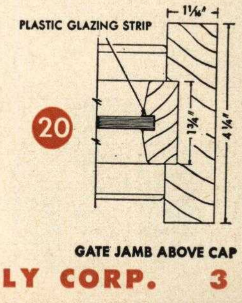
19

SOLID CAP

21


1¾"
GATE
6"
3'-0"
PANEL UNIT
METAL TEE-BAR ANCHOR & ROD

GATE UNIT


PLASTIC GLAZING STRIP
1⅛"
1¾"
4¼"

20

GATE JAMB ABOVE CAP

movable wood partitions

specifications

1. GENERAL

Furnish and erect complete Triangle Standard Office Type, Full Glazed Type, Bank Type, or Low-Rail Type (select types desired) Movable Partitions of wood as manufactured by Triangle Millwork & Supply Corp., Johnson City, N.Y. as required by plans and/or elevation layout.

2. SHOP DRAWINGS

Shop Drawings showing plan, typical elevations, special construction and installation details shall be submitted for approval.

3. WORKMANSHIP

Partitions shall be rigid, plumb, level and with all connections concealed. All hardware shall be in proper working condition. Partitions shall be manufactured by skilled craftsmen with close tolerances at all joints, shall be properly sanded and factory finished. Partitions shall be erected in good workmanlike manner.

4. STANDARD OFFICE TYPE PARTITIONS

Standard Office Type Partitions shall be flush veneered wood panels, 1¾″ thick 7′ 0½″ high (or with glazed panels) consisting of:

a. **BASE UNITS**—to consist of one center anchoring member and two exposed members of matching wood. Center anchoring member to be levelled, secured to the floor and shall provide a tongue for interlocking with all vertical units.

b. **CORNICE UNITS**—shall be of matching wood to run continuous over and interlocking with vertical panels to provide maximum rigidity. Twin raceways of approximately 2½ sq. in. each shall be provided in the Cornice Units to receive electrical and communication wiring. Raceways shall have removable sides interlocked with concealed fastening, thus providing complete accessibility for future wire changes. Cornice Units shall be rigid to support curtain walls or filler panels above the standard 7′ 0½″ height to the ceiling, if required.

c. **DOOR UNITS**—shall consist of a matching Institutional type flush 1¾″ door, factory hung into an interlocking matching wood frame with #241-FC 4 x 4 butts (1½ pr.) and standard with #310 latch set. (Locksets and/or Semi-concealed closers are available at additional cost.)

d. **PANEL UNITS**—shall be interlocking 1¾″ thick, flush varying from 18″ minimum to 48″ maximum width. They shall have standard thickness face veneers of 3-ply balanced panels bonded under heat and pressure by hot plate method over a core to assure a smooth, flat surface free of waves or dents.

e. **VERTICAL WIRING PANELS**—shall be interlocking and flush with matching face veneers. Wiring chase to be 3 sq. in. running full length of the wiring panel to accommodate wiring systems and their receptacles.

f. **STARTING PANELS**—shall be similar in construction to Wiring Panels and provided with anchoring device to effect attachment to permanent walls.

g. **CORNER PANELS**—shall be interlocking flush with matching face veneers and solid wood corner nosing.

h. **TEE PANELS**—shall be similar in construction to Corner Panels and shall be interlocking at all joints.

i. **CROSS PANELS**—shall be similar in construction to Corner Panels and shall be interlocking at all joints.

j. **STRUT PANELS**—shall be installed in otherwise unsupported partition runs of 14′ 6″ and multiples thereof to provide a rigid installation. Strut Panels shall be of solid hardwood core with hardwood edges and face veneers to match and shall have interlocking joints.

5. FULL GLAZED TYPE PARTITIONS

Full Glazed Type Partitions shall be identical with Standard Office Type utilizing the same units except the Panel Unit. The Full Glass Panel Unit shall be a matching, solid, mortised and tennoned frame of narrow stiles and rails for maximum glass opening, interlocked with the standard wiring panels or a slimline 1″ solid mullion. Glass may be ¼″ plate, patterned or corrugated and is secured with wood glazing beads.

6. BANK TYPE PARTITIONS

Bank Type Partitions shall be of flush veneered wood panels, 1¾″ thick 3′ 7″ high to top of cap unit with (12″ or 24″ high) glass panels added above cap and shall consist of:

a. **BASE UNITS**—(Use No. 4a specs. above.)

b. **CAP UNITS**—(select one or both of following:)

WIRING CAP UNITS—shall be of matching wood to run continuous over vertical panels and interlock with same to provide maximum rigidity. *Twin* raceways of approximately 1 sq. in. each shall be provided in the cap units to receive electrical and communication wiring. Raceways shall have removable sides interlocked with concealed fastening, thus providing complete accessibility for future wire changes. The cap shall be fitted to receive and support the Framed Glass Panels.

SOLID CAP UNITS—shall be of matching wood to run continuous, except at gate openings, over and interlocking with vertical panels to provide maximum rigidity. The cap shall be fitted to receive and support the Framed Glass Panels.

c. **GATE UNITS**—(select one or both of following:)

UNGLAZED GATE UNITS—shall consist of gate, jambs and hardware. Gate shall be flush panel type construction of matching woodfaces and edges together with a Solid Type Cap of matching wood. 1⅛″ thick solid jambs of matching wood shall be securely attached to the partitions. Hardware to consist of 1 pair, #241 F. C., 4 x 4, mortise butts (Self-Closing Hinges, #11½ M-US3, are available if desired, at an additional cost) and RB 656-US3 Secret Gate Catch, mill fitted and installed.

GLAZED GATE UNITS—shall include a complete Unglazed Gate Unit and a Framed Glass Panel, matching those in the partitions, rigidly mounted on top of gate and securely attached between solid wood extension stiles.

d. **PANEL UNITS**—(Use No. 4d specs. above)

e. **VERTICAL WIRING PANELS**—(Use No. 4e specs. above)

f. **STARTING PANELS**—(Use No. 4f specs. above)

g. **CORNER PANELS**—(Use No. 4g specs. above)

h. **TEE PANEL UNITS**—(Use No. 4h specs. above)

i. **CROSS PANEL UNITS**—(Use No. 4i specs. above)

j. **T-BAR ANCHORS**—shall be installed at gate units and/or in otherwise unsupported runs of 14′ 6″ and multiples thereof. T-Bar anchors to consist of ½″ thick steel bar 3 ft. high, concealed within and fastened to the partition and welded to ⅜″ thick steel floor plate of not less than 18 sq. in. bearing surface, securely anchored to the floor.

k. **FRAMED GLASS PANELS**—shall consist of matching wood frame, plastic glazing strip and glass. The wood frame shall be open top, ploughed 3 sides to receive the plastic glazing strip and glass, and shall be rigidly mounted on the Cap Units. Each frame shall be securely connected to the adjoining Framed Glass Panels, corners or intersecting panels. The plastic glazing strip shall be neatly fitted into the ploughed frame for rattle-free installation of the glass which shall be clear flat drawn, or "Pluralite" obscure, as required, with seamed top edges and set firmly into the plastic glazing strips.

7. LOW-RAIL TYPE PARTITIONS

Low-Rail Type Partitions shall be of flush veneered wood panels, 1¾″ thick, 3′ 7″ to top of Cap Units and shall consist of:

(insert paragraphs 6a through 6j under specifications for Bank Type Partitions above *but delete all references to glazing.)*

8. FINISH

All doors, Panels, and Trim Units shall have standard factory rubbed finish, natural or stained or painted. All doors and panels shall be presealed with the new Super Micro-Seal Surface Process* (Pat.—G.P.C.) for permanent easily maintained smoothness.

Note: Triangle Millwork & Supply Corp. reserves the right to change specifications and details at any time and without notice.

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* "Super Satin Surface" and "Triple S" or "SSS" are trademarks owned by GPC (General Plywood Corporation) and used by GPC and licensees on products having a Super sealed or Super Micro-sealed surface that satisfies the quality standards established by GPC.

For your nearest Triangle Representative write or phone.

Some choice territories still available to qualified manufacturer's agents.

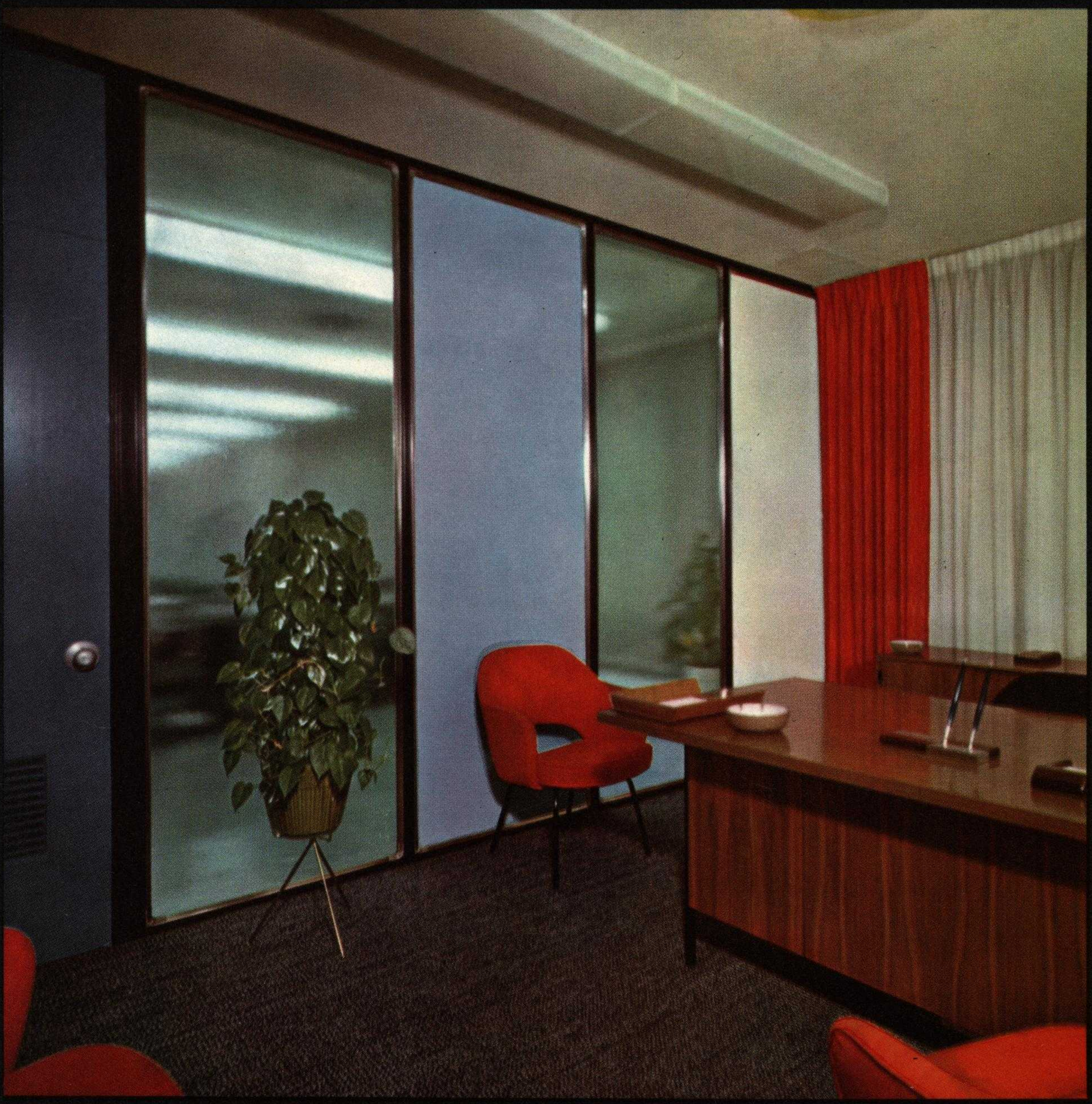
Triangle MILLWORK & SUPPLY CORP.
5 ENDICOTT AVENUE • JOHNSON CITY, NEW YORK
Phone: Binghamton RA-9-2231

Architectural Millwork

A.I.A. FILE NO. 35-H-6

COLORLINE®
PARTITIONS

22a
Ui



IBM Branch Office, Chicago, Illinois / Nicol and Nicol, Architects and Engineers

CATALOG NO. 904

AFFILIATED WITH THE AMERICAN INSTITUTE OF ARCHITECTS
THE PRODUCERS' COUNCIL

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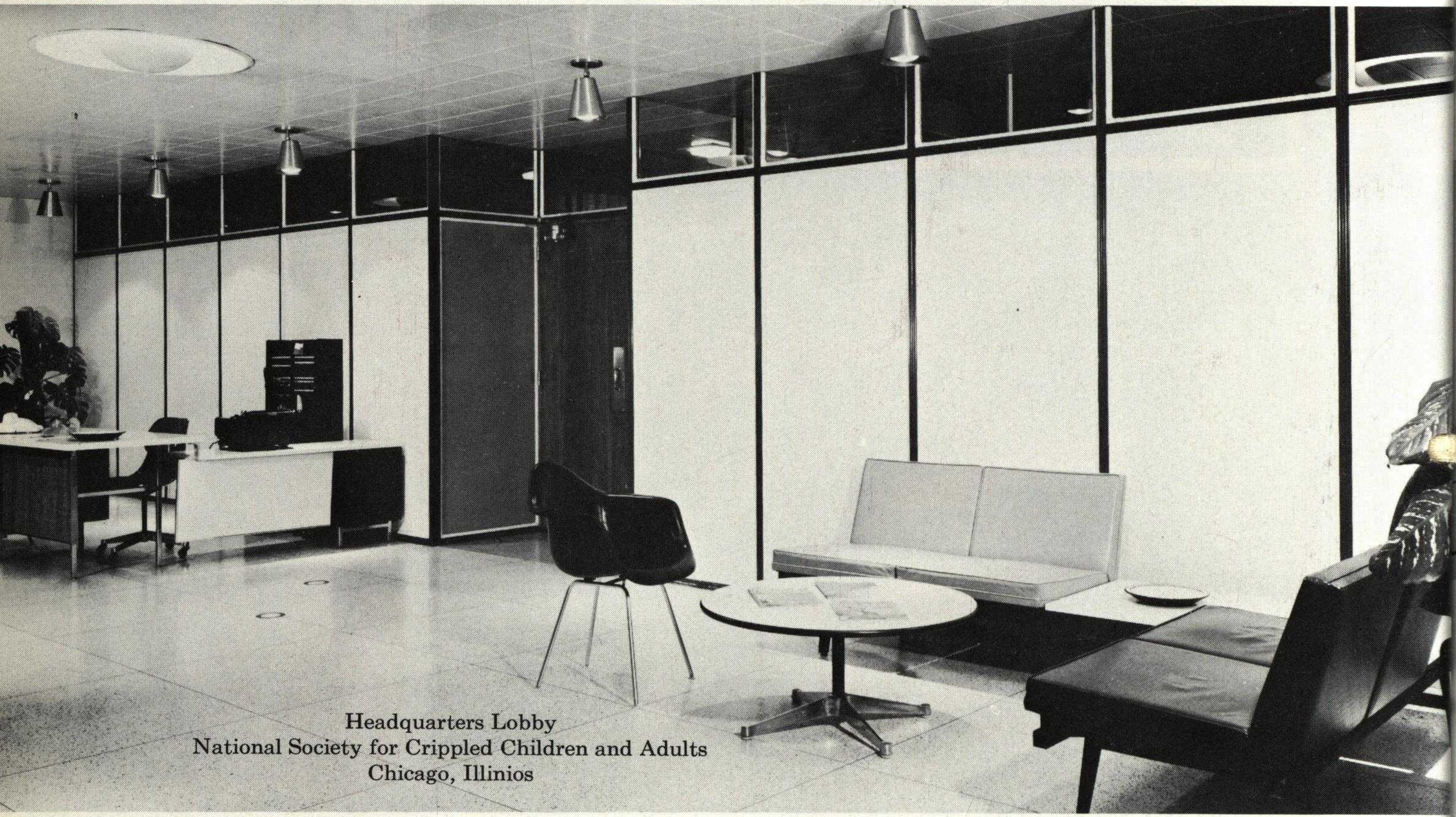
COLORLINE® movable partitions



Headquarters Lobby
National Society for Crippled Children and Adults
Chicago, Illinios

COLORLINE PARTITIONING
gives unlimited freedom of design

COLORLINE partitions have made possible a new vogue in space dividing. Architects and designers are turning out attractive, colorful, low cost modern partitions with UNISTRUT® framing, which gives them unlimited freedom of design, colors, textures and patterns. It also meets today's need for a permanent or movable wall that can be erected, dismantled, and re-erected with minimum time and labor, and with complete salvage of materials. Also sound-retarding and strong but not bulky.

Long used and proved in thousands of applications as a versatile, quick-erected system of mechanical supports, UNISTRUT adjustable metal framing now brings you the same advantages you can use to erect all types of partitions, using simple tools, stock UNISTRUT parts, standard or special paneling materials and glass, from ⅛″ to ½″ thick.

Sold through "UNISTRUT" Distributors

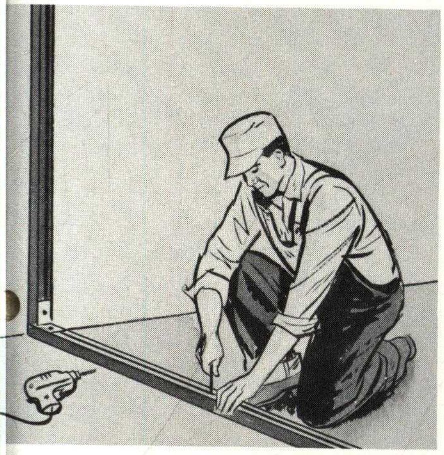
All UNISTRUT materials are obtainable through your nearest UNISTRUT Distributor who maintains a complete stock. There are no delays in getting materials at any stage of the job—no waiting for extra parts "from the factory."

Your UNISTRUT Distributor is listed in your local telephone directory.

UNISTRUT PRODUCTS COMPANY • 933 W. Washington Boulevard
Chicago 7, Illinois • MOnroe 6-2665 • Teletype CG 1329

THE SYSTEM

The ColorLine system by very nature of its simplicity and flexibility, allows freedom of design.

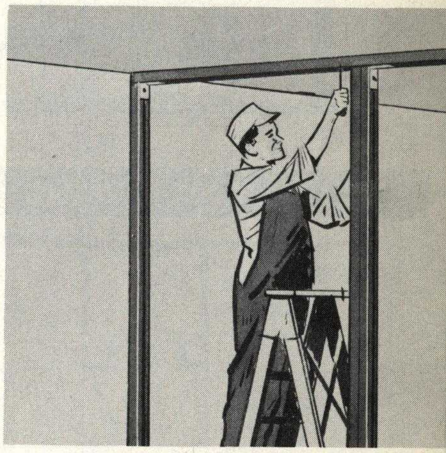


1. Fasten the floor channel wherever you wish your partitioning to run.

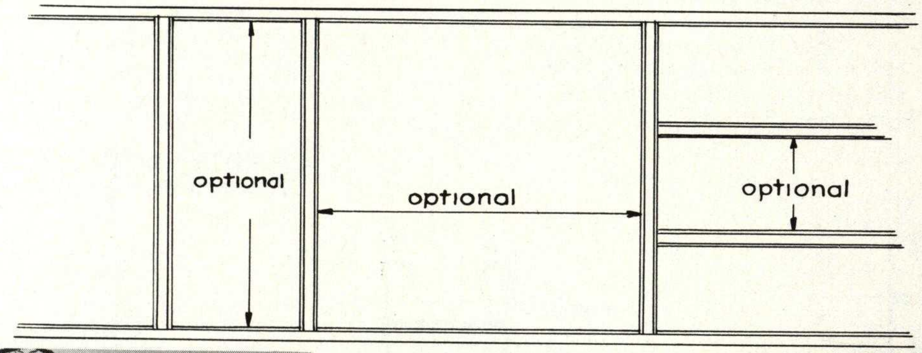
←

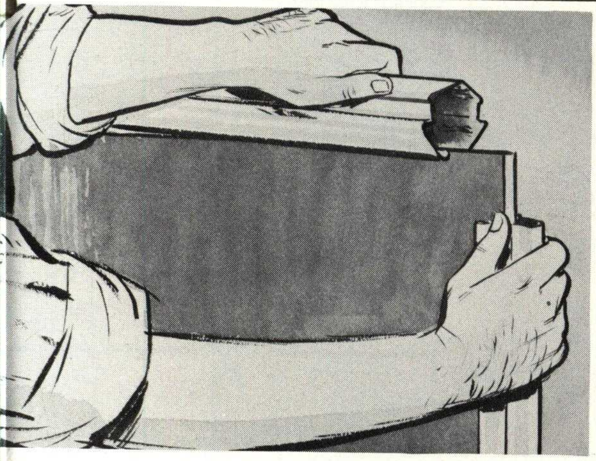
2. Using the P-2582 right angle fitting (detailed on Page 4,) bolt your uprights, horizontal dividers and top members in place wherever you want them.

→



3. The result is a steel framework of rectangular openings into which you can insert a wide variety of paneling to obtain your desired effect.



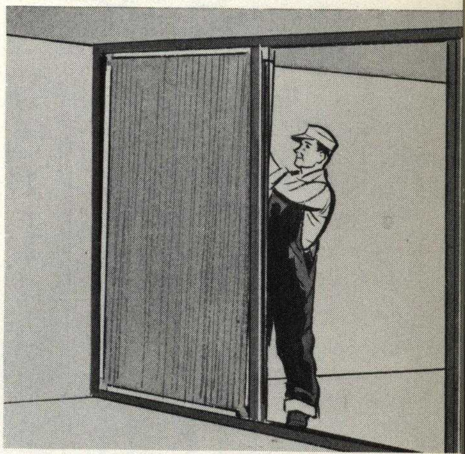


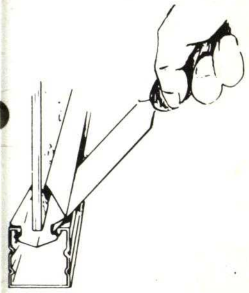
4. To insert panels, first slip moulding P-2584 (detailed on Page 4) on all four sides of the panel.

←

5. Then place panels with moulding fully on panels into the rectangular openings.

→



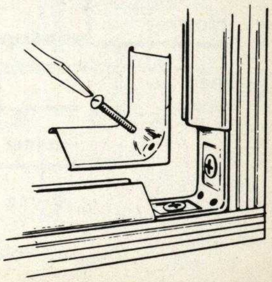


6. Snap moulding into slot in channel, as shown. The panel rests at the bottom on the right angle fitting and is retained on all four sides by the moulding.

←

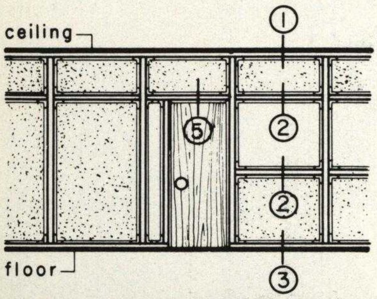
7. To give a finished appearance put on the appropriate P-2571-3-5 corner cover plate (detailed on Page 4).

→



Typical COLORLINE Partition Sections, Intersectional and Framing Details

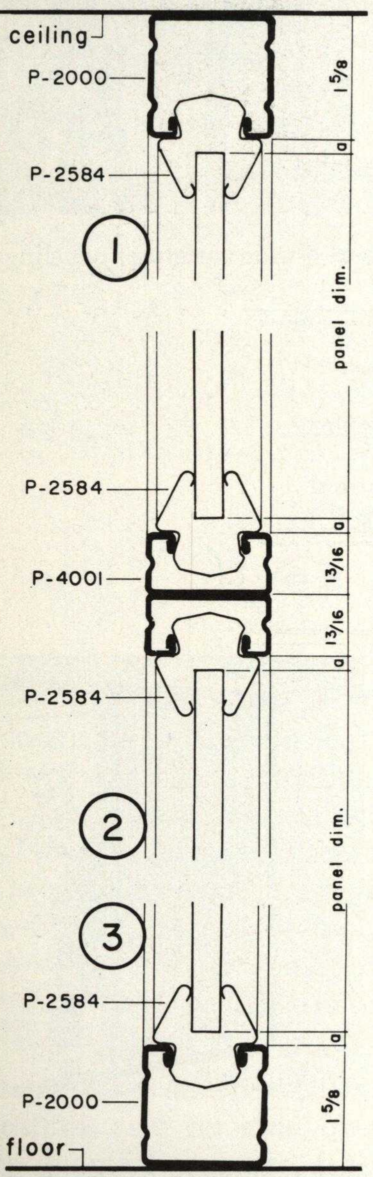
VERTICAL SECTIONS


ceiling
①
⑤
②
②
floor
③

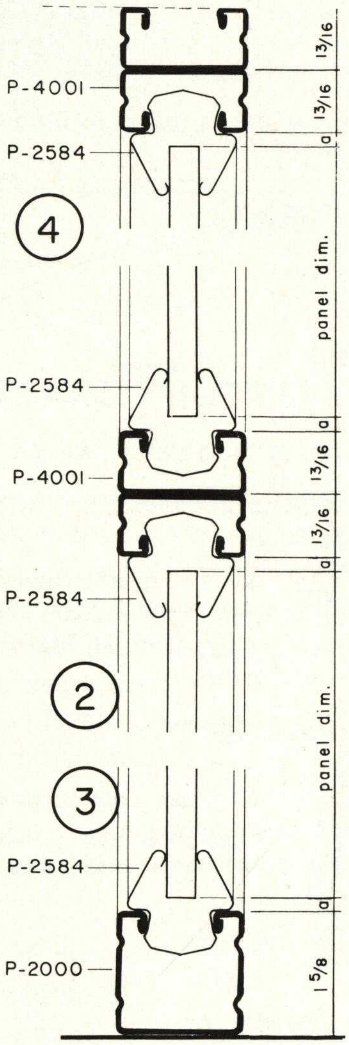
These details, with door details Page 6, provide all necessary data for specifying standard partitions.

For railing, glazed rail, and cubical partitions see UNISTRUT Catalog No. 910.

FLOOR TO CEILING


ceiling
P-2000
1 5/8
a
P-2584
①
panel dim.
P-2584
a
P-4001
13/16
13/16
a
P-2584
②
panel dim.
③
P-2584
a
P-2000
1 5/8
floor

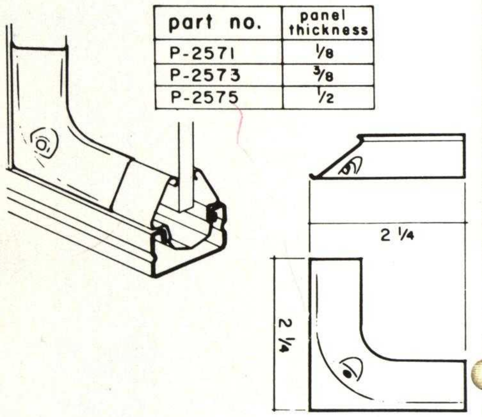
OPEN CEILING


13/16
P-4001
13/16
a
P-2584
④
panel dim.
P-2584
a
P-4001
13/16
13/16
a
P-2584
②
panel dim.
③
P-2584
a
P-2000
1 5/8

	dimension a
panel	1/8" fitting + 1/16" tolerance = 3/16"
glass	1/8" fitting + 1/16" tolerance + 1/8" resilient tape = 5/16"

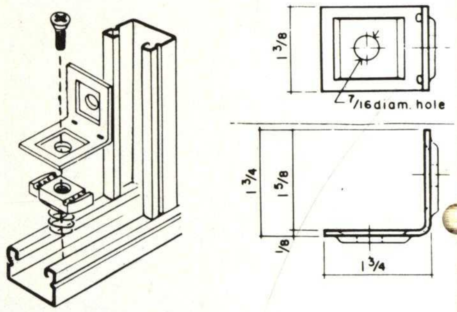
Note: Item 4 is top member on a partition when it is not ceiling height.

PARTS DETAIL



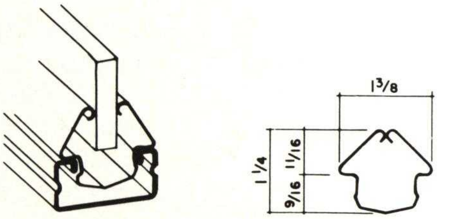
part no.	panel thickness
P-2571	1/8
P-2573	3/8
P-2575	1/2

CORNER SECTION
(Exploded View)
Showing use of P-2582 detailed on the right


1 3/8
7/16 diam. hole
1 3/4
1 5/8
1/8
1 3/4

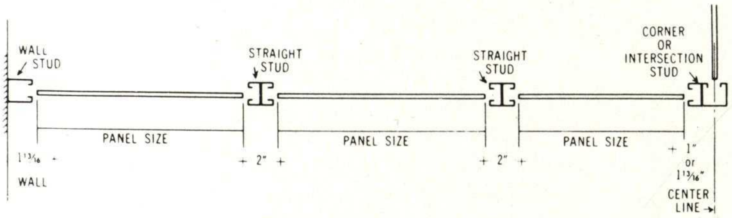
Other components shown above:
5/16" x 5/8" Phillips Flat Head Machine Screw
5/16" UNISTRUT nut & UNISTRUT channel

P-2584 Moulding Strip


1 3/8
1 1/4
11/16
9/16

FRAMING DETAILS—DESIGN NOTES

Layout plans are based on modules 2″ wider than panel dimensions (4′2″ for 4′ wide panel material). A variation of $^{13}/_{16}$″ occurs, when panels are all uniformly sized, due to wall studs and intersections (see below and intersection details).


WALL STUD
STRAIGHT STUD
STRAIGHT STUD
CORNER OR INTERSECTION STUD
PANEL SIZE
PANEL SIZE
PANEL SIZE
1 13/16
WALL
2″
2″
1″ or 1 13/16″
CENTER LINE

Vertical dimensions of panels are determined by deducting framing allowances from over-all height, as shown in vertical section details for each specific type.

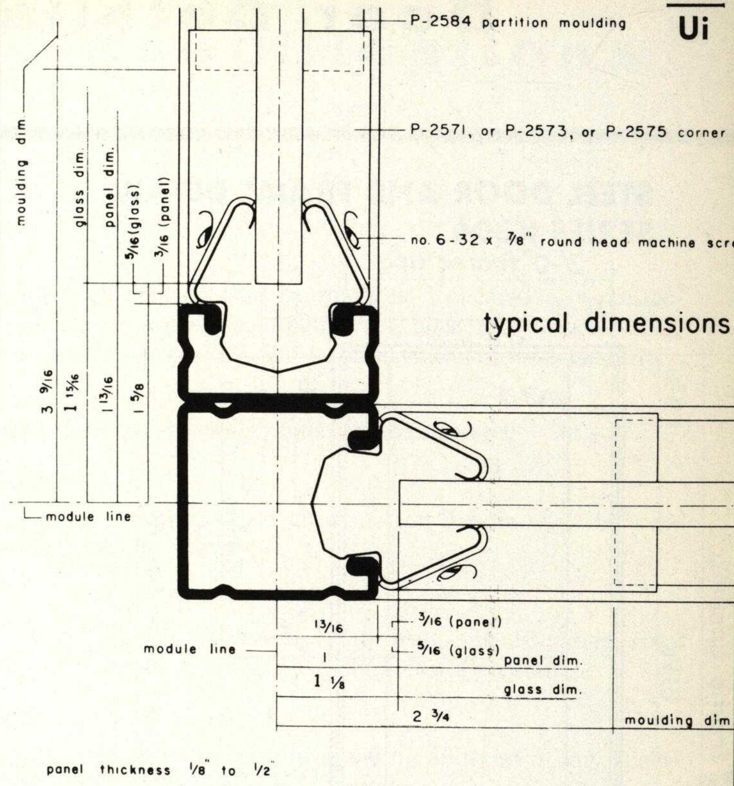
MATERIAL SIZES

Horizontals:

Divider Member (Method 1): Panel size plus 3/8″. . .
Moulding: Panel size less 3 1/2″. . .
Top Plate: Wall length plus intersection cut (mitered corner, etc.
Note: Join top plate members at intersections or ceiling studs only. . .
Sill: Length as required.

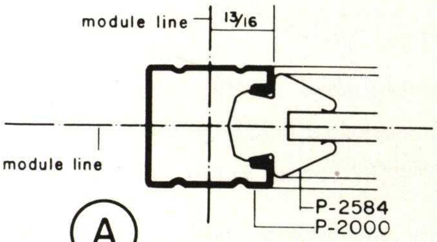
Studs:

Straight Stud: 3 1/4″ less than over-all partition height . . .
Wall Stud: 3 1/4″ less than over-all partition height . . .
Intersection Stud: 3 1/4″ less than over-all partition height . . .
Corner Stud: 3 1/4″ less than over-all partition height . . .
Door Opening Stud: Variable with door height . . .
Moulding: Panel size less 3 1/2″

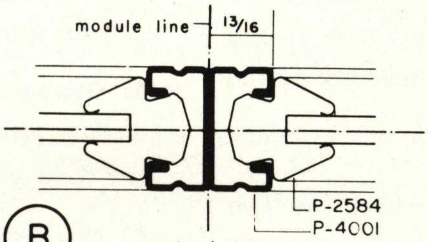

P-2584 partition moulding
P-2571, or P-2573, or P-2575 corner
no. 6-32 x 7/8" round head machine scr
typical dimensions
moulding dim.
glass dim.
panel dim.
5/16 (glass)
3/16 (panel)
3 9/16
1 15/16
1 13/16
1 5/8
module line
13/16
3/16 (panel)
module line
5/16 (glass)
1
panel dim.
1 1/8
glass dim.
2 3/4
moulding dim
panel thickness 1/8" to 1/2"

Fittings: P-2582 fittings are used in each inside corner, to secure the framing together (a single panel uses four fittings). These are also used for the upper corners at a door frame . . . Corner Caps, P-2571 to 75, are used on each corner from both sides, and secured by the self-tapping screws (single panel uses eight corner caps) . . . NOTE: For glass panel, dimensions of glass are 1/4″ less over-all (see typical dimensions above).

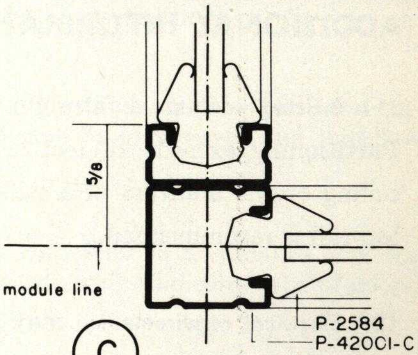
INTERSECTION DETAILS


module line
13/16
module line
P-2584
P-2000

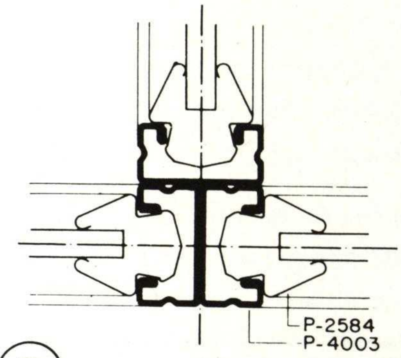
A wall stud or end


module line
13/16
P-2584
P-4001

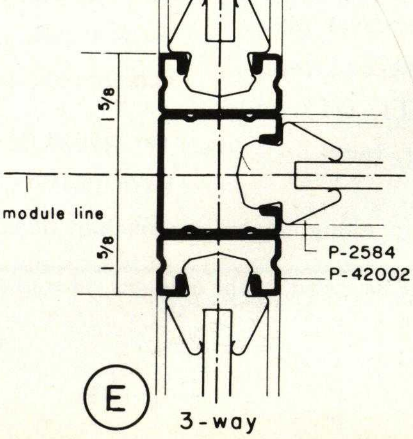
B straight


1 5/8
module line
P-2584
P-42001-C

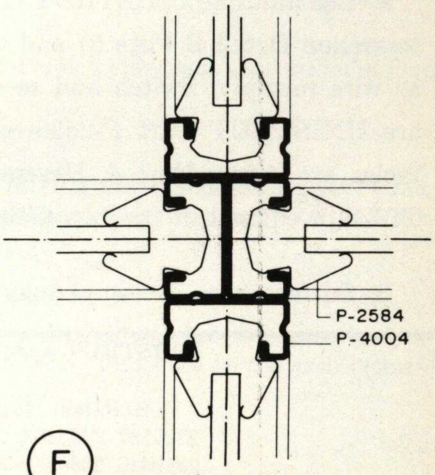
C corner


P-2584
P-4003

D 3-way


1 5/8
module line
1 5/8
P-2584
P-42002

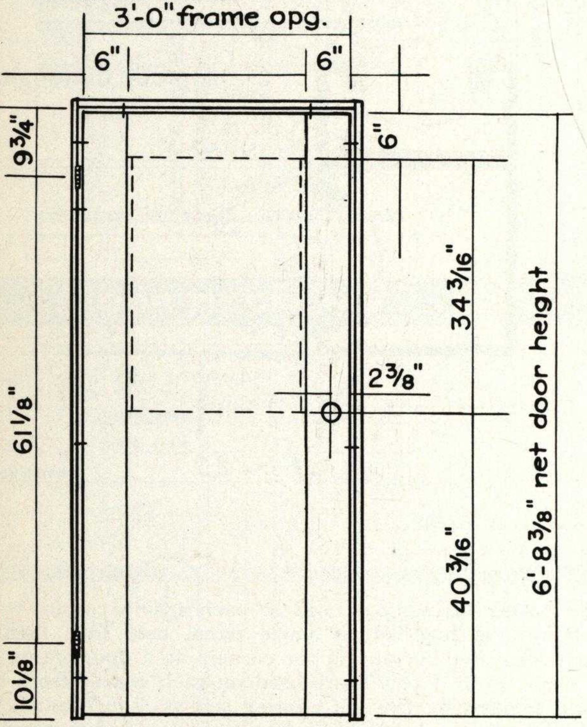
E 3-way

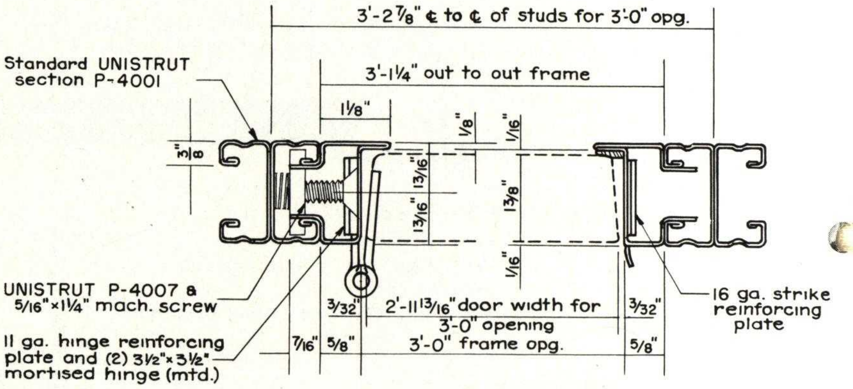

P-2584
P-4004

F 4-way

Door Details and Footnotes

STEEL DOOR AND FRAME DETAIL*
SERIES K306


3'-0" frame opg.
6"
6"
6"
9¾
61⅛"
10⅛"
34 3/16"
2⅜"
40 3/16"
6'-8⅜" net door height


3'-2⅞" ℄ to ℄ of studs for 3'-0" opg.
Standard UNISTRUT section P-4001
3'-1¼" out to out frame
1⅛"
3/8"
1/8"
1/16"
13/16"
13/16"
1⅜"
1/16"
UNISTRUT P-4007 & 5/16"×1¼" mach. screw
11 ga. hinge reinforcing plate and (2) 3½"×3½" mortised hinge (mtd.)
3/32"
2'-11 13/16" door width for 3'-0" opening
3/32"
7/16"
5/8"
3'-0" frame opg.
5/8"
16 ga. strike reinforcing plate

*Use wooden Door Frame P-2581 when wooden door is required—See Catalog No. 910

ADDITIONAL INFORMATION:

(1) Bracing—when a straight run of ColorLine Partitioning exceeds 13 feet, a through post to the ceiling or the addition of a stiffening member on the top rail is recommended.

(2) Electrical requirements may be handled by two methods:

a. Use multiple UNISTRUT channel P-42002 (Intersection Detail E Page 5) and utilize center section as wire raceway. Switch and receptacle cover plates are UNISTRUT Part P-2530—switches and receptacles are Arrow-Hart & Hegeman, QT1, QT3 and TI320 or equivalent by Pass & Seymour, Inc.

b. Surface wire raceways may be run along floor line with "T" connections and raceways running up studs for receptacles or switches.

(3) Glazing is accomplished in the same manner as paneling with addition of rubber tape over area where glass rests on the P-2582 corner angle.

(4) Non-combustible partitioning may be created by using cement asbestos paneling material and rated wire glass.

(5) Panel thickness variations are made possible by P-2584 moulding (Detailed Page 4) which expands to accommodate thicknesses of ⅛" to ½" inclusive.

(6) Sound Attenuation — Independent laboratory tests have proven that the ColorLine Partitioning offers excellent acoustical qualities.

UNISTRUT materials are protected by the following patents and other patents pending:

U. S. Patent Numbers
2327587 2363382 2541908
2329815 2380379 2674431
2345650 2405631 2696139

Canadian Patent Numbers
454759 456640 468582
484405 484406 506364
521162 524699 537066

movable partition specifications

GENERAL

ColorLine Partitioning shall be supplied and erected complete as indicated on architectural drawings. All ColorLine components, panels, doors, hardware, glass and miscellaneous parts shall be included. Details and erection methods shall be in accordance with manufacturer's standards.

Special effects, as detailed in the architectural drawings, must be maintained.

SHOP DRAWINGS

Shop drawings showing plan layout, typical elevations and construction details shall be submitted for approval before proceeding with the work.

MATERIAL

The ColorLine Partition System consists of steel framing of no less than 16 gauge, cold rolled, bonderized steel. Components shall be as specified in manufacturer's catalog.

SYSTEM

The ColorLine Partition System can be assembled to contain paneling material of any specified width and height and of any thickness, from 1/8" to 1/2" inclusive.

The ColorLine System permits removal and replacement of any panel without disturbing the steel framework or other panels.

PANELS

The panels are to be installed by the partition contractor in accordance with the manufacturer's standards.

Where special paneling effects are desired, careful selection has been made regarding quality, texture, size, thickness, etc. and clearly indicated on architectural drawings.

GLAZING

Glazing shall be done in accordance with the manufacturer's standards. The partition contractor shall be responsible for proper glazing. The glass shall be of the type and thickness as indicated on the architectural drawings.

DOORS & HARDWARE

Doors and hardware shall be installed by the partition contractor in accordance with the manufacturer's standards. A schedule in the architectural drawings indicates type of doors, sizes, styles, finishes, and indicates hardware specifications.

FINISH

ColorLine movable partitions offer an unlimited variety of color, finish, texture, and design. Careful adherence to the color schedule, as indicated on the architectural drawings, must be maintained.

Sample color and panel swatches, if other than a manufacturer's standard, shall be submitted for approval.

WORKMANSHIP

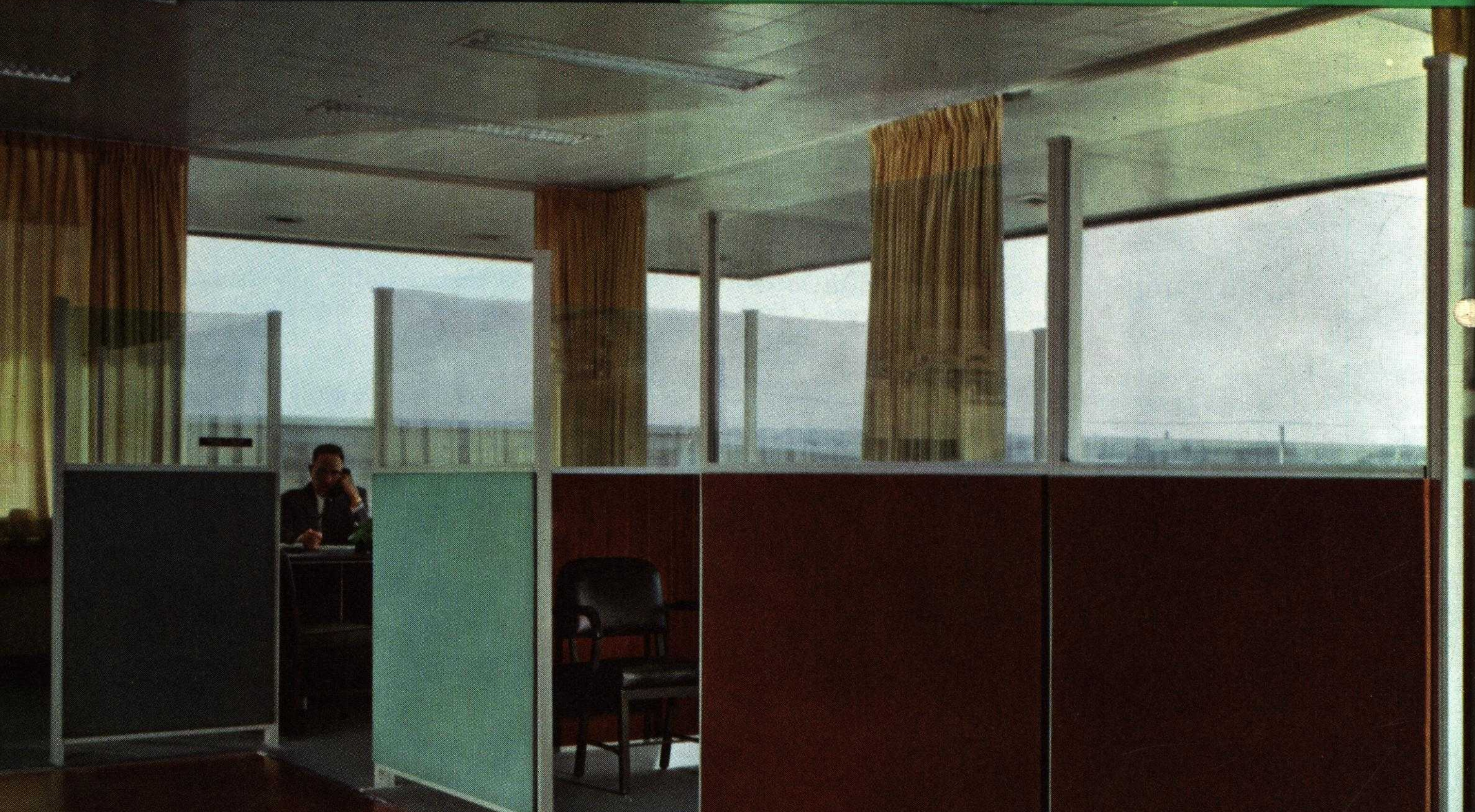
When completed, walls shall be straight and plumb with horizontal members level. Hardware shall be adjusted. The walls shall be neat in appearance and free from defects. Working area shall be left broom clean.

QUOTATIONS

When a system is quoted "as equal", a letter must accompany shop drawings clearly indicating exceptions to the above standards and the requirements indicated on the architectural drawings.

COLORLINE®
PARTITIONS

Photograph shows another attractive partitioning design using UNISTRUT metal framing.



chield Bantam Company, Waverly, Iowa / Perkins & Will, Architects

TRADE MARK
MR. STRUT

"Use UNISTRUT® metal framing for—

- *partitions*
- *electronic and instrumentation framing*
- *data processing flooring systems*
- *electrical supports*
- *mechanical supports*
- *displays*
- *storage racks"*

UNISTRUT PRODUCTS COMPANY
933 West Washington Boulevard
Chicago 7, Illinois

Stocking distributors in all principal cities of the United States and Canada. Exported throughout the world.

Printed in U.S.A. 12/59

22a
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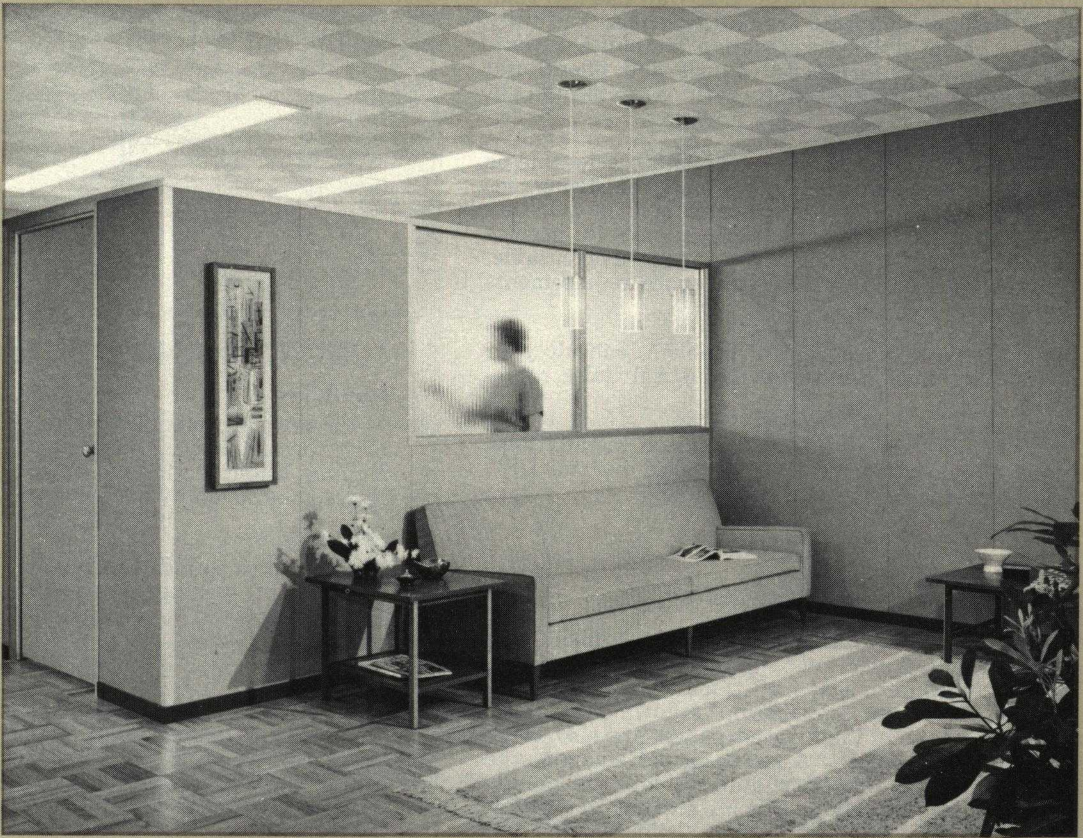
TECHNICAL INFORMATION

E-Z WALL

MOVABLE PARTITIONS



UNITED STATES GYPSUM

1960

E-Z WALL
MOVABLE PARTITIONS

simplified planning, construction and relocation

The E-Z Wall "Simplicity" design offers the best and fastest solution to space control problems in offices, commercial buildings and institutions.

In contrast to other movable partition systems that require up to 350 separate parts, E-Z Wall has less than 30 parts! Basic components are multi-purpose and fully modular. This modular construction simplifies layout, eliminates the need for special panels and fillers, and permits on-the-job adaptation with a minimum of cutting.

E-Z Wall partitions are as attractive and serviceable as permanent installations. They are made of strong, incombustible laminated gypsum board, held in place by open web steel studs that provide raceways for service wiring and piping. E-Z Wall partitions are always reusable, and may be relocated easily when space requirements change.

When you have a space control problem, consult your local USG Architect Service or Industrial Sales representative.

E-Z Wall layout, and estimates for initial installations, additions or relocations will be furnished by the USG Partition Contractor without obligation.

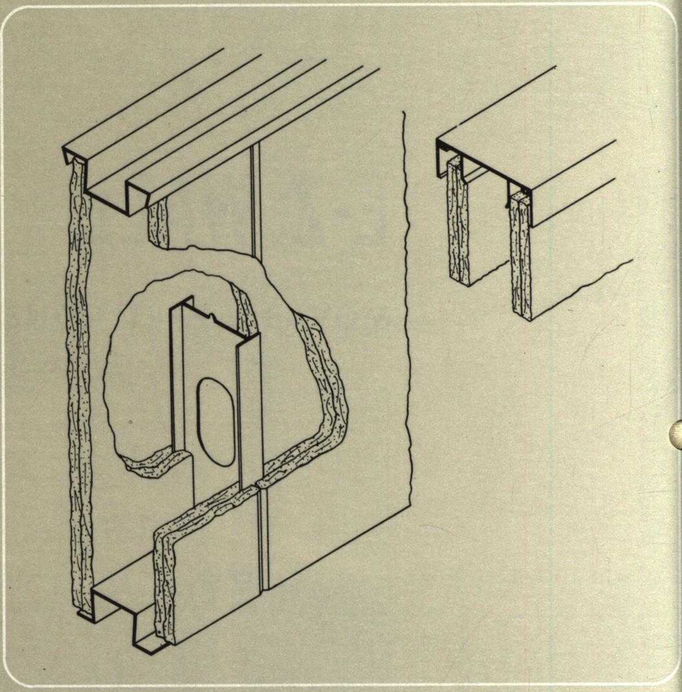
DESCRIPTION

E-Z Wall partitions are flush-panel-type, 3⅜″ thick. Each panel consists of two pieces of ⅜-inch thick gypsum board, mill-laminated to form a ¾-inch thick sheet in standard form ready for paint application following standard painting procedures. (Vinyl faced panels are also available in 3 standard colors.) A roll-formed H-shaped stud holds panels in place (flanges of stud slip into the lamination of the panel). Partition units are erected on a simple hat-shaped, continuous floor runner. Ceiling-height partitions are inserted into a ceiling runner. Openings for windows and door frames are standard extruded aluminum sections. (See diagram.)

Sizes and Types

Railing Height Partitions available up to 48″ in height. May be furnished with a finished rail cap or with glass above the rail.

Cornice and Ceiling Height Partitions available to a maximum of 10′. May be furnished solid, with windows, or in continuous glass variations. Window sizes are fully flexible in both height and width without the use of special parts.



FUNCTION AND UTILITY

Flexibility

Multi-purpose, modular parts are used in all types of partitions (no special panel sizes or fillers are necessary). Railing heights, window sizes, and door sizes may be revised on the job without special parts or extensive labor.

Sound Control

Resistance to sound transmission of the basic partition, exclusive of openings, is equivalent to, or greater than, the loss reported for some wood stud-gypsum lath and plaster partitions.

Fixtures

Open-web steel studs provide ample raceways for wiring. Outlets may be cut into panel and located for convenience. Wall-hung fixtures—lights, chalkboards, and other lightweight fixtures may be attached directly to panels.

Fire Resistance

All materials in E-Z Wall partitions—gypsum board, steel structural members, aluminum trim—are incombustible.

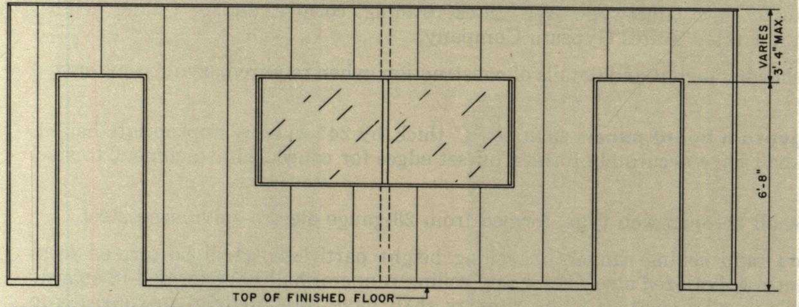
Maintenance

All exposed aluminum members are etched and anodized to provide a neutral gray finish that requires little maintenance. The optional vinyl plastic-faced panels, integrally decorated in a choice of 3 U.S.G. standard colors, may be washed with mild detergent.

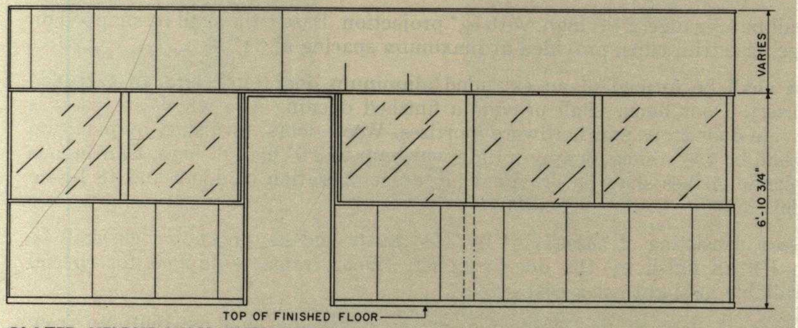
LIMITATIONS OF USE

E-Z Wall partitions should not be used as load-bearing members, or where they are exposed to excessive moisture.

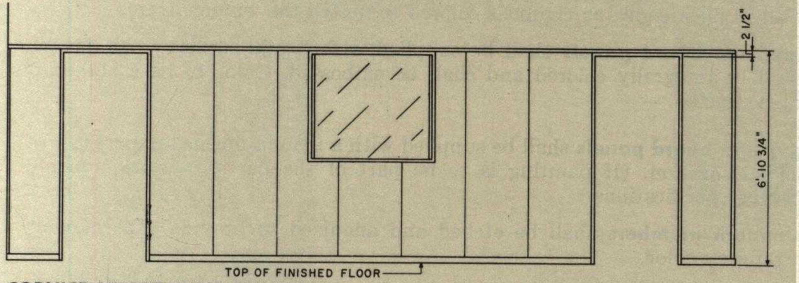
details sections and elevations/no scale


VARIES
3'-4" MAX.
6'-8"
TOP OF FINISHED FLOOR

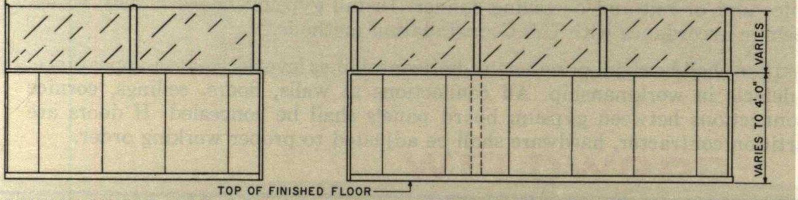
CEILING HEIGHT WALL ELEVATION


VARIES
6'-10 3/4"
TOP OF FINISHED FLOOR

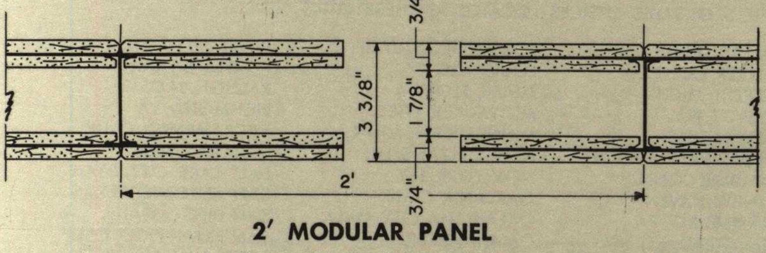
GLAZED HEIGHT WALL ELEVATION


2 1/2"
6'-10 3/4"
TOP OF FINISHED FLOOR

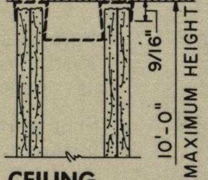
CORNICE HEIGHT WALL ELEVATION


VARIES
VARIES TO 4'-0"
TOP OF FINISHED FLOOR

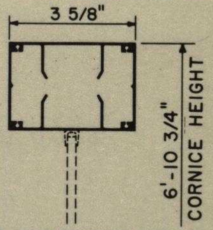
RAILING HEIGHT WALL ELEVATION


3/4"
3 3/8"
1 7/8"
2'
3/4"

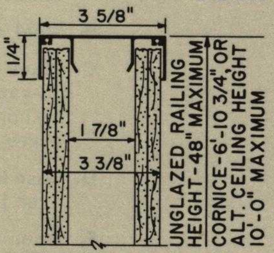
2' MODULAR PANEL


9/16"
10'-0"
MAXIMUM HEIGHT

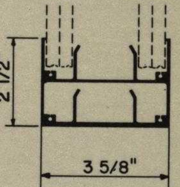
CEILING CONNECTION


3 5/8"
6'-10 3/4"
CORNICE HEIGHT

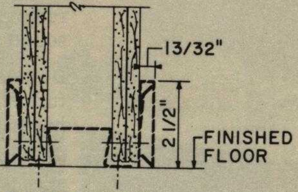
DOOR OR WINDOW HEAD CORNICE HEIGHT


3 5/8"
1 1/4"
9/16"
1 7/8"
3 3/8"
UNGLAZED RAILING HEIGHT-48" MAXIMUM
CORNICE-6'-10 3/4", OR ALT. CEILING HEIGHT 10'-0" MAXIMUM

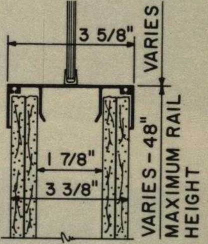
CORNICE OR RAIL CAP



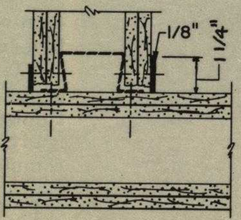
DOOR HEAD GLAZED PARTITION


13/32"
2 1/2"
FINISHED FLOOR

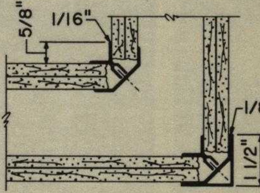
BASE DETAIL


3 5/8"
VARIES
1 7/8"
3 3/8"
VARIES-48"
MAXIMUM RAIL HEIGHT

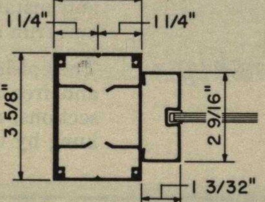
WINDOW SILL



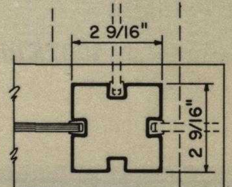
PARTITION "T" WALL


5/8"
1/16"
1/8"
1 1/2"

CORNER POST ASSEMBLY

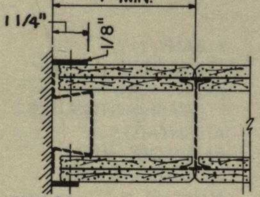

2 1/2"
1 1/4"
1 1/4"
3 5/8"
2 9/16"
1 3/32"

DOOR-WINDOW JAMB

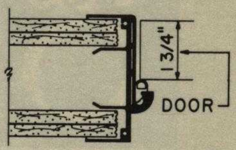


RAILING HEIGHT END POST—PARTITION CORNER AND TEE INDICATED

GLAZING POST



WALL INTERSECTION



DOOR FRAME DETAIL

E-Z WALL
MOVABLE PARTITIONS

SPECIFICATIONS

scope

Furnish and erect E-Z Wall partitions as indicated on the plans and specified hereunder. Partitions are to be flush-panel-type, 3⅜″ thick, (railing, cornice, and/or ceiling height) as supplied by the United States Gypsum Company.

shop drawings

Shop drawings showing layout and details of construction, when required, shall be submitted for approval.

materials

A. Laminated gypsum board panels shall be ¾″ thick by 24″ wide by appropriate height. The panels shall have accurately formed off-set edges for concealed attachment to steel studs.

B. Steel studs shall be open web type, formed from 23-gauge electro-galvanized steel.

C. Floor runners (and ceiling runners in ceiling height partitions) shall be formed from 23-gauge electro-galvanized steel. Floor and ceiling runners shall have formed-in spacers to hold panels in alignment. (Ceiling runners shall have integral trim to conceal top edges of panels.)

D. Base trim shall be 18-gauge, 2½″ high, with 7/16″ projection. Base trim shall be snapped on over 18-gauge base trim clips, provided at maximum spacing of 24″.

E. Door frames shall be formed of an extruded aluminum door buck and an extruded aluminum insert. Door bucks shall provide a finished opening into which an insert is fitted to provide door stops and hardware mortises. Wood doors, furnished by partition contractor, shall be 1¾″ thick by appropriate width up to 3′0″ by 6′8″ high. Continuous removable plastic strikes shall be provided for quiet operation of doors and to lessen sound transmission.

F. Door hardware consisting of three 4½″ by 4½″ butts and key-in-knob lock shall be furnished in US 28 finish by the door supplier. (Door frames equipped for special hardware available at slight extra cost.)

G. Window frames shall be of sizes indicated on the plans and shall be built up from standard extruded aluminum parts. Glass shall be furnished by the partition contractor and shall be set in plastic glazing channels colored to match the window frame.

finish

A. Laminated gypsum board panels shall be supplied with a mill-applied vinyl plastic film. Film shall be integrally colored and shall be embossed. Color to be a standard U.S.G. color, as selected.

or

Laminated gypsum board panels shall be supplied with a manila-finished paper surface ready for field decoration. (If painting is to be part of the partition work, include complete painting specifications.)

B. Exposed aluminum members shall be etched and anodized to provide a permanent finish of neutral gray color.

installation

Lay out the partition and locate all floor attachment clips for end posts and door frames. Floor runners and floor attachment clips shall be securely anchored to the floor. Assemble and install cornice and/or rail and/or ceiling runner. Install gypsum board panels, studs, and trim members in accordance with U.S.G. installation methods.

workmanship

The finished partition shall be rigid, plumb, with horizontal lines leveled; neat in appearance, and free from defects in workmanship. All connections to walls, floors, ceilings, cornice sections, and connections between gypsum board panels shall be concealed. If doors are hung by the partition contractor, hardware shall be adjusted to proper working order.

UNITED STATES GYPSUM—The Greatest Name in Building

GENERAL OFFICES • 300 WEST ADAMS STREET • CHICAGO 6, ILLINOIS

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CHARLOTTE, N.C.
CHICAGO, ILL.
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CLEVELAND HEIGHTS, OHIO
(CLEVELAND)
CLIFTON, N.J.
(NEWARK)
DALLAS, TEXAS
DENVER, COLO.
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OMAHA, NEBR.
PASADENA, CALIF.
PEORIA, ILL.
PHILADELPHIA, PA.
PHOENIX, ARIZ.
PITTSBURGH, PA.
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SAN ANTONIO, TEXAS
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SAN FRANCISCO, CALIF.
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(BOSTON)
WARWICK, R.I.
(PROVIDENCE)

22a
Uni

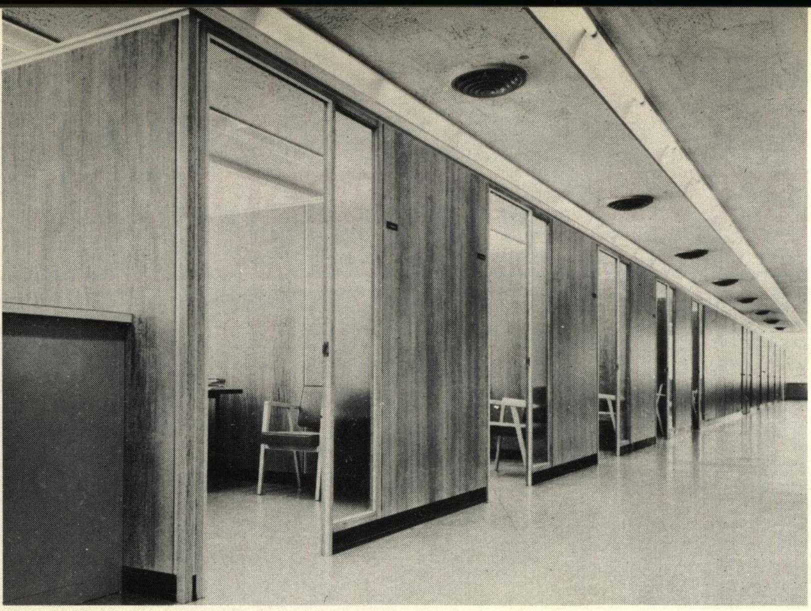
DECORATIVE · FLEXIBLE

WELDWOOD®

Movable Partitions

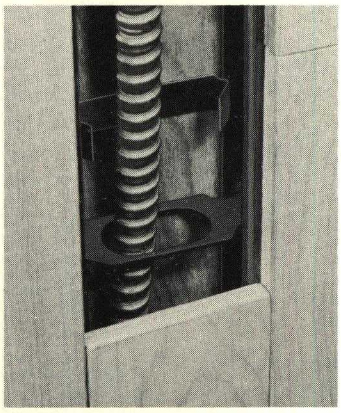
UNITED STATES PLYWOOD CORPORATION

A. I. A. FILE NO. 36-H-6, JANUARY 1960



Design 102 Korina Weldwood "Stay-Strate" Movable Partitions in Greyhound Office Building, Niles, Illinois. Units are modular for complete interchangeability.

weldwood movable partitions



Hollow post provides useful space for electrical and telephone wiring.

Weldwood Movable Partitions combine low-cost flexibility (complete movability) with your choice of partition faces: natural hardwood, fabric-like plastic, high-pressure plastic laminate, or Color-Styled Novowall. Each of these panel faces offers certain liberties to the decorator—and certain physical characteristics which contribute to economy and long, useful life. Complete movability—the total freedom of redesigning floor space allotment—is assured with Weldwood Movable Partitions. Weldwood's exclusive metal key construction locks the partition panels into a solid wall. Yet, they can be quickly and easily dismantled and rearranged in a few hours. There are so few parts involved that Weldwood Movable Partitions can be erected, dismantled, moved and re-installed by regular building maintenance crews. (A complete or partial installation service is also available, if you specify.) Weldwood Movable Partitions are the perfect solution to the problem of room sub-dividing in offices, schools, hospitals, stores, banks, and dozens of other interior installations.

EXCLUSIVE ADVANTAGES

Flexibility—metal key locking systems—all parts interchangeable—all parts salvageable.

Flush design—post connector cap fastened invisibly from within—cap matches panel faces.

Your choice of beautiful, durable face materials—The following face materials are standard with Weldwood Movable Partitions:

- beautiful, furniture-finish natural wood (see page 4).
- colorful, fabric-like plastic (see page 4).
- durable, decorative, high-pressure plastic laminate (see page 4).
- economical Novowall (see page 5).

Your designer can also take advantage of matching wood or aluminum glazing channels, post covers and ceiling channels.

Incombustible Weldrok Core—dimensionally stable, warp-free, incombustible, rot-free.

Interchangeability—All partition panels and door units of the same modular width are completely interchangeable. All component connection parts are 100% re-usable, aiding in future layout revisions.

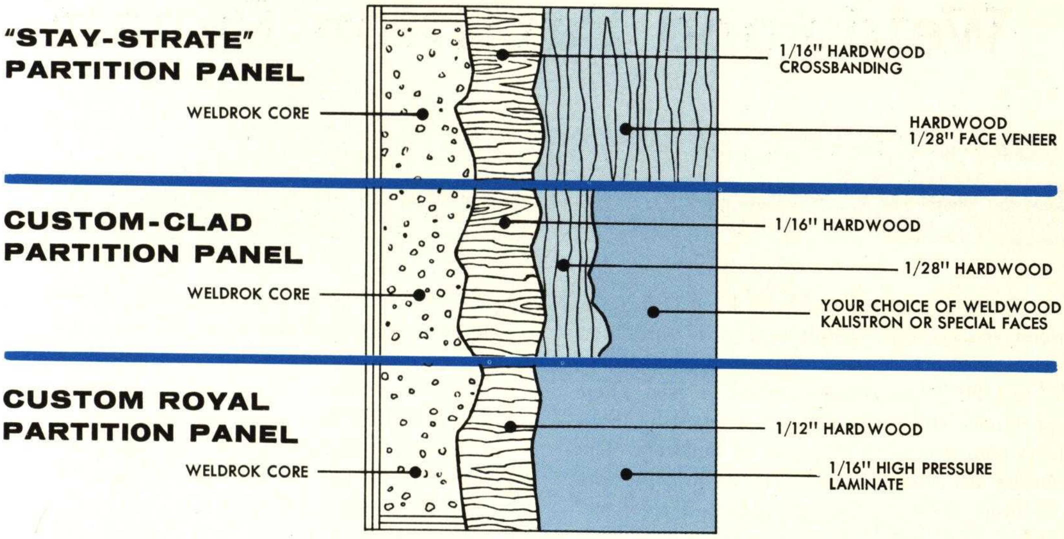
Sizes—Modular panel widths up to and including 6′-0″ x 12′-0″, with one-piece face (veneer) construction, in any intermediate increment size are available. This provides practical unit sizes for use in today's modern, large, modular building trend.

Accessible concealed wiring—Provisions have been made to accommodate concealed electrical wiring in the base, post and cornice.

Light in weight—Weighing only 4 lbs./sq. ft., approx., this system assures ready movability by regular maintenance crews. No external bracing or extensive preparatory construction or alteration is necessary.

Low maintenance—Nothing to replace in normal usage; you are ensured, at minimum cost, complete utilization of available floor areas in any type building. Panels and post caps need only the minimum care you would expect to give hardwoods, vinyl fabrics, or high pressure plastic laminates. Should wood veneers be accidentally damaged or even fractured, "invisible" repairing and refinishing are economically done without removing damaged panel from the wall.

Warp-free doors—Weldwood Stay-Strate Doors (with the incombustible Weldrok core) are available to complete the installation.


"STAY-STRATE" PARTITION PANEL
WELDROK CORE
1/16" HARDWOOD CROSSBANDING
HARDWOOD 1/28" FACE VENEER
CUSTOM-CLAD PARTITION PANEL
WELDROK CORE
1/16" HARDWOOD
1/28" HARDWOOD
YOUR CHOICE OF WELDWOOD KALISTRON OR SPECIAL FACES
CUSTOM ROYAL PARTITION PANEL
WELDROK CORE
1/12" HARDWOOD
1/16" HIGH PRESSURE LAMINATE

WELDWOOD WELDROK CORE PARTITION PANELS

Weldwood Movable Partitions are designed with the Weldwood Partition Panel which features the new Weldrok® incombustible core. This sub-dividing panel offers the richness of real hardwood partitioning without the disadvantages of fire hazard (due to Weldrok core's being incombustible), warpage, shrinkage, swelling, etc. It can be used for nearly every type of room partitioning.

SPECIAL FEATURES

BEAUTIFUL FACES: Weldwood Partition panels are faced one or both sides with fine hardwood veneers, with vinyl-fabric, and with plastic laminate, as you specify, to complement modern, traditional and contemporary architecture and furnishings. Panels faced differently on each side may also be obtained, to give partitioned areas their own individualized decorative 'walls'.

FIRE-RESISTANT: An important feature of the Weldwood Partition Panel is the Weldrok core—the same core material used in the famous Weldwood Fire Door. This revolutionary mineral core material is incombustible, inert and extremely homogeneous. It provides a core which is light in weight, strong and dimensionally stable.

EXCEPTIONALLY STRONG AND RESILIENT: An 8,000 lb. weight test—2,780 lb./sq. in.—shows the remarkable resiliency and strength of the Weldwood Partition Panel. This is especially important in offices, for instance, where furniture, filing cabinets, etc., are occasionally moved against these walls.

LIGHT IN WEIGHT: This partition panel weighs less than 4 lbs. per sq. ft.

WILL NOT DELAMINATE: Waterproof film phenolic resin glue is used to permanently bond the faces and crossbands to the core. This provides extra protection, even under the most severe service conditions.

WARP-FREE: The inert Weldrok mineral core assures that the panels will remain warp-free and stable.

INSULATION FACTOR: The U-factor of the Weldwood Partition Panel is approximately .35 BTU/hr./sq. ft./F°.

LOW MAINTENANCE: No costly painting or re-decorating with Weldwood Partition Panels. An occasional cleaning and waxing is the only maintenance needed.

GUARANTEE

Weldwood Weldrok-core Partition Panels, when properly installed under normal service conditions, are guaranteed against manufacturing defects for the "Life of the Installation."

Should any Weldwood Weldrok-core Partition Panel fail to meet these standards, in an original installation, United States Plywood Corporation will replace said Partition Panel including erection and finishing without cost to the owner.

SPECIFICATIONS FOR WELDWOOD WELDROK-CORE PARTITION PANELS

All panels (as indicated) shall be Weldwood Partition Panels as made by the United States Plywood Corporation.

Panel Faces—(Here, use appropriate specification for "Stay-Strate", Custom Royal, or Custom-Clad panels . . . see page 4.)

Cross bands — Cross bands shall be thoroughly kiln-dried hardwood, 1/16" thick and extending the full width of the panel.

Core — The core shall be made of WELDROK, which is an incombustible mineral material having a nominal density of 20 lbs. per cubic foot, consisting of hydrous calcium silicates with asbestos fiber binder. The core shall be smoothly sanded prior to application of cross bands and faces.

Factory-machined edges — The panel edges shall be factory-machined to suit the job requirements. Edge treatments such as square sawn, rabbetted, tongue-and-grooved for wood or metal spline can be furnished.

Edge bands — Edge bands 1⅜" thick shall be made with two pieces of ¾" glued up kiln-dried hardwood and securely resin glued to the core. The long edge bands shall extend the full length of the Partition Panel with the short edge bands cut in between them.

Adhesive — The core, crossbanding and faces shall be bonded together with waterproof film phenolic resin glue by the hot plate process.

Sanding—Both faces shall be smoothly belt sanded before leaving the factory.

Sizes — With face veneer running long way, widths to 6'-0" and heights to 12'-0"; with grain running short way, widths to 12'-0" and heights to 6'-0".

Weldwood Partition Panels

WELDWOOD "STAY-STRATE"® PARTITION PANELS

Combines the Weldwood Weldrok-Core Movable Partition Panel with the natural beauty of hardwood.

Weldwood Stay-Strate Partition Panels are faced both sides with fine hardwood veneers that complement both traditional and contemporary architecture and furnishings. Standard thickness (1/28″ to 1/20″) face veneers are always used. Their superiority of appearance and performance is attested by thousands of architects and owners of all kinds of buildings. The standard face veneers are Birch, Korina, Walnut, or other fine woods on special order such as Mahogany, Oak, Maple, etc. Panels may also be obtained with different species on each face.

HOW TO SPECIFY: In Section E of Weldwood Movable Partitions Suggested Specifications, (see page 10), substitute:

1. Panels—Shall be Weldwood Stay-Strate Partition Panels with WELDROK core as manufactured by the United States Plywood Corporation. The thickness shall be 1¾″. The face veneer shall be (specify species required or paint grade, if partition is to be painted). The long edges of the panel shall be grooved and a .040 steel channel applied to each edge.

WELDWOOD CUSTOM ROYAL PARTITION PANELS

Plastic-faced Weldrok-Core Partition Panels for schools, hospitals, institutions.

The decorative Weldwood Custom Royal Partition Panel combines the unsurpassed durability and beauty of high pressure plastic laminates with the stability and strength of the Weldrok-core panels. It offers clean, ever-bright and completely sanitary partitions that are useful for all rooms and areas. Its surface never requires polishing or refinishing—a whisk of a damp cloth instantly wipes away dust, grease and finger prints.

Maintenance-free beauty is locked for life beneath a super-tough skin of clear melamine in the case of Micarta. Micarta is actually harder than marble—with superior resistance to dents, gouges and scratches.

The Weldwood Custom Royal Partition Panels are recommended for use wherever a combination of beauty *plus* extreme durability is desired. The reflective value of Micarta is carefully controlled in three finishes: gloss, furniture finish, and satin. Available in a full range of colors, patterns, and even authentic-looking wood grains, in Micarta as well as other decorative high pressure laminates.

HOW TO SPECIFY: In Section E of Weldwood Movable Partitions Suggested Specifications, (see page 10), substitute:

1. Panels—Shall be Weldwood Custom Royal Partition Panels with Weldrok core as manufactured by the United States Plywood Corporation. The thickness shall be 1¾″. The face shall be (specify manufacturer's color and pattern number). The long edge of the panel shall be grooved and a .040 steel channel applied to each edge.

WELDWOOD CUSTOM-CLAD PARTITION PANELS

Combines the flexibility of the Weldwood Movable Partition with your choice of tough, decorative vinyls, fabrics and special surfaces for hospitals, hotels, schools, restaurants, theatres, offices, etc.

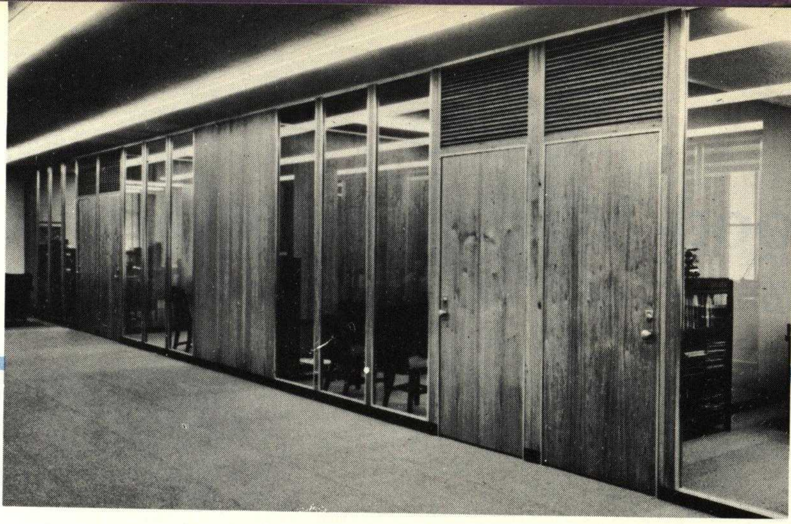
The Weldwood Custom-Clad Movable Partition is an excellent interior partition for use where rough, tough treatment is encountered, and where color and an exciting atmosphere are desired. Weldwood Kalistron, vinyl films and a full list of other coated fabrics and special-purpose materials can be specified on this Weldwood Weldrok Partition Panel construction.

Panel construction is with Weldrok core—to be stable and strong and age-resistant—and with regular Weldwood metal key interlock system for the ultimate case of rearranging floor areas.

WELDWOOD KALISTRON: Kalistron is completely wear-resistant: the color is permanently fused to the underside of tough, transparent sheeting. Tests show that Kalistron is 10 to 17 times as resistant to wear and abuse as battleship linoleum. Because it contains no filler or scrap material and is calendered sheeting, Kalistron has great tensile strength. Kalistron is also highly resistant to most common staining agents and is extremely simple to maintain. Surface dirt may be removed with ordinary soap and water.

HOW TO SPECIFY: In section E of Weldwood Movable Partitions Suggested Specifications, (see page 10), substitute:

1. Panels—Shall be Weldwood Custom-Clad Partition Panels with Weldrok core as manufactured by the United States Plywood Corporation. The thickness shall be 1¾″. The faces shall be (specify Kalistron RCL number, color and pattern, or particulars of other face material). The long edges of the panel shall be grooved and a .040 steel channel applied to each edge.



General Motors Building, Detroit, Michigan

WELDWOOD FIRE-RETARDANT PARTITION PANELS

Decorative, fire-resistant movable partitions

Faces Decorative hardwoods, plastic laminates, vinyls, fabrics, or special surfaces.

Construction Special edge bands on Weldwood Stay-Strate, Custom Royal, and Custom-Clad Partition Panels (see page 4).

Approval Local city approvals available on request.

Alternate Construction Identical to the famous Weldwood Class "B" 1-hour Fire Door.

Approval Each panel bears proper certification of the mill.

The Weldwood Fire-Retardant Partition Panels have the well-known Weldrok incombustible mineral core and are edge-banded at the mill with Protexol Class "A" treated lumber.

Connectors and post caps can be specified as Design 100, Design 101, Design 102, or Design 103—and offer the same advantages of utmost movability with salvageable parts and components.

To complete the installation, Weldwood Fire Doors should be specified.

WELDWOOD NOVOWALL PARTITION PANELS

Weldwood Novowall Partition Panels combine economical, stable Novowall with the features and advantages of Weldwood Movable Partition System.

This movable partition, developed for the lower budget field, provides factory prefinished panel sections of decorative Novowall . . . with its wood mosaic surface stained or finished natural, or with beautiful color styling to your specification.

DESCRIPTION

Novowall (1¾″-thick Novoply®) is a unique all wood 3-ply board of balanced sandwich construction consisting of a dense outer surface of specially prepared wood veneer flakes, a lower density core of medium sized chips and another higher density layer of flakes. These flakes and chips are resin-coated and, in 3 layers (or plies) under heat and pressure, are simultaneously fused and formed into smooth, flat, uniform panels. Since Novowall has no wood grain direction, with the flakes and chips at a multitude of cross angles to one another, it is outstandingly flat, dimensionally stable and free from warp. As the surface is impregnated, it has excellent resistance to abrasion.

Novowall utilizes the Weldwood Movable Partition Connection System to insure a true flush partition.

No color limitations — Any color can be specified on Weldwood Novowall Partition Panels. Thus the designer has complete freedom to combine true colors and their tints in any combination he desires for decorating and for lighting.

This freedom of color choice is becoming most important in all types of buildings—color applied to satisfy scientific concepts of its ability to influence moods and reactions of workers, visitors, customers, patients and students.

Novowall panels are altogether interchangeable with the Weldwood Weldrok-core panels (hardwood, plastic-fabric, and plastic laminate faced). When floor layouts change, it is entirely feasible to combine Novowall panels with other Weldwood Partition Panels into interesting and satisfactory wood/color/plastic combinations.

Weldwood Novowall Partition Panels do not limit room design and decorating. For example, a flush corridor partition could be a light shade of brown or green colored Novowall to softly reflect light from a minimum size fixture, while the reverse of the partition, in an executive office, could be stained walnut. An endless variety of suitable combinations can be planned for any area in any type building.

HOW TO SPECIFY NOVOWALL

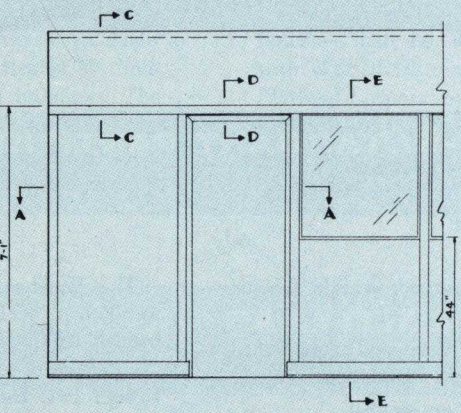
In section E, Materials, of Weldwood Movable Partitions Suggested Specifications (see: page 10) substitute:

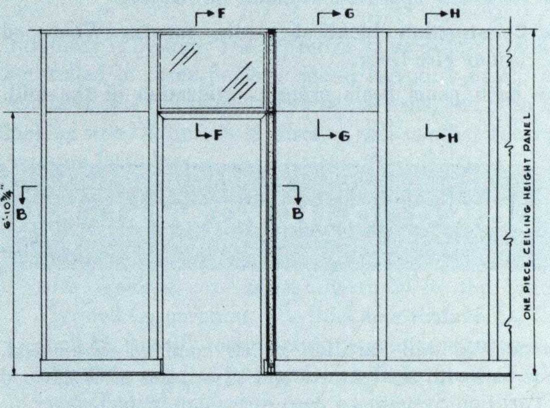
1. Panels — Shall be Weldwood Novowall Partition Panels as manufactured by the United States Plywood Corporation. The thickness shall be 1¾″. The faces shall be decorative Novowall. The long edges of the panel shall be grooved and a .040″ steel channel applied to each edge.

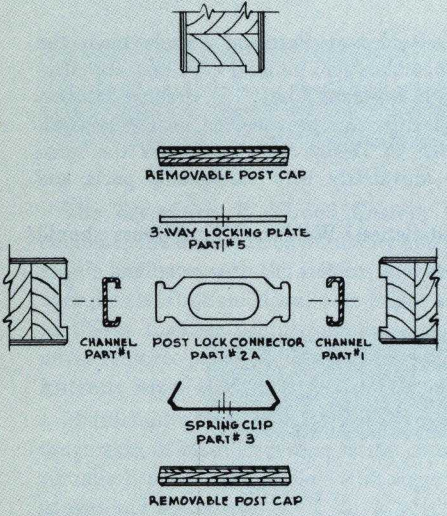
Weldwood Movable Partitions

DESIGN 100—WITH 2¾″ FLUSH POST CAPS

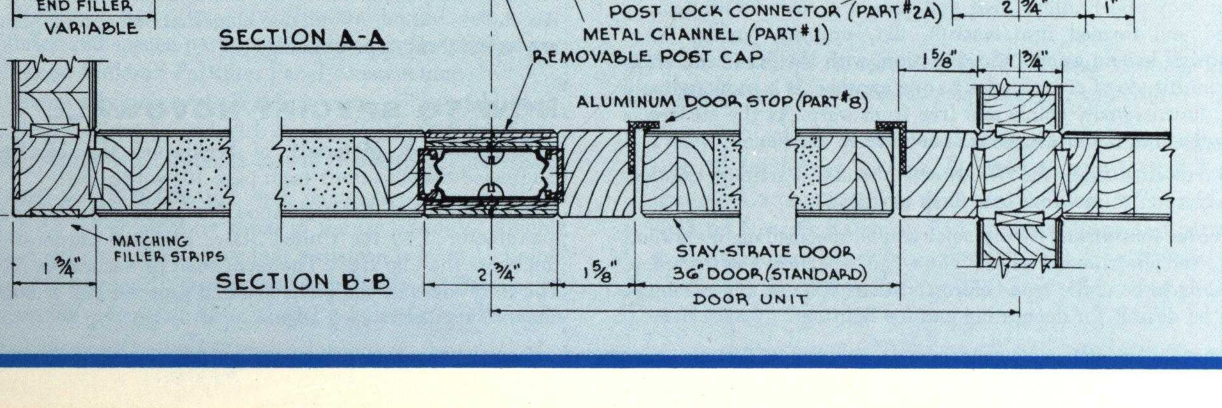
Elevations and Suggested Details **Details Scale: 3″=1′-0″**


C
C
D
D
E
A
A
7'-1"
44"
E


F
G
H
F
G
H
B
B
6'-10¾"
ONE PIECE CEILING HEIGHT PANEL

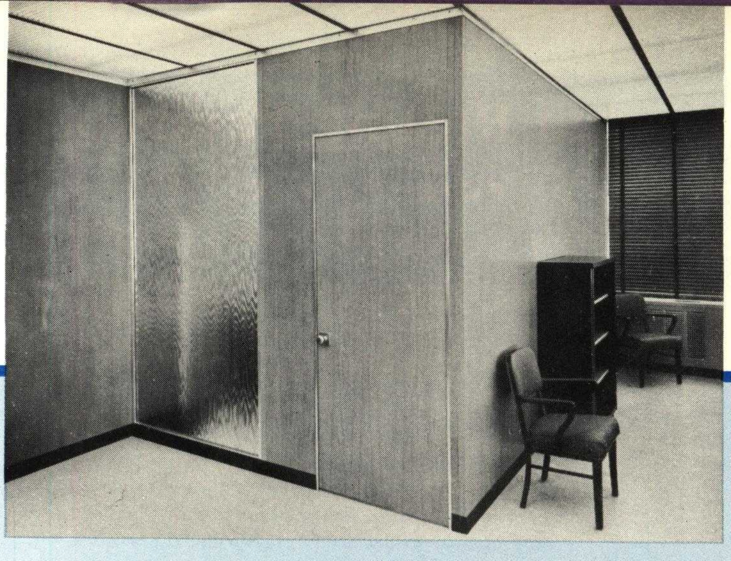

REMOVABLE POST CAP
3-WAY LOCKING PLATE PART # 5
CHANNEL PART # 1
POST LOCK CONNECTOR PART # 2A
CHANNEL PART # 1
SPRING CLIP PART # 3
REMOVABLE POST CAP

CONNECTION SYSTEM


PANEL UNIT
DOOR UNIT
1⅜"
STARTING JAMB
2 ¾"
3-WAY LOCKING PLATE (PART # 5)
1"
SPRING CLIPS
END FILLER
VARIABLE
POST LOCK CONNECTOR (PART # 2A)
2 ¾"
1"
METAL CHANNEL (PART # 1)
REMOVABLE POST CAP
1⅝"
1 ¾"
ALUMINUM DOOR STOP (PART # 8)
1 ¾"
MATCHING FILLER STRIPS
1 ¾"
2 ¾"
1⅝"
STAY-STRATE DOOR
36" DOOR (STANDARD)
DOOR UNIT

SECTION A-A

SECTION B-B



Design 100 Korina Weldwood Movable Partitions
Ford Motor Company Central Staff Building,
Dearborn, Michigan

GENERAL NOTES

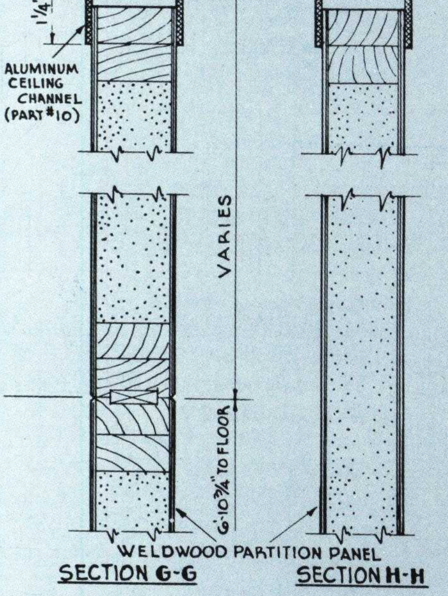
1. Panel Widths—Panels up to 4'0" wide are stocked. However, panels are readily available in any increment up to 6'0" wide. Panel widths are 2¾" less than module to accommodate wiring, connections, etc.

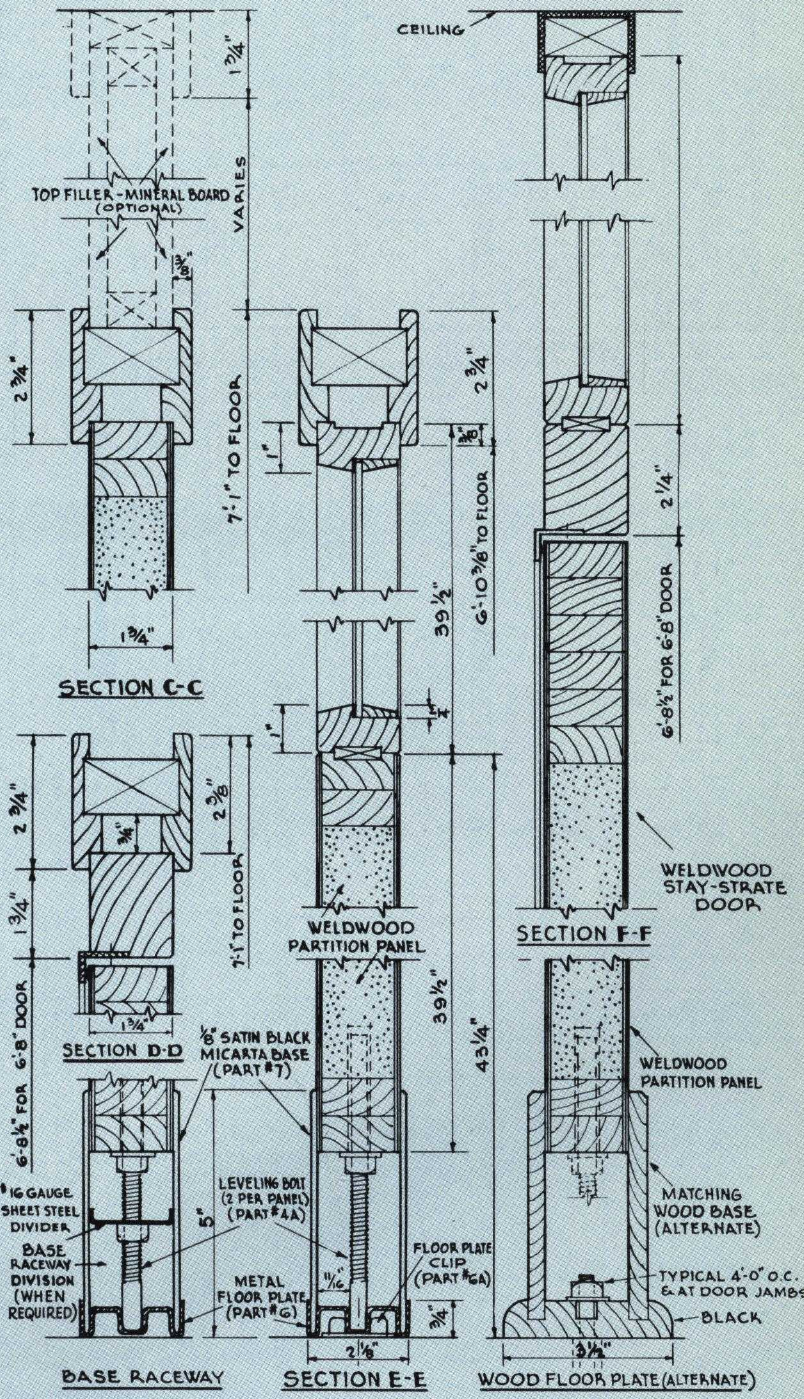
2. Panel Heights—Up to and including 12'0" height. Additional ceiling heights accomplished in two piece construction.

3. Door Widths—All standard door sizes available. Door module is 6" greater than door size to accommodate jamb, wiring, connection, etc.

4. Reinforcements to ceiling or other bracing shall be provided on runs over 16' in length when unsupported by cross runs.

5. All wiring may be concealed. Electric outlets and switches may be located in base, posts or cornice.

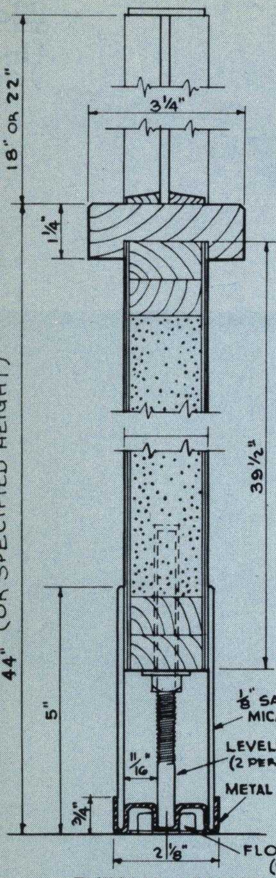

1¼"
ALUMINUM CEILING CHANNEL (PART #10)
VARIES
6'-10¾" TO FLOOR
WELDWOOD PARTITION PANEL
SECTION G-G
SECTION H-H


1¾"
TOP FILLER - MINERAL BOARD (OPTIONAL)
VARIES
⅜"
2¾"
7'-1" TO FLOOR
1¾"
SECTION C-C
CEILING
2¾
1"
⅜"
6'-10⅜" TO FLOOR
39½"
¼"
1"
2¼"
6'-8½" FOR 6'-8" DOOR
WELDWOOD STAY-STRATE DOOR
SECTION F-F
2¾"
2⅜"
¾"
7'-1" TO FLOOR
1¾"
6'-8½" FOR 6'-8" DOOR
1¾"
SECTION D-D
WELDWOOD PARTITION PANEL
39½"
43¼"
⅛" SATIN BLACK MICARTA BASE (PART #7)
WELDWOOD PARTITION PANEL
#16 GAUGE SHEET STEEL DIVIDER
BASE RACEWAY DIVISION (WHEN REQUIRED)
5"
LEVELING BOLT (2 PER PANEL) (PART #4A)
METAL FLOOR PLATE (PART #6)
11/16"
FLOOR PLATE CLIP (PART #6A)
¾"
2⅛"
MATCHING WOOD BASE (ALTERNATE)
TYPICAL 4'-0" O.C. & AT DOOR JAMBS
BLACK
3¼"
BASE RACEWAY
SECTION E-E
WOOD FLOOR PLATE (ALTERNATE)

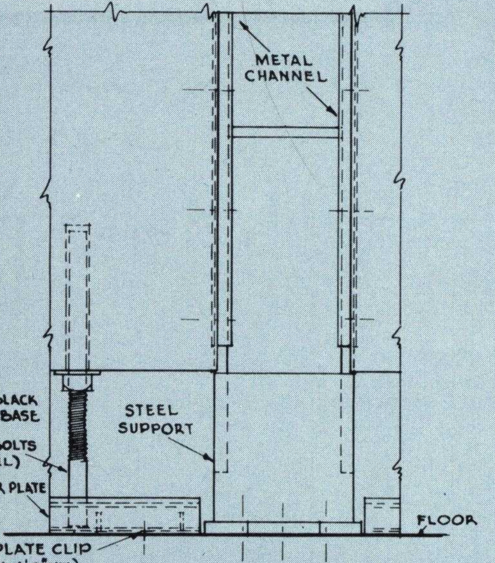
Weldwood Movable Railing Partitions

DESIGN 100—WITH 2¾" FLUSH POST CAPS

Elevations and Suggested Details   Details Scale: 3"=1'-0"


18" OR 22"
3¼"
1¼"
39½"
44" (OR SPECIFIED HEIGHT)
5"
⅛" SATIN BLACK MICARTA BASE
LEVELING BOLTS (2 PER PANEL)
11/16"
METAL FLOOR PLATE
¾"
2⅛"
FLOOR PLATE CLIP (EVERY 4'-0" MIN.)

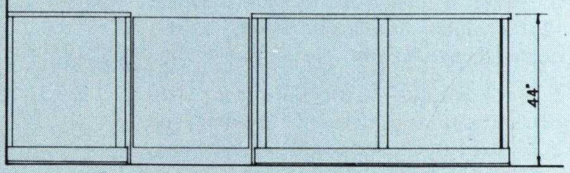
TYPICAL SECTION


METAL CHANNEL
STEEL SUPPORT
FLOOR

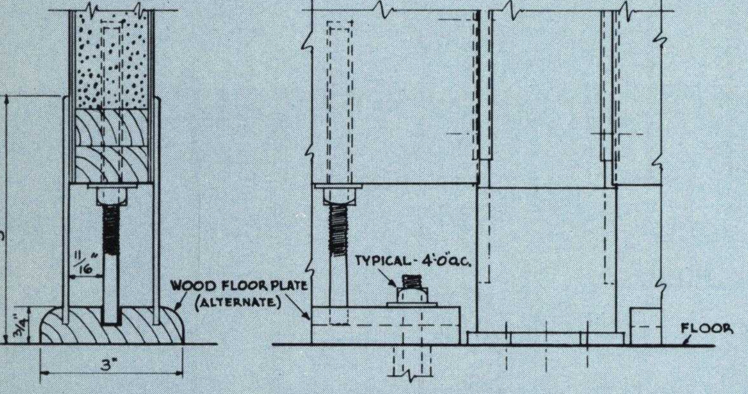
ELEVATION OF RAILING PARTITION AT POST WITH POST CAP & BASE REMOVED SHOWING TYPICAL STEEL SUPPORT.

GENERAL NOTES

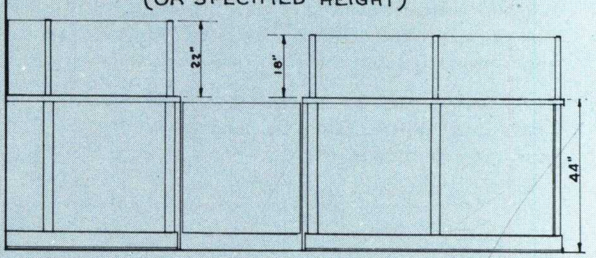
1. Railing Height—44". (other heights also available)
2. Panel Height—39½". (other heights also available)
3. Panel Widths—Panels up to 4'0" wide are stocked. However, panels are readily available in any increment to 6'0" wide. Actual panel widths are 2¾" less than module to accommodate wiring, connections, etc.
4. Gate Widths—Gate module is 6" greater than gate size to accommodate jamb, wiring, connections, etc.
5. Steel supports shall be provided at units otherwise unsupported, to insure rigidity.
6. All wiring may be concealed. Telephone and electrical outlets may be located in base or posts.
7. Gates should not be hung directly at 2-way corners.
8. Single-swing gate only is recommended at all glazed railing partitions.



LOW RAILING PARTITION - 44"
(OR SPECIFIED HEIGHT)

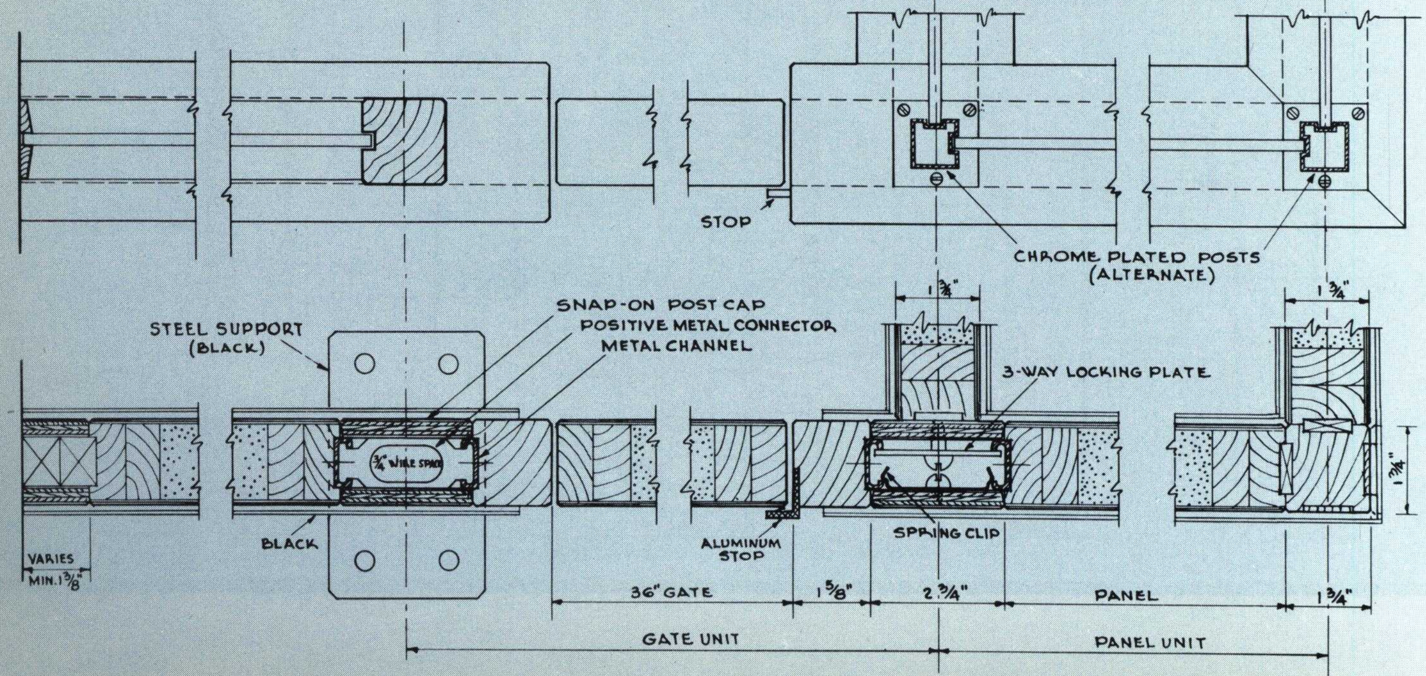

5"
11/16"
WOOD FLOOR PLATE (ALTERNATE)
¾"
3"
TYPICAL - 4'0" o.c.
FLOOR

DETAIL SHOWING ALTERNATE WOOD FLOOR PLATE



TYPICAL ELEVATIONS

GLAZED RAILING PARTITION
5'2" & 5'6"
(OR SPECIFIED HEIGHT)


STOP
CHROME PLATED POSTS (ALTERNATE)
1¾"
SNAP-ON POST CAP
POSITIVE METAL CONNECTOR
METAL CHANNEL
STEEL SUPPORT (BLACK)
¾" WIRE SPACE
3-WAY LOCKING PLATE
1¾"
BLACK
ALUMINUM STOP
SPRING CLIP
VARIES MIN. 1⅜"
36" GATE
1⅝"
2¾"
PANEL
1¾"
GATE UNIT
PANEL UNIT

Weldwood Movable Partitions

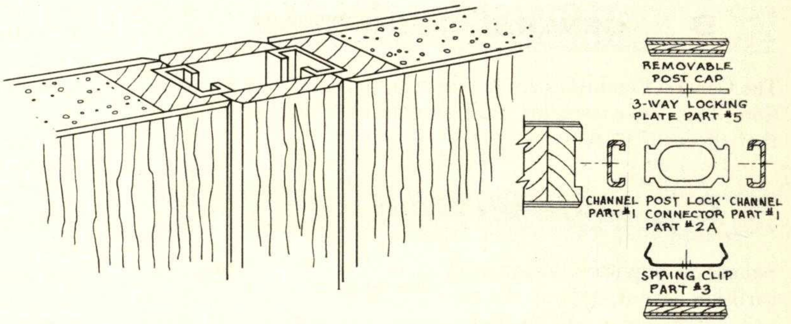
VARIATIONS FROM DESIGN 100 (pp. 6, 7, 8)

Architects' and designers' concepts may very well differ somewhat from the popular and most often specified Design 100 Weldwood Movable Partitions with their very attractive 2¾"-wide Flush Post Caps. To accommodate other designs, several attractive, useful variations of posts and caps are standard.

In addition to these three standard design variations, the experienced members of United States Plywood Corporation's and the Weldwood Movable Partition Distributors' staffs are always available to discuss any design custom details which will produce the desired individualistic effect.

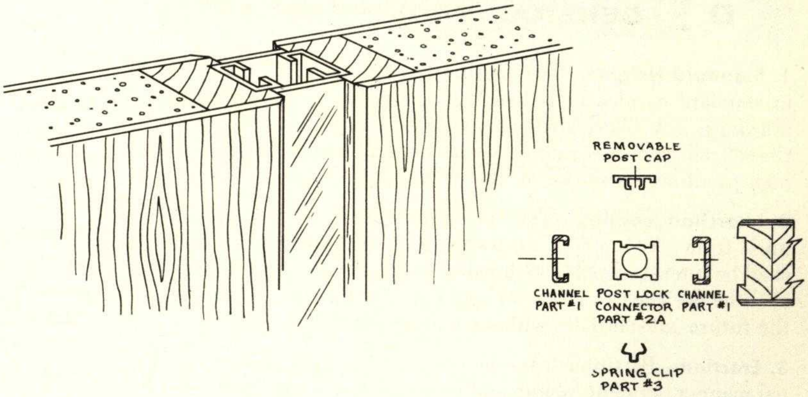
DESIGN 101 WITH 1¾" FLUSH POST CAP

Very similar to Design 100 in appearance except for width of post cap and in design except for connectors and post cap . . . offers a truly flush design with any Weldwood Partition Panel. It is of course a completely modular system—all door and panel units of a similar size are completely interchangeable without disturbing adjacent panels.


REMOVABLE POST CAP
3-WAY LOCKING PLATE PART #5
CHANNEL PART #1
POST LOCK CONNECTOR PART #2A
CHANNEL PART #1
SPRING CLIP PART #3

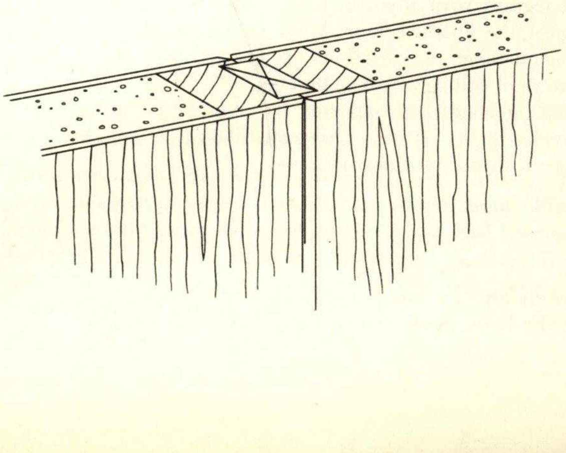
DESIGN 102 WITH ⅞" RECESSED ALUMINUM POST CAP

Provides a very effective custom-look installation at standard price. With the vertical shadow-line of the recessed aluminum post strip and recessed base and recessed head, Design 102-connected panels appear to be set forward from the wall in very attractive manner. All Weldwood Partition Panels can be used with Design 102 and are of course interchangeable. Panels, post strips and all component parts are completely salvageable.


REMOVABLE POST CAP
CHANNEL PART #1
POST LOCK CONNECTOR PART #2A
CHANNEL PART #1
SPRING CLIP PART #3

DESIGN 103 SPLINE, "V" JOINT

Where a choice partition panel is demanded—but where *complete* flexibility of floor division is not a prime requisite—Weldwood panels connected by Design 103 is a logical selection. The panels are connected by wood or metal splines—erection being progressive to require minimum connector parts.



Weldwood Movable Partitions

(sold and erected by Weldwood Partition Manufacturing Distributors)

SUGGESTED SPECIFICATIONS

FLUSH MOVABLE PARTITIONS

Note: Design engineering facilities are available to aid in the development and planning of additional details from this basic system.

A SCOPE

Furnish and install complete the Weldwood Movable Partitions as hereinafter specified and indicated on the plans.

Partitions of other manufacturers which are proposed as generally meeting these specifications may be submitted for approval, stating the exceptions from these specifications and the difference in price effected by their use.

B GENERAL CONDITIONS

The General Conditions are hereby made a part of this Specification. This sub-contractor shall assume all obligations therein that affect his work.

C SHOP DRAWINGS

Submit in duplicate drawings showing details of construction, partition layout, typical elevations, hardware schedule, finish and any special conditions not covered by typical details. Shop drawings must be approved before fabrication and assembly of material.

D GENERAL REQUIREMENTS

1. Standard Heights—The partitions shall be 1¾″ thick and in standard cornice (7′1″) or ceiling heights as shown on the drawings. Top fillers shall be variable in height (as required). Glazed railing or low railing partitions shall match the standard high partitions as shown on the drawings (as required).

2. Interchangeability—The partitions shall be in modular units from 1′0″ to 6′0″ in width in 2″ multiples. Door units shall be interchangeable with panel units of the same size. Units shall be designed to allow for rapid 2, 3 and 4-way additions in the future substantially without removing existing units.

3. Erection—Partitions shall be erected in a rigid and substantial manner, straight, plumb and true with horizontal lines level. The component units shall not swell, shrink, warp, crack or open up. Units shall be interlocked and aligned at all panel and door unit joints. In essence the partition shall be flush; however, all panel edges shall be slightly beveled by breaking the edges and a slight V joint formed with adjacent parts. Partitions shall be installed on top of the finished floor. Floor fastenings shall be concealed and adjustable to variations in floor levels. Reinforcement to the rigid ceiling or other bracing shall be provided on runs over 16′ in length unsupported by cross runs, or as required to provide rigidity. Hung ceilings shall be rigid enough to withstand lateral thrust on the partitions.

Note requirements here for any partitions to have *maximum soundproofing*—sealed base and head and rockwool packed posts, base and head.

4. Electrical Provision—Provision shall be made for wiring and outlet space in the base, posts and in the cornice. Cutouts for outlets, etc., shown on the drawings shall be provided by this sub-contractor. All electrical parts and work shall be by others.

5. Hardware—Door hardware shall be provided as specified on the Hardware Schedule, and installed neatly and accurately. (If required) Door closers shall be concealed overhead type. Doors shall be hung on 1½ pair 4″ x 4″ ball-bearing butts. Louvres shall be provided for doors as shown in the drawings (if required).

E MATERIALS

1. Panels—Shall be Weldwood Partition Panels with WELD-ROK core as manufactured by the United States Plywood Corporation. The thickness shall be 1¾″ full. The face veneer shall be (Specify species required or paint grade, if partition to be painted). The long edges of the panel shall be grooved and a .040 steel channel applied to each edge.

2. Panel Connections—Shall be provided by means of positive metal connectors. Vertical wiring space shall be provided through the metal connectors. The flush post covers of matching Weldwood plywood shall be attached by snap-on spring clips.

3. Doors & Frames—Doors shall be 1¾″ Weldwood "Stay-Strate" Doors. The doors shall be hung with clearance at jambs and heads. The door frames shall be made of wood matching the panels as shown on the drawings. Aluminum (brass) stops shall be provided.

4. Gates—(if required) Shall be provided where shown on the drawings and shall be of same construction as Partition Panels.

5. Glass and Glazing—(if required) Shall be provided of design, quality and thickness shown on the drawings.

6. Base—The base shall be 5″ high and run continuously on both sides of the partition. It shall be removable from either side to allow access to lay-in wiring. The base material shall be ⅛″ satin black Micarta (alternate: ⅜″ wood matching the partition).

7. Cornice—Shall have a ⅜″ projection and run continuously on top of all units. The material shall be wood matching the partition and joints shall be staggered on the two sides. The internal cornice shall also run continuously and provide a wiring space accessible at the posts. Ceiling high partitions shall utilize the standard aluminum ceiling channel as detailed.

8. Top Filler—(if required) Shall be Weldwood Partition Panels that extend to the ceiling and match the material of the partition units. The top filler shall be an integral part of the unit.

Alternate—Double sheetrock top fillers shall be applied to studs on 24″ centers. Joints shall be taped to make joints invisible. Finishing shall be done to match ceiling by painting contractor.

9. End Fillers—Shall be flush and made of ⅜″ matching Weldwood plywood both sides.

10. Finish—Hardwood faces of panels and all exposed wood parts shall be stained or filled depending on the wood, lightly steel wooled and then two coats of a water-white satin lacquer applied, lightly steel wooled between coats (or specify finish required).

weldwood

ACOUSTICAL MOVABLE PARTITIONS

for sound control and privacy • guaranteed to perform as claimed • hardwood faced • 1¾"-thick

• 34 db installation average rating by National Bureau of Standards actual tests

To satisfy the growing desire among architects and owners for privacy and quiet in all kinds of buildings, United States Plywood Corporation has developed this very effective, economical acoustical movable partition . . . average rated at 34 db sound transmission loss at eleven levels over the 125 to 4000 cps sound intensity range. With its connecting posts and installation components and Weldwood Acoustical Doors, it is a completely integrated system.

These hardwood-faced soundproof partition panels show no difference in outward appearance from hardwood-faced standard Weldwood Partition Panels and Doors of the same species. They can be readily combined, using the same connection system.

MOVABILITY The connectors are Weldwood's exclusive metal key design, and offer the same freedom of floor layout and future redesign.

DECORATIVE FACES Any of the full line of Algoma-Made hardwoods, prefinished or unfinished, or custom finished to specification.

PANEL CONSTRUCTION Hardwood veneered ⅛", 3-ply skin over sturdy, stable Novoply core, with acoustical damping and separation within the panel. 1⅜" stiles and rails.

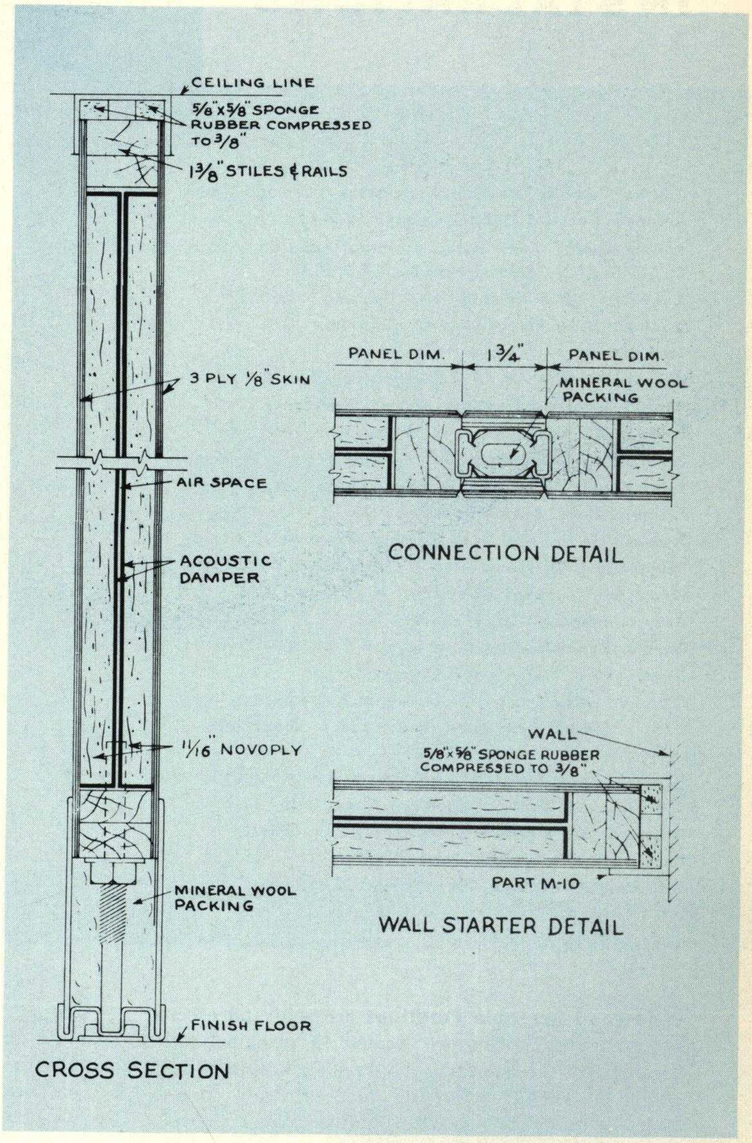
PANEL THICKNESS—1¾" standard.

PANEL SIZES—up to 5/0 x 10/0.

PANEL WEIGHT—6 lb./sq. ft.

CONNECTOR SYSTEMS A modification of Design 101 (see page 9) is recommended, with its 1¾" flush post cap. See details. Modifications of Design 100—with 2¾" flush post cap—and Design 102—with recessed aluminum post cap—may also be detailed where special appearance is desired.

INSTALLATION For variations from the suggested details, consult your Weldwood Movable Partitions Distributor, or your nearby Weldwood Branch Office, or write direct.



CROSS SECTION

CONNECTION DETAIL

WALL STARTER DETAIL

GUARANTEE

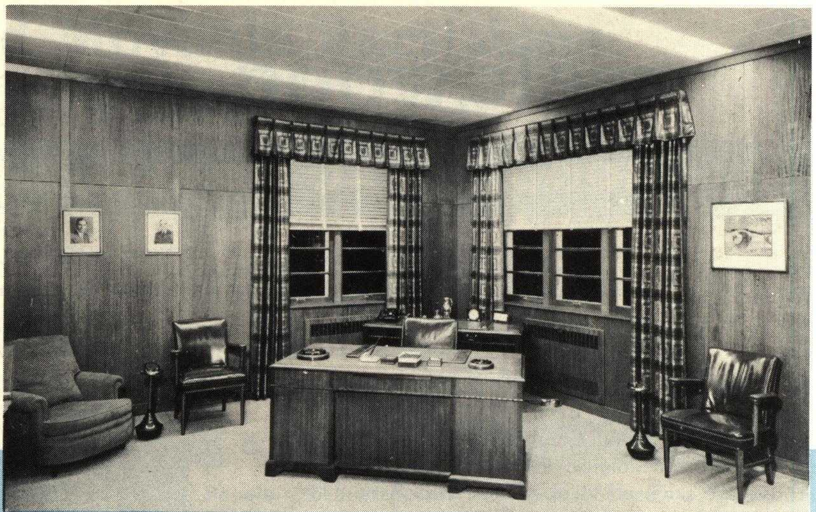
Weldwood Acoustical Partition Panels, when properly installed under normal service conditions, are guaranteed for acoustical performance as claimed and against manufacturing defects for the "Life Of The Building". Should any Weldwood Acoustical Partition Panel fail to meet these standards, in an original installation, United States Plywood Corporation will replace said partition panel including erection and finishing without cost to the owner.

HOW TO SPECIFY

In Section E of Weldwood Movable Partition Suggested Specification, see page 10, substitute:

1. Panels—Shall be Weldwood Acoustical Partition Panels with acoustic core, as manufactured by United States Plywood Corporation. The thickness shall be 1¾" full. The face veneer shall be (Specify species required or paint grade if partition is to be painted). The long edges of the panel shall be grooved and a .040" steel channel applied to each edge.

General Telephone Company, Madison, Wisconsin— Design 100 Weldwood "Stay-Strate" Movable Partitions used on both sub-dividing wall and perimeter wall.



TYPICAL INSTALLATIONS

Admiral Radio & Television Corporation—Chicago, Illinois
Arkansas Power & Light Company—Little Rock, Arkansas
Atomic Energy Commission—General Laboratory and Administration Building—Los Alamos, New Mexico
Blanchette Office Building—New Orleans, Louisiana
Breathern Publishing Co.—Chicago, Illinois
Ciba Company—Fairlawn, New Jersey
Columbus & Southern Ohio Electric Company—Columbus, Ohio
Detroit Osteopedic Hospital—Detroit, Michigan
Eastman Kodak Company—Rochester, New York
Equitable Life Assurance Society—Charleston, West Virginia
Essex County Engineering Building—Verona, New Jersey
Firestone Tire & Rubber Company—Akron, Ohio
Florence 1st National Bank Building—Florence, Alabama
Folger-Nolan Company, Inc.—Hibbs Building, Washington, D. C.
Ford Motor Company—Dearborn, Michigan
Gary Courthouse—Gary, Indiana
General Dynamics Corporntion—New York, New York
General Electric Company—Cleveland, Ohio
General Electric Company—Lexington, Kentucky
General Electric Company—Steam and Turbine Plant, Schenectady, New York
General Motors Corporation—General Motors Building, Detroit, Michigan
B. F. Goodrich Rubber Company—Akron, Ohio
Goodyear Tire & Rubber Company—Akron, Ohio
Greyhound Corporation—Niles, Illinois
Guardian Life Building—San Francisco, California
Haynes-Steelite—Kokomo, Indiana
Homestead Savings and Loan Association—Durham, North Carolina
International Nickel Co.—Detroit, Michigan
International Terminal—New Orleans, Louisiana
Lago Oil and Transport Company, Ltd.—Netherlands, West Indies
Langley Air Force Base—Langley Field, Virginia
Marine Midland Trust Company—Buffalo, New York
Marshall Field Company—Chicago, Illinois
National Biscuit Company—Fairlawn, New Jersey
National Comics Publications—New York, New York
New York State Department of Highways—Binghamton, New York
Oak Park High School—Oak Park, Michigan
Ohio Bell Telephone Company—Cleveland, Ohio
Ohio Oil Co.—Feidlay, Ohio
Park-Davis Pharmaceutical Company—Detroit, Michigan
Provident Mutual Life Insurance Company —Cleveland, Ohio
Prudential Life Insurance Company—Jacksonville, Florida
Public Health Center—Philadelphia, Pennsylvania
Sheraton-Binghamton Inn—Binghamton, New York
Socony-Vacuum Oil Company—Augusta, Kansas
Towerel Building—Fairlawn, New Jersey
Union Oil Company—Los Angeles, California
Washington Title Insurance Company—Portland, Oregon
Wayne County Detention Home—Wayne, Michigan
Westinghouse Electric Company—Pittsburgh, Pennsylvania
Whitman Candy Company—Philadelphia, Pennsylvania
Wisconsin Telephone Company—Milwaukee, Wisconsin

Weldwood Movable Partitions are sold and erected by exclusive distributors located in principal cities throughout the country. These distributors offer a complete sales engineering and erection service. Please contact the nearest United States Plywood Corporation branch office for the name of the Weldwood Partition Panel distributor near you.

Other products manufactured and distributed by United States Plywood Corporation include—Weldwood Fire Doors, and Flush Doors and Soundproof Doors; Weldwood Plywood (hardwoods and softwoods); Westinghouse Micarta®; Kalistron® and Flexwood®; Weldwood Hardboard; Armorply®; Weldwood Chalkboard; Weldwood Adhesives; Weldwood Firzite® and Weldwood Satinlac® and Weldwood Satinlac® Lightener; Porc-Lin-Ply®.

UNITED STATES PLYWOOD CORPORATION

Executive Offices: 55 West 44th Street, New York 36, N. Y.
offices in all large cities
Weldwood
in Canada: WELDWOOD PLYWOOD LIMITED

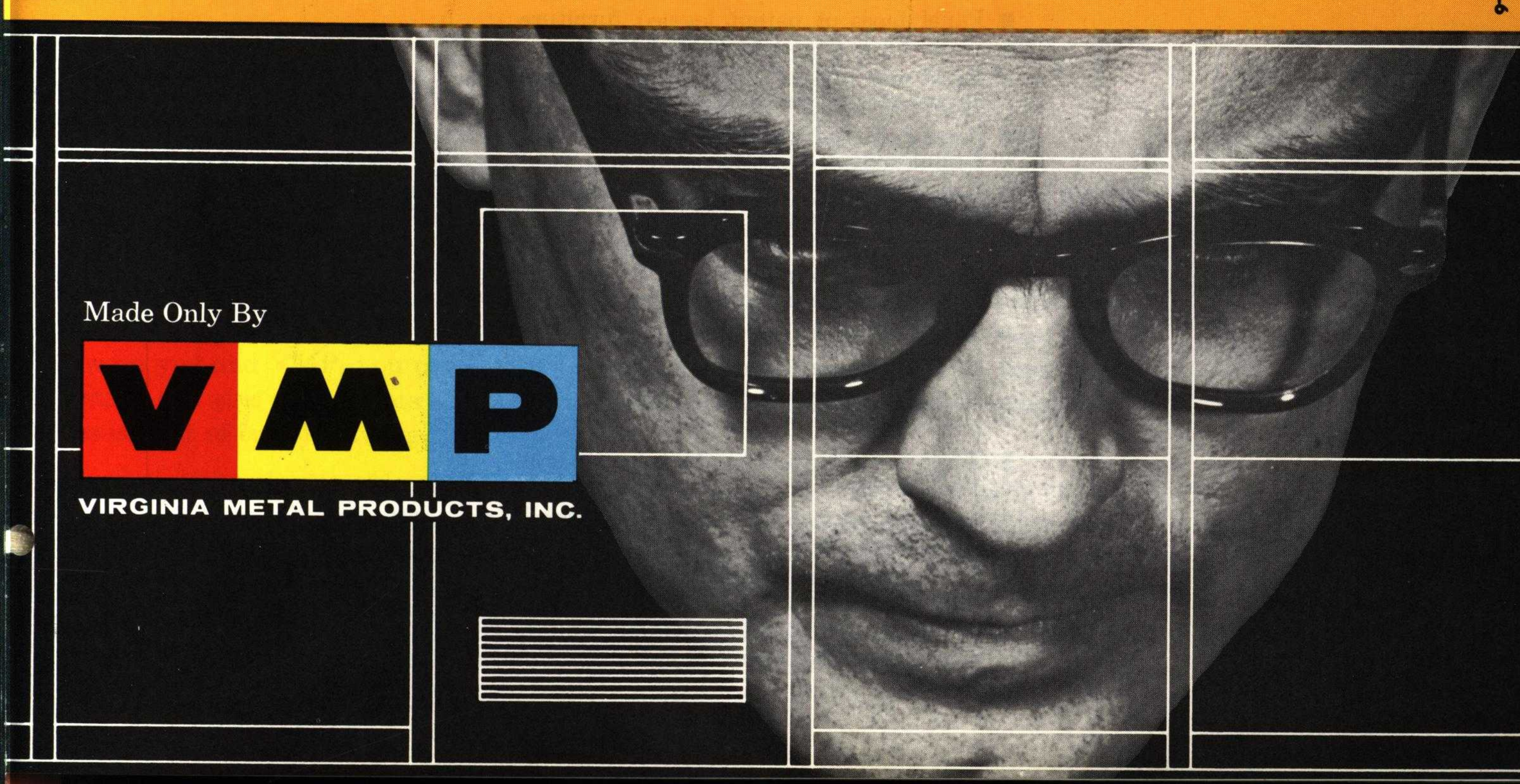
Litho in U. S. A.

AIA 35-H-6

22a
Vi

for
movable
metal
partitions
think first of Mobilwalls

AIA 35-H-6

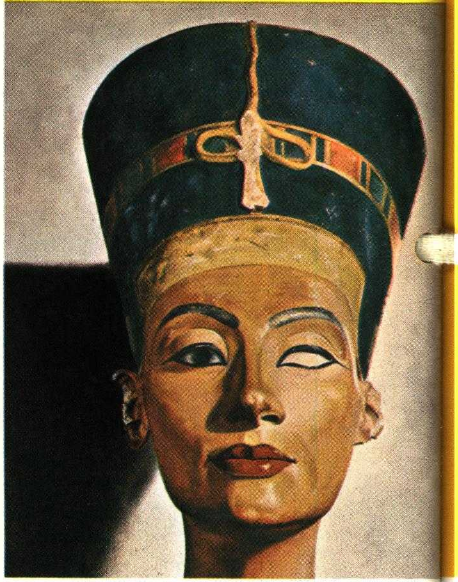


Made Only By

VMP

VIRGINIA METAL PRODUCTS, INC.

Only VMP offers you PERMACOLOR



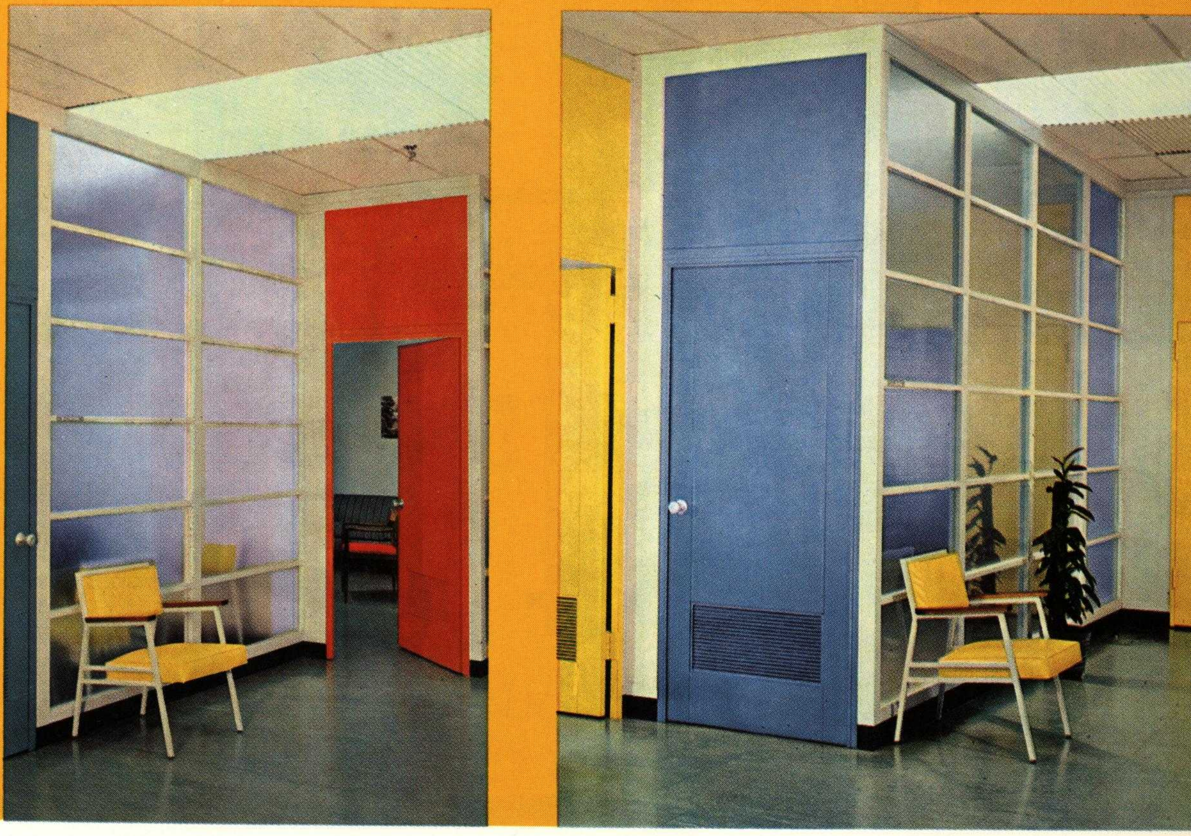
A FINISH THAT DEFIES TIME

Permacolor—far more rugged than the colors that still shine vividly on this head of Queen Nefertiti after some 3300 years. This remarkable new finish for VMP Mobilwalls withstands acid . . . alkali . . . abrasion . . . bleaching light . . . salt spray . . . temperature changes: truly proves its enduring beauty against these enemies of wall texture and color.

Time-defying Permacolor is just one of many reasons 19 of 20 largest U. S. corporations are owners of recent VMP Mobilwall installations . . . why three of 1958's six "Office of the Year" award winners used VMP movable partitions.

WITH THESE OTHER CUSTOMER BENEFITS

- Panel faces of patent leveled furniture steel—U. S. Standard gauges.
- Rigid and rugged construction with the appearance of permanency.
- Accessories quickly available for fast additions or replacements.
- Interchangeable parts assure maximum flexibility as well as low stock inventory requirements.
- The most convenient wiring facilities in the entire modular construction field.
- Sound adapted.
- Virtually zero maintenance.
- Rolled shapes to insure precision of fit of mating parts.
- Field installation by factory trained VMP crews.
- Life-time service for every VMP Mobilwall installation.
- VMP offices or representatives in every major U. S. city.
- Continuous "open-stock" supply of fully interchangeable units.



VMP Mobilwalls, based on the horizontal lines of the Japanese Shoji Screen, reflect the international activities of Dorr-Oliver Incorporated, Stamford, Conn.

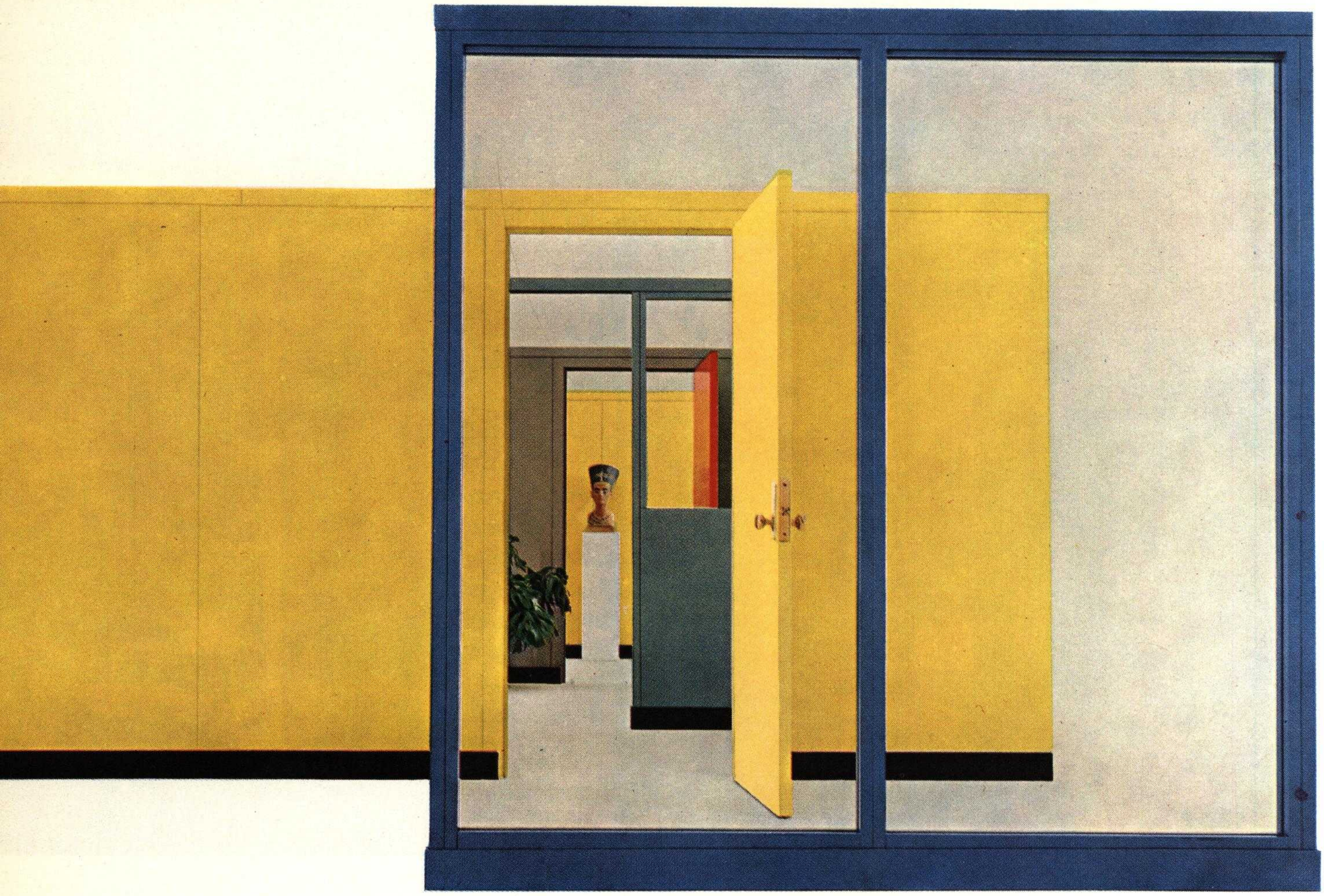
Only VMP offers you . . .

FURAMIC STYLING

. . . A COORDINATED DESIGNING, ENGINEERING AND PRODUCTION SERVICE OFFERED TO YOU ONLY BY VMP

Furamic Styling lets you specify color, arrangement and accessories to fulfill *your* concept and carry out *your* original ideas. Thanks to this creative collaboration between you and VMP, you can create dramatic new interiors to reflect a corporate image . . . give your clients completely individualized interiors at far less than the usual cost of custom styling.

As a starting point, consider the basic VMP partition systems described briefly on the following pages. Then call on VMP design engineers to work with you. (Contact your nearest VMP representative listed on the back cover of this booklet. Or call VMP's Marketing Vice President, Delevan H. Stearns, at 2651 in Orange, Virginia.) Furamic Styling is at your command . . . to develop custom-styled Permacolor Mobilwalls in any price range, from the most economical to the most luxurious.

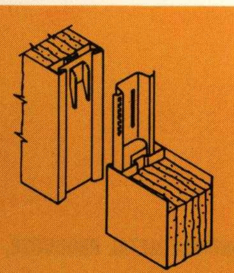


For matchless flexibility at a fraction of former cost...

accent
MONOLINE MOBILWALLS

This single-line partition system combines the smartness of a modern, fully-flush partition with a subtle accent line between panels . . . the rearrangement ease of engineering simplicity unique in the partition field . . . and the thrift of a first and last cost far lower than that of any comparable product.

Secret of Accent Monoline's complete flexibility is an important advance pioneered by VMP engineers, an exclusive new spring spline on which patents are pending. Panels can be changed or replaced from any point of partition run, without jackknifing adjoining panels or disturbing top filler. Thus a single 3″ panel can be changed or a door installed in just five minutes!



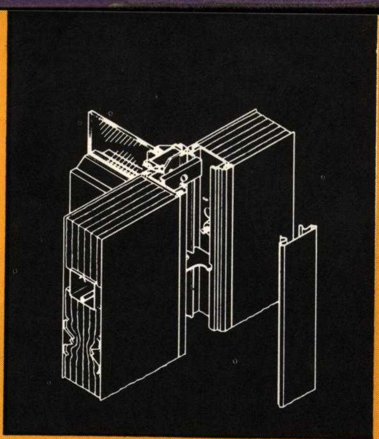
Splines are integral with panel assembly. Four-point panel interlock assures maximum tightness of joint. Heights and widths to fit your job requirements.

RF Installation, Baptist Foreign
Mission Board, Richmond, Virginia

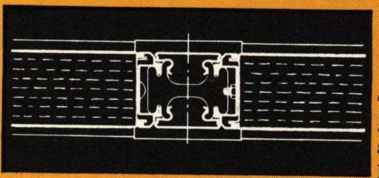
Royal Flush and Semi Flush Mobilwalls have proved their versatility and lasting beauty in offices, schools and hospitals throughout America. With RF, the truly flush, non-recessed panels are 3″ thick, available in all-steel or steel-and-glass combinations. Matching railing and wainscot provide a complete RF interior.

At a somewhat lower cost and with greater versatility, consider VMP type SF, a companion Mobilwall to type RF. SF panels are 2¾ inches thick—similar in construction to RF except that panel surfaces are recessed into the post member, this gives a ⅛ inch offset with posts and post covers. Especially adaptable for rapidly changing needs, as panel readily reduces in width.

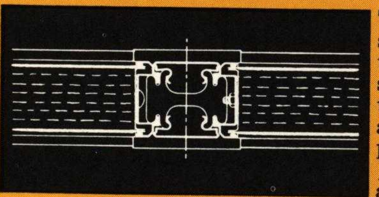
Both RF and SF Mobilwalls feature VMP's famous universal post which accommodates two, three or four-way intersections. Since extension requires no removal or dismantling of adjoining partitions, subdivision or revision of space is fast and economical. Other benefits include: telescopic glazing; four point contact link plates; snap-on mouldings at cornice, post and base. Wide variety of widths, heights and panel arrangements.



VMP's universal post shape offers many advantages. There is no need to remove or dismantle adjoining partition units, should extension be necessary. The simple removal of the post cover permits the attachment of an additional unit with the use of the self-aligning link plate members. Result: Faster subdivision or revision of office space.

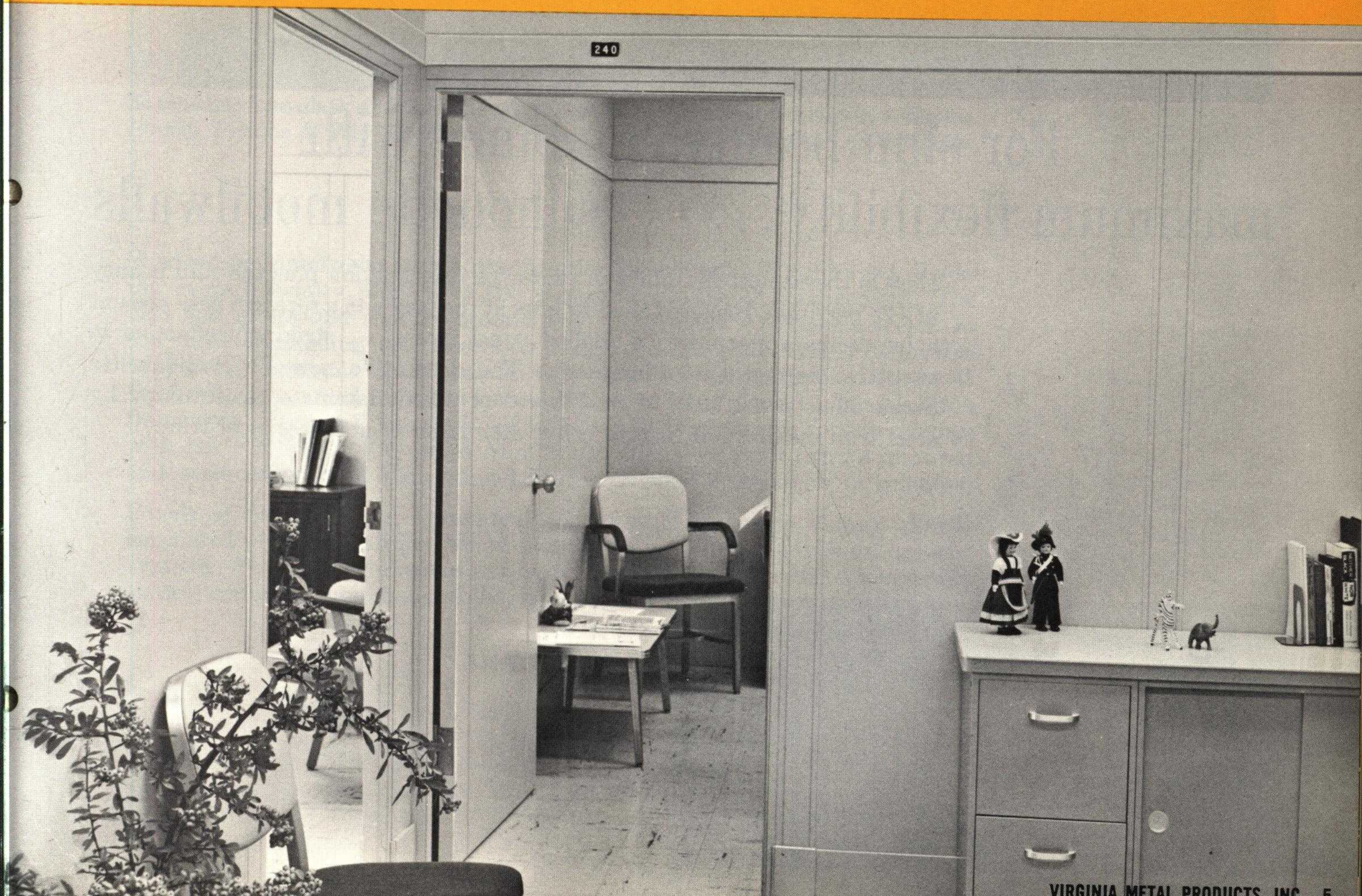


These two profiles illustrate the basic difference between VMP RF and SF partitions. The RF partition shown at left is 3″ thick. Panels are flush with post and pilaster members.

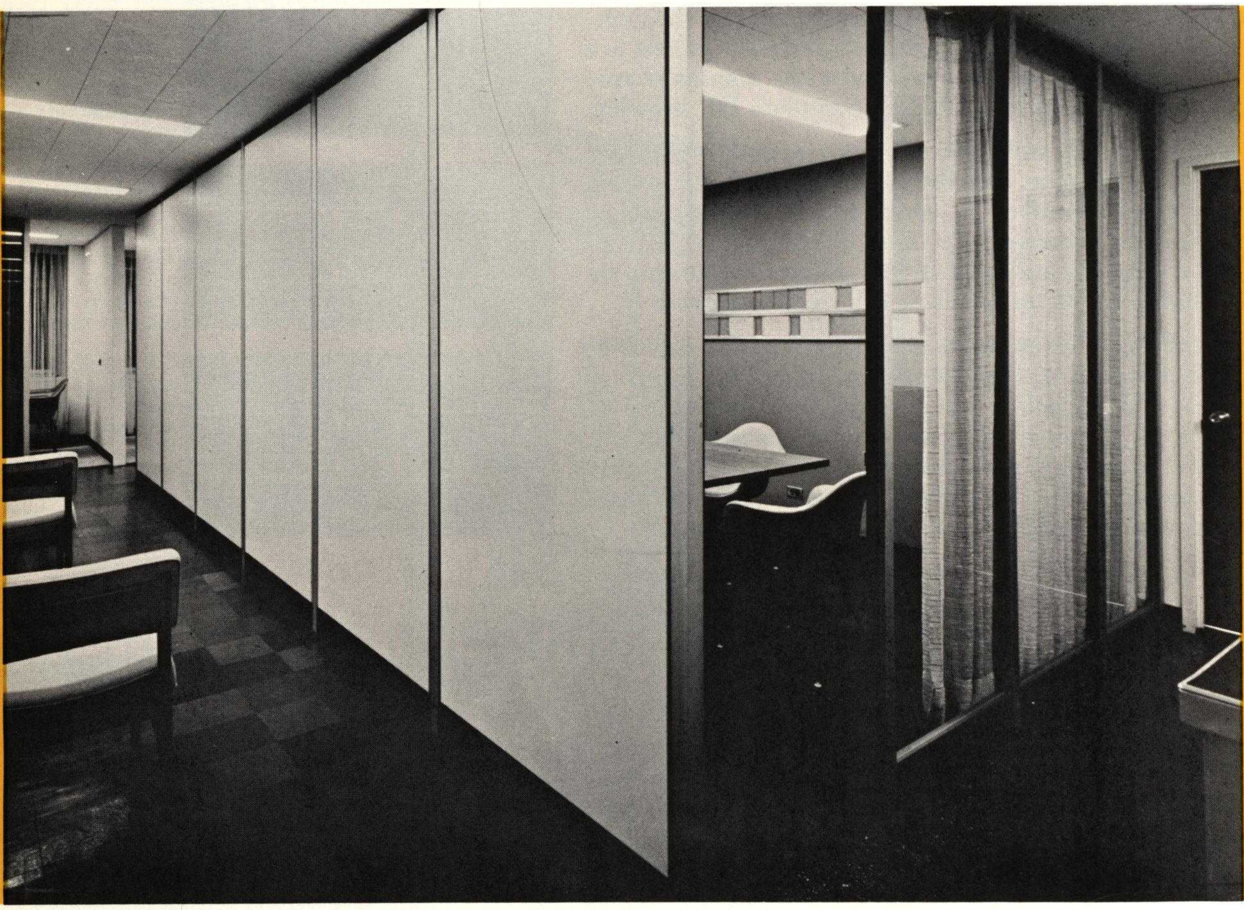


The SF partition, shown at left, is 2¾″ thick. Construction is similar to RF except that the panel surfaces are recessed into the post member, giving a ⅛″ offset with posts and post covers.

For dignity and simplicity in style ... RF or SF mobilwalls

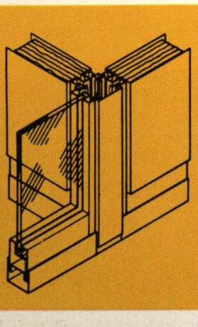


Modern Silhouette Mobilwalls grace the Executive Offices of Cushman and Wakefield, 529 Fifth Avenue, New York City. Photograph by Felix Gilbert.



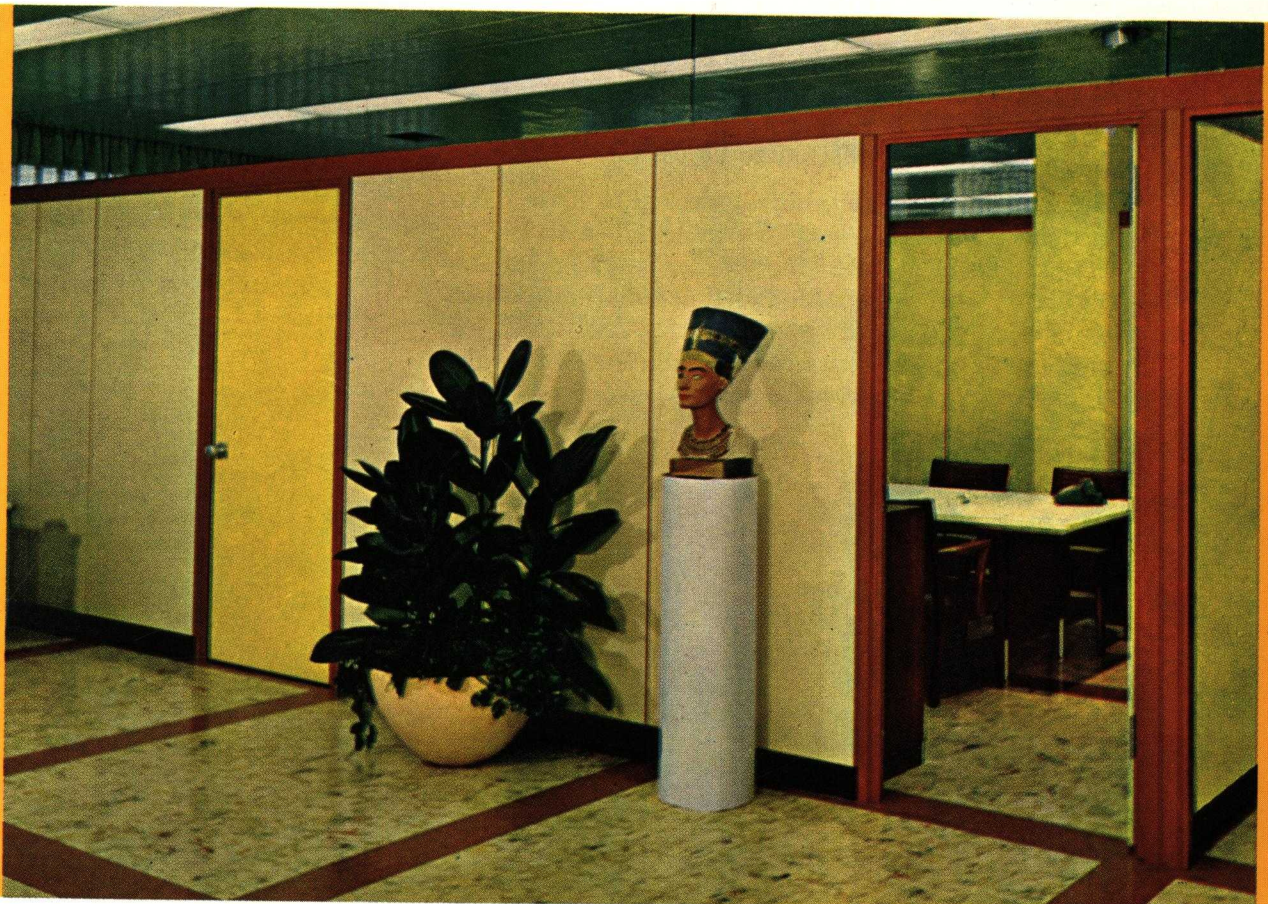
For slim beauty combined with maximum flexibility . . . SL silhouette mobilwalls

Here is the utmost flexibility of unit-type construction plus the slim beauty of a 2″ partition. Recessed shadow lines at the post and a recessed base present a handsome appearance of applied panel faces . . . strikingly effective in executive and general office areas. The decorative new VMP Silhouette Series offers panel faces of steel, wood or plastic laminate, accentuated by steel trim members of neutral color, aluminum or stainless steel trim.



Silhouette's universal post allows two, three, or four-way intersections for faster revision of office space. Positive link-plate system assures rigidity.

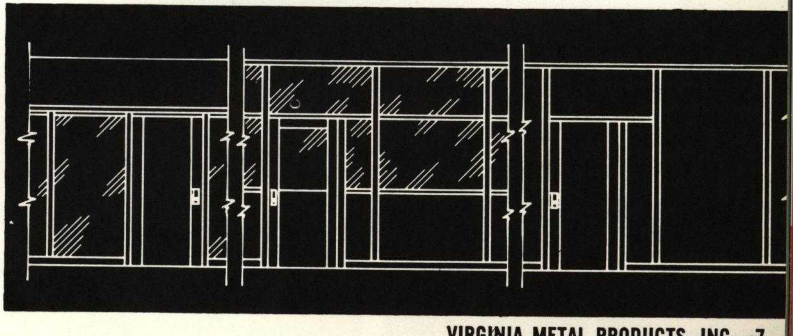
For maximum flexibility of unit type construction... FG shadowline mobilwalls

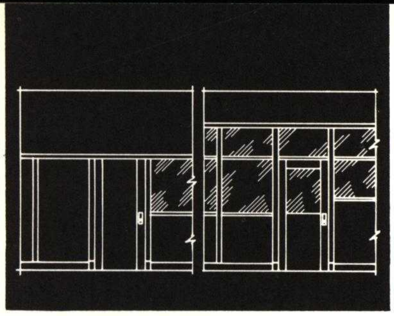


Shadowline Installation, International Minerals and Chemical Corporation, Skokie, Illinois. Perkins & Will—Architects. Turner Construction Company—Contractor.

Shadowline Mobilwalls open a new frontier for modern office interiors. Striking modern beauty joins with the utmost flexibility of arrangement. The deft and interesting shadow around each panel adds a dramatic accent to the most demanding and luxurious areas of a building. And Shadowline Mobilwalls represent an ultimate in unit-type versatility. Panel units are 3″ thick with two sound insulated removable panel faces mounted on a skeleton framework. Because framework is 2⅜″ thick, it is adaptable for interchange with the FP, FF or FM series Mobilwalls. Either or both can be removed and replaced without disturbing adjacent panels. Redecorate in minutes!

Panels of plastic fabric, laminated wood veneer, plywood veneer, plastic laminated plywood, fabric covered tackboards and steel chalkboard are also available for endless variations in textural interest. Positive link-plate action assures complete interchangeability and rigidity.





An attractive and easily maintained wall with flush panels, FP Mobilwall offers many of the features of FF Mobilwalls, but has fewer parts. This means substantial savings on installation and upkeep.

FP is particularly suitable for clerical or filing rooms and other functional areas. FP interlocks with FF and FM Mobilwall styles at the post, providing maximum flexibility when various kinds of functional areas adjoin. Panels are of steel or steel and glass, 2⅜″ thick, set flush with posts. Rock wool insulation. Concealed wireways, continuous strike around floating door jamb is steel instead of rubber.

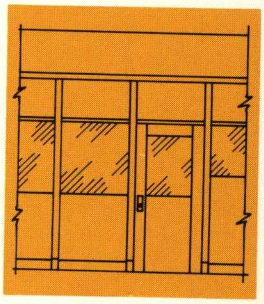
For greatest economy... FP mobilwalls

Below—a striking example of Furamic Styling in Permacolor... VMP Mobilwalls patterned along the lines of the Japanese shoji screen for Dorr-Oliver's new headquarters building in Stamford, Connecticut. Designed to reflect the worldwide activities of this international engineering firm.

nterior Design—Rodgers Associates, New York. Architect—Sherwood, Mills and Smith, Stamford. Contractor—Deluca Construction Co., Stamford.

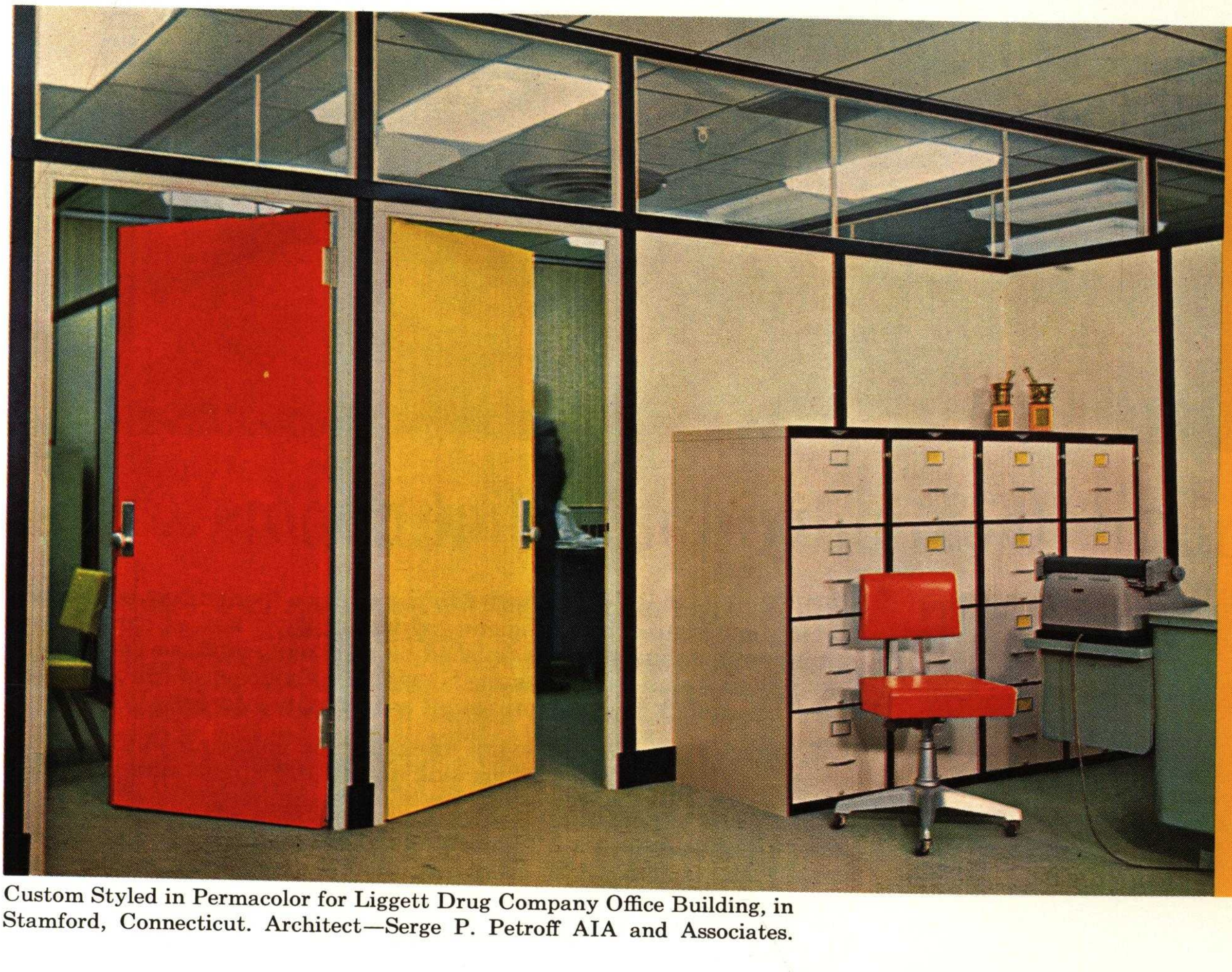
For smart appearance at moderate cost...FF mobilwalls

Available in a wide variety of widths or heights in steel or steel and glass combinations, FF panels are 2⅜" thick, steel, rock wool insulated, have continuous wireways and adjustable door jamb with continuous rubber strike.



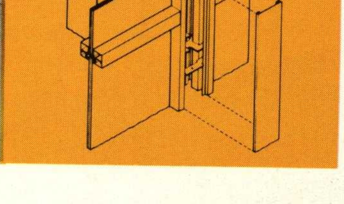
Thanks to extreme standardization of components, FF Fully Flush Mobilwalls lead the modular partition field in offering good looks at a very favorable cost. FF Mobilwalls provide a smooth, fully flush wall suitable for executive or general offices, conference or reception rooms.

A valuable FF plus feature—exclusive in the industry—is the ability to join directly and interlock with FM and FP Mobilwalls. Thus some areas may be partitioned with flush type FF while storage or other adjacent areas are partitioned with FM— a paneled, low-cost partition type—for even greater savings. (See below)

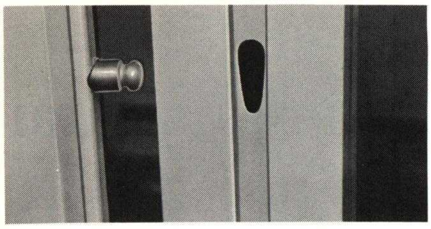


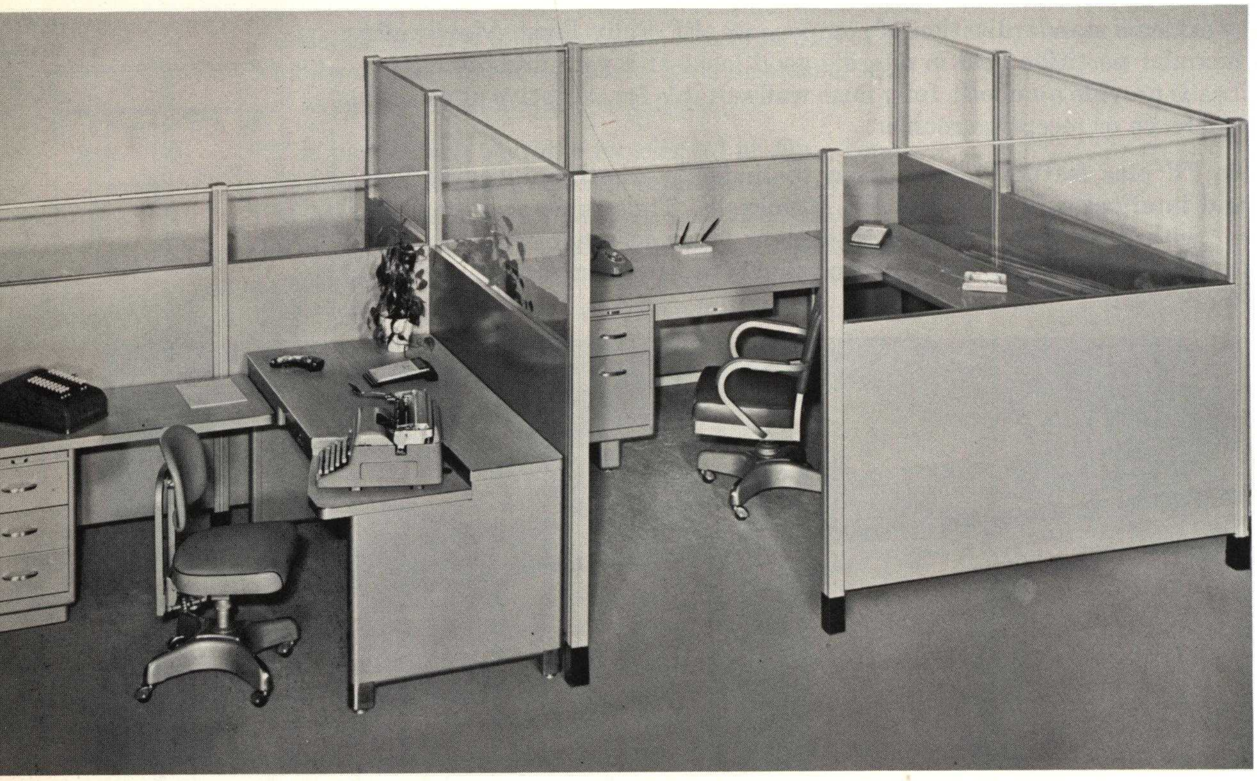
Custom Styled in Permacolor for Liggett Drug Company Office Building, in Stamford, Connecticut. Architect—Serge P. Petroff AIA and Associates.

For Adjacent Areas . . . FM Mobilwalls. This paneled partition interlocks completely with type FP and FF—a VMP exclusive. Plus features include: 2⅜" thick posts; ⅜" thick packed steel panel; concealed wireways in base, posts and cornice; positive link-plate action for assured rigidity; continuous rubber strike on floating door frames; moderate sound-proofing properties. Matching Mobilscreen and Mobilrail available.



Panel Locks Into Post. Tongue and groove construction of panel and post plus two steel locking studs insures a tight and positive connection of the panel to the post. No tools are required to link the panels together.





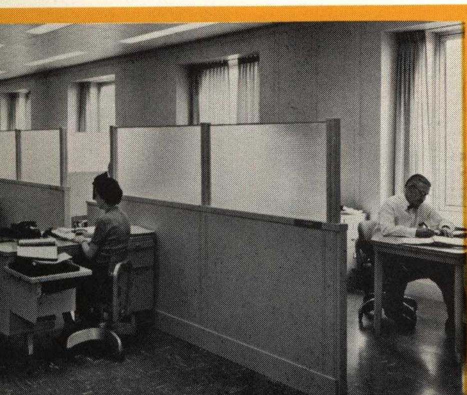
Mobilwall Jr.

for individual office rooms…and…

With VMP 2⅜″ thick full-flush Mobilwall Jr., a moderately priced conversion of large office area into efficient individual work spaces can be made with minimum of confusion. The finished office places emphasis on the economical and easy to install—do-it-yourself engineering concept of Mobilwall Jr., which can be installed by any competent maintenance force.

This advantage eliminates the necessity of engaging outside installation crews. Its clean-cut harmonious look and sturdy appearance make Mobilwall Jr. a most popular choice in flexible office planning.

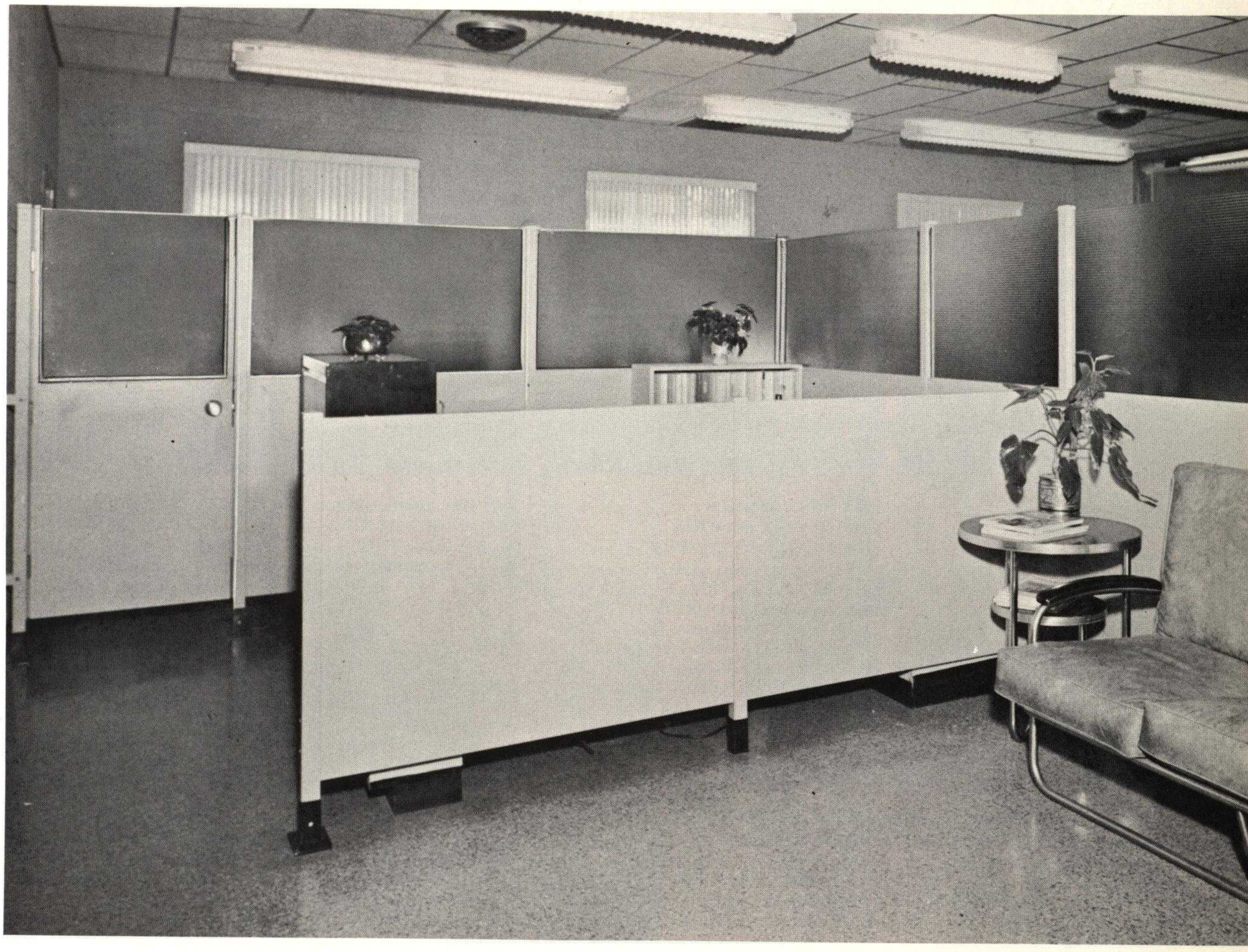
Available in heights of 42″, 54″ and 66″ steel or steel and glass combinations. Panel widths from 12 to 68 inches in 6 inch increments. Parts are interchangeable for multiple use, and one universal post meets all standard partition conditions whether 2-way, 3-way or 4-way extensions are required. Mobilwall Jr. is the same unit thickness as Mobilwall Type FP and FF.



For "low elevation" space sub-division—**RF** & **SF** mobilscreen

Mobilscreen is an eye-level high partition, suitable for use with general lighting and ventilating arrangements. 42″ rail height with 12″ or 24″ of glass above. Mobilrail is designed to match and join Mobilscreen. Offered in 36″, 42″ and 54″ rail heights. Single and double acting gates may be located wherever they are needed.

Metlwal Jr. installation, B & G Olson Company, Inc., Mechanical Contractors, Richmond, Virginia.



Metlwal Jr.

for large area sub-division mobilwall Jr. and metlwal Jr.—

Metlwal Jr., 1¾″ thick, is the *most* economical steel divider wall available and leads the field in simple, inexpensive space control. Like Mobilwall Jr., Metlwal Jr. makes it possible to segregate or sectionalize large areas or rooms on a do-it-yourself basis. As time and motion studies have repeatedly proved . . . this leads to a higher order of business efficiency. Use Metlwal Jr. to divide space—create privacy—regulate traffic—improve efficiency. You can create any office layout without interfering with existing lighting and air conditioning. *And*, your business need not be interrupted during installation. Tailored with many of the details of our full-flush 2⅜″ thick Mobilwall Jr., this thin-trimly designed room divider adequately copes with a majority of office re-arrangement problems.

Available in heights of 42″, 54″ and 66″ steel or steel and glass combinations. Parts are interchangeable for multiple uses and one universal post meets all standard conditions whether 2-way, 3-way or 4-way extensions are required.

For partial partitioning—**RF** & **SF** mobilrail

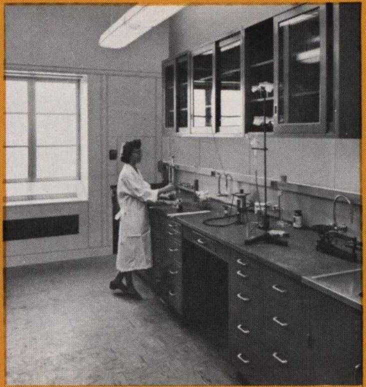
VMP offers the widest variety of glazed and low railings in the industry . . . two flush types, one semi-flush type and two paneled types. Mobilrails are used throughout the country to define work areas, create semi-private offices, control traffic, enclose information desks and reception areas. A proven way to increase work efficiency.

For every specific partition need...

for factories . . .

B-W-WB MOBILWALL

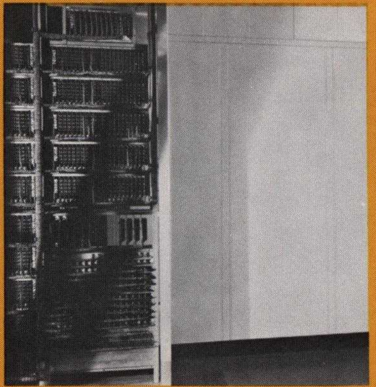
VMP industrial type B, W and WB Mobilwalls are designed for factory space-division. The interchangeable panels are erected between posts vertically for heights up to thirty feet. All-steel, or steel-and-glass is available in these strong, attractive partition types. Glass, single steel or insulated steel panels are completely interchangeable. VMP industrial partitions have a post cover on each side of the post making it possible to take down panels from either side and making wiring accessible from both sides. (Type B only has an independent floating base, removable for wiring.) Type W has narrow muntin spacing; B and WB have wide muntin spacing.



for laboratories . . .

LW MOBIL-LAB-WALL

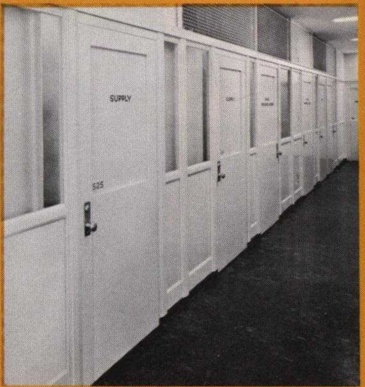
VMP Mobil-Lab-Wall is an exclusive partition, designed for use in laboratories. This 6″ thick partition makes it possible to internally house mechanical and electrical services with service outlets to either wall surface. VMP Mobil-Lab-Walls feature movability, extreme strength and fire resistance. Explosion hazards are reduced since the panels will not disintegrate into fragments. Mobil-Lab-Walls are available in ceiling high, cornice high, or of peninsular or island type application. All units are interchangeable and are adaptable for junction with other standard VMP Mobilwalls, exterior wall wainscot and conventional walls.



for fire protection . . .

FW MOBIL-FIRE-WALL

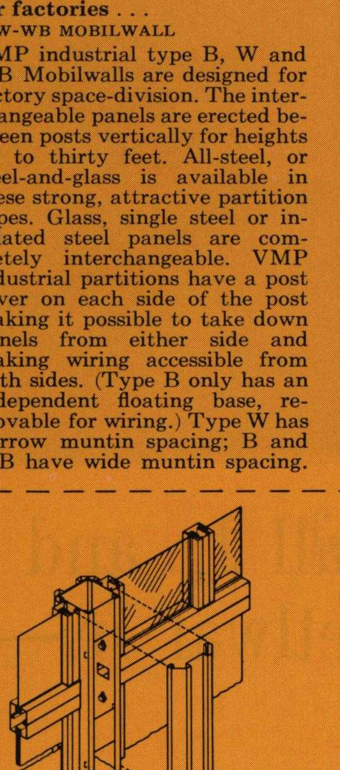
VMP type FW Mobil-Fire-Wall is a handsome, exceptionally strong 3¾″ thick adaptation of type RF. VMP Mobil-Fire-Walls have been approved by Underwriters' Laboratories, Inc. to meet all requirements of the Underwriters and A. S. T. M. one-hour temperature and hose stream fire test. Protects personnel, valuable records and equipment, and reduces fire insurance premiums. Applications include public buildings, schools, hospitals, laboratories, communication companies, and factories. Mobil-Fire-Wall need only be used where fire control is actually required, and all adjoining partitions on either side can be any of the VMP standard Mobilwalls.

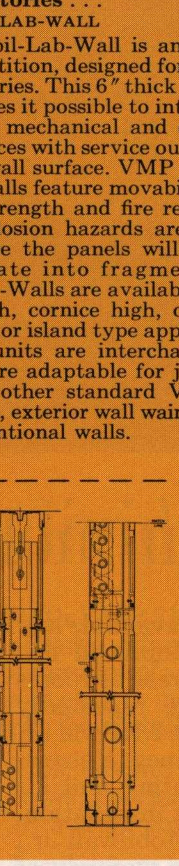


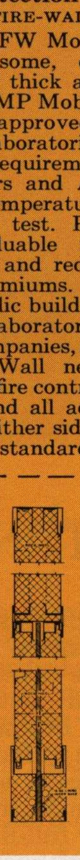
for moulded panel design . . .

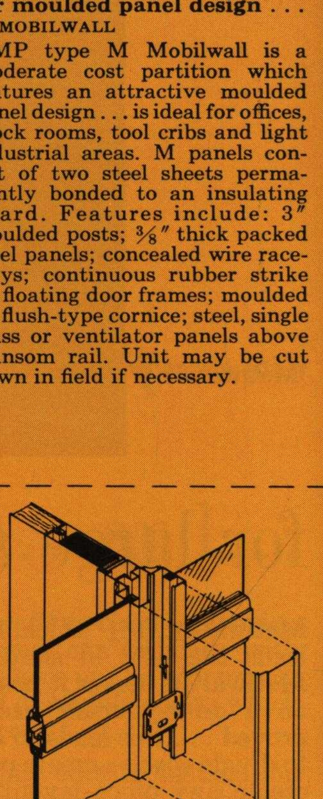
M MOBILWALL

VMP type M Mobilwall is a moderate cost partition which features an attractive moulded panel design . . . is ideal for offices, stock rooms, tool cribs and light industrial areas. M panels consist of two steel sheets permanently bonded to an insulating board. Features include: 3″ moulded posts; ⅜″ thick packed steel panels; concealed wire raceways; continuous rubber strike on floating door frames; moulded or flush-type cornice; steel, single glass or ventilator panels above transom rail. Unit may be cut down in field if necessary.



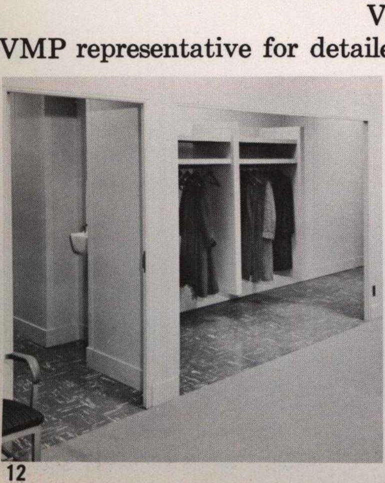


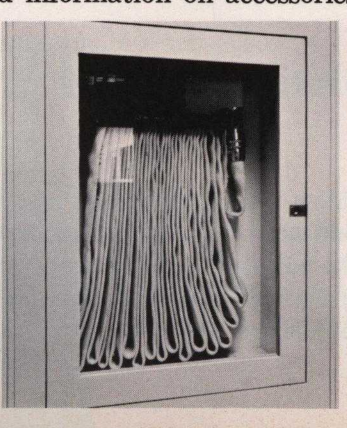


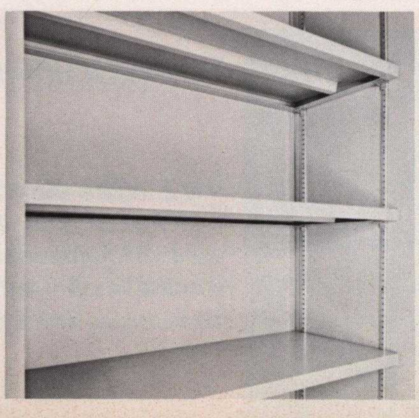


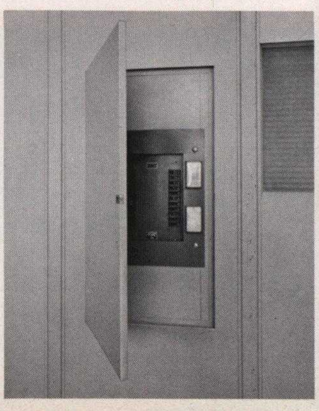
For accessories...

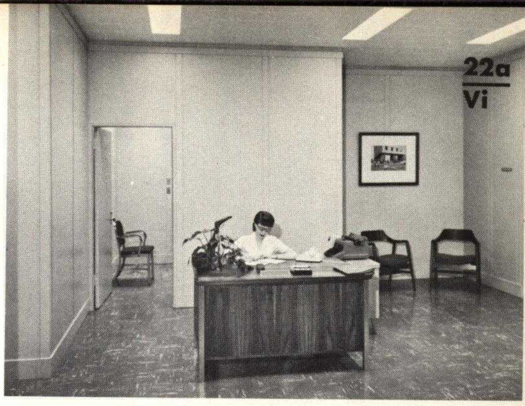
VMP offers the most complete line of accessories available in the industry. Ask your VMP representative for detailed information on accessories and special items for every VMP partitioning system.











Mobilwalls can soon pay for themselves by creating a happier working climate and increasing employee output.

VMP Mobilwalls are designed for "livability" as well as beauty and dependability.

VMP Mobilwalls adapt easily to the best principles of good design and sound organizational planning.

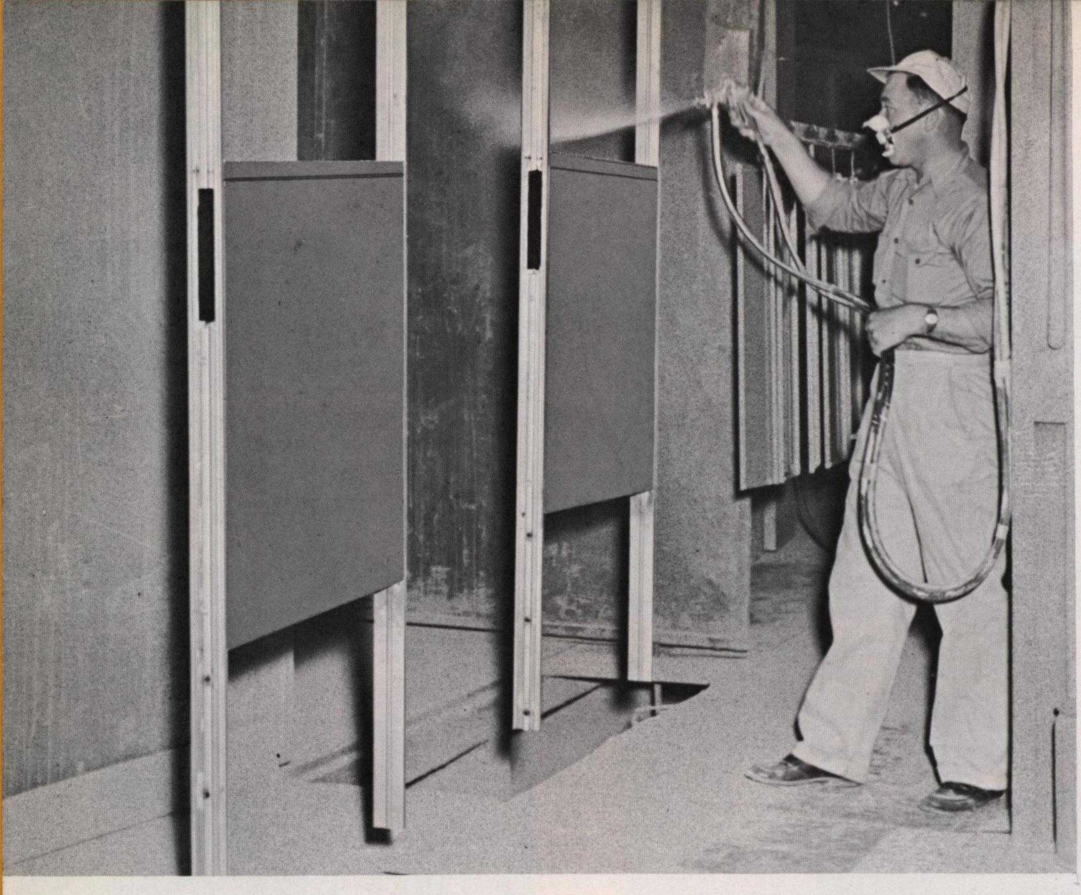
Prompt installation by trained VMP crews eliminates installation problems completely.

For today...

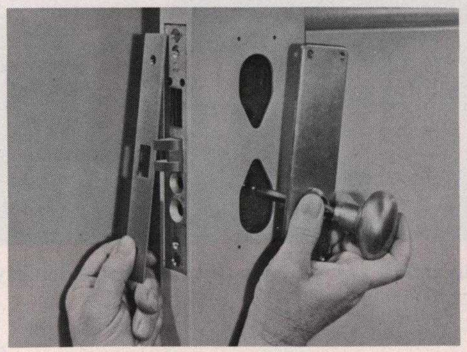
VMP Mobilwall interiors are designed as much for "livability" as for beauty and dependability . . . endlessly versatile in the creative and efficient use of space for all types of buildings. VMP Mobilwalls adapt easily to the best principles of good design and sound management planning. They can shut out glare . . . simplify organizational systems . . . eliminate noisy distractions . . . channel traffic . . . insure privacy . . . contribute to fire safety.

Mobilwalls often more than pay for themselves by creating a happier working climate and increasing employee output.

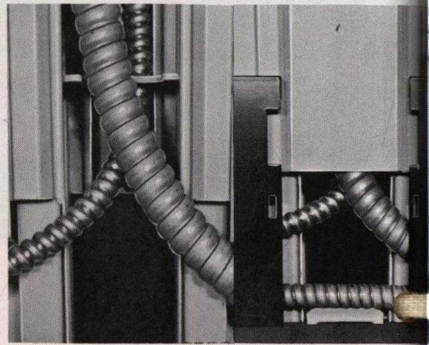
Despite all their plus advantages, Mobilwalls materially reduce construction costs, since their light weight reduces normal building dead loads and superstructure cost. And prompt installation by trained VMP crews eliminates installation problems completely.



Savings in maintenance alone can soon repay the initial installation cost of a VMP Mobilwall interior. Mobilwalls are finished for life—NEVER need repainting. Mobilwalls will not chip, warp, crack or spall. They require no carpentry . . . no plastering . . . no general patching up . . . in fact, practically no maintenance except an occasional soap and water washing to preserve their original lustre.



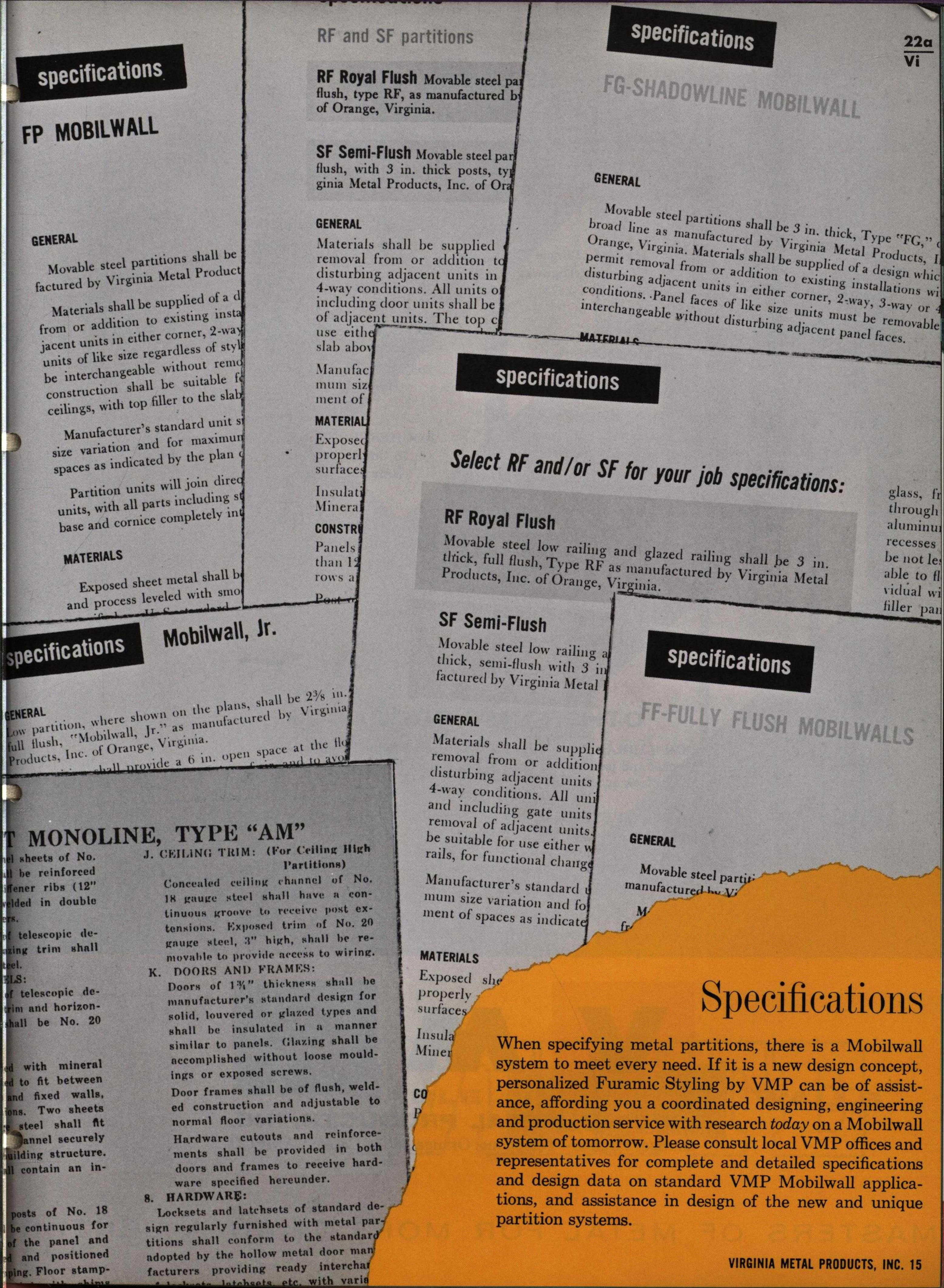
VMP Mobilwalls have been carefully designed to eliminate or simplify almost every problem of replacement or repair. Such a feature as VMP's unique telescopic glazing member, for instance, speeds glass changes and replacements. Doors in VMP Mobilwall systems feature interchangeable hardware. Electrical fittings, too, are interchangeable.



Mobilwall true lay-in wiring facilities are the most complete and accessible in the industry. Electrical changes are simple "snap-open, snap-on" operations. As for utility repairs and additions, VMP Mobilwalls end costly probing and ripping required with conventional construction. Panels remove quickly for easy access to utilities.

and tomorrow

Not even the most forward-looking architect can foresee a company's future or anticipate every need for office layout changes. And it is then that Mobilwalls truly prove their long-range economy! VMP Mobilwalls are endlessly adaptable and versatile. They can be used time and time again . . changed and rearranged in a matter of hours with a minimum of confusion and expense. There's no tearing down and discarding of costly material . . . no expensive rebuilding . . . and little or no loss of working time. Ask your VMP representative for additional proof that VMP Mobilwalls can meet your every partitioning requirement; both this year and all the years to come.



specifications

FP MOBILWALL

GENERAL

Movable steel partitions shall be
factured by Virginia Metal Product

Materials shall be supplied of a d
from or addition to existing insta
jacent units in either corner, 2-way
units of like size regardless of styl
be interchangeable without remo
construction shall be suitable fo
ceilings, with top filler to the slab

Manufacturer's standard unit s
size variation and for maximun
spaces as indicated by the plan

Partition units will join direc
units, with all parts including st
base and cornice completely int

MATERIALS

Exposed sheet metal shall b
and process leveled with smo

RF and SF partitions

RF Royal Flush Movable steel pa
flush, type RF, as manufactured b
of Orange, Virginia.

SF Semi-Flush Movable steel par
flush, with 3 in. thick posts, ty
ginia Metal Products, Inc. of Ora

GENERAL

Materials shall be supplied
removal from or addition t
disturbing adjacent units in
4-way conditions. All units o
including door units shall be
of adjacent units. The top c
use eithe
slab abov

Manufac
mum siz
ment of

MATERIAL

Expose
properl
surface

Insulati
Mineral

CONSTRU

Panels
than 12
rows a

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specifications

FG-SHADOWLINE MOBILWALL

GENERAL

Movable steel partitions shall be 3 in. thick, Type "FG," c
broad line as manufactured by Virginia Metal Products, I
Orange, Virginia. Materials shall be supplied of a design whic
permit removal from or addition to existing installations wi
disturbing adjacent units in either corner, 2-way, 3-way or 4
conditions. Panel faces of like size units must be removable
interchangeable without disturbing adjacent panel faces.

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specifications

Select RF and/or SF for your job specifications:

RF Royal Flush

Movable steel low railing and glazed railing shall be 3 in. thick, full flush, Type RF as manufactured by Virginia Metal Products, Inc. of Orange, Virginia.

SF Semi-Flush

Movable steel low railing a
thick, semi-flush with 3 in
factured by Virginia Metal

GENERAL

Materials shall be supplie
removal from or addition
disturbing adjacent units
4-way conditions. All uni
and including gate units
removal of adjacent units.
be suitable for use either w
rails, for functional chang

Manufacturer's standard
mum size variation and fo
ment of spaces as indicate

MATERIALS

Exposed she
properly
surfaces

Insula
Miner

glass, fr
through
aluminu
recesses
be not les
able to fi
vidual wi
filler pan

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specifications

Mobilwall, Jr.

GENERAL

Low partition, where shown on the plans, shall be 2⅜ in.
full flush, "Mobilwall, Jr." as manufactured by Virginia
Products, Inc. of Orange, Virginia.
shall provide a 6 in. open space at the flo

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specifications

FF-FULLY FLUSH MOBILWALLS

GENERAL

Movable steel parti
manufactured by V

T MONOLINE, TYPE "AM"

el sheets of No.
ll be reinforced
iffener ribs (12"
velded in double
ers.
f telescopic de-
zing trim shall
teel.
ELS:
f telescopic de-
trim and horizon-
shall be No. 20

d with mineral
d to fit between
and fixed walls,
ons. Two sheets
steel shall fit
annel securely
uilding structure.
ll contain an in-

posts of No. 18
be continuous for
of the panel and
d and positioned
ping. Floor stamp-

J. CEILING TRIM: (For Ceiling High Partitions)

Concealed ceiling channel of No. 18 gauge steel shall have a continuous groove to receive post extensions. Exposed trim of No. 20 gauge steel, 3" high, shall be removable to provide access to wiring.

K. DOORS AND FRAMES:

Doors of 1¾" thickness shall be manufacturer's standard design for solid, louvered or glazed types and shall be insulated in a manner similar to panels. Glazing shall be accomplished without loose mouldings or exposed screws.

Door frames shall be of flush, welded construction and adjustable to normal floor variations.

Hardware cutouts and reinforcements shall be provided in both doors and frames to receive hardware specified hereunder.

8. HARDWARE:

Locksets and latchsets of standard design regularly furnished with metal partitions shall conform to the standard adopted by the hollow metal door man
facturers providing ready interchan

Specifications

When specifying metal partitions, there is a Mobilwall system to meet every need. If it is a new design concept, personalized Furamic Styling by VMP can be of assistance, affording you a coordinated designing, engineering and production service with research *today* on a Mobilwall system of tomorrow. Please consult local VMP offices and representatives for complete and detailed specifications and design data on standard VMP Mobilwall applications, and assistance in design of the new and unique partition systems.

VMP SALES OFFICES

Regional

ATLANTA, Georgia
1371 Peachtree Bldg.—Suite 405
Trinity 4-3818

CHICAGO, Illinois
5835 Northwest Highway
Newcastle 1-2473

DALLAS, Texas
5641 Dyer Street
Emerson 8-1021

DETROIT
Dearborn, Michigan
6935 Chase Road
Luzon 1-8500

LOS ANGELES, California
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NEW YORK, New York
355 Lexington Avenue
Yukon 6-5870

ORANGE, Virginia
P. O. Box 229
Orange 2651, Ext. 52

PHILADELPHIA, Pennsylvania
IBM Building, 7800 Ogontz Avenue
Waverly 7-3330

District

BOSTON, Massachusetts
258 Park Square Building
Hancock 6-0648

ROCHESTER, New York
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Browning 1-1026

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Federal 7-6170

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PRINCIPAL CITIES

OTHER VMP PRODUCTS

FOR LIBRARIES—Multi-tier and free standing books stacks . . . bracket and panel types. Carrels. Book conveyers. Vertical file shelving. Book stack accessories.

FOR CONVEYING—Automatic vertical and horizontal transmission conveying systems.

FOR BUILDERS—Single-swing and double acting doors. Sliding bi-passing closet door and frame units. Fire doors. Steel frames.

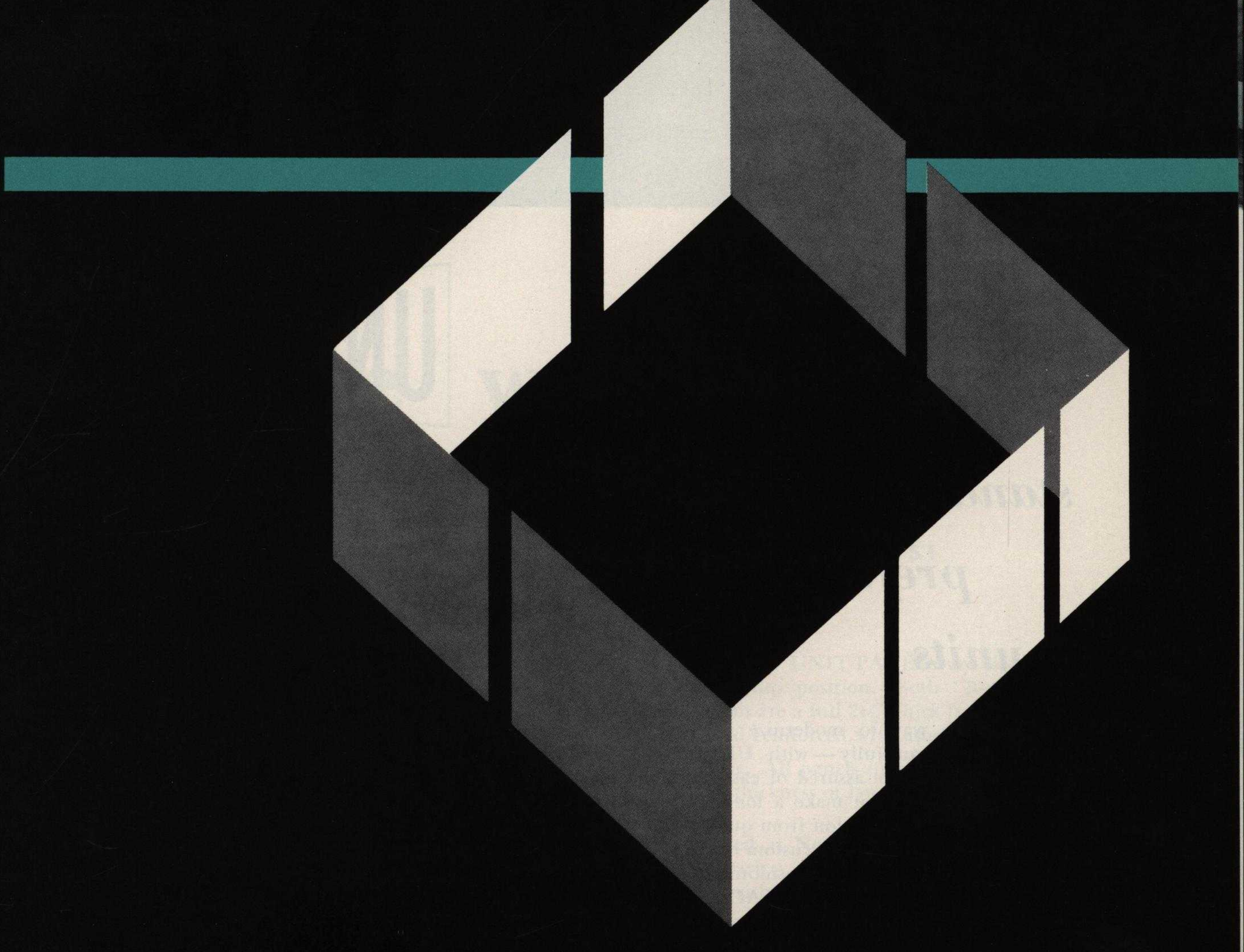
We answer all inquiries for VMP product information within 24 hours of the time received. Our engineering services are available to you without charge or obligation. Write, phone or wire today!

VMP

VIRGINIA METAL PRODUCTS, INC.
Orange, Virginia—Telephone: Orange 2651—Cable: VAMPCO

MASTERS OF METAL FOR MORE THAN A CENTURY

22a
Wh



WHITE

MOVABLE UNIT-PANEL WALLS

WHITE
FLUSH PARTITIONS

UNIT-PANEL

standard prefabricated units

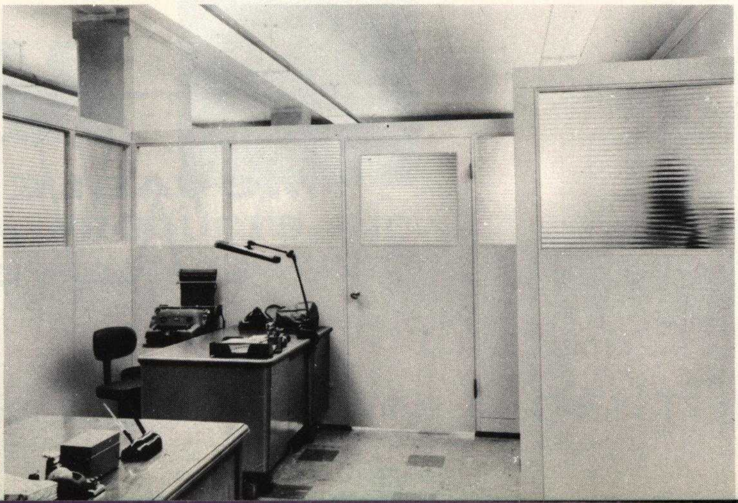
It pays in every way to modernize and organize your working space — beautifully — with UNIT-PANEL Flush Partitions. First, you are assured of easier installation and greater flexibility, and you make a long-range investment. In addition to fine construction from quality materials, you enjoy streamlined flush design, custom quality finish, safety FIRECORE and better sound cushioning — economically. You have a choice of rich "ROCKFACE," the lowest cost *flush* partition on the market . . . or prestige "BIRCHFACE," a *flush* partition with custom look at moderate cost. Both retain factory freshness with minimum upkeep. Both type UNIT-PANEL movable walls are GLAZED AT NO EXTRA COST! Because they're designed for streamlined modern business and adaptable to future growth, progressive offices choose "White" UNIT-PANELS.

MORE FLEXIBILITY, EASIER INSTALLATION!

Because UNIT-PANELS are standardized and prefabricated, flexibility is built right into them. All sections are accurately slotted and slip together quickly and tightly without fastening. Only base and wall scribing are anchored. Yet they are rigid as solid walls due to pinpoint accuracy of fit and concealed screw fastenings. So well engineered that panels can be disassembled and reassembled almost at will — with no costly installation or interference with office work. And White offers a complete design service from layout to finish.

MORE CUSTOM FEATURES FOR LESS!

Though pricing is moderate, you enjoy many of the same features found in custom-built partitions. UNIT-PANELS are flush-designed on both sides for a modern streamlined look, space economy and easy maintenance. UNIT-PANELS arrive beautifully finished from the factory. "ROCKFACE" has a two-coat application in standard Green, or your choice of color on reasonable quantities. "BIRCHFACE" partitions are carefully stained and finished to customer specifications to bring out the beauty of the birch graining. Both partitions contain a 2¼" laminated FIREPROOF asbestos core that cushions sound and reduces fire hazard.



movable walls

UNIT-PANELS ARE BUILT TO LAST, DESIGNED TO ANTICIPATE YOUR CHANGING NEEDS!

Construction Advantages:

Ready for Delivery Anytime! Ready for shipment when your specifications arrive — without a delay. UNIT-PANELS are standardized, prefabricated partitions made up in advance and kept in stock.

Wide Choice of Flexible Units! Available in ceiling height, seven foot, bank type and railing heights . . . and in standard widths, every 6" from 24" to 48", center to center of units. 36" doors and panels are easily interchangeable. Ceiling height partition comes with a choice of prefabricated top units, or variable mineral board top filler, or glazing.

Minimum Installation Expense! Designed and engineered simply and accurately, UNIT-PANELS do not require professional installation, and may be disassembled and reassembled with ease. Complete instructions are included.

Rigid Construction. UNIT-PANELS are rigid as solid walls when locked into position. Both "Rockface" and "Birchface" partitions are a full 2½" thick from face to face, completely filled and reinforced with asbestos.

Safety Fire Core. All panels in cornice high partitions are filled with 2¼" thickness of laminated fireproof asbestos core.

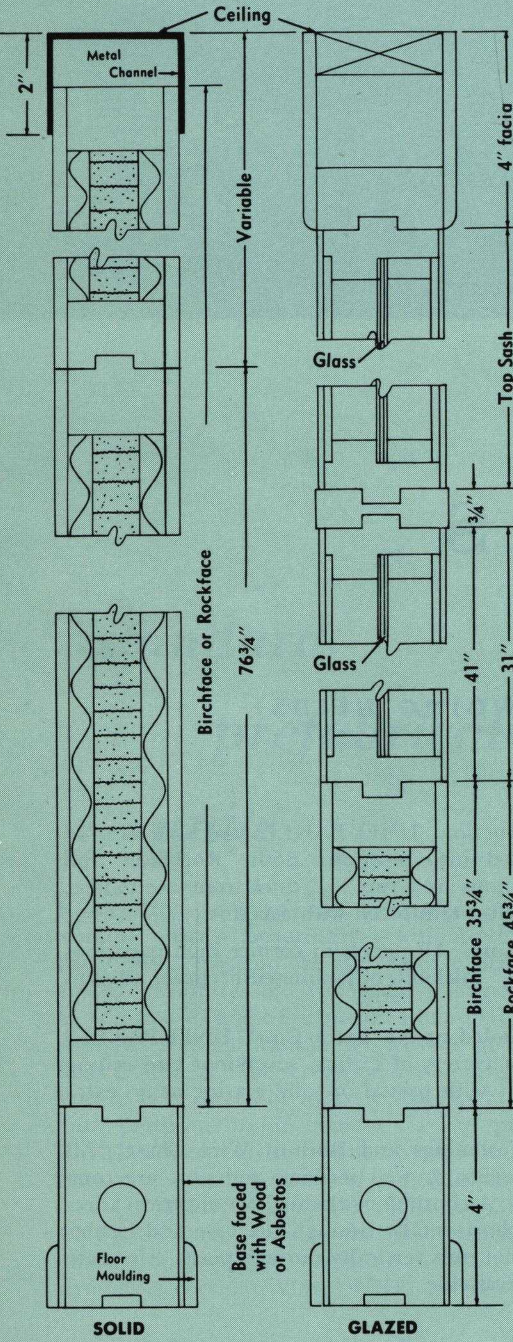
Glazing Included at No Extra Cost! UNIT-PANELS are available in a variety of railing, seven-foot and ceiling high combinations with partial or solid glazing at no extra cost.

Concealed Fastenings and Built-in Wire Chase! All fastenings for baseboard, wall scribing and post are completely concealed. A continuous channel for electrical wires and outlets runs horizontally through the base and header — a similar channel runs vertically through posts. Alternate access wire base available.

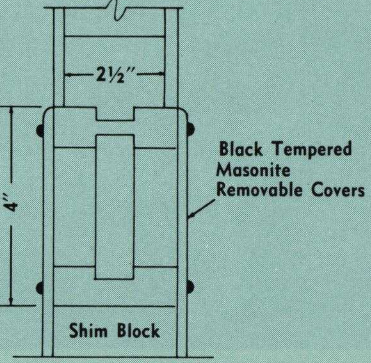
WHITE UNIT-PANEL

PARTITIONS INC.

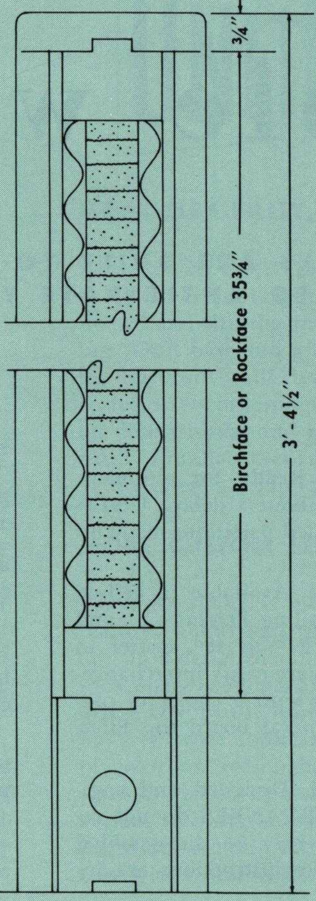
UNIT-PANEL birchface AND rockface TYPICAL DETAILS


Ceiling
Metal Channel
2"
Variable
Birchface or Rockface
76¾"
4" facia
Glass
Top Sash
¾"
Glass
41"
31"
Birchface 35¾"
Rockface 45¾"
4"
Base faced with Wood or Asbestos
Floor Moulding
SOLID
GLAZED

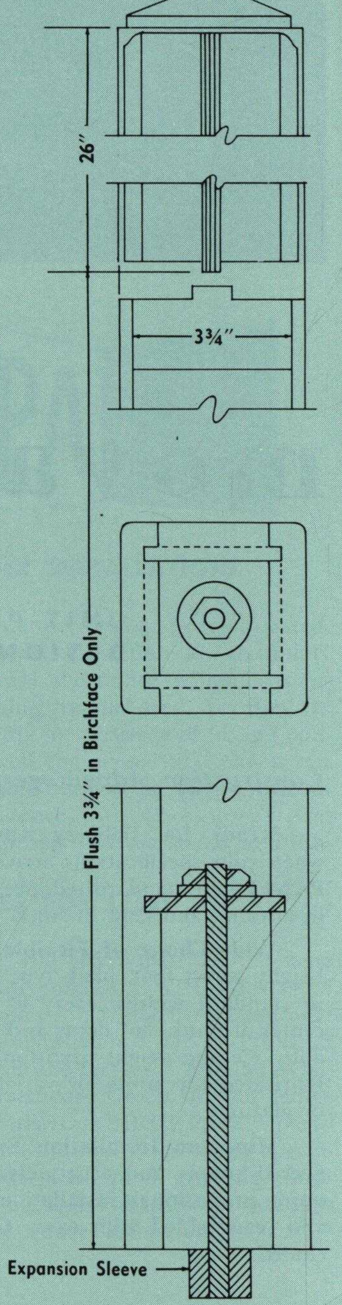
CEILING HIGH PARTITIONS


2½"
4"
Black Tempered Masonite Removable Covers
Shim Block

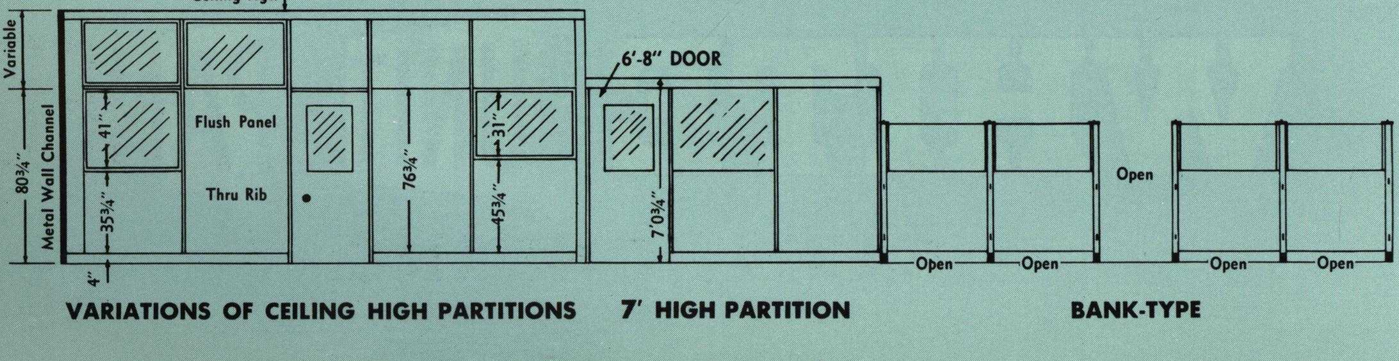
ALTERNATE BASE FOR ACCESS WIRING


¾"
Birchface or Rockface 35¾"
3' - 4½"

RAILING


26"
3¾"
Flush 3¾" in Birchface Only
Expansion Sleeve

BANK-TYPE


Ceiling Hgt.
Variable
80¾"
Metal Wall Channel
41"
35¾"
4"
Flush Panel
Thru Rib
76¾"
31"
45¾"
6'-8" DOOR
7'0¾"
Open
Open
Open
Open
Open

VARIATIONS OF CEILING HIGH PARTITIONS **7' HIGH PARTITION** **BANK-TYPE**

movable wall

SPECIFICATIONS

UNIT-PANEL "ROCKFACE"

Partitions, where indicated on plans, shall be "ROCKFACE" Standard Unit-Panel, prefabricated and all-flush design, as manufactured by White Partitions, Inc., 56 East Glenwood Ave., Hyde Park 36, Mass., and installed at project by their contractor.

Panel and Trim faces veneered with $\frac{1}{8}$" asbestos board. $2\frac{1}{2}$" panels banded with wood frame, with glued-in corrugated asbestos.

Posts: $2\frac{1}{2}$" x 1" standard. $2\frac{1}{2}$" x 4" where required for electrical outlets.

Top cornice and base: $2\frac{1}{2}$" x 4" asbestos board face on laminated wood core. Has continuous wire chase. Base is continuous and secured to floor with steel pins.

Doors: Flush type $\frac{1}{8}$" 3-ply gum on kiln-dried laminated wood core. $1\frac{3}{8}$" x 6'8" in 2'0", 2'6" and 3'0" widths. Factory fitted to frame.

Glass: Standard is double thick clear or $\frac{1}{8}$" luxlite.

Hardware: One pair $3\frac{1}{2}$" x $3\frac{1}{2}$" button tip brass plated butts. Lock or latch sets are supplied. Doors may also be factory cut in for hardware to be supplied by others.

Superstructure to Ceiling: Prefabricated units $2\frac{1}{2}$" face to face of corresponding unit widths to line vertically with 7' high units in variable height up to 76". May be of glazed sash or solid asbestos face.

Pivot or hinged transoms over doors or elsewhere as required.

Superstructure Alternate: May be of flush mineral board filler on wood frame or a combination of sash and filler for exceptionally high ceilings.

Finish: Two factory finish coats in standard green.

UNIT-PANEL "BIRCHFACE"

Partitions, where indicated on plans, shall be "BIRCHFACE" Standard Unit-Panel, prefabricated and all-flush design, as manufactured by White Partitions, Inc., 56 East Glenwood Ave., Hyde Park 36, Mass., and installed at project by their contractor.

Panels and Trim: All trim faces of clear birch. $2\frac{1}{2}$" panels banded with wood frame, and faced both sides with 3-ply birch panel on all asbestos core.

Posts: $2\frac{1}{2}$" x 1" standard. $2\frac{1}{2}$" x 4" where required for electrical outlets.

Top cornice and base: $2\frac{1}{2}$" x 4" birch face on laminated wood core, and has continuous wire chase. Base is continuous and secured to floor with steel pins.

Doors: Flush type $\frac{1}{8}$" 3-ply birch on kiln-dried laminated wood core. $1\frac{3}{8}$" x 6'8" in 2'0", 2'6" and 3'0" widths. Factory fitted to frame.

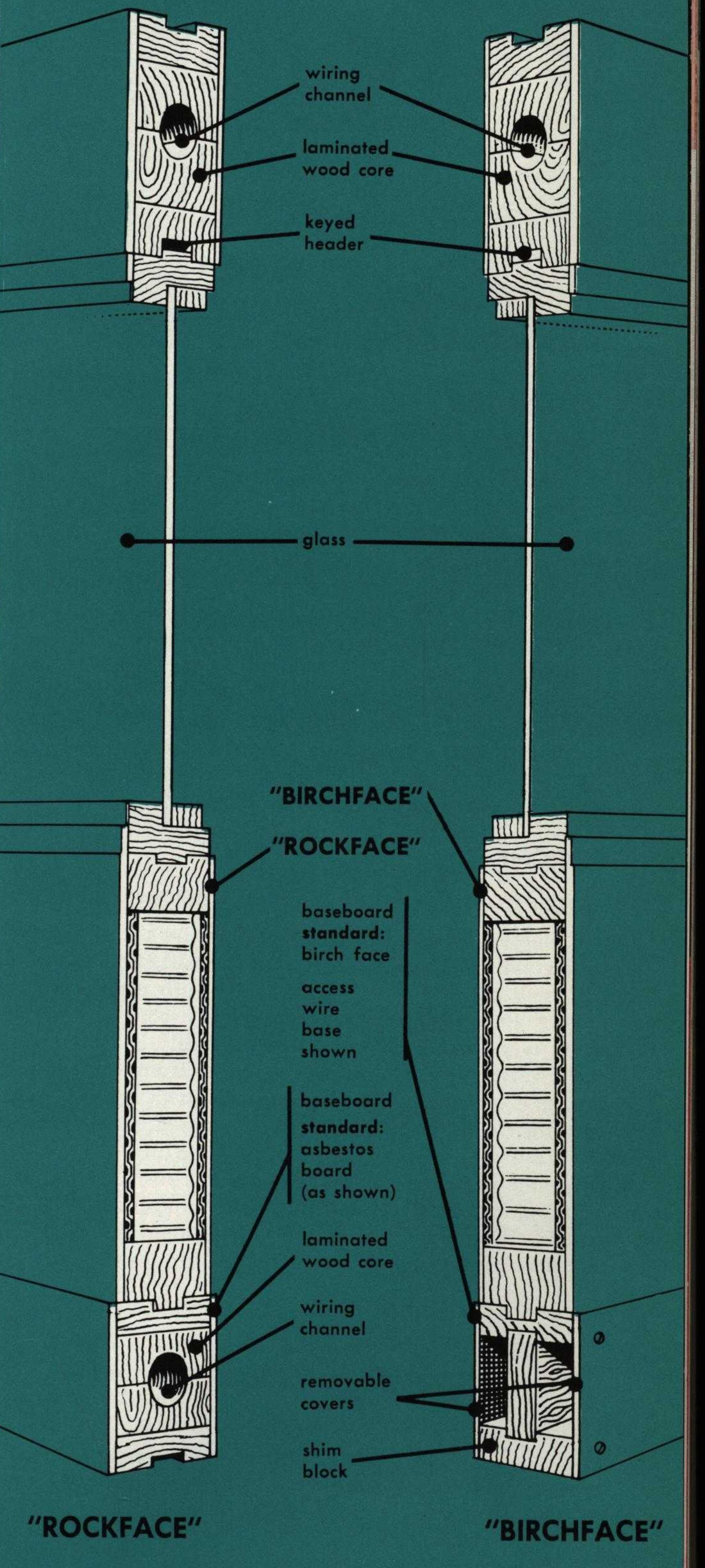
Glass: Standard is double thick clear or $\frac{1}{8}$" luxlite.

Hardware: One pair $3\frac{1}{2}$" x $3\frac{1}{2}$" button tip brass plated butts. Lock or latch sets are supplied. Doors may also be factory cut in for hardware to be supplied by others.

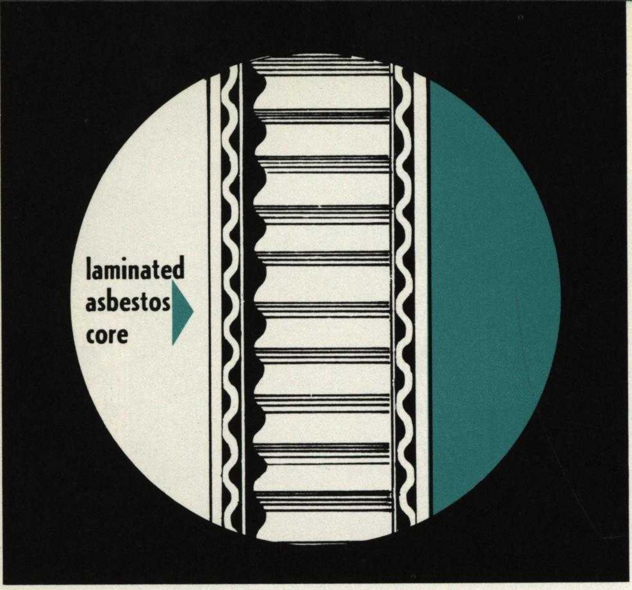
Superstructure to Ceilings: Prefabricated units $2\frac{1}{2}$" face to face of corresponding unit widths to line vertically with 7' high units in variable height up to 76". May be of glazed sash or solid "BIRCHFACE." Pivot or hinged transoms over doors or elsewhere as required.

Superstructure Alternate: May be of flush mineral board filler on wood frame or a combination of sash and filler for exceptionally high ceilings.

Finish: Complete factory finish, 1 coat stain filler to desired color, sealer coat sanded, and finished coat of semi-gloss furniture lacquer. "BIRCHFACE" also furnished natural for finish by others.



SECTION SHOWING CONSTRUCTION



"ROCKFACE"

the Lowest Cost Flush Partition on the Market

More and more offices, plants and institutions are appreciative of the tailored good looks and flexibility of this partition. The initial cost is amazingly low, the upkeep easy, and the design basically so good that it is adaptable to new and changing needs. Moreover, because of its streamlined simplicity, "ROCKFACE" affords space control tailor-made to just the right degree of privacy or semi-privacy necessary in any given work situation. And its careful factory-painted finish lends itself readily to future changes in interior decorating. Modern "ROCKFACE" answers the increasing need for flush partitions that are quickly assembled, budget-priced, impressive and designed for the future. See preceding page for complete specifications.

"BIRCHFACE"

the Flush Partition with a Custom Look

Chosen by executives who know the value of putting up a good front fortified by quality construction. Key offices can now afford natural wood walls with all the warmth, beauty and richness of custom quality paneling. Adaptability is its strong point. "BIRCHFACE" is available in a wide variety of rich stains ranging from traditional to late modern, all of which maintain their original beauty indefinitely and eliminate costly upkeep. Moreover, the units assemble with an ease that only "White" prefabricated precision partitions offer, and are so constructed that expansion or new office plans are vastly simplified. "BIRCHFACE" flush partitions are an investment in the future. See preceding page for complete specifications.

Easier to Assemble and Disassemble!

UNIT-PANELS are so precisely prefabricated that even amateurs have no difficulty installing any of the four heights quickly, with the minimum of inconvenience. First, the continuous base and wall scribing are put up and anchored. The base is secured to the floor by steel pins located about every four feet. Then, all the other components slip neatly into grooves pre-set according to the individual requirements.

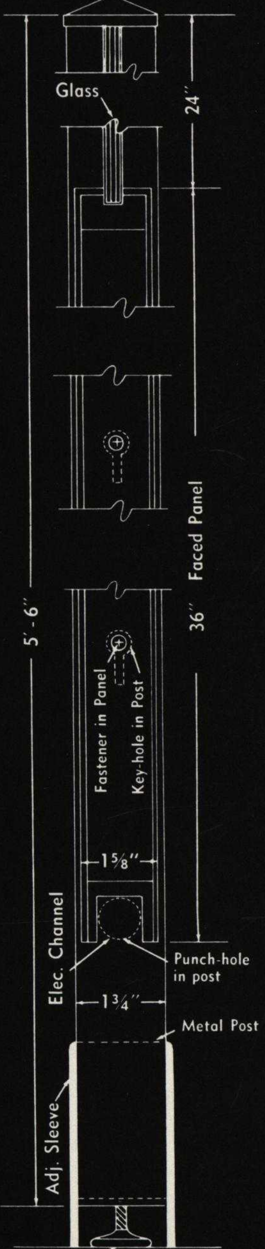
Like the base, the header on the seven foot partition is continuous. A mineral board filler may be installed above to form a ceiling high partition. The header top cap is counterbored and screwed through the top into the vertical rib, post and filler members.

To disassemble, the procedure is easily and quickly reversed.

Complete Assembly Instructions Supplied!

Trained Supervisor Furnished to Help with Initial Installations!

V. I. P. PANEL



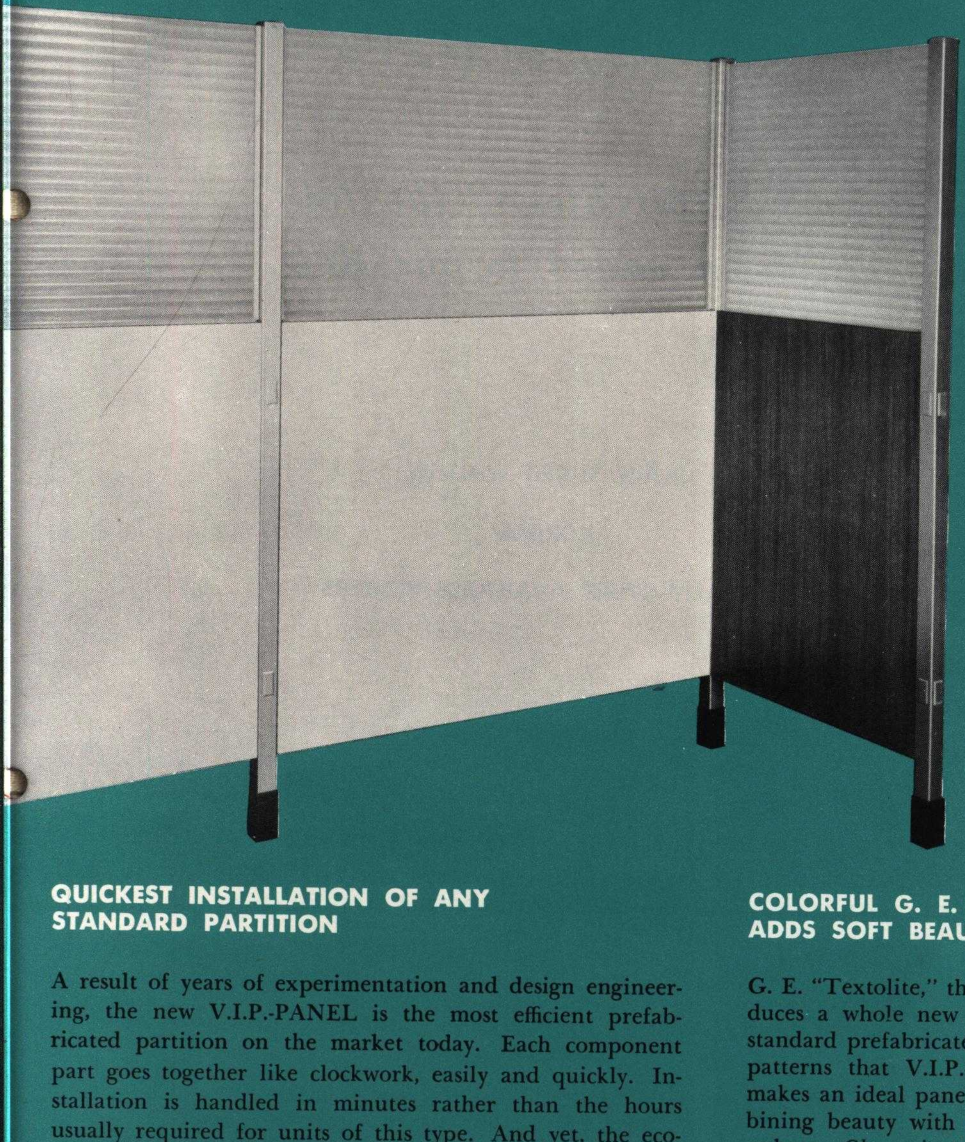
WHITE

PARTITIONS INC.

Introducing AN ENTIRELY NEW CONCEPT IN MOVABLE WALLS!

WHITE's NEW V.I.P. PANEL

FEATURING FAMOUS G.E. Textolite® LAMINATED SURFACING



FOR THE LOOK OF PERMANENT LUXURY IN A MATTER OF MINUTES

QUICKEST INSTALLATION OF ANY STANDARD PARTITION

A result of years of experimentation and design engineering, the new V.I.P.-PANEL is the most efficient prefabricated partition on the market today. Each component part goes together like clockwork, easily and quickly. Installation is handled in minutes rather than the hours usually required for units of this type. And yet, the economical V.I.P.-PANEL excels in beauty and construction, giving the appearance of custom design and costly installation.

The V.I.P.-PANEL offers unbeatable custom features at a *budget price:* the greatest variety of paneling colors and designs ever offered . . . streamlined flush design . . . easy adaptability to future expansion . . . and finely engineered construction features both inside and out. *Honeycomb Core* is puncture-proof, cushions sound, strengthens walls. *Universal Posts* made of heavy gauge metal come fitted with keyhole adapters, finial caps and metal channels for glazing. *Glazed to Order* with your choice of glass. *Floor Glides* included for leveling panels.

COLORFUL G. E. "TEXTOLITE" ADDS SOFT BEAUTY, HARD WEAR

G. E. "Textolite," the long-lived laminated surfacing, introduces a whole new trend in beauty paneling. No other standard prefabricated units offer the variety of colors and patterns that V.I.P.-PANELS can give you. "Textolite" makes an ideal paneling for every type of work area, combining beauty with exceptional durability and almost no upkeep. *Cleans instantly* with a damp cloth! *Will not chip or crack! Resists stains and scratches!* Even the top rails, on both sides of the glazing where wear is greatest, are protected by "Textolite."

Standard V.I.P.-PANELS are immediately available from stock in modern shades of green, gray, beige and wood grain. On special orders you have unlimited choice — G. E. "Textolite" comes in over 70 varieties! Interior decorating to your own specifications is smart and thrifty with "Textolite"-faced V.I.P.-PANELS selected from a full range of solid colors, authentic wood grains, luxurious marbles and stylized patterns. And with all this beauty, you get unbeatable durability.

complete design service . . .

White Partitions, Inc. is prepared to assist you in the planning of any movable partition installation. Our engineers are thoroughly experienced in "space-economy" design for partition installation. We can handle the complete job from initial layout planning and complete fabrication to final installation, or we can assist you on any specific problem relative to your own plan.

Complete unit layouts for all jobs are submitted for approval before shipment. If installation by others, complete instruction data is included. Quotations are given on (1) complete installations with our forces, (2) delivered job site for erection by others.

Our installations predominate the northeast, southeast and mid-west. Our dealer coverage extends north to Ottawa, Canada, south to Roanoke, Virginia and west to Cincinnati, Ohio. Outside of this general area we are in a position to provide design service and to handle specific projects on a limited basis.

In addition to standard "Birchface" the following veneers have been added to our line of natural wood finishes.

PLAIN SLICED OAK

MAHOGANY

AFRICAN MAHOGANY

PLAIN SLICED WALNUT

KORINA

OR ANY OTHER AVAILABLE VENEERS

DISTRIBUTORS IN PRINCIPAL CITIES

Wire or write us for the name and address of your nearest distributor

WHITE PARTITIONS INC.

Designers and Manufacturers of UNIT-PANEL *movable walls for more than 37 years*

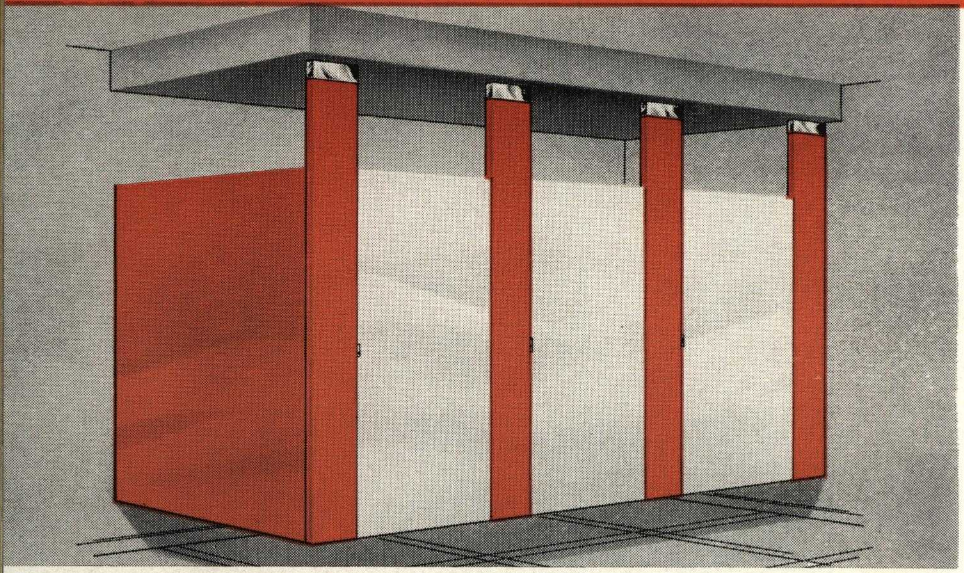
Warehouse and Offices: Hyde Park, Boston 36, Mass.   Factory: Vernon, Vermont

accurate.

metal toilet compartments

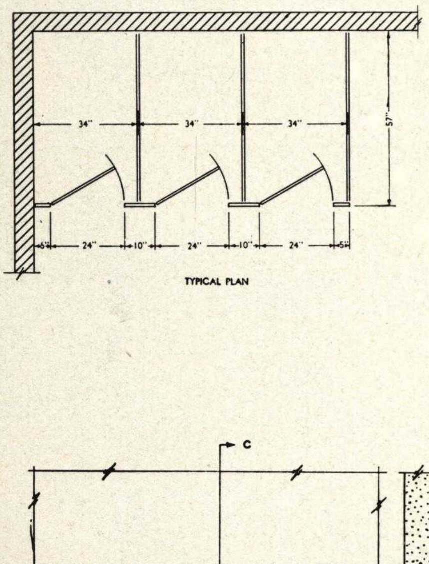
The toilet compartments described on the following pages have been especially designed for beauty and appearance, strength of construction and durability in service. Nearly a quarter century of experience in engineering and manufacturing skill in production of precision tools has gone into the design and fabrication of our enclosures. Practical design, quality materials, precise fabrication and beautiful finishes make Accurate installations the finest obtainable. Hardware is of the best quality and designed and manufactured for durability and appearance.

Ardmore/ ceiling hung type

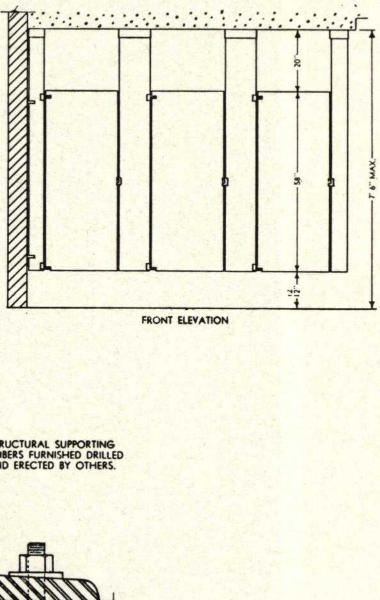


Designed to be rigidly supported from the ceiling and providing a floor area free from obstructions which simplifies cleaning when wall hung fixtures are used. Structural overhead supports furnished by others (generally specified under miscellaneous ornamental iron contract) are to be installed 7'-6" from floor to insure satisfactory installation.

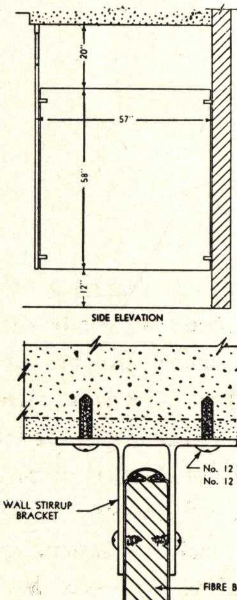
CONSTRUCTION DETAILS


34"
34"
34"
57"
6"
24"
10"
24"
10"
24"
5"

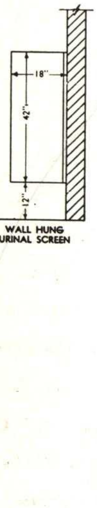
TYPICAL PLAN


20"
7' 6" MAX.
58"
12"

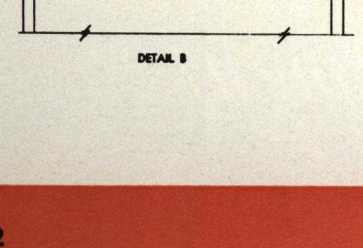
FRONT ELEVATION



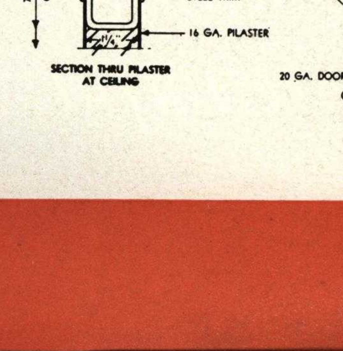
SIDE ELEVATION



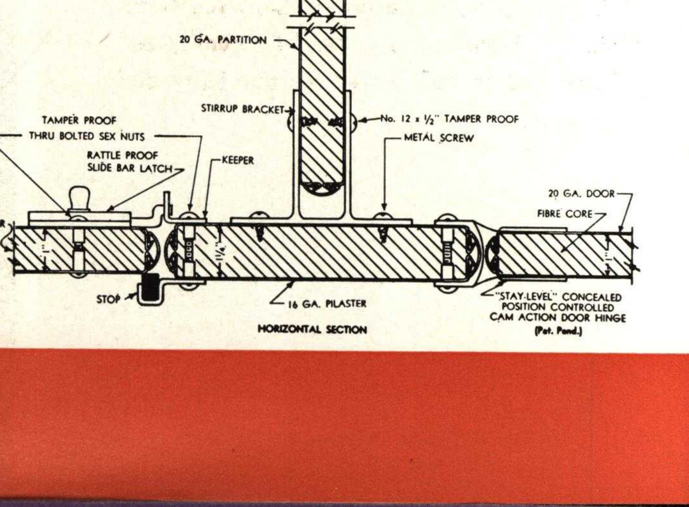
WALL HUNG URINAL SCREEN



DETAIL B


STRUCTURAL SUPPORTING MEMBERS FURNISHED DRILLED AND ERECTED BY OTHERS.
7'-6" FLOOR TO CEILING HEIGHT
3/8" THREADED STUD, BEARING CHANNEL, WASHERS, LOCK AND LEVELING NUTS, FURNISHED BY ACCURATE.
POLISHED STAINLESS STEEL TRIM
16 GA. PILASTER

SECTION THRU PILASTER AT CEILING

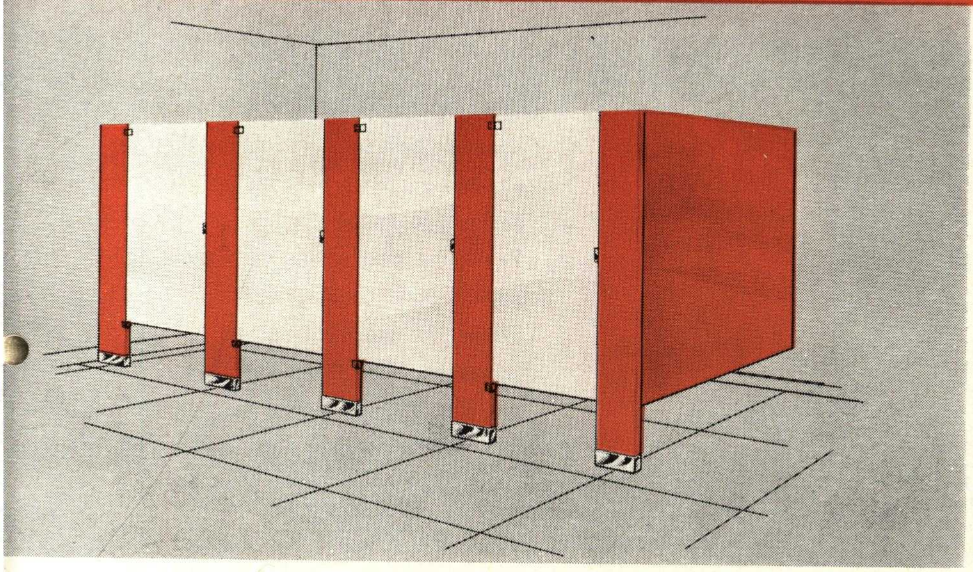

No. 12 x 1¼" RAWL PLUG
No. 12 x 1½" METAL SCREW
WALL STIRRUP BRACKET
FIBRE BOARD CORE
1"
20 GA. PARTITION
STIRRUP BRACKET
No. 12 x ½" TAMPER PROOF METAL SCREW
TAMPER PROOF THRU BOLTED SEX NUTS
RATTLE PROOF SLIDE BAR LATCH
KEEPER
20 GA. DOOR
1"
1¼"
STOP
16 GA. PILASTER
20 GA. DOOR
FIBRE CORE
1"
"STAY-LEVEL" CONCEALED POSITION CONTROLLED CAM ACTION DOOR HINGE
(Pat. Pend.)

HORIZONTAL SECTION

accurate

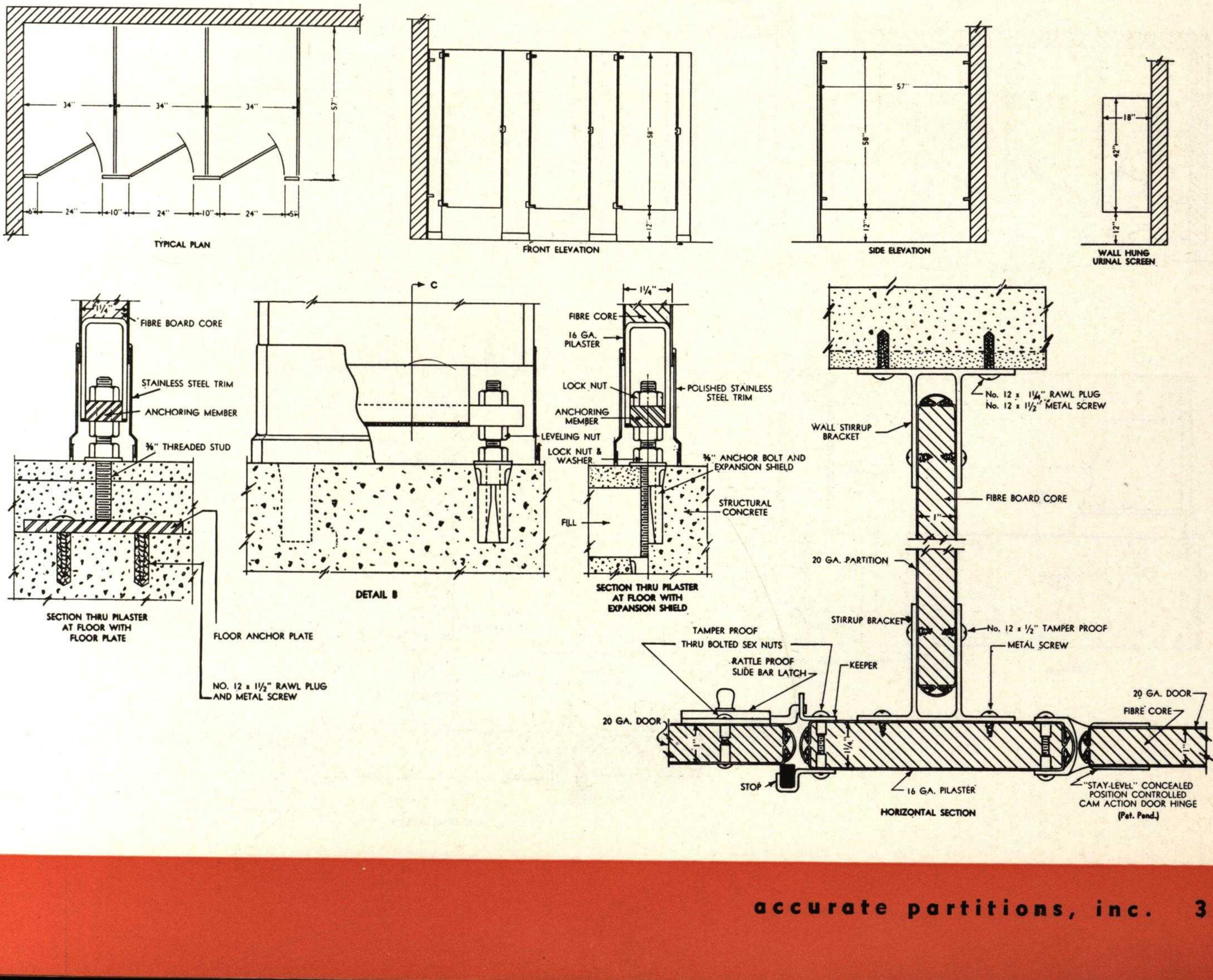
metal toilet compartments

Bayport/ floor supported type

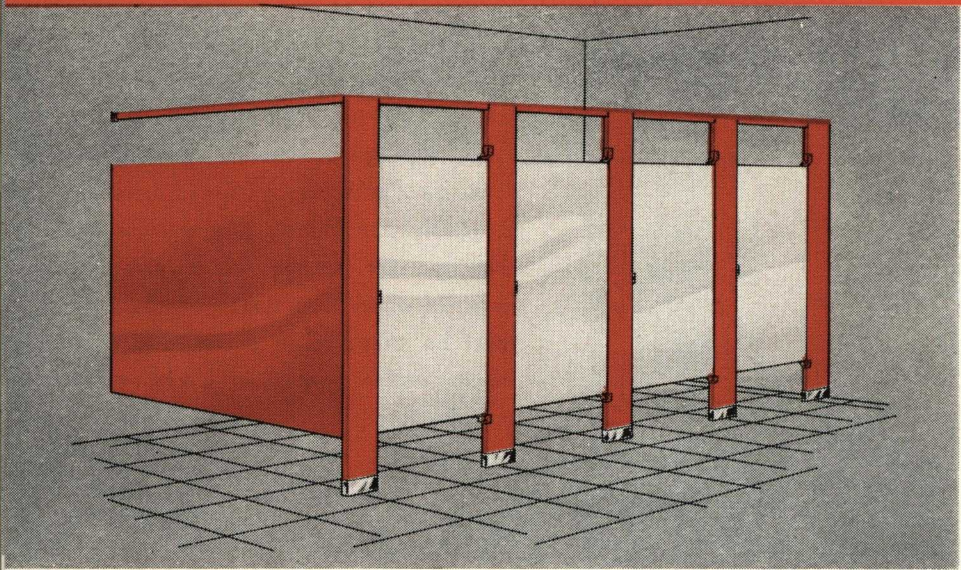


Flush top gives streamlined appearance by eliminating overhead bracing. Ruggedly constructed and particularly desirable for schools where climbing may be a problem. Floor construction must be of sufficient strength to hold anchor bolts or concealed anchor plate must be used.

CONSTRUCTION DETAILS

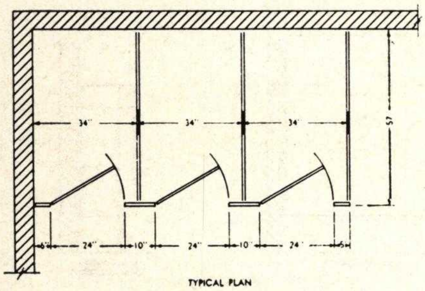

34"
34"
34"
57"
6"
24"
10"
24"
10"
24"
5"
TYPICAL PLAN
58"
12"
FRONT ELEVATION
57"
58"
12"
SIDE ELEVATION
18"
42"
12"
WALL HUNG URINAL SCREEN
1¼"
FIBRE BOARD CORE
STAINLESS STEEL TRIM
ANCHORING MEMBER
⅜" THREADED STUD
SECTION THRU PILASTER AT FLOOR WITH FLOOR PLATE
FLOOR ANCHOR PLATE
NO. 12 x 1½" RAWL PLUG AND METAL SCREW
C
DETAIL B
1¼"
FIBRE CORE
16 GA. PILASTER
LOCK NUT
ANCHORING MEMBER
LEVELING NUT
LOCK NUT & WASHER
POLISHED STAINLESS STEEL TRIM
⅜" ANCHOR BOLT AND EXPANSION SHIELD
STRUCTURAL CONCRETE
FILL
SECTION THRU PILASTER AT FLOOR WITH EXPANSION SHIELD
No. 12 x 1¼" RAWL PLUG
No. 12 x 1½" METAL SCREW
WALL STIRRUP BRACKET
FIBRE BOARD CORE
1"
20 GA. PARTITION
STIRRUP BRACKET
No. 12 x ½" TAMPER PROOF METAL SCREW
TAMPER PROOF THRU BOLTED SEX NUTS
RATTLE PROOF SLIDE BAR LATCH
KEEPER
20 GA. DOOR
1"
1¼"
STOP
16 GA. PILASTER
20 GA. DOOR
FIBRE CORE
1"
"STAY-LEVEL" CONCEALED POSITION CONTROLLED CAM ACTION DOOR HINGE (Pat. Pend.)
HORIZONTAL SECTION

Concord / flush type

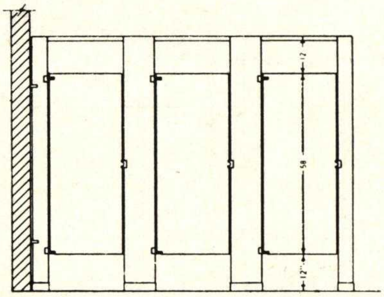


The design and construction of this headrail braced compartment makes it a popular style because of its adaptability to most types of buildings. Recommended where no special ceiling and floor construction is possible. Strong in construction yet neat in appearance. The flush partitions, doors and pilasters create a harmonizing design and provide ease in cleaning.

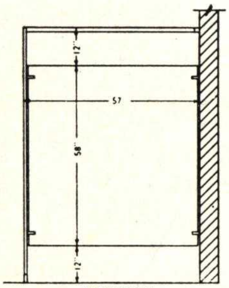
CONSTRUCTION DETAILS


34"
34"
34"
57
6"
24"
10"
24"
10"
24"
5"

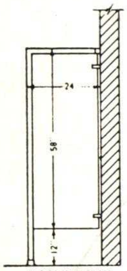
TYPICAL PLAN



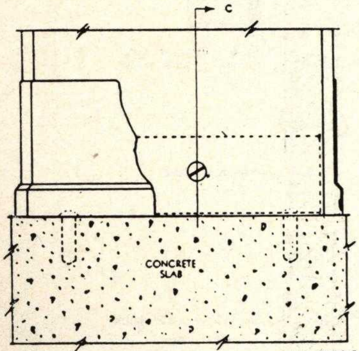
FRONT ELEVATION



SIDE ELEVATION

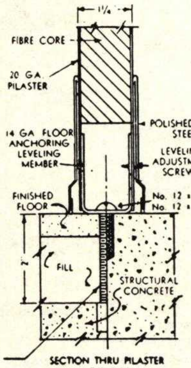


FLOOR SUPPORTED URINAL SCREEN

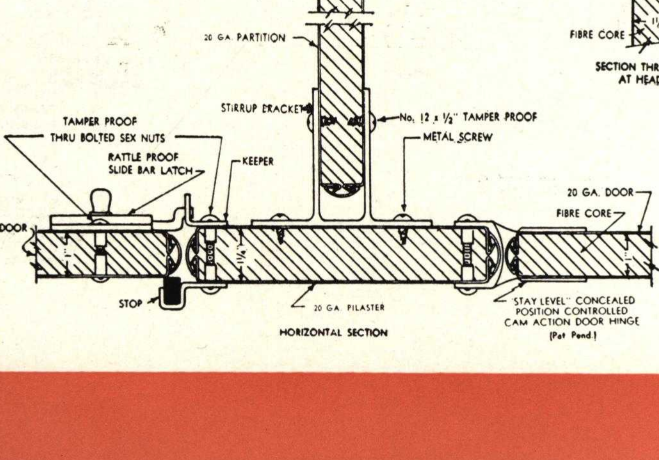

C
CONCRETE SLAB
D

DETAIL B

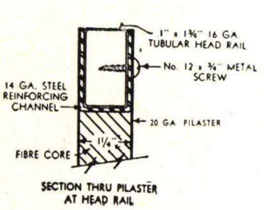
1/4 20 BOLT EXP SHIELD


1 1/4
FIBRE CORE
20 GA. PILASTER
POLISHED STAINLESS STEEL TRIM
14 GA FLOOR ANCHORING LEVELING MEMBER
LEVELING ADJUSTMENT SCREW
FINISHED FLOOR
No. 12 x 1 1/4" RAWL PLUG
No. 12 x 1 1/2" METAL SCREW
2
FILL
STRUCTURAL CONCRETE

SECTION THRU PILASTER AT FLOOR


No. 12 x 1 1/4" RAWL PLUG
No. 12 x 1 1/2" METAL SCREW
WALL STIRRUP BRACKET
FIBRE BOARD CORE
1"
20 GA. PARTITION
STIRRUP BRACKET
No. 12 x 1/2" TAMPER PROOF
METAL SCREW
TAMPER PROOF
THRU BOLTED SEX NUTS
RATTLE PROOF
SLIDE BAR LATCH
KEEPER
20 GA. DOOR
1"
1 1/4"
STOP
20 GA. PILASTER
20 GA. DOOR
FIBRE CORE
1"
"STAY LEVEL" CONCEALED POSITION CONTROLLED CAM ACTION DOOR HINGE (Pat Pend.)

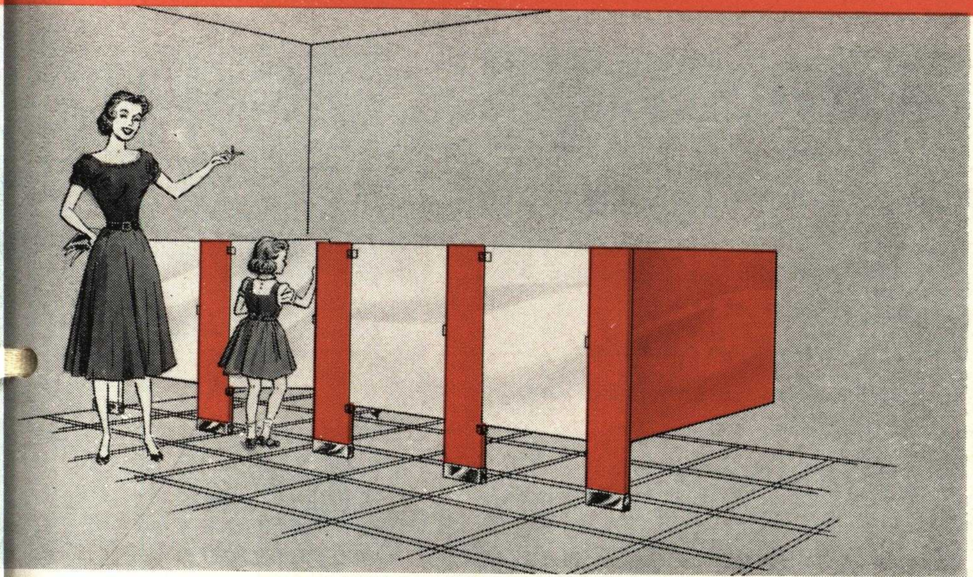
HORIZONTAL SECTION


1" x 1 3/4" 16 GA. TUBULAR HEAD RAIL
No. 12 x 3/4" METAL SCREW
14 GA. STEEL REINFORCING CHANNEL
20 GA PILASTER
1 1/4"
FIBRE CORE

SECTION THRU PILASTER AT HEAD RAIL

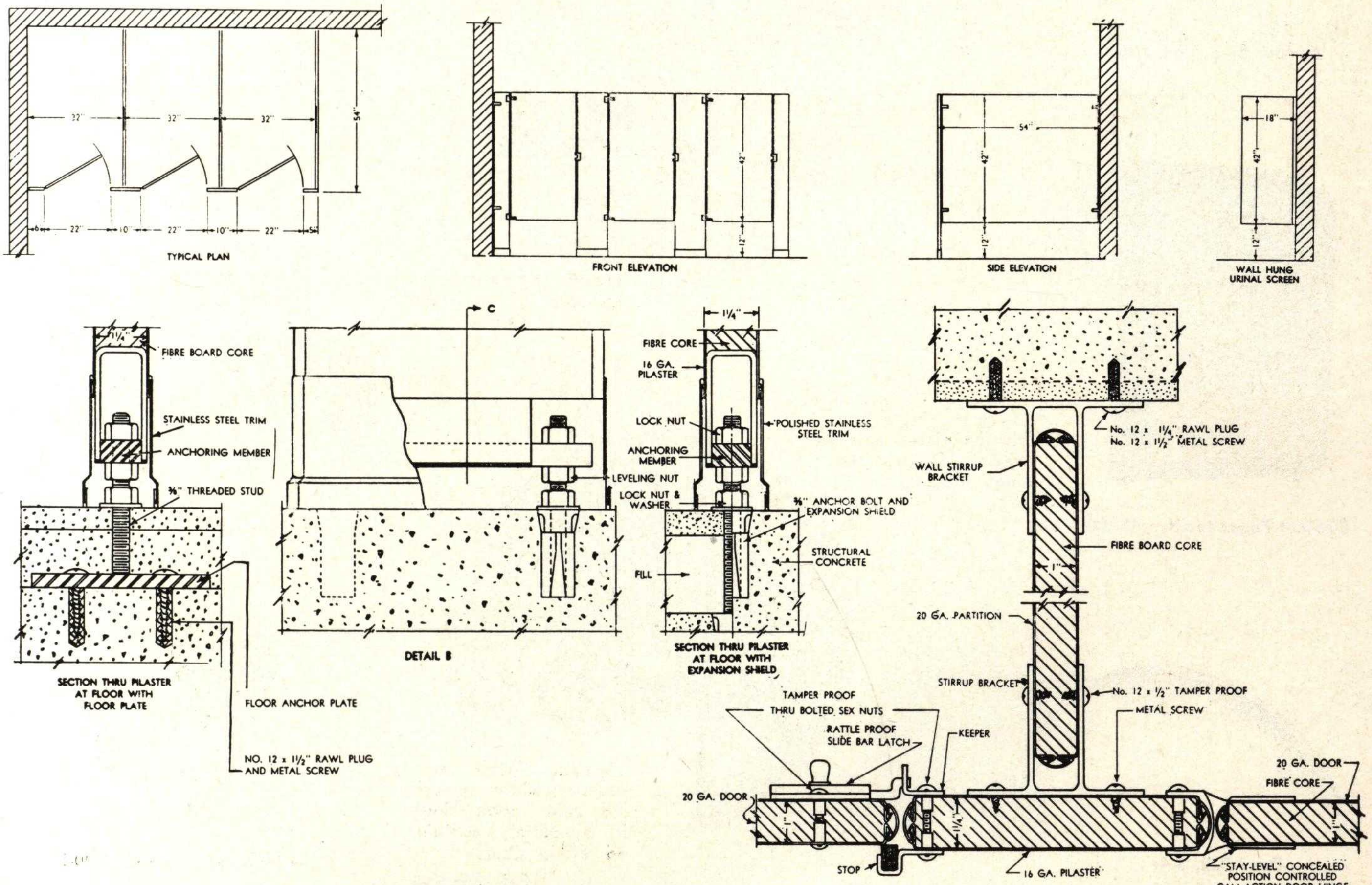
metal toilet compartments

Drexel/ juvenile type



Designed for use by kindergarten and lower grade school children where supervision with privacy is desirable. Identical in construction to Bayport floor supported type except for height and depth.

CONSTRUCTION DETAILS


32"
32"
32"
54"
6"
22"
10"
22"
10"
22"
5"
TYPICAL PLAN
42"
12"
FRONT ELEVATION
54"
42"
12"
SIDE ELEVATION
18"
42"
12"
WALL HUNG URINAL SCREEN
1¼"
FIBRE BOARD CORE
STAINLESS STEEL TRIM
ANCHORING MEMBER
⅜" THREADED STUD
SECTION THRU PILASTER AT FLOOR WITH FLOOR PLATE
FLOOR ANCHOR PLATE
NO. 12 x 1½" RAWL PLUG AND METAL SCREW
C
LEVELING NUT
DETAIL B
1¼"
FIBRE CORE
16 GA. PILASTER
LOCK NUT
ANCHORING MEMBER
LOCK NUT & WASHER
POLISHED STAINLESS STEEL TRIM
⅜" ANCHOR BOLT AND EXPANSION SHIELD
STRUCTURAL CONCRETE
FILL
SECTION THRU PILASTER AT FLOOR WITH EXPANSION SHIELD
No. 12 x 1¼" RAWL PLUG
No. 12 x 1½" METAL SCREW
WALL STIRRUP BRACKET
FIBRE BOARD CORE
1"
20 GA. PARTITION
STIRRUP BRACKET
No. 12 x ½" TAMPER PROOF
METAL SCREW
TAMPER PROOF
THRU BOLTED SEX NUTS
RATTLE PROOF SLIDE BAR LATCH
KEEPER
20 GA. DOOR
1"
1¼"
STOP
16 GA. PILASTER
20 GA. DOOR
FIBRE CORE
1"
"STAY-LEVEL" CONCEALED POSITION CONTROLLED CAM ACTION DOOR HINGE (Pat. Pend)
HORIZONTAL SECTION

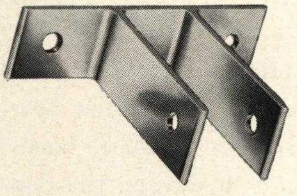
Standard hardware/ fittings

"STAY LEVEL" DOOR

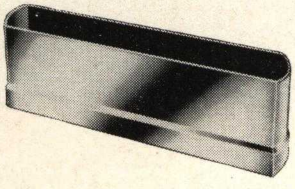
WITH

Accurate "400" HINGE

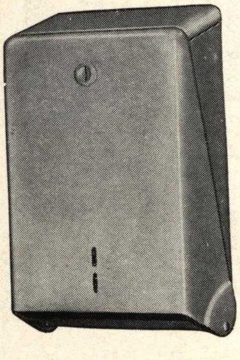
- Always remains level with top or bottom of pilasters when moving or at rest.
- Easily adjustable to any angle or position.
- Modern streamline appearance with hinge completely contained within door.
- Concealed hinge prevents vandalism.



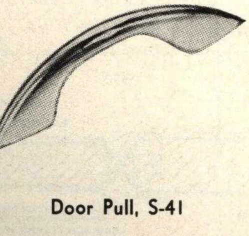
Stirrup Bracket (extruded) BK-306



Pilaster Base Trim, T-5

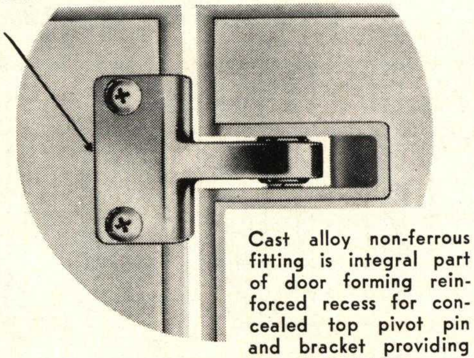


Cabinet Paper Holder, D-700



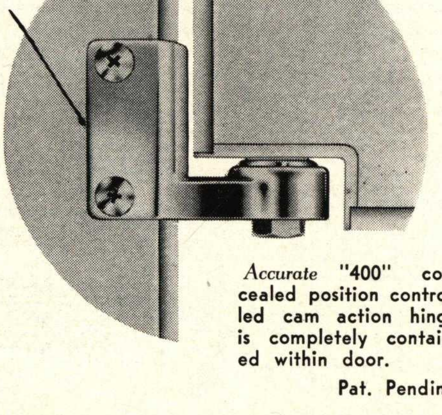
Door Pull, S-41

Chrome plated cast alloy non-ferrous top hinge bracket.



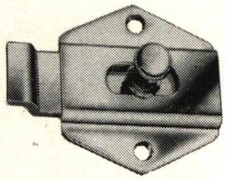
Cast alloy non-ferrous fitting is integral part of door forming reinforced recess for concealed top pivot pin and bracket providing structural rigidity.

Chrome plated cast alloy non-ferrous lower hinge bracket.

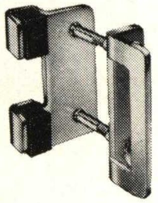


Accurate "400" concealed position controlled cam action hinge is completely contained within door.

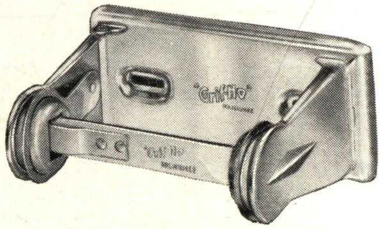
Pat. Pending



Slide Bar Latch, LA-22



Strike and Keeper, SK-44



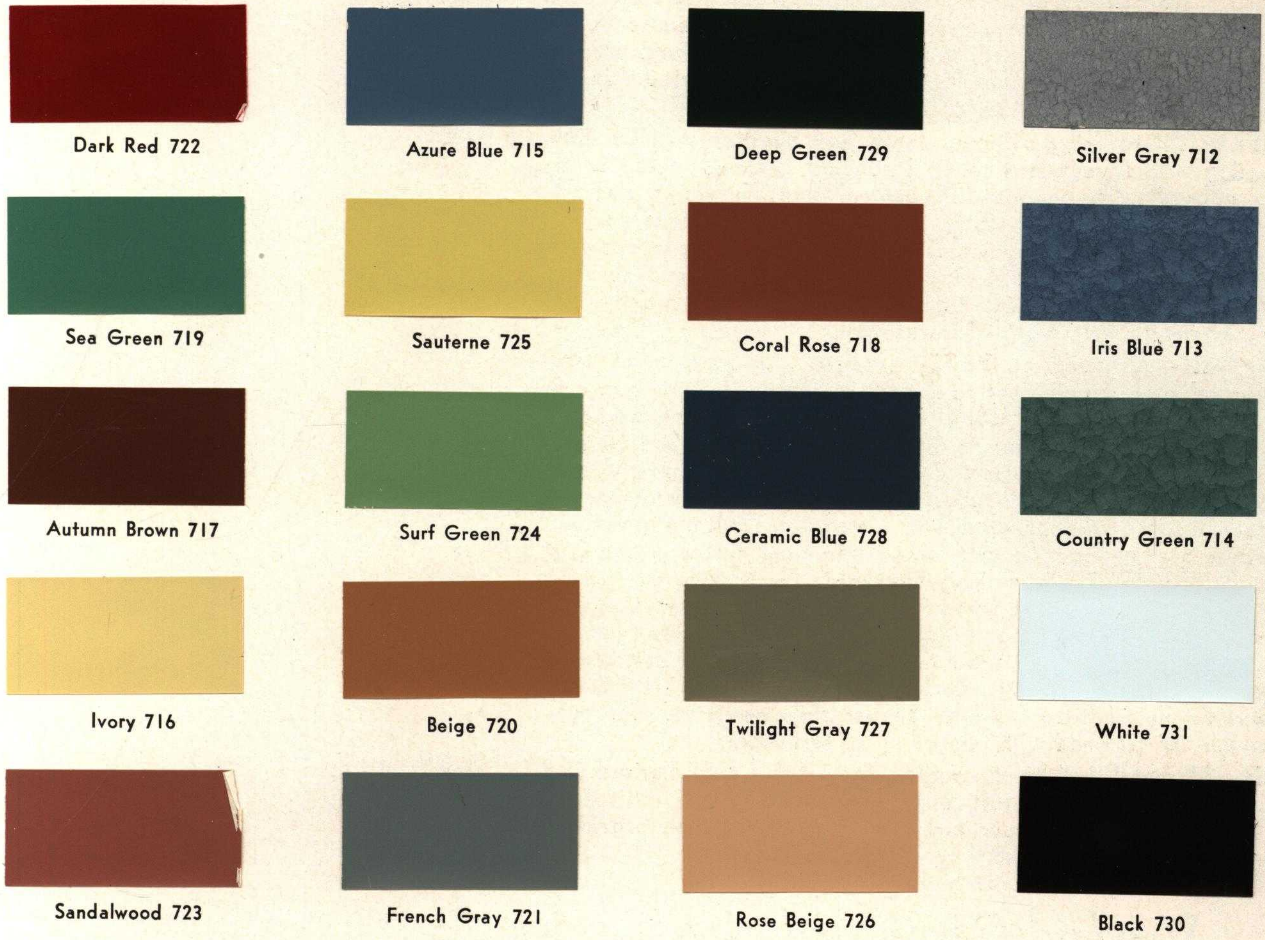
Roll Paper Holder, R-200

Coat Hook and Bumper, 400-L

accurate

metal toilet compartments

20 Baked Enamel Finishes


Dark Red 722
Azure Blue 715
Deep Green 729
Silver Gray 712
Sea Green 719
Sauterne 725
Coral Rose 718
Iris Blue 713
Autumn Brown 717
Surf Green 724
Ceramic Blue 728
Country Green 714
Ivory 716
Beige 720
Twilight Gray 727
White 731
Sandalwood 723
French Gray 721
Rose Beige 726
Black 730

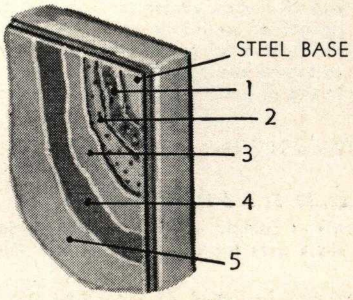
The finest enamels scientifically formulated to produce a durable and lasting finish are available in these attractive colors.

A combination of any two colors on one order can be furnished without extra charge.

THIS LONG LIFE FINISH INCLUDES

1. Galvanized coating (Zinc) to prevent corrosion and increase service life of finish.
2. Bonderized coating to insure perfect adhesion and further increase service life of finish.
3. Phosphate coating to give additional rust resistance and further increase service life of finish.
4. Rust resistance zinc chromate primer coat to insure maximum adherence.
5. Two finish color coats of high temperature baked on synthetic enamel.

Two coats of the same high grade synthetic enamel and one coat rust resistance primer applied over phosphatized cold rolled furniture steel available at lower cost if desired.


STEEL BASE
1
2
3
4
5

Exact matching of colors cannot be guaranteed due to the nature of the baking process.

metal toilet compartments

Specifications

GENERAL—Toilet Compartments shall be (insert for type) as manufactured by the ACCURATE PARTITIONS, INC. McCook, Illinois.

MATERIALS—All steel sheets shall be stretcher leveled, extra smooth finish galvanized bonderized steel. Separating partitions and doors shall be 20 ga. steel. Ardmore, Bayport and Drexel type pilasters to be 16 ga. steel, Concord type pilasters to be 20 ga. steel. Wall and pilaster stirrup brackets enameled to match partitions or chrome plated if specified. Pilaster base trim shall be polished stainless steel.

CONSTRUCTION—All partitions, doors, and pilasters shall be flush construction with fibre board sound-deadening core, cemented under pressure approximately one inch thick for partitions and doors, and 1¼ inch thick for pilasters. All sheets shall have formed edges and be interlocked under tension with continuous crown moulding mitred and welded at sides and corners. Concord type (overhead braced) shall be securely braced with continuous 18 ga. one inch by 1¾ inch tubular steel headrail extending full length of installation.

HARDWARE—All doors to be ***Accurate*** "Stay-Level" non-rising type adjustable to permit door to remain at any desired position and equipped with ***Accurate "400"*** concealed position controlled cam action door hinge. Each door to be mounted with top and bottom chrome plated hinge brackets of cast alloy non-ferrous material. The top pivot hinge bracket to be recessed into the cast alloy reinforced inset door fitting and supported with a corrosion resistant pivot pin mounted in a nylon bearing and locked into door fitting above and below bearing point. The lower hinge bracket to be recessed into cutout at bottom corner of door and firmly fixed to the corrosion resistant cam member extended within the door against a ball bearing roller positioning device securely fastened to door. All moving parts shall operate on nylon and frictionless bearings. Each door shall be fitted with heavy brass chrome plated strike and latch keeper, slide bar latch, coat hook and bumper, all fastened with tamper proof fastenings.

FINISH—All metal shall be thoroughly cleaned and phosphatized and given coat of zinc chromate rust resisting primer, baked on and followed by two coats of high-temperature baked synthetic enamel providing a uniform and protective finish.

Specifications Subject to Change Without Notice.

Standard Gauges and Sizes

PART	ARDMORE, BAYPORT AND DREXEL TYPES	CONCORD TYPE
Panels	20 ga.	20 ga.
Pilasters	16 ga.	20 ga.
Doors	20 ga.	20 ga.
Reinforcements	11 ga.	14 ga.
Headrail	----------	18 ga.

COMPARTMENTS

Width—30, 32, 34 and 36 inches, center to center of compartment
Depth—57 inches. Height of partitions and doors—58 inches
Distance from floor to bottom of partitions and from doors to headrail—12 inches
Distance from floor to top of headrail—82 inches
Distance from floor to top of partitions and doors—70 inches

PILASTERS

Width—4, 5, 6, 8, 10 and 12 inches

DOORS

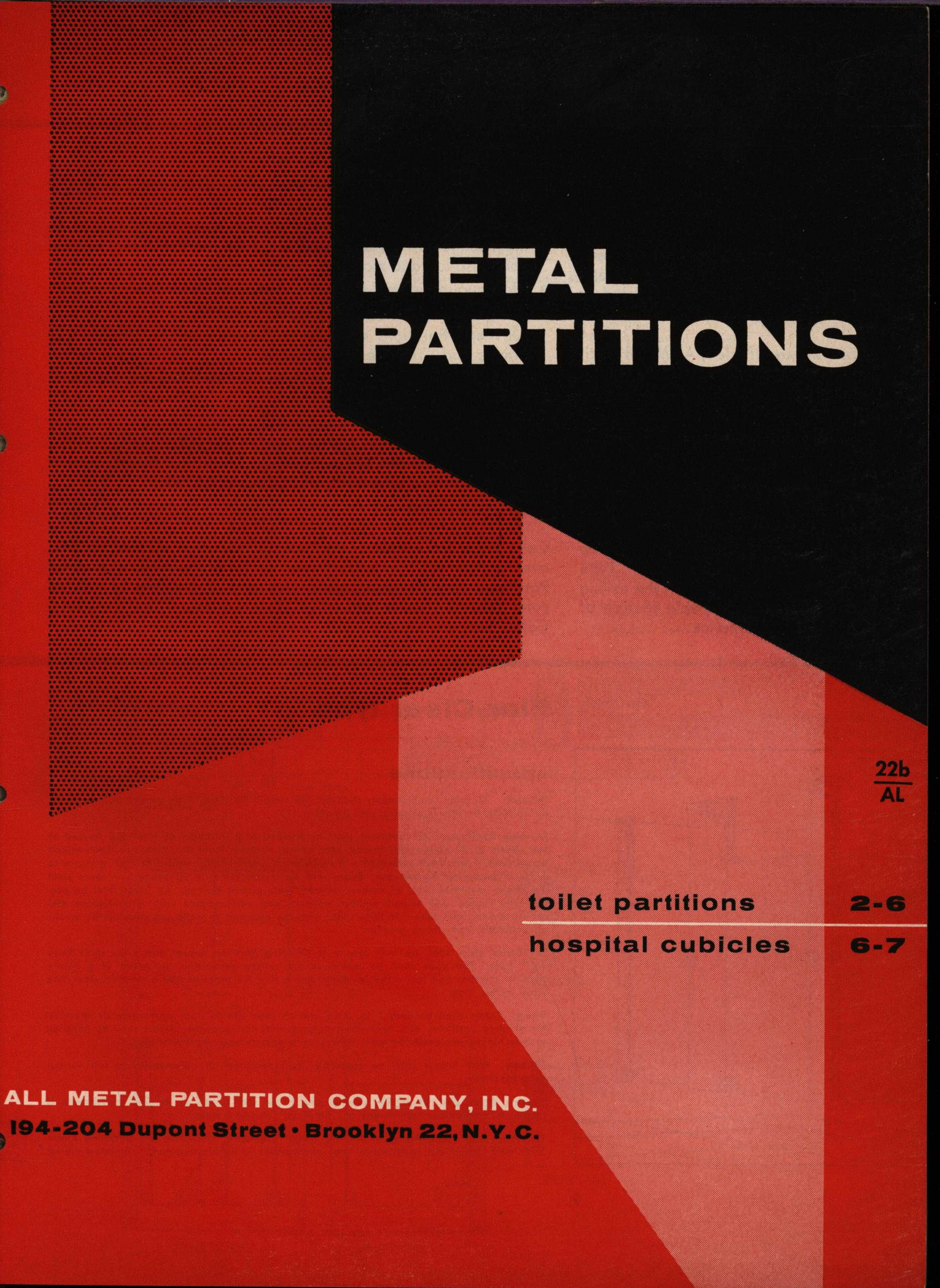
Width—22, 24, 26, 28, 30, 32 and 34 inches

The foregoing dimensions comply with the modular system of dimensional co-ordination and standard stock sizes for panels, doors and pilasters.

Sales representatives may be found by consulting the yellow pages of your local telephone directory or contact us direct.

ACCURATE PARTITIONS, INC.
McCOOK, ILLINOIS
McCook: HUnter 5-5252
Chicago: BIshop 2-1042

Printed in U.S.A.



METAL PARTITIONS

22b
AL

toilet partitions 2-6

hospital cubicles 6-7

ALL METAL PARTITION COMPANY, INC.
194-204 Dupont Street • Brooklyn 22, N.Y.C.

ALL METAL partitions

Twenty-five years of experience and technical knowledge as well as outstanding construction features result in quality installations of All Metal Partitions in existing, remodeled or new buildings.

Sturdily constructed, All Metal Partitions are designed to provide maximum performance and better sanitation. Fittings and hardware have been awarded special attention for function and adjustability to suit various field conditions.

All Metal Partitions range in cost from the economical but thoroughly satisfactory "Panel Type" to the most modern "Flor-Clear" Type which is suspended from the ceiling and offers the desirable feature of ease of maintenance.

features

- Constructed of galvanized steel or furniture steel of heavy gauge.
- Double reinforcement of edge with an outer moulding and an inner full length die-drawn circular tube forming a seal against condensation and moisture.
- High quality enamel finish in a choice of decorator colors.
- Designed to provide low-cost maintenance.
- All Metal Partitions are equipped with superior, trouble-free fittings and "Time-Test" hardware.
- Adaptable to all types of architectural and interior design.

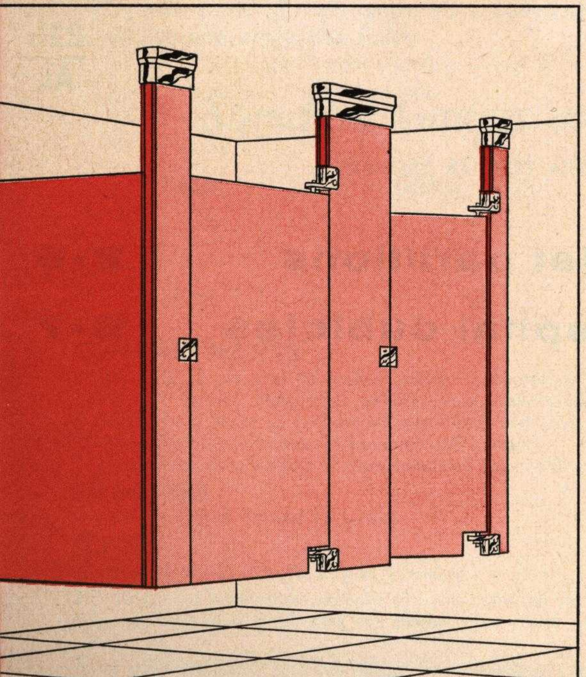
building types

All Metal Partitions are recommended for educational institutions, commercial and office buildings, industrial plants, restaurants, hospitals, airline and railroad terminals, etc.

colors

Color finish for All Metal Partitions is baked-on enamel applied over galvanized-bonderized steel or furniture steel. All Metal Partitions may be incorporatd with any contrasting or related color scheme; twelve attractive standard colors are available. Color chart on request.

toilet partitions Flor-Clear type



specifications

General: All toilet compartments shall be "All Metal" Flor-Clear Type construction, as made by All Metal Partition Company, Inc., Brooklyn, N.Y.

Dividing Partitions: All partitions shall be finished to a thickness of 1 in. and formed of two sheets of 20 gauge full pickled, cold rolled, stretcher level, furniture steel (galvanized bonderized if specified) cemented with waterproof rust-proofing cement at high pressure to a sound deadening fibrous core. Edges shall be interlocked with 20 gauge half round steel die drawn moulding with all corners mitered, welded and ground. All joints shall be permanently locked and sealed against moisture and condensation with a continuous die-drawn circular split tube. Partition slabs shall be attached to walls and pilasters by means of malleable iron stirrup brackets.

Suspended stiles shall be built similar to Dividing Partition except that same shall finish 1¼" thick. Top edge shall be reinforced for ceiling connection by means of a heavy crossbar member and jack screw levelling device shall be concealed by a stainless steel shoe three inches high.

Doors: Doors shall be flush 1 in. thick and of same design and construction as specified for dividing partitions with necessary reinforcements for hardware. Doors shall be hung on gravity hinges designed for quiet closing or to remain open at any angle.

Fittings: Wall fittings shall be malleable iron, designed for adjustability to suit various field conditions.

Finish: Finish shall be quality enamel over prime coat baked on at high temperature to insure even polymerization in any of "All Metal" standard colors.

Hardware: All hardware shall be "All Metal" standard, consisting of concealed hinge. Slide latch, strike, pull combination hook and bumper, of non-ferrous metal, chromium plated.

representative jobs

institutions

Massachusetts General Hospital	Boston, Mass.
Greeley Memorial Church	St. Louis, Mo.
Sal Haven Foundation	Miami, Fla.
The New York Hospital	New York, N.Y.
Our Lady of Lourdes Church	Indianapolis, Ind.
Nurses Home	Hanover, Pa.
Church of St. Mary	Port Jervis, N.Y.
Children's Cancer Research Foundation	Boston, Mass.
Sailors Snug Harbor	Staten Island, N.Y.
Home for the Aged	Indianapolis, Ind.
Odd Fellows Home for the Aged	Bronx, New York
Bellevue Hospital	New York, N.Y.
General Hospital	Marion, Indiana

municipal and federal government

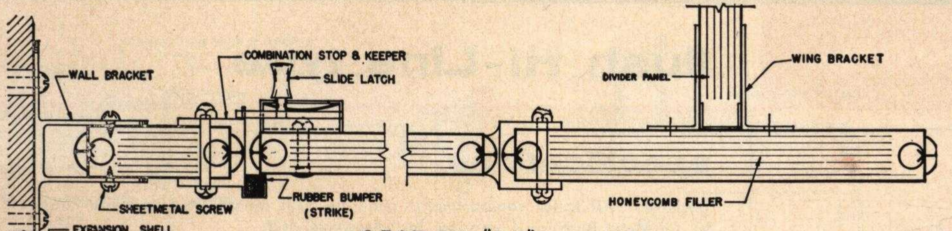
U.S. Veteran's Administration	Various locations U.S.
Dow A.F.B.	Bangor, Maine
Griffis A.F.B.	Rome, N.Y.
Langley A.F.B.	Langley Field, Va.
U.S. Army Reserve Training Center	Hagerstown, Md.
Westover A.F.B.	Chicopee Falls, Mass.
Sturgeon Pt. Water Filtration Plant	Derby, N.Y.
Port of N.Y. Authority	Idlewild, N.Y.
Port of N.Y. Authority, Geo. Washington Bridge Garage	Ft. Lee, N.J.
Snark Missile Facilities	Presque Isle, Maine
Bomark Missile & Site	Bangor, Maine

schools and colleges

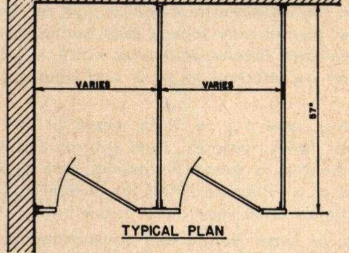
Transfiguration School	Olean, New York
Atlantic Jr. High School	Quincy, Mass.
The Commonwealth School	Boston, Mass.
Wareham High School	Wareham, Mass.
St. Margaret's School	Lowell, Mass.
Lincoln School	Englewood, N.J.
St. Charles Borromeo School	St. Louis, Mo.
Hialeah Jr. and Sr. High School	Hialeah, Fla.
Brandeis Univ.	Waltham, Mass.
Jr. High School	W. Lafayette, Ind.
Public Schools	Indianapolis, Ind. (Various Locations)
New Jefferson School	Marion, Indiana

commercial and industrial

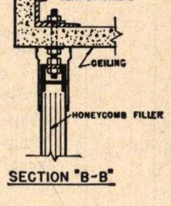
Fairchild Aircraft Division	Hagerstown, Md.
Stop and Shop	(various locations) Throughout U.S.
A & P Stores	(various locations) Throughout U.S.
Bethlehem Steel	Baltimore, Md.
The Hubley Mfg. Co.	Lancaster, Pa.
S. S. White Dental Mfg. Co.	Staten Island, N.Y.
Raytheon Mfg. Co.	Various locations
Shell Oil Co.	Various locations
Sears-Roebuck	Miami, Fla.
M. & M. Transportation	Somerville, Mass.
Owens-Corning Fiberglas	Newark, Ohio
P. H. Hanes Knitting Co.	Winston Salem, N.C.
Western Electric Co.	Winston Salem, N.C.
Liggett Myers Tobacco Co.	Durham, N.C.
E. I. duPont de Nemours & Co.	Various locations
Borden Co.	Dixon, Ill.
Eagle Pencil Co.	Danbury, Conn.
Univac	Boston, Mass.
Brink's	Indianapolis, Ind.
Kaiser Aluminum	Ravenswood, Va.
Sinclair Oil Co.	Various locations
General Tire Co.	St. Louis, Mo.
Raybestos Division	Stratford, Conn.
Avco Mfg. Co.	Wilmington, Mass.



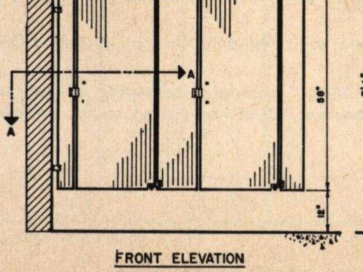
SECTION "A-A"



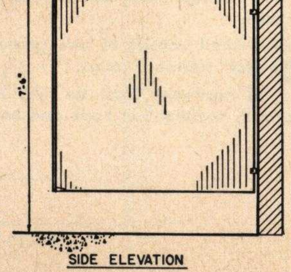
TYPICAL PLAN



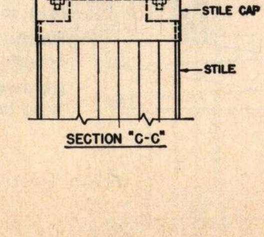
SECTION "B-B"



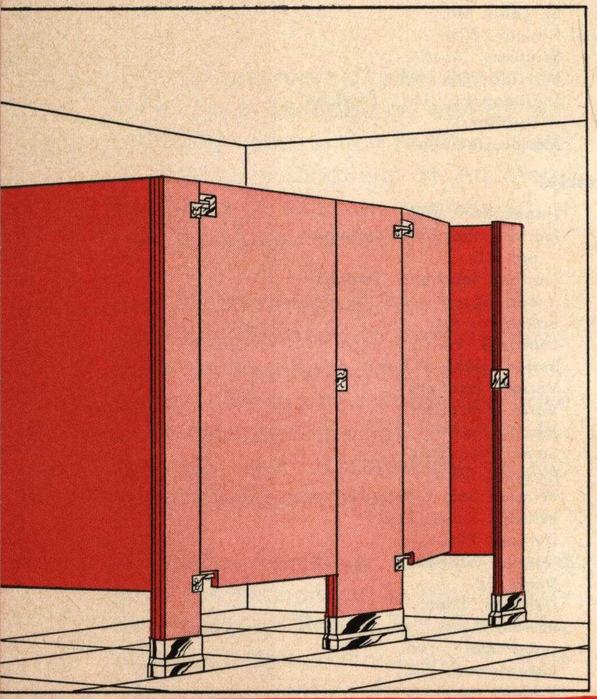
FRONT ELEVATION



SIDE ELEVATION



SECTION "C-C"



specifications

General: All toilet compartments shall be "All Metal" DeLuxe Flush Type construction, as made by All Metal Partition Company, Inc., Brooklyn, N.Y.

Dividing Partitions: All partitions shall be finished to a thickness of 1 in. and formed of two sheets of full pickled, cold rolled, stretcher level, furniture steel (galvanized bonderized if specified) (20 gauge for large panels) (22 gauge for small panels) cemented with waterproof rust-proofing cement at high pressure to a sound deadening fibrous core. Edges shall be interlocked with 20 gauge half round steel die drawn moulding with all corners mitered, welded and ground. All joints shall be permanently locked and sealed against moisture and condensation with a continuous die-drawn circular split tube which is interlocked with the crown moulding. Partition slabs shall be attached to walls and pilasters by means of malleable iron stirrup brackets.

Front Stiles: Front Stiles shall be of flush type 1¼ in. thick, made of two sheets of 20 gauge full pickled, cold rolled, stretcher level, furniture steel (galvanized bonderized if specified) cemented with waterproof rust-proofing cement to a sound deadening core of high pressure. Stile shall be fastened to floor by means of a fitting designed for vertical adjustment. Floor connection shall be concealed with a stainless steel shoe three inches high.

Doors: Doors shall be flush 1 in. thick and of same design and construction as specified for dividing partitions with necessary reinforcements for hardware. Doors shall be hung on gravity hinges designed for quiet closing or to remain open at any angle. Doors when in a closed position shall line up with top of stiles with no hardware or fittings protruding.

Fittings: Wall fittings shall be malleable iron, designed for adjustability to suit various field conditions.

Finish: Finish shall consist of one prime coat and a finish coat of Baked-On Enamel in any of "All Metal" standard colors.

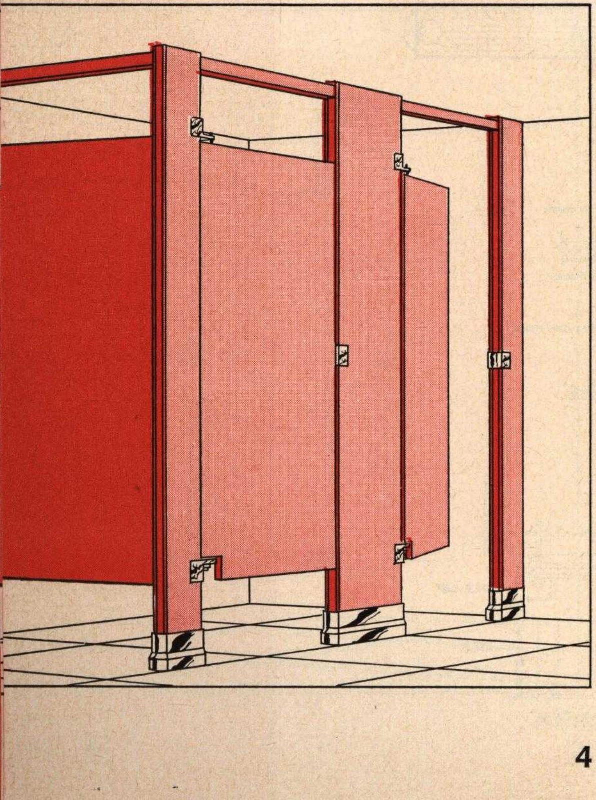
Hardware: All hardware shall be "All Metal" standard, consisting of concealed hinge. Slide latch, strike, pull, combination hook and bumper, of non-ferrous metal, chromium plated.

toilet partitions

flush De-luxe type

toilet partitions

flush Hi-Line type



specifications

General: All toilet compartments shall be "All Metal" Hi-Line Type construction, as made by All Metal Partition Company, Inc., Brooklyn, N.Y.

Dividing Partitions: All partitions shall be finished to a thickness of 1 in. and formed of two sheets of full pickled, cold rolled, stretcher level, furniture steel (galvanized bonderized if specified) (20 gauge for large panels) (22 gauge for small panels) cemented with waterproof, rust-proofing cement at high pressure to a sound deadening fibrous core. Edges shall be interlocked with 20 gauge half round steel die-drawn moulding with all corners mitered, welded and ground. All joints shall be permanently locked and sealed against moisture and condensation with a continuous die-drawn circular split tube which is interlocked with the crown moulding. Partition slabs shall be attached to walls and pilasters by means of malleable iron stirrup brackets.

Front Stiles: Front Stiles shall be of flush type 1¼ in. thick, made of two sheets of 20 gauge full pickled, cold rolled, stretcher level, furniture steel (galvanized bonderized if specified) cemented with waterproof cement to a sound deadening core at high pressure. Stile shall be fastened to floor by means of a fitting designed for vertical adjustment. Floor connection shall be concealed with a stainless steel shoe three inches high.

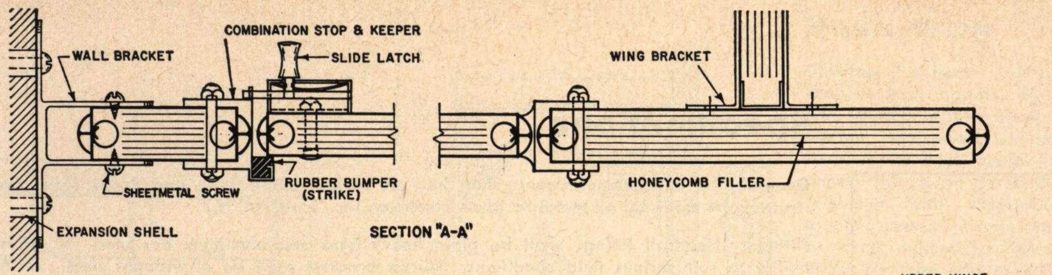
Doors: Doors shall be flush 1 in. thick of same design and construction as specified for dividing partitions with necessary reinforcement for hardware and hung on gravity hinges designed for quiet closing or to remain open at any angle.

Headrail: Headrail shall be of 1x1½ in. rectangular welded tubing set and secured into top of the stile.

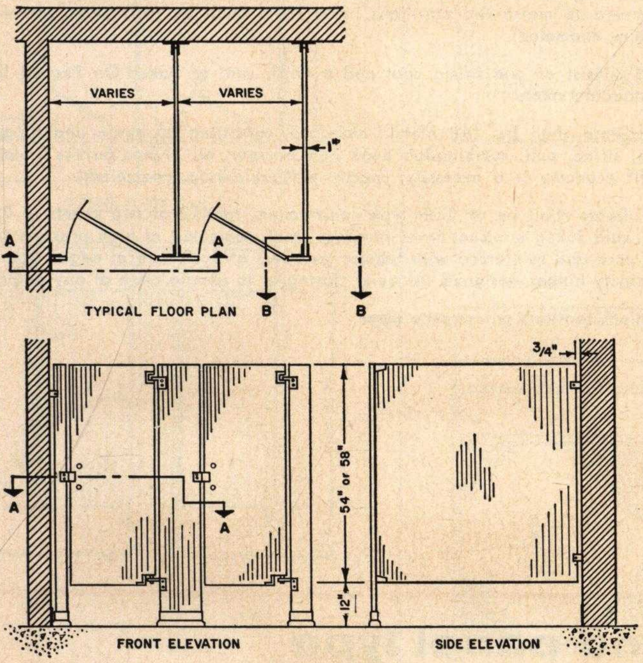
Fittings: Wall fittings shall be malleable iron, designed for adjustability to suit various field conditions.

Finish: Finish shall consist of one prime coat and a finish coat of Baked-On Enamel in any of "All Metal" standard colors.

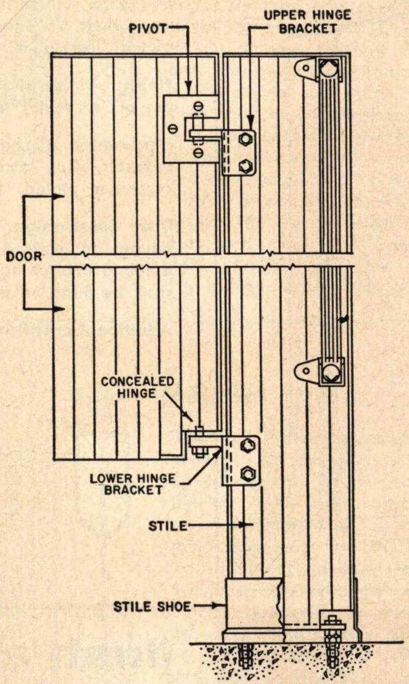
Hardware: All hardware shall be "All Metal" standard, consisting of concealed hinge. Slide latch, pull, combination hook and bumper, all of non-ferrous metal, chrominum plated.


COMBINATION STOP & KEEPER
SLIDE LATCH
WALL BRACKET
SHEETMETAL SCREW
RUBBER BUMPER (STRIKE)
EXPANSION SHELL
WING BRACKET
HONEYCOMB FILLER

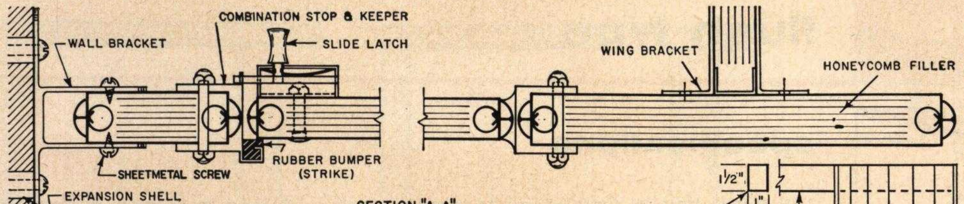
SECTION "A-A"


VARIES
VARIES
1"
A
A
B
B
TYPICAL FLOOR PLAN
3/4"
54" or 58"
12"
A
A
FRONT ELEVATION
SIDE ELEVATION

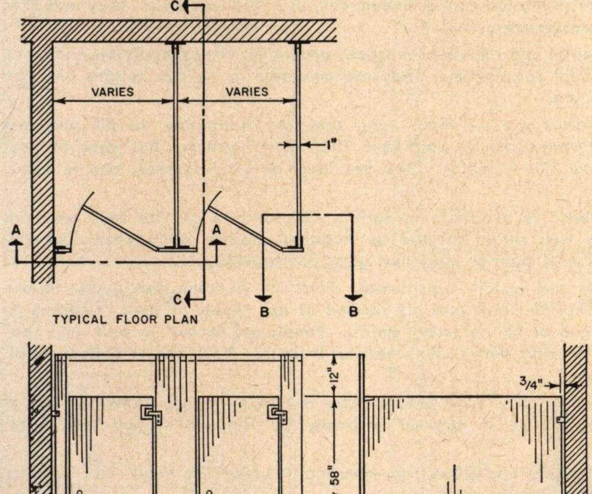
TYPICAL LAYOUT OF TWO STALLS


PIVOT
UPPER HINGE BRACKET
DOOR
CONCEALED HINGE
LOWER HINGE BRACKET
STILE
STILE SHOE

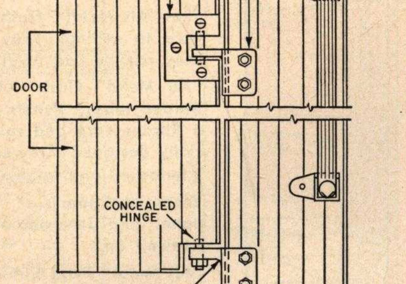
SECTION "B-B"


COMBINATION STOP & KEEPER
WALL BRACKET
SLIDE LATCH
SHEETMETAL SCREW
RUBBER BUMPER (STRIKE)
EXPANSION SHELL
WING BRACKET
HONEYCOMB FILLER

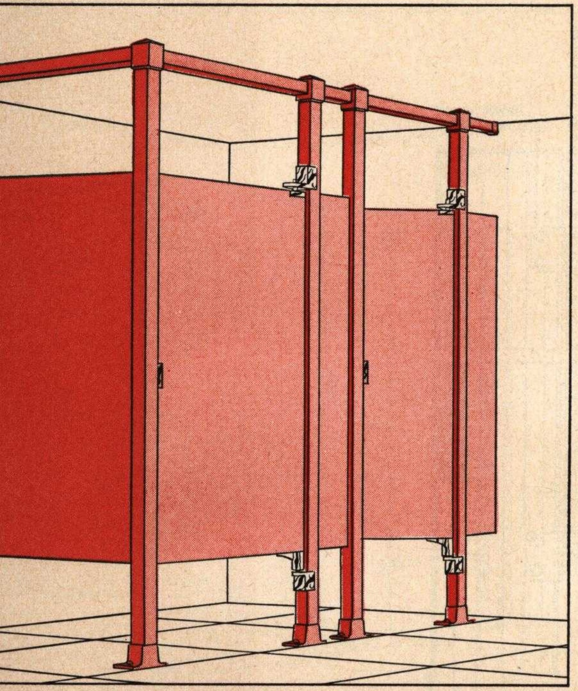
SECTION "A-A"


C
C
VARIES
VARIES
1"
A
A
B
B
TYPICAL FLOOR PLAN
12"
3/4"
54" or 58"
12"
A
A
FRONT ELEVATION
ELEVATION "C-C"

TYPICAL LAYOUT OF TWO STALLS


1 1/2"
1"
HEAD RAIL
UPPER HINGE BRACKET
1"
PIVOT
DOOR
CONCEALED HINGE
LOWER HINGE BRACKET
STILE
STILE SHOE

SECTION "B-B"



specifications

General: All toilet compartments shall be "All Metal" (Flush Type and Panel Type) construction, as made by All Metal Partition Company, Inc., Brooklyn, N.Y.

Fittings: Headrail fittings shall be plain heavy type cast aluminum designed for adjustability to suit various field conditions. Stirrup brackets shall be of wrought steel. All fittings shall be enameled to match the partitions. Post shoes shall be (cast alloy, chrome plated), (cast aluminum, enameled).

Finish: Finish shall consist of one prime coat and a finish coat of Baked-On Enamel in any of "All Metal" standard colors.

Hardware: All hardware shall be "All Metal" standard, consisting of hinge and hinge brackets, slide latch, strike, pull, combination hook and bumper, all of non-ferrous metal, chromium plated. (If economy is a necessity, specify malleable iron, enameled.)

Door Construction: Doors shall be of flush type construction, formed of two sheets of 22 gauge, full pickled, cold rolled stretcher level furniture steel, cemented at high pressure to a sound deadening core and reinforced with tubular members at each vertical edge. Doors shall be hung on gravity hinges designed for quiet closing or to remain open at any angle.

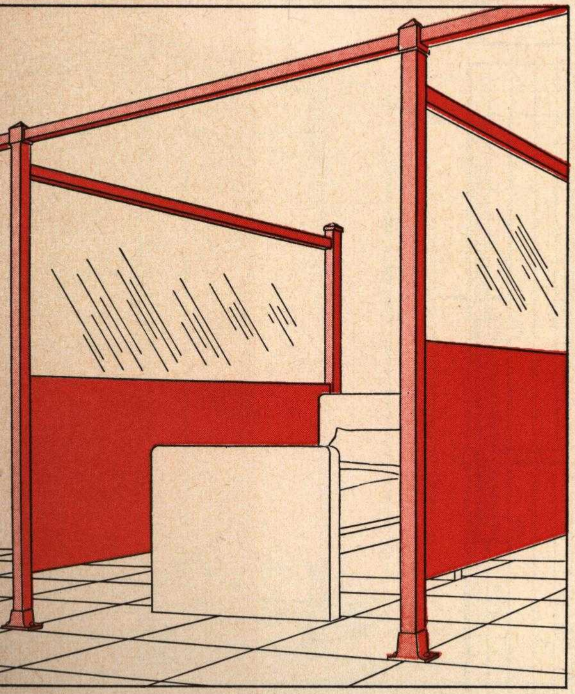
Additional specifications continue on opposite page.

toilet partitions

flush and panel type

hospital cubicles

flush type



specifications

"All Metal" Hospital Cubicles can be advantageously used where the division of rooms are desired, for privacy and/or isolation. Their use in the ward or semi-private room makes it possible to keep the patient separated at a minimum cost and inconvenience. They may also serve as windshield to prevent drafts.

The "All Metal" Cubicle line is quite flexible in scope, presenting the architect his choice as to steel and glass, or all steel construction. They are available in various heights and can be built up from floor to ceiling.

"All Metal" Hospital Cubicles are of Flush type and are adaptable to all purposes and uses in wards, semi-private rooms or corridors. They permit privacy, but when of steel and glass construction, allow full visibility. They are ideal as wind-breakers and in eliminating drafts.

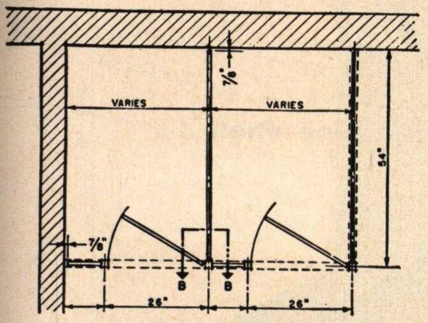
The "All Metal" Flush Cubicle is available in various heights and can be built up from floor to ceiling. They are well suited for use as isolation cubicles and nurses' stations. They can be had in either solid steel or steel and glass construction.

"All Metal" Flush Cubicles are rigidly constructed. Posts or standees are 2 in. square welded tubes. Panels are 1½ in. thick and are formed of two sheets of steel cemented to a fibrous core and reinforced at all necessary points. Panels are locked to post with specially designed three-point locking device, then welded in place. Rails are of hollow metal, interlocked and welded to post.

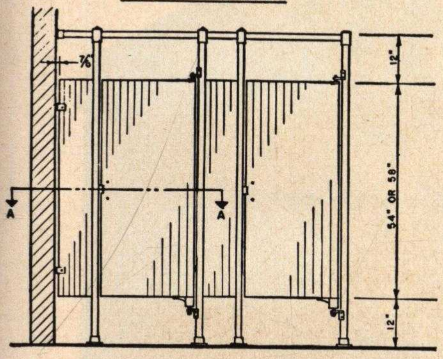
When partition is of steel and glass construction, glass is held in recess formed in top of panel and intermediate rail, then is secured vertically by sanitary shaped mouldings, screwed on.

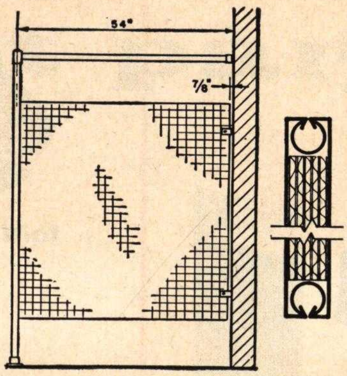
"All Metal" Flush Cubicles can be had either free-standing or braced by head rail. Cubicles are verminproof and easy to maintain.

Finish shall consist of prime coat and a finish coat of Baked-On Enamel in any of "All Metal" standard colors.


VARIES
VARIES
7/8"
54"
7/8"
B
B
26"
26"

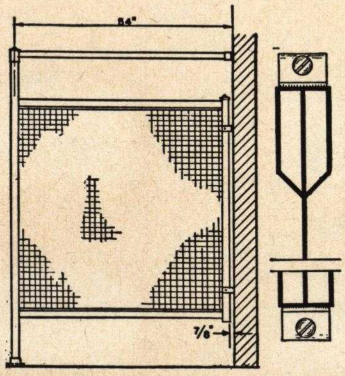
TYPICAL FLOOR PLAN


7/8"
12"
54" OR 58"
12"
A
A



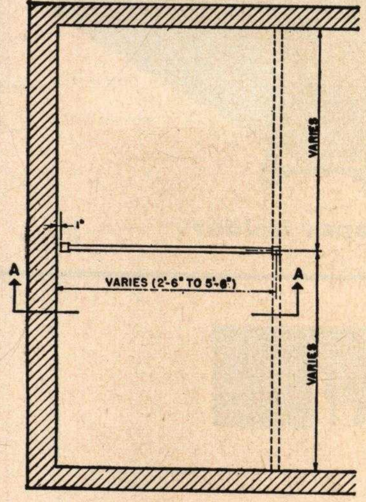
flush type

Dividing Partitions: All partitions shall be flush, approx. 15/16 in. thick and formed of two sheets of full pickled, cold rolled, stretcher level, furniture steel (20 gauge for large panels) (22 gauge for small panels) cemented with waterproof rust-proofing cement at high pressure to a sound deadening fibrous core. Edges shall be interlocked and all joints permanently locked and sealed against moisture and condensation with a continuous die-drawn circular split tube. Partition slabs shall be interlocked to a 1¾ in. square post by a four hook self-locking device which draws slabs and posts together in a permanent tension grip and is then welded in place. The contact edges between posts and panels shall form a flush joint. Headrail shall be 1½ in. x 1½ in. square steel tubing.

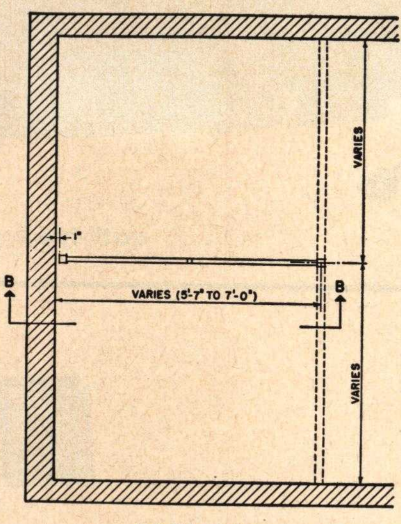


panel type

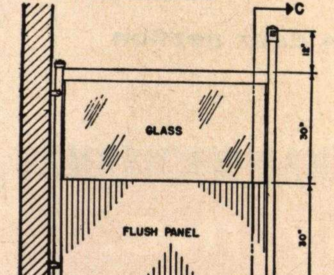
Dividing Partitions and Front Panels: All partitions shall be formed of a single sheet of stretcher level, cold rolled, furniture steel inserted into surrounding frame members for their entire depth, interlocked and welded to form one solid unit. All partitions shall be built with top and bottom rails of sanitary shaped tubing and 1¾ in. square tubular front and back posts. Headrail is to be of 1½ in. x 1½ in. square tubing.


VARIES
1"
A
A
VARIES (2'-6" TO 5'-8")
VARIES

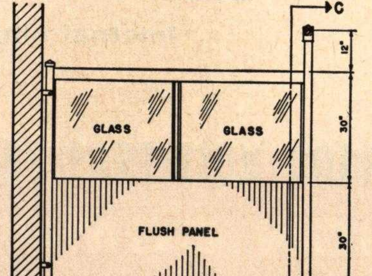
TYPICAL PLAN


VARIES
1"
B
B
VARIES (5'-7" TO 7'-0")
VARIES

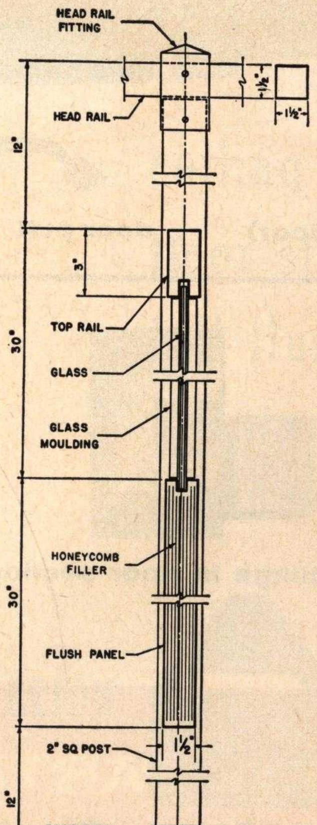
TYPICAL PLAN


C
12"
GLASS
30"
FLUSH PANEL
30"
1"
12"
C

ELEVATION "A-A"

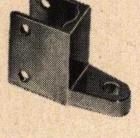

C
12"
GLASS
GLASS
30"
FLUSH PANEL
30"
1"
12"
C

ELEVATION "B-B"


HEAD RAIL FITTING
1½"
1½"
HEAD RAIL
12"
3"
TOP RAIL
30"
GLASS
GLASS MOULDING
HONEYCOMB FILLER
30"
FLUSH PANEL
2" SQ POST
1½"
12"
POST SHOE

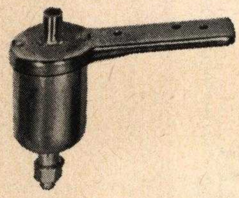
SECTION "C-C"

hardware

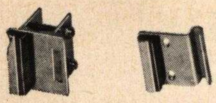


hinge bracket

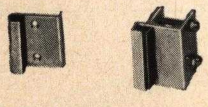
upper hinge pivot



external hinge



stop and keeper
(inswinging door)

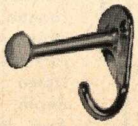


stop
(outswinging door)

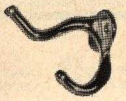
post shoe

stile shoe

slide latch



combination coat
hook & bumper

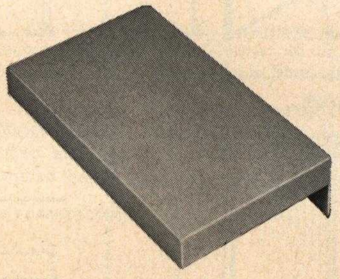


coat hook

door pull

accessories

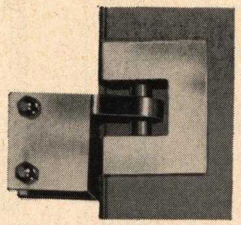
folding type purse shelf



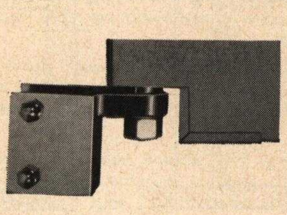
standard purse shelf

double fold paper holder

roll type paper holder



upper hinge in door section



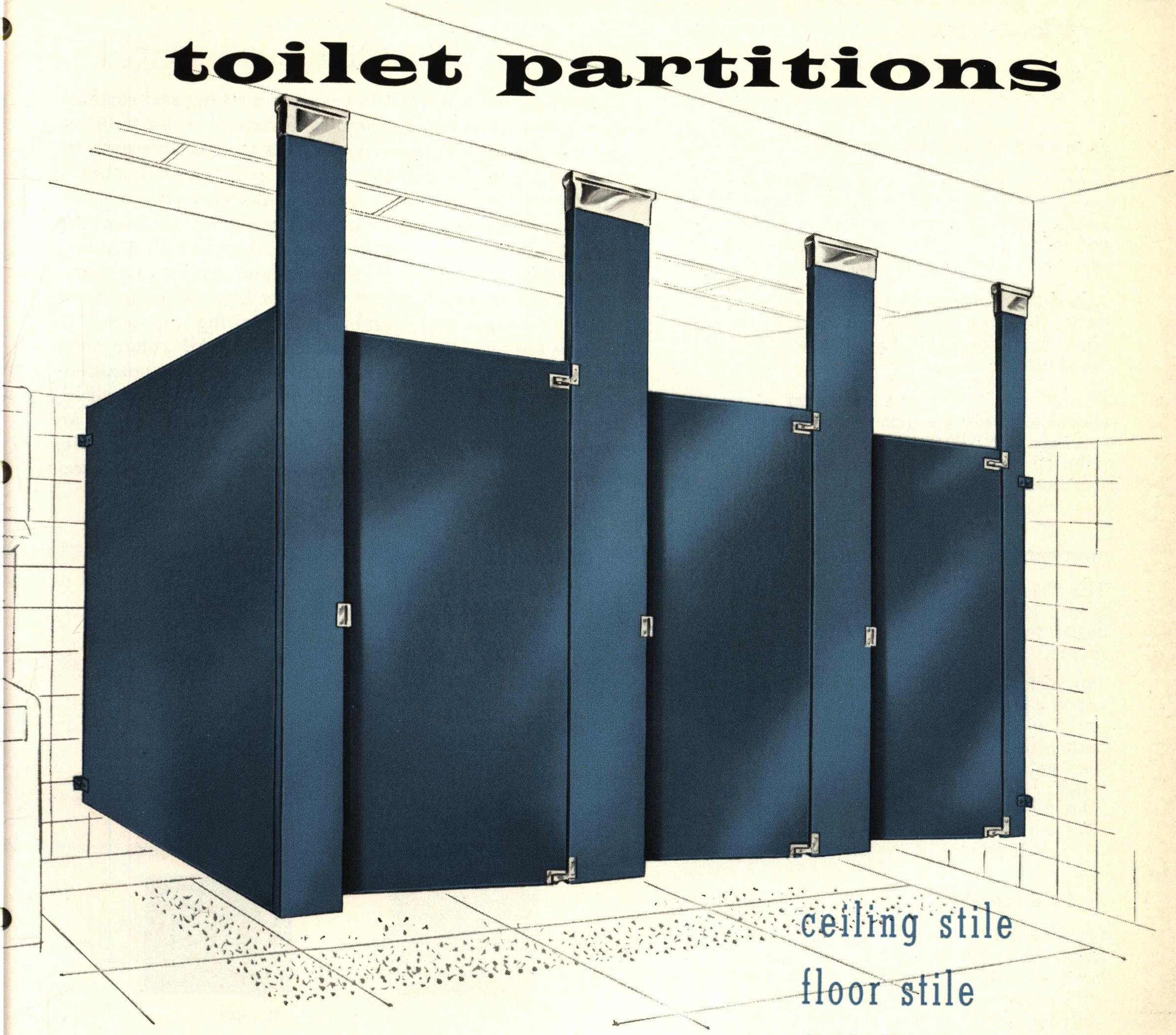
internal hinge in door section

ALL METAL PARTITION COMPANY, INC.

194-204 Dupont Street · Brooklyn 22, N. Y.

Telephone EVergreen 9-5341

toilet partitions



ceiling stile
floor stile
full flush
plastic
laminate

AMERICAN SANITARY PARTITION CORPORATION 1960

planning the rest room

so important to public relations

Sanitation and cleanliness are the primary requisites of modern living. Attractive, sanitary restrooms contribute to public relations as well as to everyday comfort and convenience.

American Sanitary Partitions are not only attractive and modern in appearance, but are built for service and durability.

For 29 years we have extended our efforts to produce a stronger and more sanitary partition unit and have contributed to many developments in this field.

new partition line

The Plastic Laminate Toilet Partition is our latest development in modern design for sanitary and attractive restrooms.

The surface material used for this product is a high-pressure decorative laminated plastic. It is hard and smooth, highly resistant to wear and scratching, yet warm and pleasant to the touch. It will never rust and needs no refinishing and comes in a wide variety of eye-appealing patterns and colors.

technical services

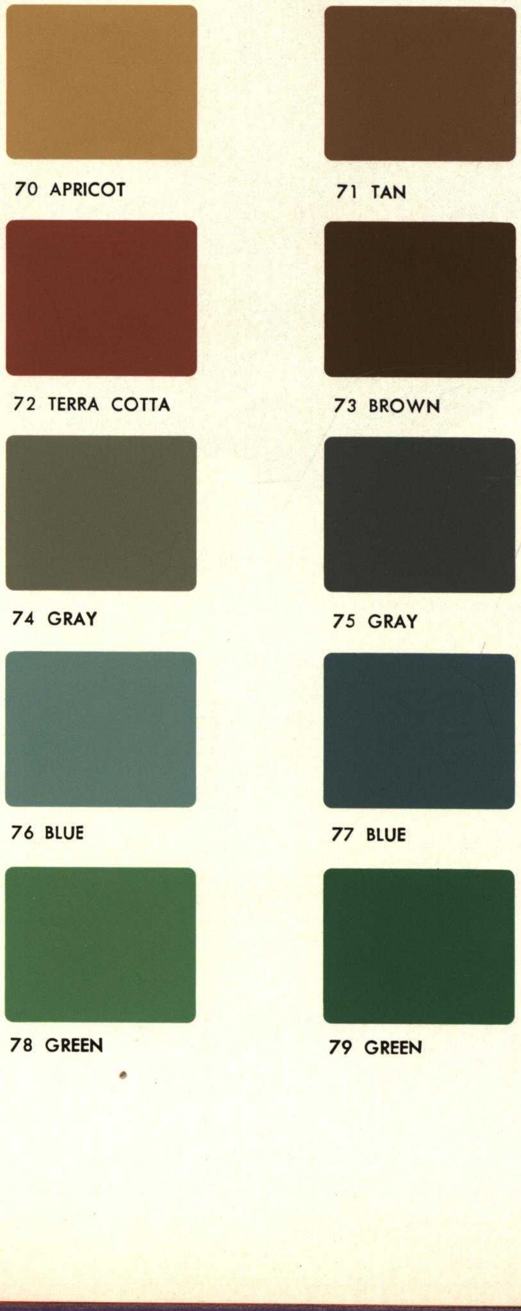
Our experienced representatives located throughout the country (see list on back cover) are a proven asset, not only to the company, but to architects and customers as well. Consultation services for preliminary estimates, layouts and on all matters pertaining to this line of business are available from our local representatives.

stock materials

Due to standardization of toilet room sizes and general layout, we are able to stock certain materials for immediate shipment. Refer to page 11 for complete list of stock items.

decorator color chart

Toilet Partitions, subject to frequent washing and cleaning as well as to various acid conditions require better than the usual protection. Through continuous tests and research we have, with the cooperation of our paint manufacturers, Pratt and Lambert, developed a synthetic baking enamel which strongly resists these conditions. These new colors are made of the highest quality of raw materials with titanium dioxide pigment and synthetic resins and applied to a chemically clean material, baked on under high temperature to insure hardness and durability. Following the trend of Coloramics, we have selected our standard colors to a variety of modern shades harmonizing with any surrounding color schemes. Colors other than these may be specified, at slightly higher cost. While every effort to furnish an identical reproduction of your selected color will be made, a slight allowance for the paint manufacturer's shade tolerance must be considered.



70 APRICOT

71 TAN

72 TERRA COTTA

73 BROWN

74 GRAY

75 GRAY

76 BLUE

77 BLUE

78 GREEN

79 GREEN

standard fittings and hardware

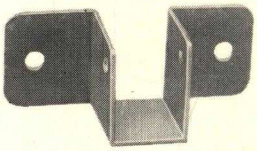
American Sanitary compartments are **ALL PRE-DRILLED** for **ALL** door hardware and for **ALL** dividing partition-to-pilaster attachments, thus reducing field costs and eliminating study and interpretation of complicated template drawings, etc.

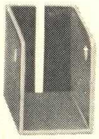
Heavy wrought steel headrail and wall fittings with smooth sanitary corners are enamelled to match partition units. Fittings are easily applied and are adjustable to job conditions.

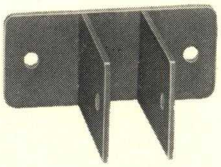
"TROUBLE-PROOF" door hardware

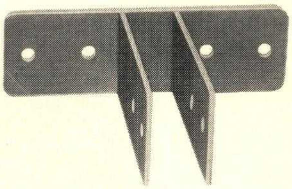
The use of the 3-point supported top pivot together with "Zytel" Nylon and Stainless Steel working parts assures long-lasting, trouble-free operation of the "TROUBLE-PROOF" Hinge Set.

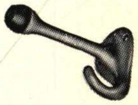
Standard make accessories, including paper holders, utility shelves and other related items can be furnished at extra cost.

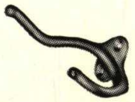

Headrail Wall Bracket

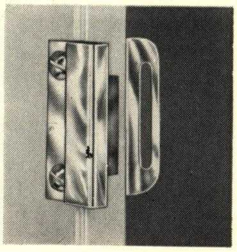

Headrail Return Bracket

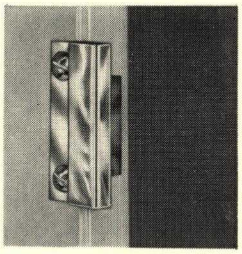

Wall Bracket 1" and 1¼"

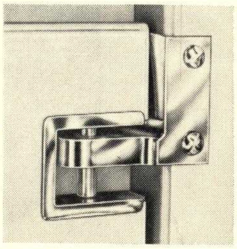

Urinal Screen Wall Bracket

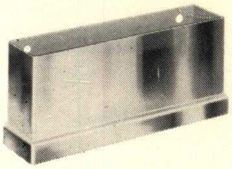

Bumper Coat Hook

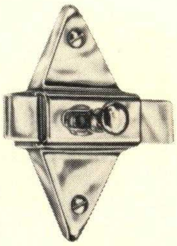

Two-Prong Coat Hook


Bumper & Keeper Inswing Door

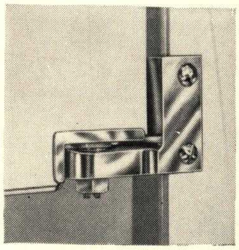

Bumper Outswing Door

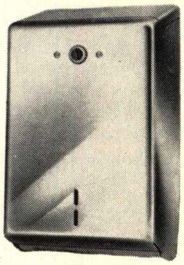

Top Pivot Assembly

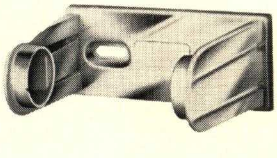

Base

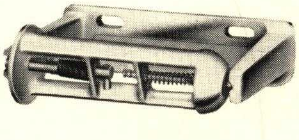

Slide Latch

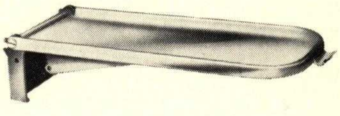
Handle Outswing Door


Bottom Hinge Assembly

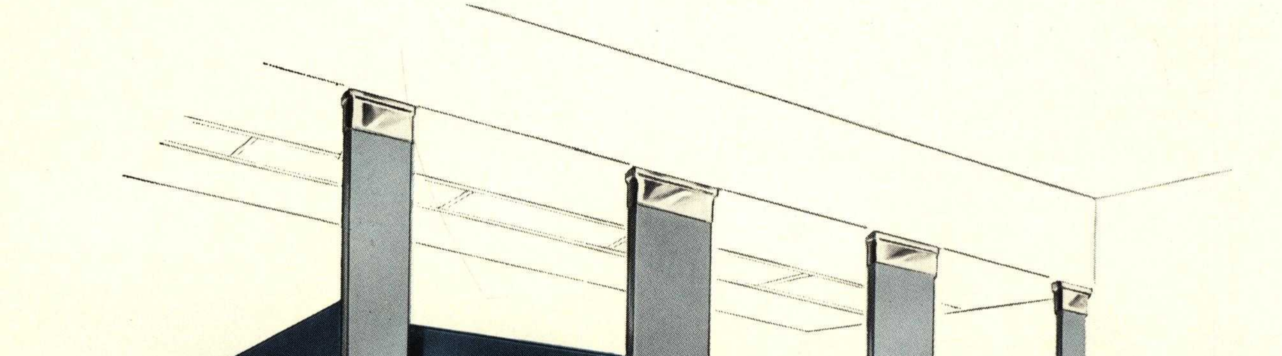

Box Paperholder No. 438


Roll Paperholder No. 964


Roll Paperholder No. 437


Folding Purse Shelf

ceiling stile TYPE "CS"



Ceiling Hung Partitions offer exceptional attractiveness and help to achieve the effects required in today's ultra modern washrooms.

This outstanding development creates an unobstructed floor area which simplifies cleaning and reduces the continuous cost of maintenance.

specifications

General: Toilet compartments shall be Type "CS" as manufactured by American Sanitary Partition Corporation, New York, N. Y. *Note:* Structural members required in ceiling to fasten Stiles shall be provided by others.

Materials: All steel shall be galvanized bonderized, stretcher levelled. Stiles shall be of 16 gauge material, Panels of 20 gauge and Doors of 22 gauge. Panel and Door Edge moulding shall be of 20 gauge.

Construction: Stiles, Panels and Doors shall be of veneer steel construction laminated to a honeycomb filler of correct dimension producing a Stile unit of not less than 1¼" thick and Panel and Door units of not less than 1" thick. All corners shall be welded and ground smooth. Stile and Panel and Door units shall be reenforced internally and prepierced for the application of fittings and hardware.

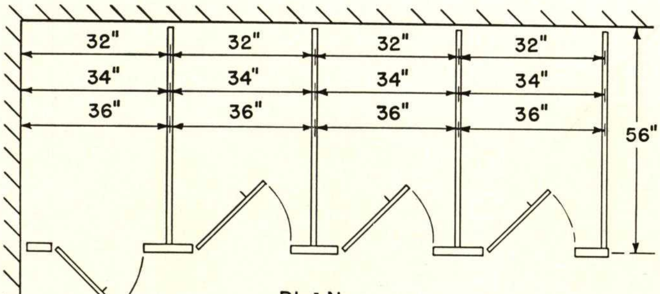
Fittings: Shall be of wrought steel and adjustable to keep Panels and Stiles clear from walls and floor. Except for 3" high cover base of polished *stainless steel* all other fittings shall be enamelled to match partitions.

Finish: All material shall be chemically cleaned, given one coat of rust resisting primer and one coat of synthetic baked enamel of one or two of our standard colors.

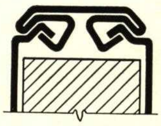
Hardware: Doors shall be equipped with "TROUBLE-PROOF" Hinge Set or approved equal. Each hinge set shall consist of Cast Alloy Non-Ferrous Metal Chrome Plated hinge brackets. The top pivot shall be recessed into the edge of the door 2½" below the top; heavy stainless steel pivot pin operating in a "Zytel" Nylon bearing shall be anchored above and below the top hinge bracket. The operation of the door shall be controlled by the lower hinge unit which consists of a heavy stainless steel pintle and mating "Zytel" Nylon cams which permit setting of the door at any desired position when door is not latched. Bumper and Keeper shall be of 18-8 stainless steel polished to a high lustre. Slide Latch and Coat Hooks shall be of cast alloy non-ferrous metal chrome plated. All hardware except Coat Hooks shall be through bolted. One way type theft proof screws and fasteners shall be provided for all hardware.

details

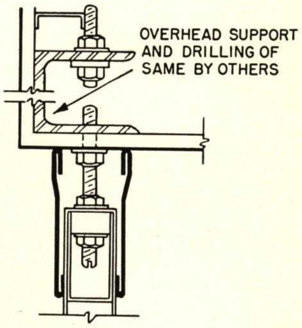
SCALE: ¼″ and 3″ = 1′-0″


32"
32"
32"
32"
34"
34"
34"
34"
36"
36"
36"
36"
56"

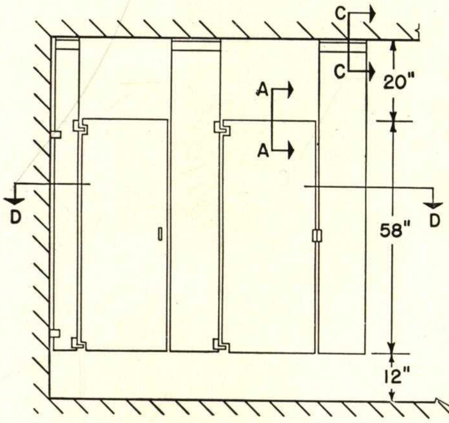
PLAN



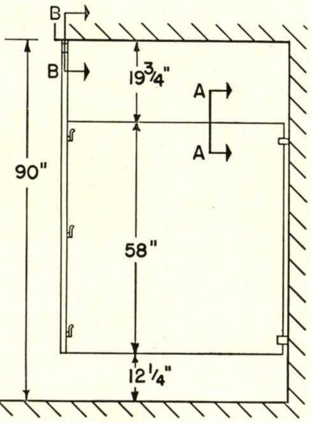
DOUBLE GRIP LOCK
SECTION A-A


OVERHEAD SUPPORT
AND DRILLING OF
SAME BY OTHERS

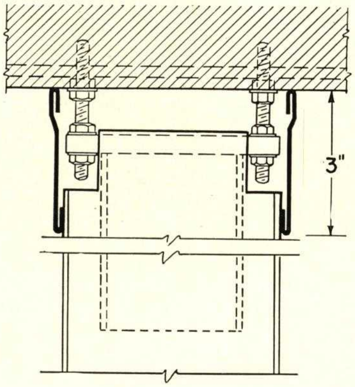
SIDE VIEW
SECTION C-C


C
C
A
A
D
D
20"
58"
12"

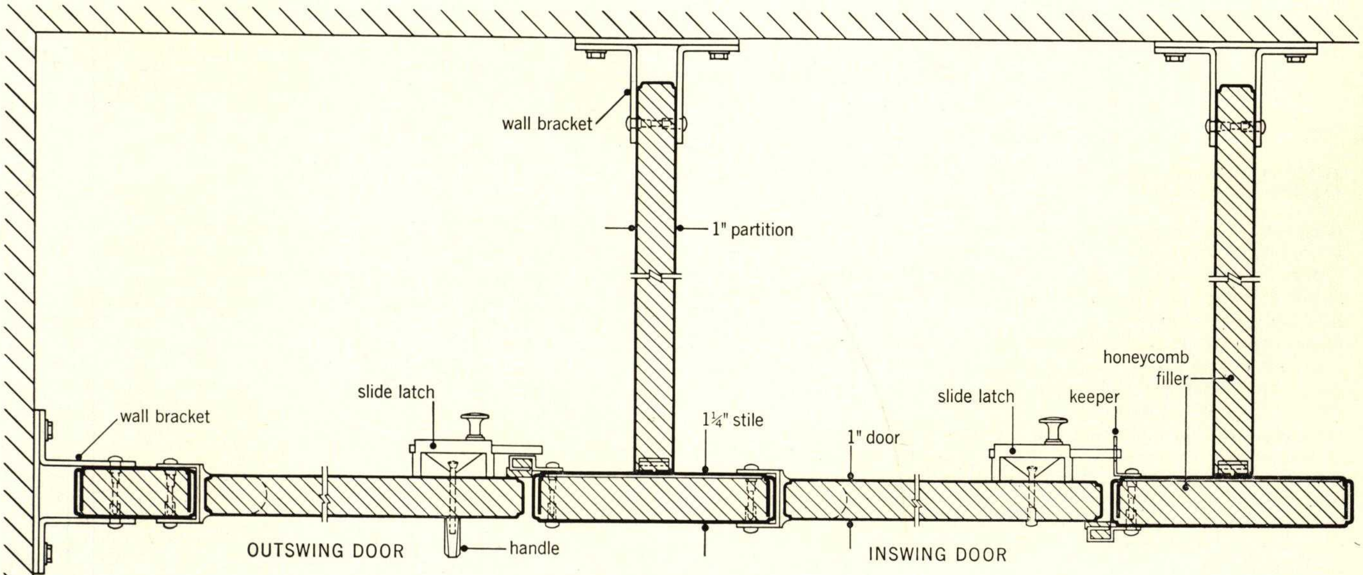
FRONT ELEVATION


B
B
19¾"
90"
A
A
58"
12¼"

SIDE ELEVATION

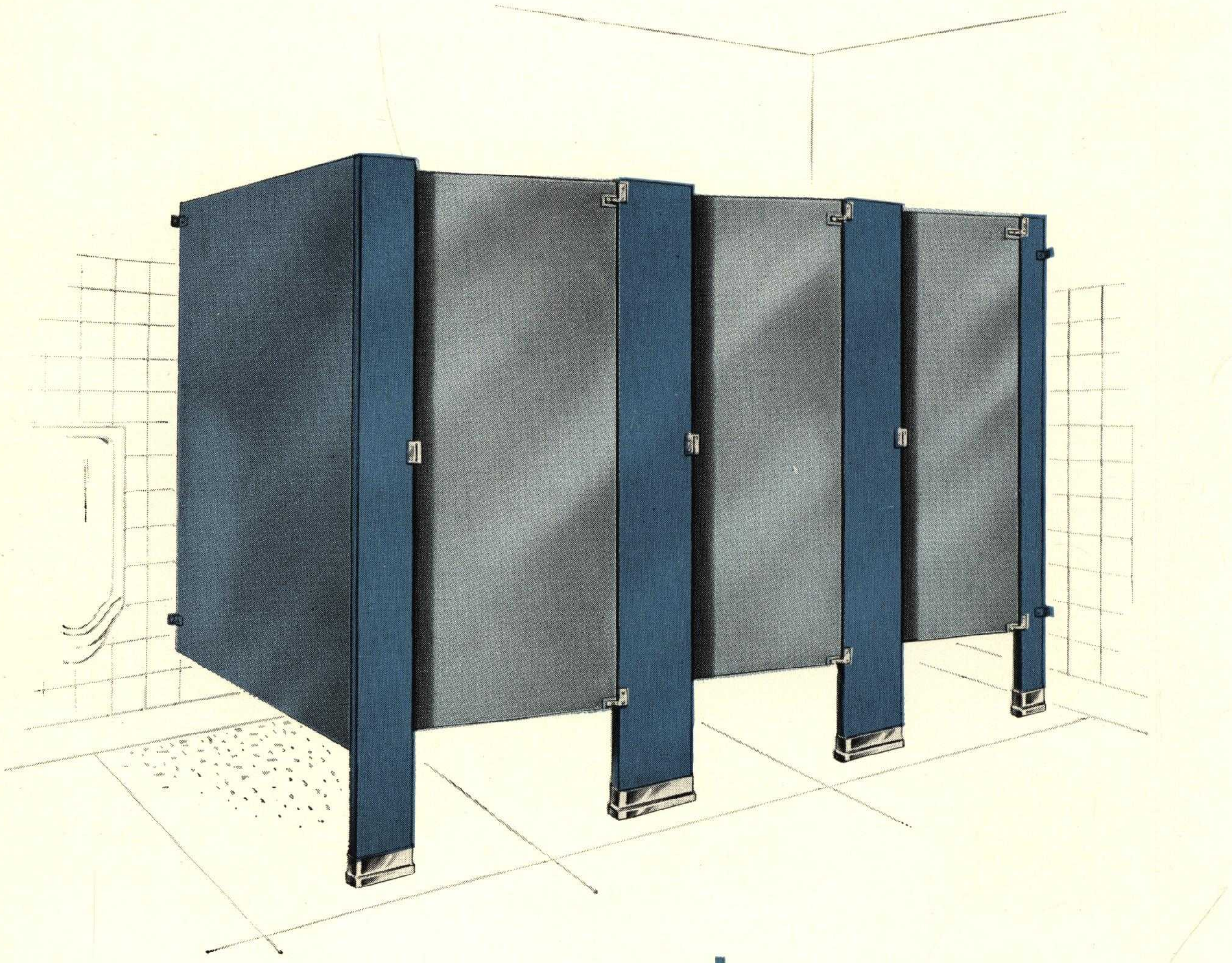


CEILING FASTENING
SECTION B-B


wall bracket
1" partition
honeycomb
filler
slide latch
keeper
1¼" stile
1" door
wall bracket
slide latch
OUTSWING DOOR
handle
INSWING DOOR

SECTION D-D

floor stile TYPE "FS"



Floor Stile Partitions offer a feeling of airiness by accenting the ceiling height. The flush and clean horizontal lines complement today's modern architecture.

specifications

General: Toilet compartments shall be Type "FS" as manufactured by American Sanitary Partition Corporation, New York, N. Y. *Note:* To provide a secure fastening of Stiles a solid sub-floor not over 2″ below the finish floor shall be provided by others.

Materials: All steel shall be galvanized bonderized, stretcher levelled. Stiles shall be of 16 gauge material, Panels of 20 gauge and Doors of 22 gauge. Panel and Door Edge moulding shall be of 20 gauge.

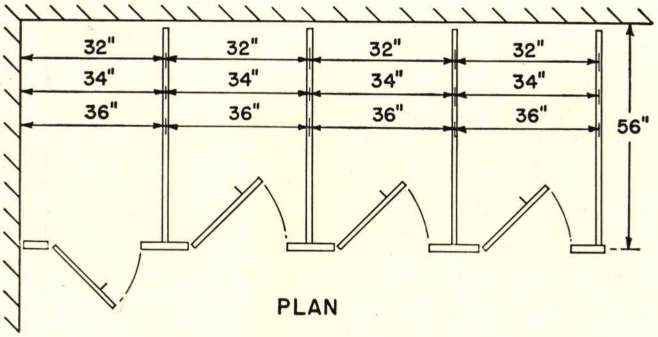
Construction: Stiles, Panels and Doors shall be of veneer steel construction laminated to a honeycomb filler of correct dimension producing a Stile unit of not less than 1¼″ thick and Panel and Door units of not less than 1″ thick. All corners shall be welded and ground smooth. Stile and Panel and Door units shall be reenforced internally and prepierced for the application of fittings and hardware.

Fittings: Shall be of wrought steel and adjustable to keep Panels and Stiles clear from walls. Except for 3″ high cover base of polished *stainless steel* all other fittings shall be enamelled to match partitions.

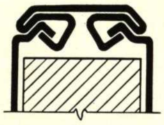
Finish: All material shall be chemically cleaned, given one coat of rust resisting primer and one coat of synthetic baked enamel of one or two of our standard colors.

Hardware: Doors shall be equipped with "TROUBLE-PROOF" Hinge Set or approved equal. Each hinge set shall consist of Cast Alloy Non-Ferrous Metal Chrome Plated hinge brackets. The top pivot shall be recessed into the edge of the door 2½″ below the top; heavy stainless steel pivot pin operating in a "Zytel" Nylon bearing shall be anchored above and below the top hinge bracket. The operation of the door shall be controlled by the lower hinge unit which consists of a heavy stainless steel pintle and mating "Zytel" Nylon cams which permit setting of the door at any desired position when door is not latched. Bumper and Keeper shall be of 18-8 stainless steel polished to a high lustre. Slide Latch and Coat Hooks shall be of cast alloy non-ferrous metal chrome plated. All hardware except Coat Hooks shall be through bolted. One way type theft proof screws and fasteners shall be provided for all hardware.

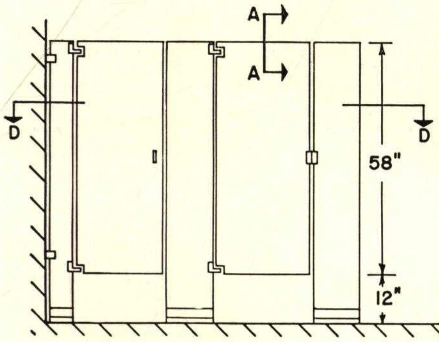
details SCALE: ¼″ and 3″ = 1′-0″


32"
34"
36"
32"
34"
36"
32"
34"
36"
32"
34"
36"
56"

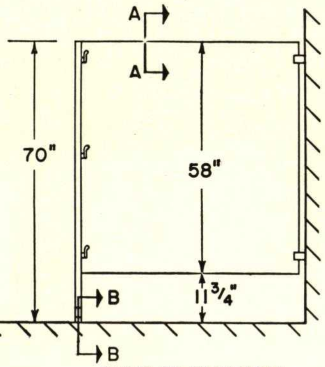
PLAN



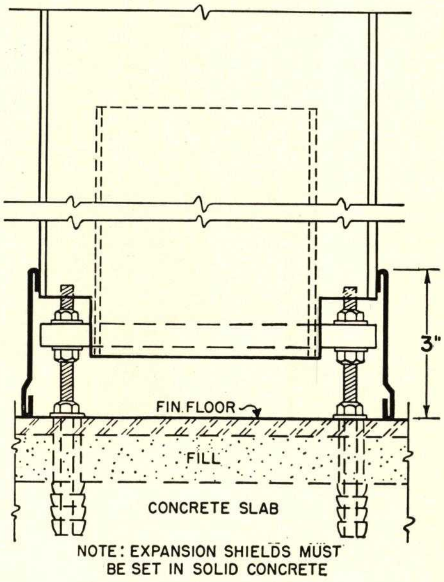
DOUBLE GRIP LOCK
SECTION A-A



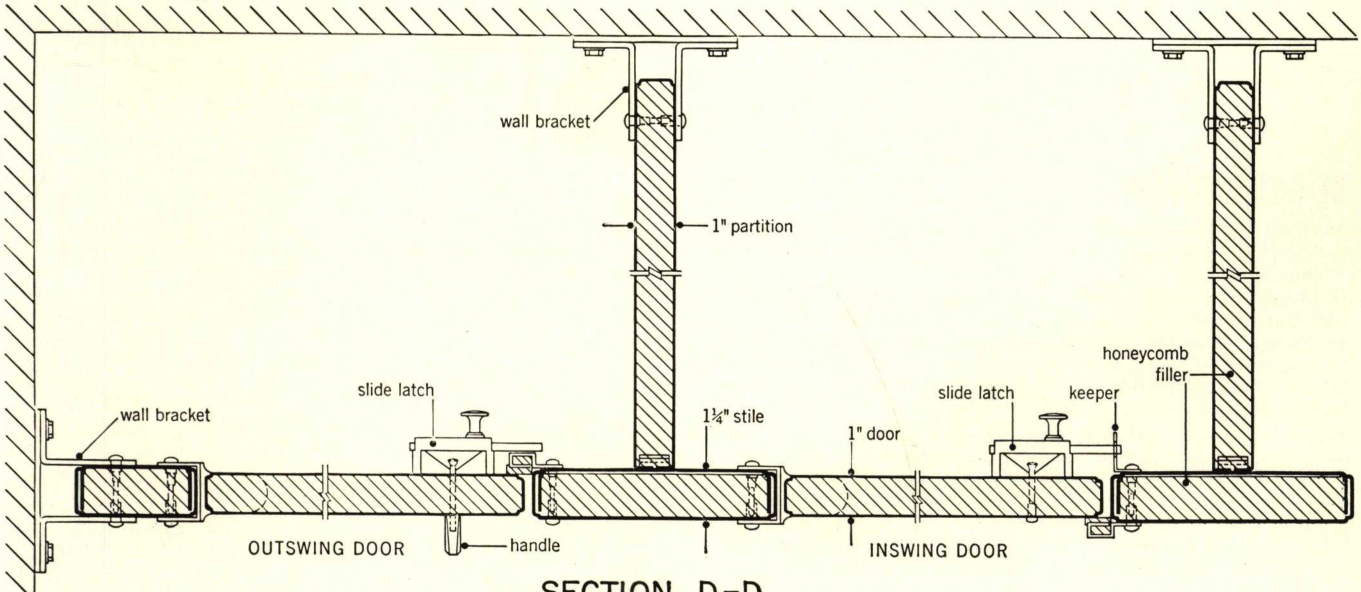
FRONT ELEVATION


A
A
70"
58"
11¾"
B
B

SIDE ELEVATION

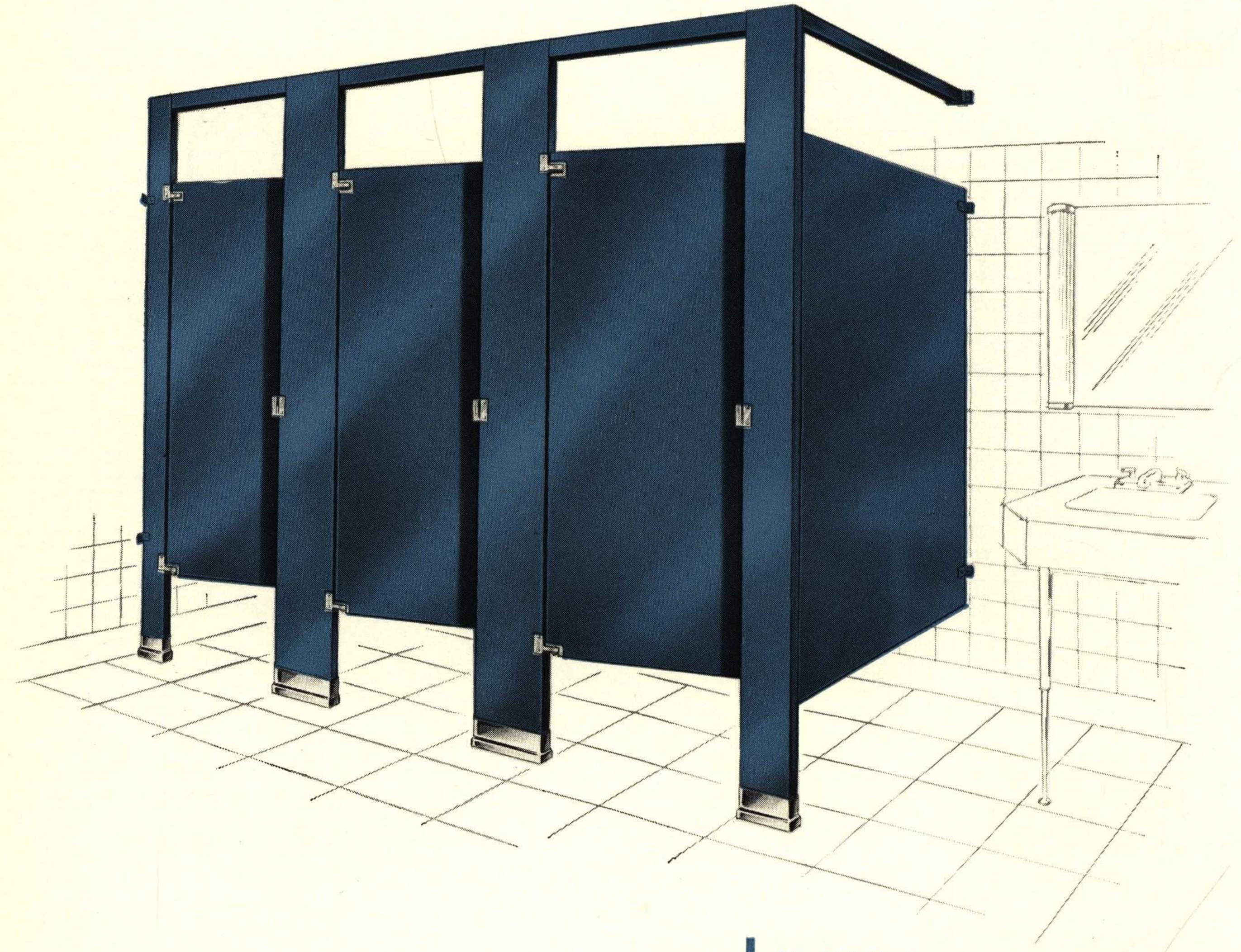

3"
FIN. FLOOR
FILL
CONCRETE SLAB
NOTE: EXPANSION SHIELDS MUST BE SET IN SOLID CONCRETE

STILE BASE ASSEMBLY
SECTION B-B


wall bracket
1" partition
honeycomb filler
slide latch
wall bracket
1¼" stile
slide latch
keeper
1" door
OUTSWING DOOR
handle
INSWING DOOR

SECTION D-D

full flush TYPE "FF"



The Full Flush model is the most popular type of toilet partition available today. It reflects the modern appearance of more expensive types, yet does not require special structural provisions to effect a rigid installation. Flush stiles minimize maintenance operations, just as on all expensive types.

specification

General: Toilet compartments shall be Type "FF" as manufactured by American Sanitary Partition Corporation, New York, N. Y.

Materials: All steel shall be cold rolled stretcher levelled furniture steel (*Alternate:* All steel shall be galvanized bonderized, stretcher levelled.) Stiles and Panels shall be of 20 gauge and Doors of 22 gauge material. Panel and Door Edge moulding shall be of 20 gauge and Headrail rectangular 20 gauge 1" x 1½" lock joint tubing.

Construction: Stiles, Panels and Doors shall be of veneer steel construction laminated to a honeycomb filler of correct dimension producing a Stile unit of not less than 1¼" thick and Panel and Door units of not less than 1" thick. All corners shall be welded and ground smooth. Stile and Panel and Door units shall be reenforced internally and prepierced for the application of fittings and hardware.

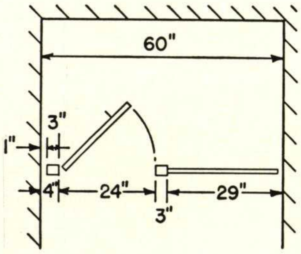
Fittings: Shall be of wrought steel and adjustable to keep Panels and Stiles clear from walls. Except for 3" high cover base of polished *stainless steel* all other fittings shall be enamelled to match partitions.

Finish: All material shall be chemically cleaned and given one coat of rust resisting primer and one coat of synthetic baked enamel of one or two of our standard colors.

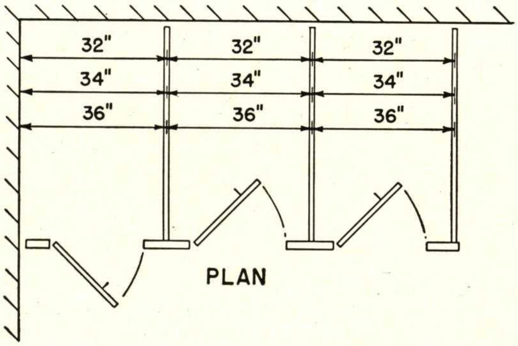
Hardware: Doors shall be equipped with "TROUBLE-PROOF" Hinge Set or approved equal. Each hinge set shall consist of Cast Alloy Non-Ferrous Metal Chrome Plated hinge brackets. The top pivot shall be recessed into the edge of the door 2½" below the top; heavy stainless steel pivot pin operating in a "Zytel" Nylon bearing shall be anchored above and below the top hinge bracket. The operation of the door shall be controlled by the lower hinge unit which consists of a heavy stainless steel pintle and mating "Zytel" Nylon cams which permit setting of the door at any desired position when door is not latched. Bumper and Keeper shall be of 18-8 stainless steel polished to a high lustre. Slide Latch and Coat Hooks shall be of cast alloy non-ferrous metal chrome plated. All hardware except Coat Hooks shall be through bolted. One way type theft proof screws and fasteners shall be provided for all hardware.

details

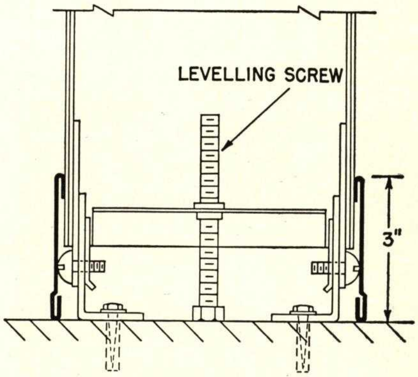
SCALE: ¼'' and 3'' = 1'-0''


60"
3"
1"
4"
24"
3"
29"

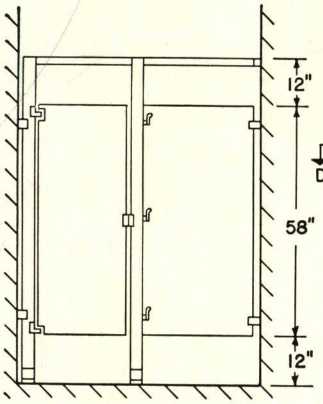
PLAN


32"
32"
32"
34"
34"
34"
36"
36"
36"

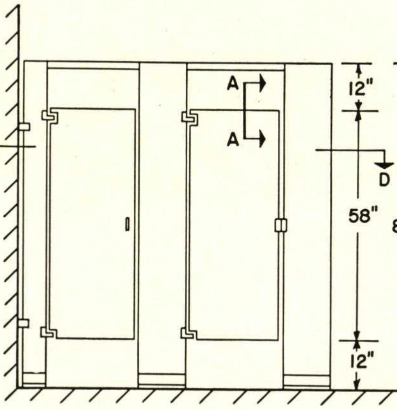
PLAN


LEVELLING SCREW
3"

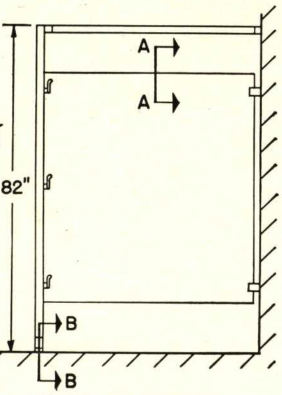
STILE BASE ASSEMBLY
SECTION B-B



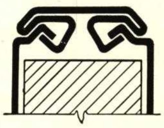
FRONT ELEVATION


A
A
D
D
12"
58"
12"

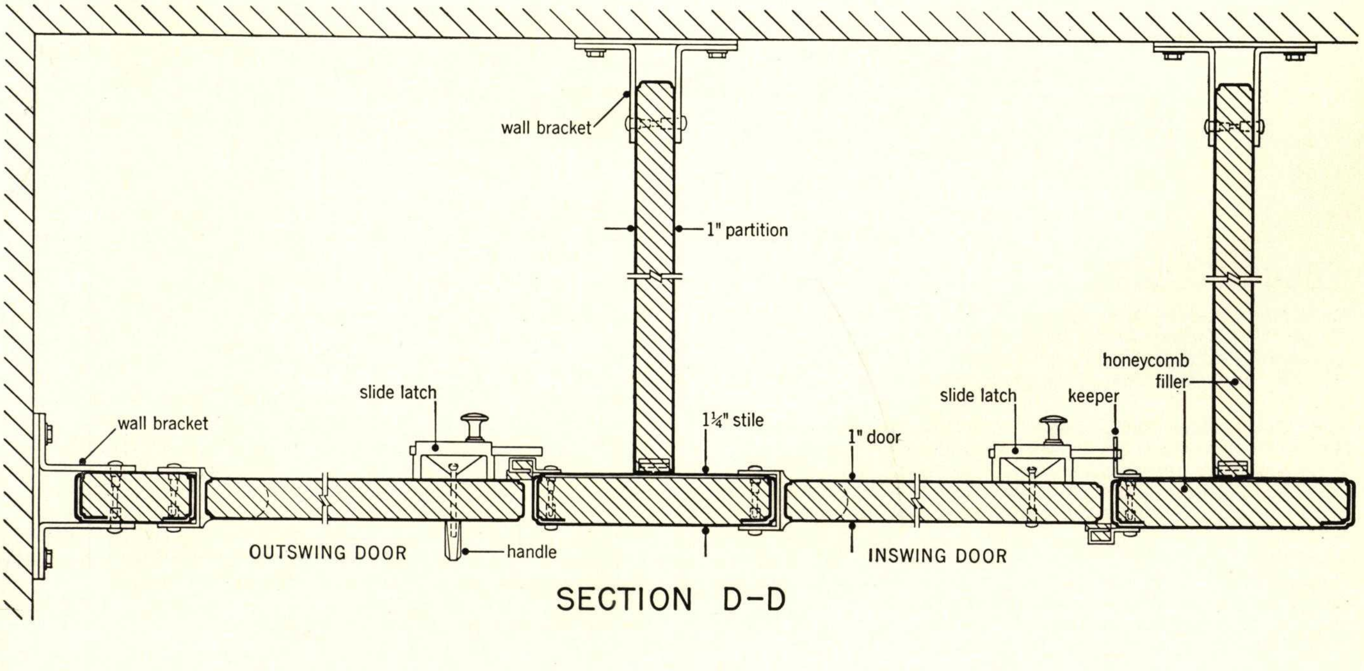
FRONT ELEVATION



SIDE ELEVATION



DOUBLE GRIP LOCK
SECTION A-A


wall bracket
1" partition
honeycomb filler
slide latch
keeper
wall bracket
slide latch
1¼" stile
1" door
OUTSWING DOOR
handle
INSWING DOOR

SECTION D-D

plastic laminate TYPE "PL"

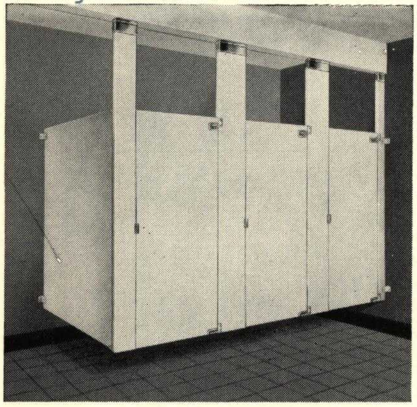
Toilet partitions surfaced with high-pressure decorative laminated plastic are the latest development of modern materials and design for sanitary and attractive restrooms.

Our use of laminated plastic with its proven superiority to other more commonly used materials together with our many years of experience in the toilet partition industry has produced a toilet partition unit that offers more advantages and beauty than any other materials used to date.

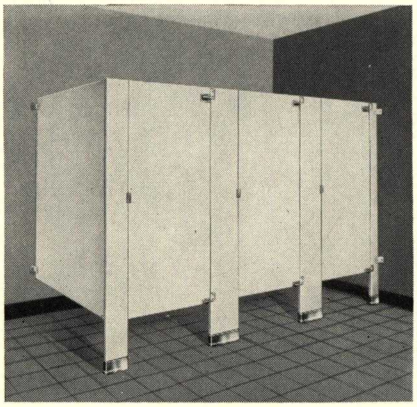
Our design is developed from our metal partition line, incorporating all of the features required to produce a sound, rigid and lasting installation. To these important basic principles, we have added the permanence, beauty and warmth of laminated plastic thus making possible an economical unit which requires little or no maintenance.

These partitions are available in a wide variety of warm, glowing colors and patterns and will delight the architect and decorator with their beauty.

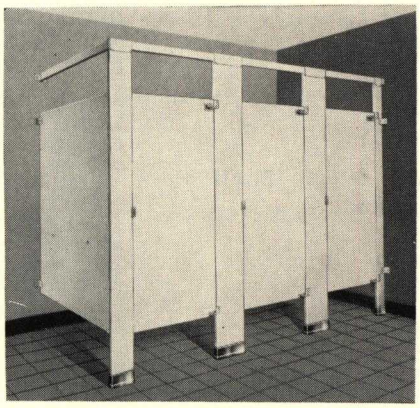
ceiling stile **PL-CS**



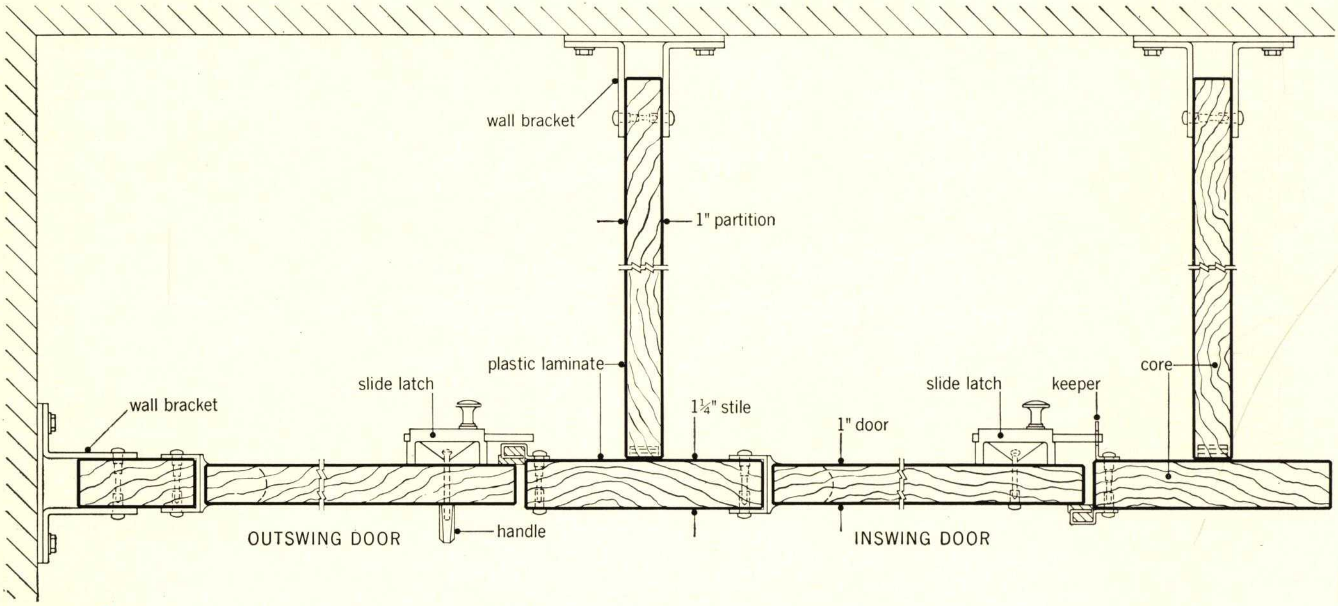
floor stile **PL-FS**



full flush **PL-FF**



details SCALE: 3'' = 1'-0''



specifications

Type PL-CS, Ceiling Stile, General: Toilet Partitions shall be Type PL-CS Ceiling Stile, as manufactured by American Sanitary Partition Corporation, New York, N. Y.
NOTE: Structural members in ceiling shall be provided by others.

Type PL-FS, Floor Stile, General: Toilet Partitions shall be Type PL-FS Floor Stile, as manufactured by American Sanitary Partition Corporation, New York, N. Y.
NOTE: To provide a secure fastening of stiles, a solid subfloor not over 2" below the finish floor shall be provided by others.

Type PL-FF, Full Flush, General: Toilet Partitions shall be Type PL-FF Full Flush, as manufactured by American Sanitary Partition Corporation, New York, N. Y.
NOTE: Since this type does not require any special ceiling or floor provisions, headrail bracing will be required.

Materials: All surface and edging material shall be 1/16" thick high grade pressure decorative laminated plastic. Core material shall be exterior grade plywood or Nova-Ply.

Construction: Panels and doors shall have laminated plastic bonded to the surfaces and edges of ⅞" thick core to produce a 1" thick panel and door. Stiles shall have laminated plastic bonded to the surfaces and edges of 1⅛" thick core to produce a 1¼" thick Stile.

Fittings: Wall and floor fittings shall be adjustable to keep Panels and Stiles clear of walls and floors. Wall brackets and stile cover base shall be of polished stainless steel.

Hardware: Doors shall be equipped with "Trouble-Proof" Hinge Set or approved equal.

standard and stock sizes

In view of the standardization of toilet room sizes, layouts and fixtures of late, we are able to stock a variety of materials for prompt STOCK shipment. The use of said stock material will assure on-time completion of projects operating under a tight or limited time schedule.

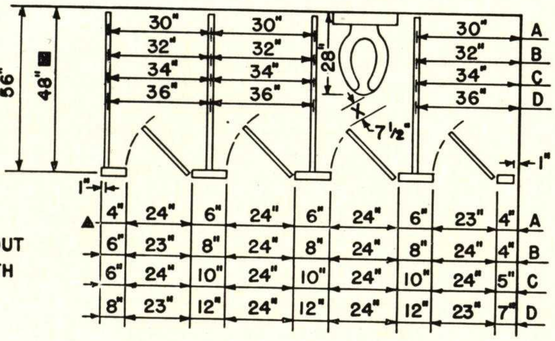
The layout detailed will cover a multitude of job conditions. A special door width at one end of the battery or the other will not delay the STOCK feature.

This stock material is available in the following Types and grades of material finished in any one of our 10 standard colors:

1 CEILING STILE TYPE "CS" Galvanized Bonderized Steel.	PAGES 4 - 5
2 FLOOR STILE TYPE "FS" Galvanized Bonderized Steel.	PAGES 6 - 7
3 FULL FLUSH TYPE "FF" Galvanized Bonderized or Cold Rolled Steel.	PAGES 8 - 9

Individual Type Specifications are naturally adhered to.

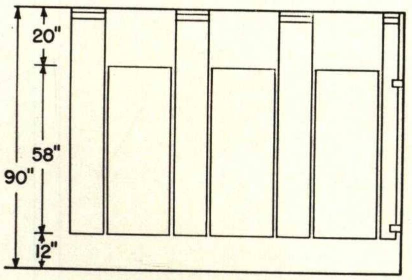
STOCK SIZES


56"
48" ■
30"
32"
34"
36"
30"
32"
34"
36"
28"
30"
32"
34"
36"
A
B
C
D
7½"
1"
1"
▲
4" 24" 6" 24" 6" 24" 6" 23" 4" A
6" 23" 8" 24" 8" 24" 8" 24" 4" B
6" 24" 10" 24" 10" 24" 10" 24" 5" C
8" 23" 12" 24" 12" 24" 12" 23" 7" D

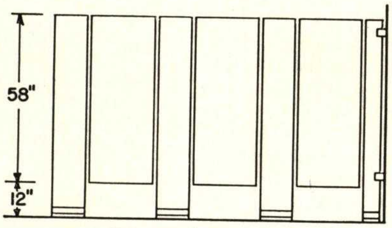
■ DOORS SWING OUT WITH 48" DEPTH

▲ 6" MINIMUM STILE AT CORNER FOR PROPER SUPPORT FOR TYPES FS & CS

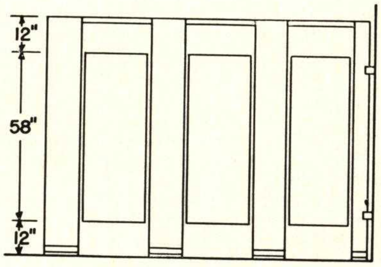
STANDARD and STOCK HEIGHTS



CEILING STILE TYPE

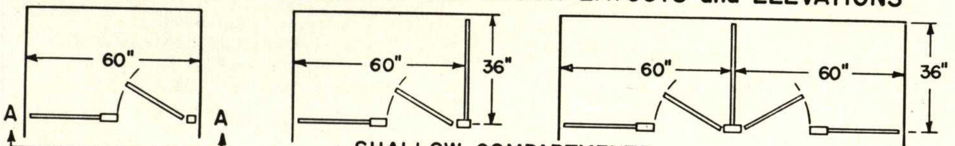


FLOOR STILE TYPE

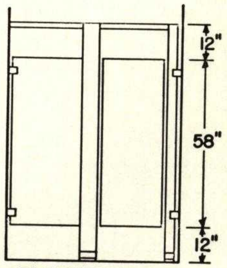


FULL FLUSH TYPE

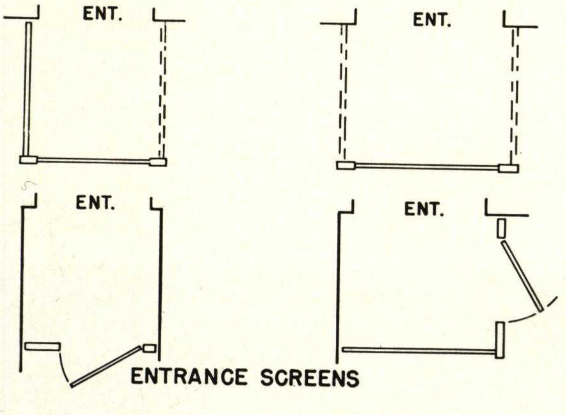
STANDARD NON STOCK LAYOUTS and ELEVATIONS


60"
A
A
60"
36"
60"
60"
36"

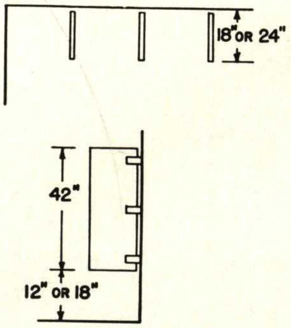
SHALLOW COMPARTMENTS



ELEVATION AA


ENT.
ENT.
ENT.
ENT.

ENTRANCE SCREENS


18" OR 24"
42"
12" OR 18"

URINAL SCREENS

representatives

ALABAMA	Mobile	Buck Taylor, P.O. Box 211, Crichton Station; Greenwood 9-6101
ARIZONA	Phoenix	Maurice B. Liddell, 906 West Campus Drive; AM 6-3697
	Tucson	Parker Building Specialties, Inc., 3831 East 37th Street; EA 7-2971
ARKANSAS	Little Rock	Arkansas Builders Supply, Inc., 1118 W. Markham; Franklin 5-5397
COLORADO	Denver	Edward E. Dustin Company, P. O. Box 4053; Skyline 6-5301
CONNECTICUT	New London	W. A. Park Company, Inc., P. O. Box 643; Ingersoll 4-7267
	Rowayton	William Pinkney, Jr., 177 Rowayton Avenue (Norwalk); Volunteer 6-0882
DIST. OF COLUMBIA	Washington	Permanent Products Co., 7714 Radnor Road, Bethesda 14, Maryland; Oliver 2-7475
FLORIDA	Coral Gables	Mid-South Distributors, Inc., 351 San Lorenzo Avenue; HI 5-3641
	Jacksonville	Julien P. Benjamin Equipment Co., P. O. Box 2211; Evergreen 7-5581
	Tampa	T. E. Jacobson, P. O. Box 8006; Webster 9-4161
GEORGIA	Albany	Samco Steel & Supply Company, P. O. Box 1185; HE 6-1323
	Atlanta	R. S. Martin Company, P. O. Box 1353; Trinity 6-4451
ILLINOIS		Riverside Architectural Metal Co., P. O. Box 810, Davenport, Iowa; 3-8013
INDIANA	Angola	Angola Brick & Tile Co., Inc., 121 West Stocker Street; 308
IOWA	Davenport	Riverside Architectural Metal Co., P. O. Box 810; 3-8013
KANSAS	Wichita	The Lusco Brick & Stone Co., P. O. Box 1481
KENTUCKY	Lexington	Paul O. Schubert Co., P. O. Box 902; PH 4-0950
	Louisville 2	Schneider Building Products, 2345 Frankfort Ave.; TW 6-4459
LOUISIANA	New Orleans 12	John J. Middleton, 603 Delta Building; JA 5-4594
	Shreveport	John J. Middleton Co., 471 Albert Ave., Shreveport, La.
MAINE		George J. Kehas, P. O. Box 576, Manchester, N. H.; National 2-5068
MARYLAND	Bethesda 14	Permanent Products Co., 7714 Radnor Road; Oliver 2-7475
MASSACHUSETTS	Boston	Raymond H. Pierce Co., 126 Massachusetts Avenue; Copley 7-1100
	Springfield 1	The H. Laurence Foster Co., 45 Fisk Avenue; REpublic 3-3458
MICHIGAN	Detroit 26	R. I. Edwards, Jr., 2102 David Stott Building; Woodward 2-5180
	Grand Rapids	Metal Building Specialties Co., 1315 Phillips S.W.; GL 2-2511
	Kalamazoo	Metal Building Specialties Co., 1905 Lake Street; FI 5-2743
MINNESOTA	Minneapolis 3	Bartley Sales Company, Inc., 134 South Tenth Street; Federal 8-7838
MISSISSIPPI	Gulfport	Singley-Weir & Company, P. O. Box 300; UN 3-4716
MONTANA	Billings	Anderson Construction Products, P. O. Box 299
MISSOURI	Jefferson City	De Long's, Inc., Dix Road and Industrial Drive; Dial 6-6168
	Kansas City	The Lusco Brick & Stone Co., P. O. Box 83
NEBRASKA	Omaha	Lumbermen's Brick & Supply Company, 900 South 15th Street; Atlantic 5160
NEW HAMPSHIRE	Manchester	George J. Kehas, P. O. Box 576; National 2-5068
NEW JERSEY	Camden	Philadelphia Fire Retardant Co., Inc., 1934 North Front Street, Philadelphia, Pa.; Garfield 6-0206
	Jersey City 2	Atlas Steel Products Company, 371 Montgomery Street; Henderson 3-6565
NEW MEXICO	Albuquerque	S. W. Avery Co., Inc., 3218 Silver Avenue S.E.; AL 6-9194
NEW YORK	Binghamton	C. Y. Cushman, P. O. Box 944; Raymond 3-7565
	Farmingdale	Karpen Steel Products, Inc., Broad Hollow Road; Chapel 9-4820
	Jamestown	Lakewood Supply Company, P. O. Box 755; Lakewood 3925
	Kingston	Jay Steel Products, Inc., Morton Blvd.; 8830
	New York City	Arrow Steel Partition, Inc., 46-41 Vernon Blvd., L. I. C.; RA 9-3470
	Schenectady	Fireproof Materials Co., P. O. Box 91, Brandywine Station; Franklin 4-6211
NORTH CAROLINA	Greensboro	Jerome Samuel, P. O. Box 1823; Broadway 5-2607
	Hickory	Hickory Steel & Iron Co., Inc.
NORTH DAKOTA		Bartley Sales Company, Inc., 134 South Tenth Street, Minneapolis, Minn.; Federal 8-7838
OHIO	Cincinnati	The Fred M. Cole Corp., 1726 Young Street; AVon 1-0400
	Columbus 15	Fred M. Cole Corp., 545 North High Street; CA 8-2101
	Toledo 6	Erausquin, 3304 West Lincolnshire; Jefferson 6-9902
OREGON	Portland 14	Allied Building Specialties Co., 2014 S.E. 9th Avenue; Belmont 4-6505
PENNSYLVANIA	Easton	H. H. Bennett Hardware Company, 154 Northampton Street; 6123
	Erie	Lakewood Supply Company, P. O. Box 755, Jamestown, N. Y.; Lakewood 3925
	Hanover	Penn Mar Supply, Inc., 1100 Carlisle Street; Melrose 7-5995
	Philadelphia 22	Philadelphia Fire Retardant Co., Inc., 1934 North Front Street; Garfield 6-0206
	Pittsburgh 22	Building Specialties Company, 951 Century Building; Atlantic 1-1890
	Scranton 5	John J. Weis & Son, 901 Crown Avenue; Diamond 7-4825
SOUTH CAROLINA	Columbia	Owen Steel Company, P. O. Box 694; Alpine 6-4951
	Greenville	Engineered Specialties Co., P. O. Box 446; CEdar 5-7449
SOUTH DAKOTA		Bartley Sales Company, Inc., 134 South Tenth Street, Minneapolis, Minn.; Federal 8-7838
TEXAS	Dallas 9	R. J. De Wees & Son, Inc., 5911 Maple Avenue; Fleetwood 7-9337
	Houston	R. J. De Wees & Son, Inc., c/o Henry W. Garrett, 2027 Harold Street; Lynchberg 2708
	San Antonio	R. J. De Wees & Son, Inc., P. O. Box 6534; Blackstone 5-2251
VERMONT		George J. Kehas, P. O. Box 576, Manchester, N. H.; National 2-5068
VIRGINIA	Richmond	L. C. Tolson Company, Inc., 3909 Cutshaw Avenue; 6-2290
	Roanoke	Marsteller Corporation, P. O. Box 810; Dial 4-6621
WASHINGTON	Seattle 9	Barclay Dean Company, 516 First Avenue North; Atwater 4-0775
WISCONSIN	Eau Claire	Bartley Sales Company, Inc., 134 South Tenth Street, Minneapolis, Minn.; Federal 8-7838

AMERICAN SANITARY PARTITION CORPORATION

37-03 21st Street, Long Island City 1, N. Y. Phone: STillwell 4-5987

A.I.A. File No. 35-H-6 January, 1960

A.I.A. File No. 35-H-6 Janua 1960

22b
Ca

STALLPACK®

A
packaged
marble
unit

CARTHAGE
MARBLE
CORPORATION

STALLPACK® floor mounted toilet enclosures

Stallpack is complete in itself!

Stallpack is a packaged unit containing all the component parts of a standard-sized marble toilet compartment. Stallpack includes: polished Ozark Grey Veined marble partition and mullions, galvanized bonderized steel doors with baked enamel finish, complete set of non-ferrous chrome-plated hardware and instructions for quick installation.

Stallpack looks best!

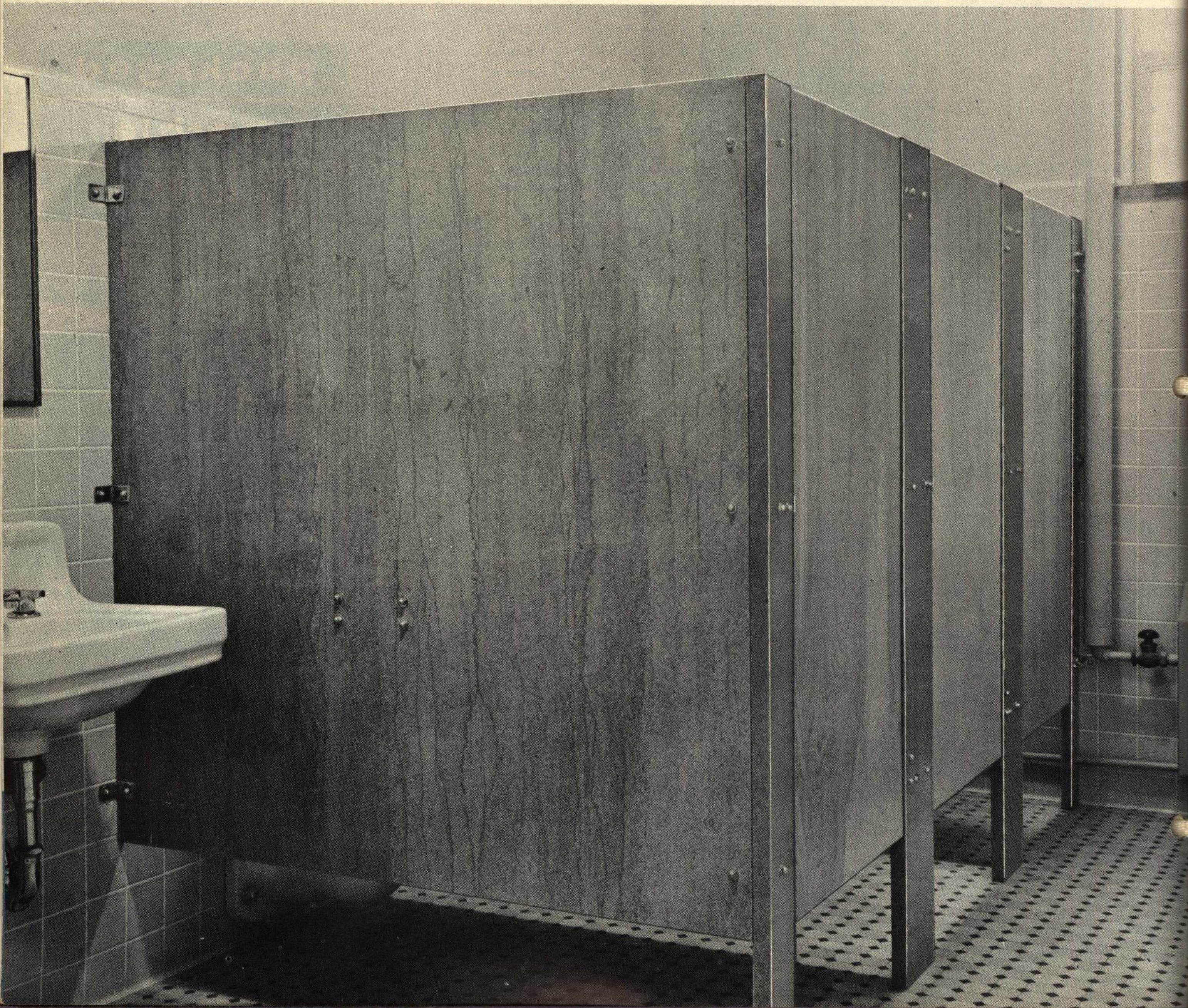
Its richly gleaming grey marble is unmatched in beauty and adaptability among all other compartments. It replaces the cold, antiseptic glare and rattling echo of painted partitions with the depth and splendor of fine, natural marble.

Stallpack performs best!

Stallpack marble stays shining clean with little effort, never needs paint or repair. Unequalled for durability, the hard Class A marble used in Stallpack will last for the life of your building. Quality Stallpack hardware will not rust or corrode, performs efficiently for years of hard use.

Stallpack is ready for shipment!

Marble partitions and mullions are mass-produced to stock and stored in our warehouse along with Stallpack hardware purchased at quantity prices. Everything is packaged in readiness for immediate delivery. Stallpack is standardized, and that means more quality for less money, more convenience in delivery!

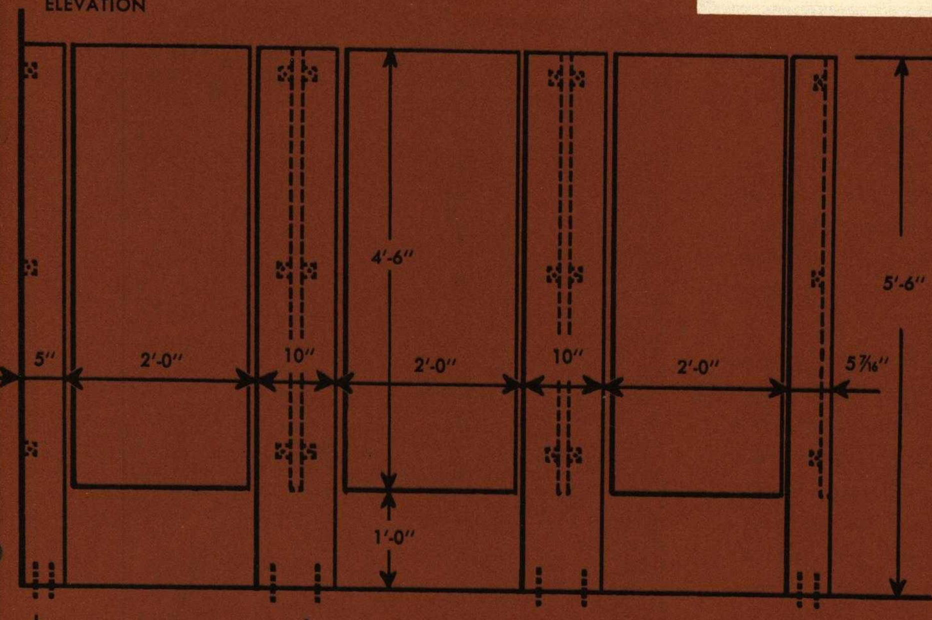


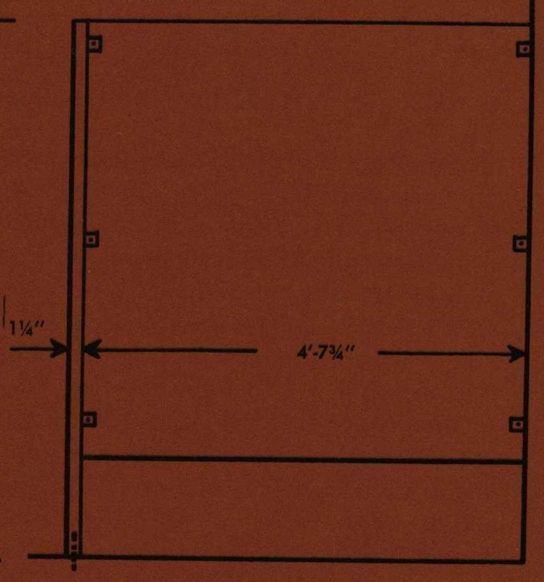
STALLPACK

detail drawings • specifications

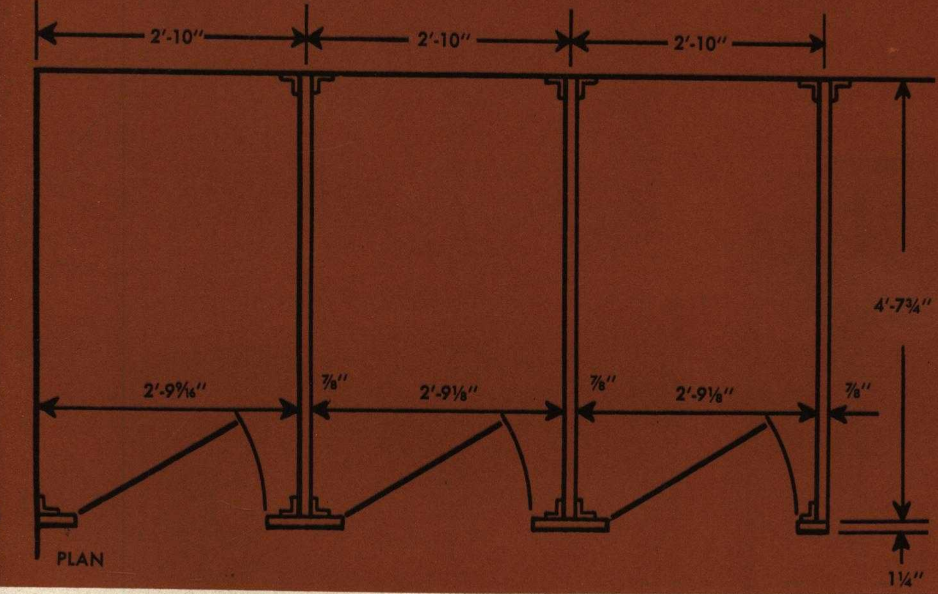
detail drawings Scale: ½″ = 1′-0″

ELEVATION

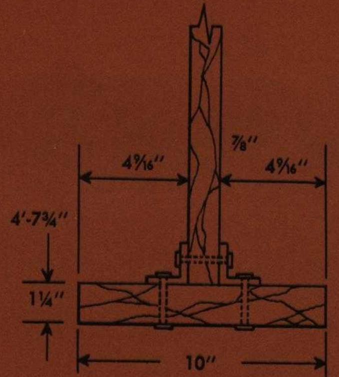




SECTION



PLAN



MULLION
No Scale

SPECIFICATIONS

general

Toilet compartments shall be Stallpack marble units as manufactured by the Carthage Marble Corporation, Carthage, Missouri. There shall be no posts or headrails. Solid sub-floor not more than 2″ below finish floor shall be provided by others for anchoring the Stallpack stiles. Toilet walls furnished by others must be perpendicular to the floor surface and must be of some solid masonry construction or hollow tile to allow the anchoring of partitions to the walls.

marble

Stiles and partitions shall be of Ozark Grey Veined marble, polished and drilled for installation.

metal doors

Doors shall be flush construction of 22-gauge cold rolled steel, 1″ thick, with fibre board cores cemented under pressure to the inner metal surfaces. Face plates of doors shall have die-formed moulding, mitered and welded at corners. Doors shall be galvanized, bonderized and coated with a rust-resistant synthetic primer followed by synthetic enamel baked at high temperatures.

wood doors (optional)

Birch Veneer Doors shall be chipboard solid core flush doors, 1″ thick, as manufactured by U. S. Plywood Corp. The extruded core shall be made from wood chips and resins.

Edge strips shall be ¾″ hardwood bonded on the two long edges, top and bottom. Cross bands shall be any suitable hardwood not less than 1/12″ and birch face veneers shall be standard rotary cut 1/24″ thick. All face veneers shall be tapeless spliced and stroke sanded. Plies shall be bonded with resin by hot plate presses to meet tests for Type 1 (fully waterproof under CS 35-56 for hardwood plywood).

Finish shall consist of one coat sanding sealer, 2 coats of high solid clear lacquer and one coat of clear satin lacquer.

hardware

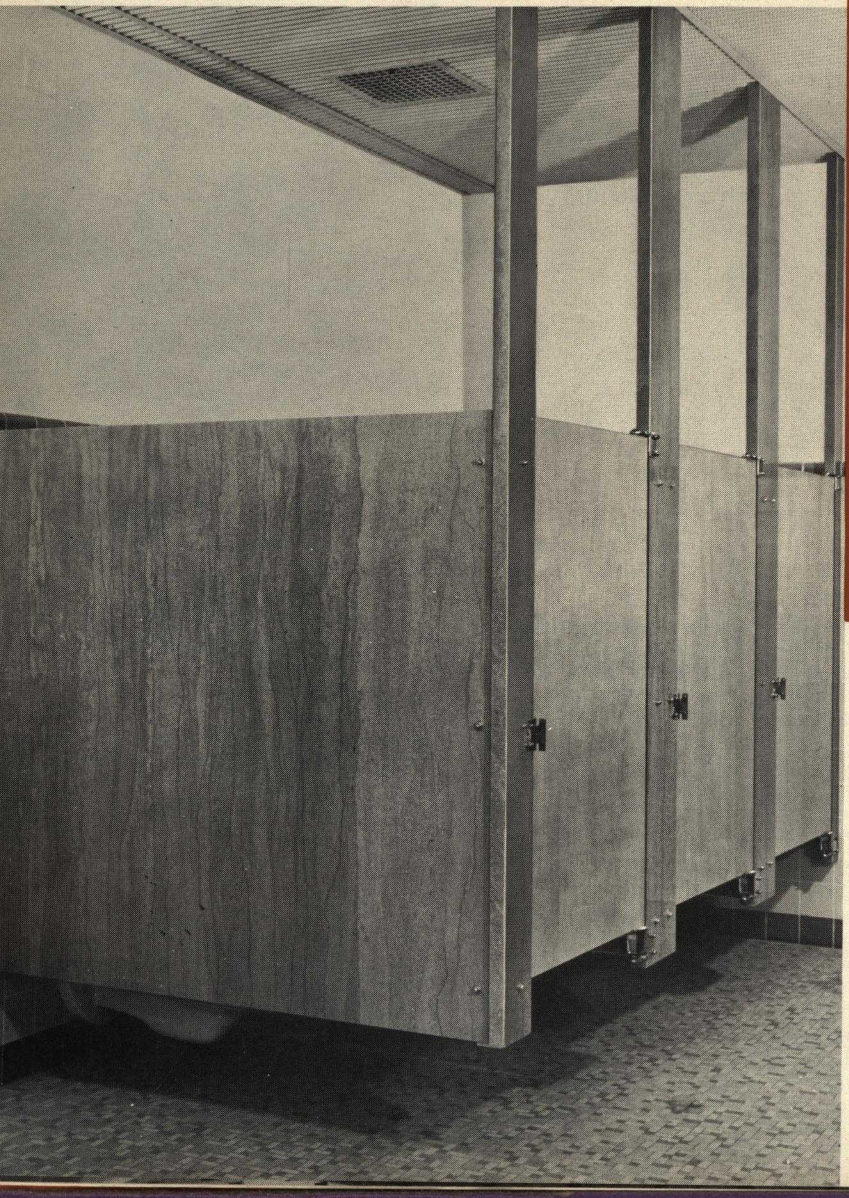
Compartments shall be fitted with combination keeper and bumper, gravity hinge, slide bar latch, coat hook with rubber tipped bumper, clip angles with cap nuts and brass rods, and paper holder. All hardware shall be of non-ferrous metal, chromium plated.

SPACEPACK

ceiling-hung toilet enclosures

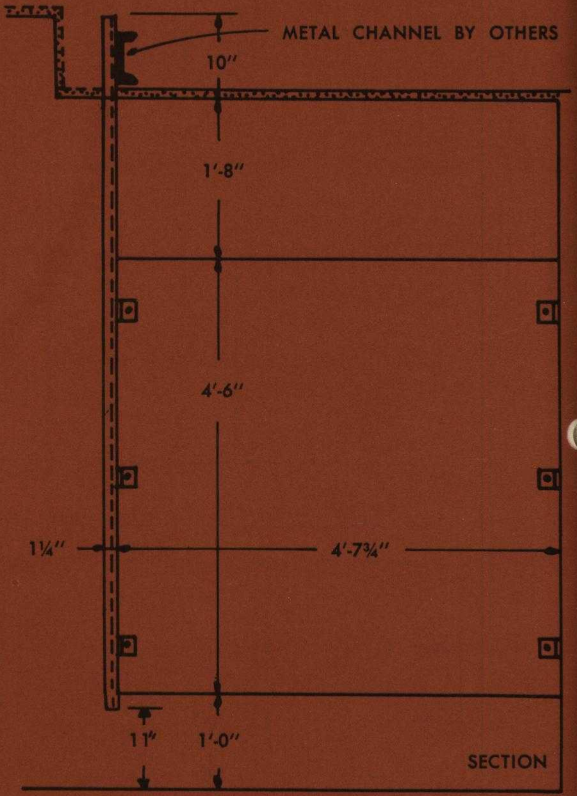
Spacepack is a ceiling-hung marble toilet enclosure that is new in structural design (see details). Like Stallpack, it is prefabricated to standard size. Gleaming grey marble, chrome-plated hardware, and well-made metal doors are packaged and stocked at our plant, ready for immediate shipment.

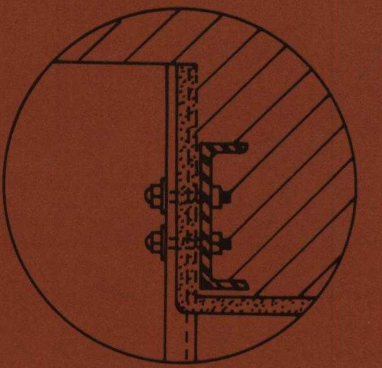
Spacepack provides the ultimate in a toilet enclosure that is easily maintained. It leaves the floor clear of obstructions to make thorough cleaning a quick and easy job. What's more, the Class A Ozark Grey Veined marble used for stiles and partitions needs only an occasional washing with mild soap and water to stay shining clean and free from bacteria. This Class A marble won't rust or corrode, needs no paint or repair, and will give generations of dependable service. Even the hardware used for Spacepack is rustproof forever, being made entirely from non-ferrous metals.



detail drawings Scale: ½″ = 1′-0″

RECESSED ALUMINUM STRIPS ¼″ x ¾″ IN CROSS SECTION RUN FULL LENGTH OF STILES AND ARE PERMANENTLY ATTACHED TO MARBLE.





ALTERNATE CEILING DETAILS
Scale: 1½″ = 1′-0″

SPECIFICATIONS

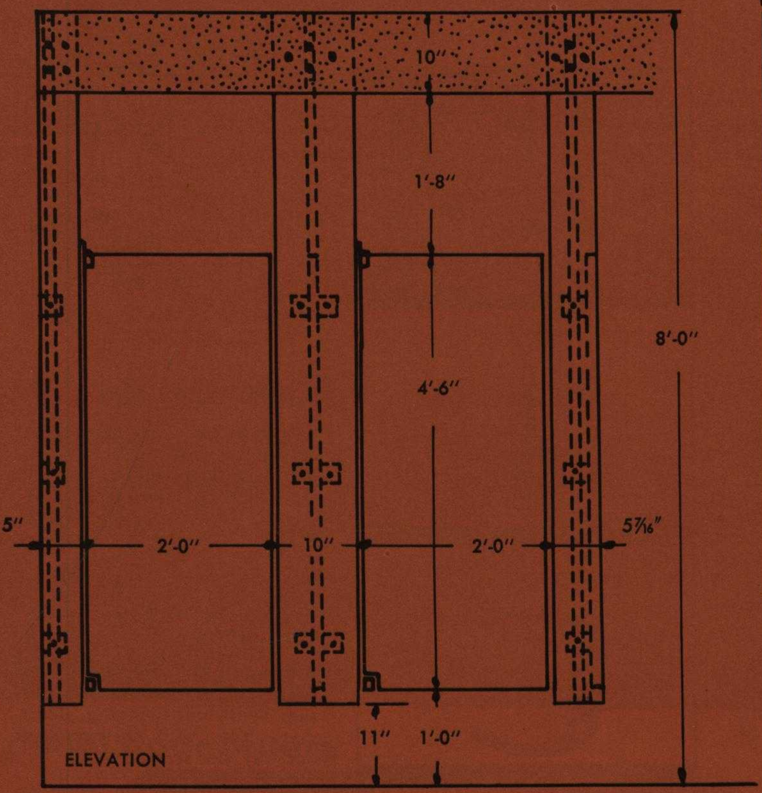
general

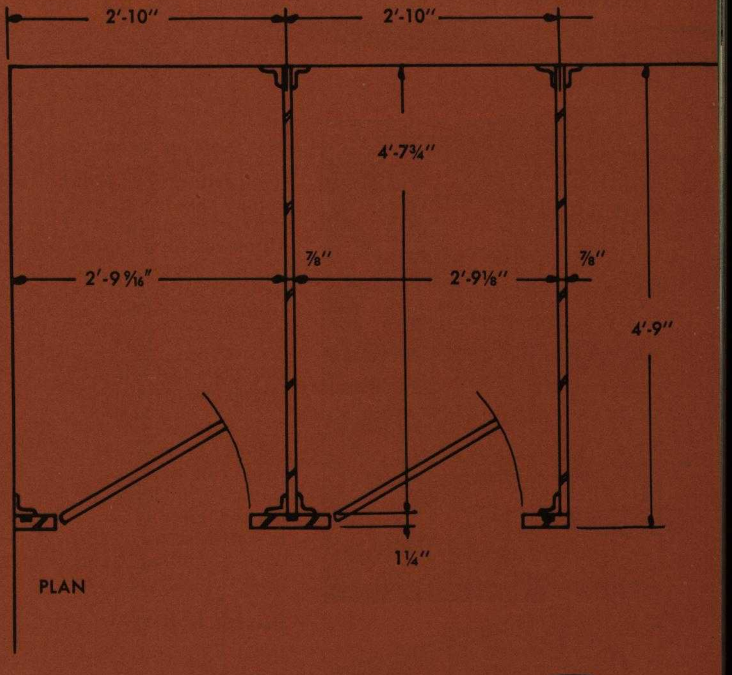
Toilet compartments shall be Spacepack ceiling-hung marble units as manufactured by the Carthage Marble Corporation, Carthage, Missouri. Toilet walls furnished by others must be perpendicular to the ceiling surface. Structural members in ceiling will be furnished by others.

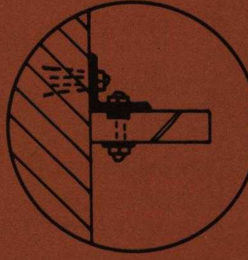
marble

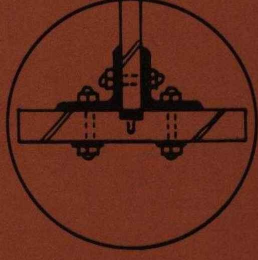
Stiles and partitions shall be of Ozark Grey Veined marble, polished and drilled for installation. Each stile shall be reinforced with an aluminum strip, ¾″x¼″ in cross section, and running the full length of the stile. The aluminum strip shall be recessed in the back of each stile and shall be permanently attached to the marble.

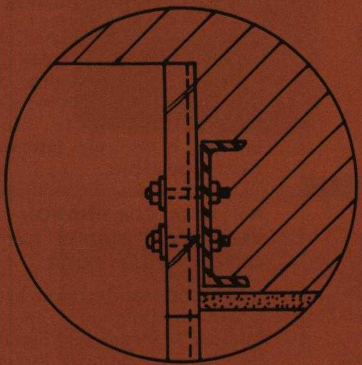
FOR CALCULATING METAL CHANNEL SIZE, WEIGHT OF TYPICAL CENTER STILE, PARTITION, DOOR AND HARDWARE IS 430 POUNDS.

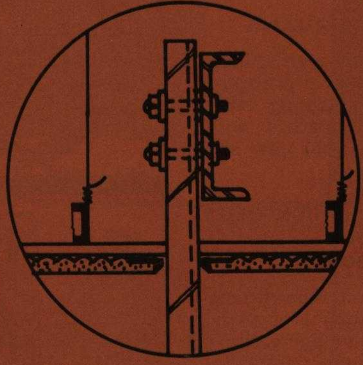


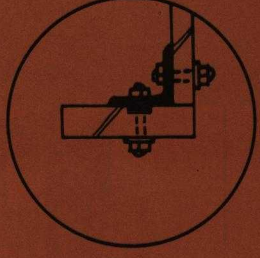












STILE DETAILS
No Scale

metal doors

Doors shall be flush construction of 22-gauge cold rolled steel, 1" thick, with fibre board cores cemented under pressure to the inner metal surfaces. Face plates of doors shall be bonded with interlocking trim moulding, mitered and welded at corners. Doors shall be galvanized, bonderized and coated with a rust-resistant synthetic primer followed by synthetic enamel baked at high temperatures.

wood doors (optional)

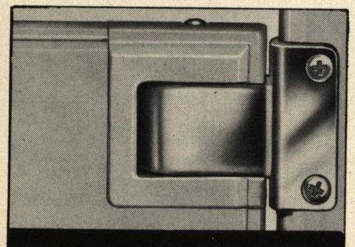
Birch Veneer Doors shall be chipboard solid core flush doors, 1" thick, as manufactured by the U. S. Plywood Corp. The extruded core shall be made from wood chips and resins. Edge strips shall be of ¾" hardwood bonded on the two long edges, top and bottom. Cross bands shall be any suitable hardwood not less than 1/12" and the birch face veneers shall be standard rotary cut, 1/24" thick. All face veneers shall be tapeless spliced and stroke sanded. Plies shall be bonded with resin by hot plate presses to meet tests for Type 1 (fully waterproof under CS 35-56 for hardwood plywood). Finish shall consist of one coat sanding sealer, two coats of high solid clear lacquer and one coat of clear satin lacquer.

hardware

Compartments shall be fitted with combination keeper and bumper, gravity hinge, slide bar latch, coat hook with rubber tipped bumper, clip angles with cap nuts and brass rods, and paper holder. All hardware shall be of non-ferrous metal, chromium plated.

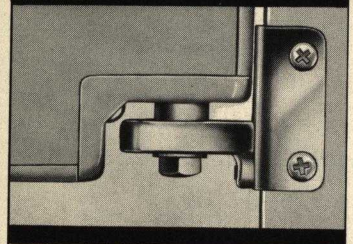
HARDWARE all non-ferrous metal chrome-plated

Hardware with the M designation is furnished with the metal door only. Hardware with the W designation is furnished with the wood door only. Hardware without letter designation is standard regardless of door type.



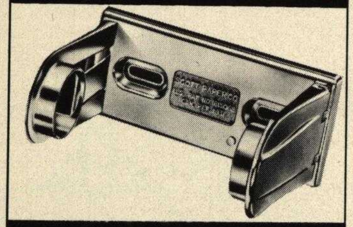
No. 206M UPPER HINGE

Non-ferrous, chrome-plated hinge has nylon and stainless steel moving parts. Die cast chromed cover provides flush surface over hinge, keeps out dirt, is sanitary. Tested over 2 million cycles with no measurable wear.



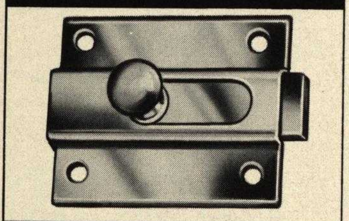
No. 205M CONCEALED LOWER HINGE

Non-ferrous chrome plated concealed hinge has opposing nylon cam action, stainless steel pintles. Suitable for in- and out-swinging doors. Adjustable to stand at any angle. Tested over 2 million cycles with no measurable wear.



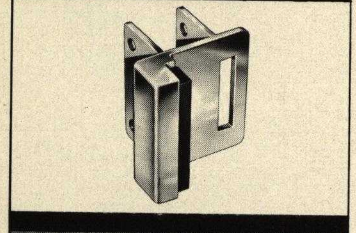
No. 964 ROLL TISSUE HOLDER

Rustproof, chrome-plated, die-cast holder is designed to dispense Tissue Service Roll. Hinged on one arm for quick, easy refilling. Tension device prevents spinning of the roll, assuring economical use of tissue.



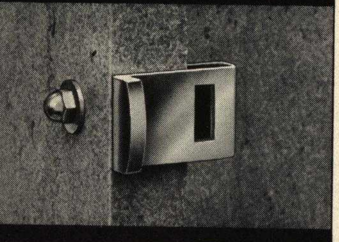
No. 305M SLIDE BAR LATCH

Rustproof, chrome-plated, brass slide bar-latch has a concealed spring plate eliminating rattle of latch bar. Attached with theft-resistant one-way slot screws.



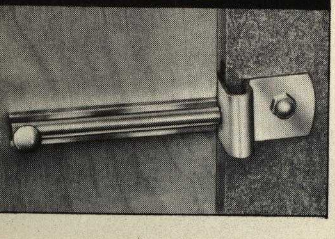
No. 306M COMBINATION KEEPER AND BUMPER FOR IN-SWINGING DOOR

Rustproof, non-ferrous, chrome-plated combination keeper and bumper for in-swinging doors has a rubber bumper insert for noiseless closing and is attached to marble mullion.



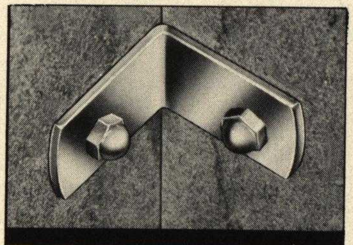
No. 308W STRIKE FOR IN-SWINGING DOOR

This rustproof, chrome-plated brass strike has vulcanized rubber bumper for noiseless closing and is easily attached to marble mullion.



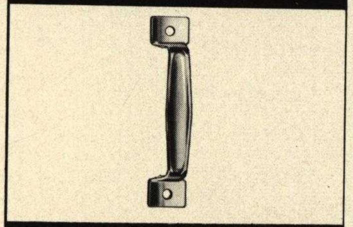
No. 307W LATCH FOR IN-SWINGING DOOR

This rustproof, chrome-plated brass latch consists of slide bolt and slide, is easily attached to the door. Simplicity of mechanism provides trouble-free operation.



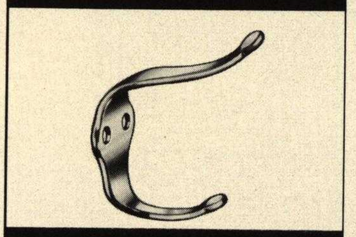
No. 503 CLIP ANGLE

Sturdy, rustproof, chrome-plated brass clip angle fits snugly against marble and provides a minimum of horizontal space to collect dirt. It is slotted to compensate for minute adjustments when out-of-line walls or floors are encountered, saves hours of setting time.



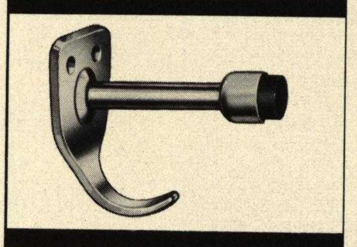
No. 406M DOOR PULL

Rustproof, chrome-plated brass door pull is used only with out-swinging doors and is attached with theft-resistant one-way slot screws.



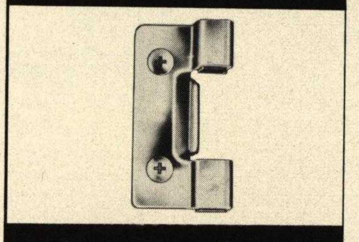
No. 604 TWO-PRONG COAT HOOK

Rustproof, chrome-plated, brass coat hook is used in combination with out-swinging doors. Attached with theft-resistant one-way slot screws.



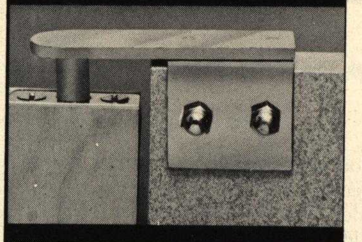
No. 603 COMBINATION COAT HOOK AND BUMPER

Rustproof, chrome-plated, brass combination coat hook and bumper for in-swinging doors is attached with theft-resistant one-way slot screws. Rubber bumper is securely fastened in its slot by a pin.



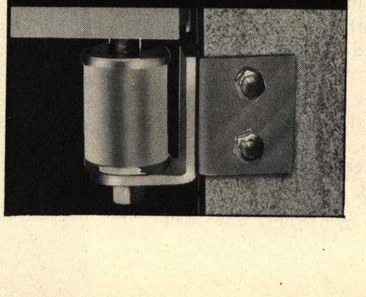
No. 309M COMBINATION KEEPER AND BUMPER FOR OUT-SWINGING DOOR

Rustproof, non-ferrous, chrome-plated combination keeper and bumper for out-swinging doors has a rubber bumper for noiseless closing and is attached to marble mullion.



No. 203W TOP-PLATE GRAVITY HINGE

This rustproof, chrome-plated brass hinge is of sturdy construction. It fits the top of the marble mullion and holds a pin in a metal slot on the top edge of the door.



No. 204W GRAVITY HINGE

This rustproof, chrome-plated brass gravity hinge works on a cam and can be adjusted to hold door open or shut by turning nut on bottom.

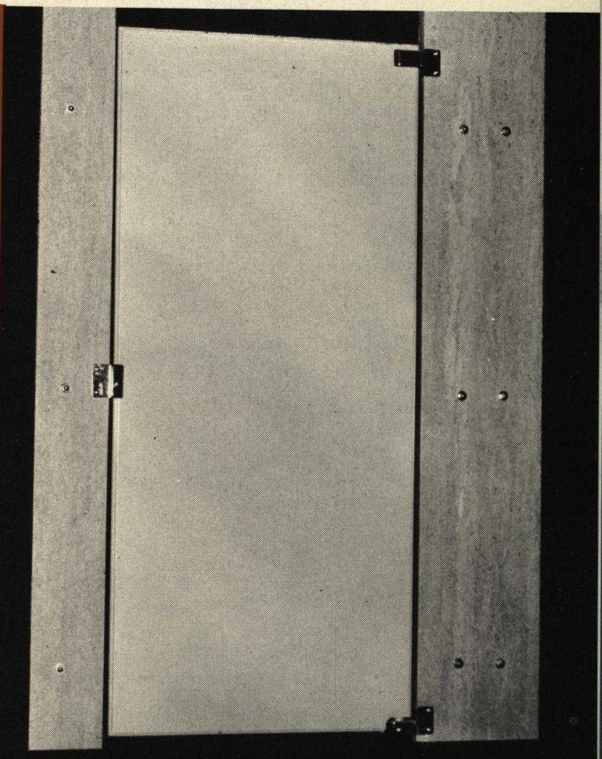
doors

METAL DOORS

Metal doors are now standard with Stallpack and Spacepack marble toilet enclosures. They will be available in two colors, turquoise or terra cotta. Metal doors are available only in the standard Stallpack size (2′-0″x4′-6″). Any departure from this size may utilize the Stallpack birch veneered solid-core wood door.

WOOD DOORS OPTIONAL

Wood doors are optional and can be furnished when a completely non-corrosive compartment is desired. This door is of solid core construction with birch veneer. See hardware Nos. 307W, 308W, 203W, and 204W for hardware used with this door. See sample specifications for a more complete description of the wood door.

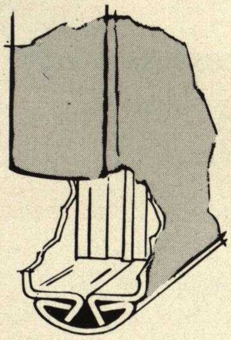


Because of the many variable and uncontrollable factors that affect the baking or firing process, and because responsible manufacturers of baking enamel and porcelain frit retain the privilege of a reasonable color variation, we are consequently unable to guarantee the exact matching of colors.

metal door colors

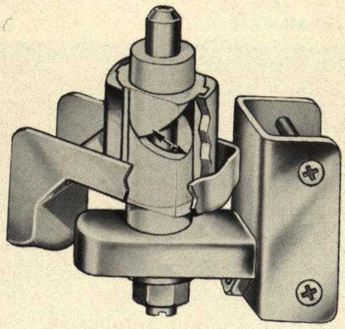
🟩 **42 Turquoise**

🟫 **13 Terra Cotta**



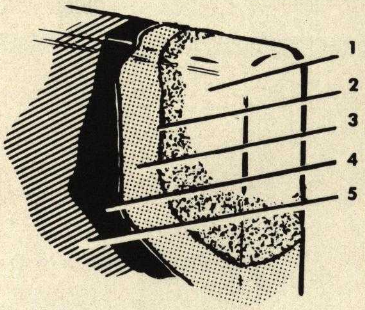
METAL DOOR CONSTRUCTION

Flush doors are made of two steel sheets spaced and insulated with laminated, corrugated fibre filler cemented to inner surfaces under pressure. Furthermore, each door is welded into a rigid one-piece unit, then bound with interlocking moulding welded at corners—in effect, double locked. Each edge is reinforced by three thicknesses of metal.



METAL DOOR HINGE

Rustproof, non-ferrous, chrome-plated concealed hinge for all metal doors. Opposing nylon cam action, stainess steel pintles. Suitable for in-swinging and out-swinging doors. Adjustable to stand at any desired angle. Tested over 2 million cycles with no measurable wear. Easy action —no slamming of door.



METAL DOOR FINISH

Baked enamel on bonderized galvanized steel.

1. Cold rolled steel.
2. Exceptionally smooth galvanized coating affords resistance to corrosion.
3. Bonderized for additional resistance and positive adhesion of enamel to metal.
4. Synthetic primer.
5. Enamel for highly protective surface coating and lustrous beauty.

information

See our general marble catalog in Sweet's Architectural File 13f/Ca with color plates of 16 low-cost domestic marbles, photographs of many domestic and foreign marble installations, and a complete descripion of our company and our reliable custom marble fabrication.

branch offices

KANSAS CITY, MO.
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VAlentine 1-4928

LITTLE ROCK, ARK.
Batesville Marble Co.
1301 East Third St.
FRanklin 5-4960

sales representatives

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LONG ISLAND CITY, N.Y.
Mr. Robert Furlong
34-36 Vernon Blvd.
RAvenswood 6-6511

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job

☐ Send a sample of Ozark Grey Veined Marble as used in Stallpack and Spacepack compartments.

☐ Send the name of the nearest Stallpack and Spacepack Dealer

☐ Send price information.

☐ Stallpack (floor mounted). ☐ Spacepack (ceiling hung).

☐ Send Stallpack Installation Brochure "Save Hours, Make Money."

☐ Have sales representative call.

name ______________________

firm ______________________

address ______________________ *city* ______________________ *state* ______________________

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TOILET COMPARTMENTS DRESSING ENCLOSURES HOSPITAL CUBICLES
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CUTLER

A.I.A FILE NO. 35-H-6

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NOTES

- *It is the policy of Cutler Metal to constantly endeavor to improve the design and engineering of its Toilet Partitions. The company therefore reserves the right to institute improvements without notice.*

- *This catalog contains all information an architect would require for specifying quality metal compartments. For additional information, write Building Products Division, Cutler Metal Products Co., Camden 3, New Jersey.*

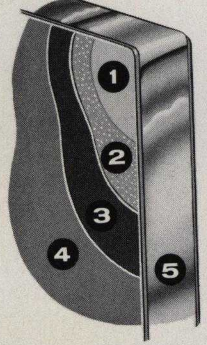
YOU GET THE FINEST WHEN YOU SPECIFY CUTLER TOILET COMPARTMENTS IN VITREOUS PORCELAIN ENAMEL OR BAKED ENAMEL

CUTLER QUALITY

As every architect knows, a product is only as good as the company behind it. Cutler Metal Products Company was founded and has been built upon the ideal of integrity in product design, workmanship, service. Over 40 years of engineering know-how goes into the planning, designing, and construction of Cutler Toilet Compartments. Result: Cutler Toilet Compartments are considered to be among the best made and most competitively priced units on the market today—and they're adaptable to all types of architectural and interior design. Two finishes are available—Vitreous Porcelain Enamel and Baked Enamel.

CUTLER VITREOUS PORCELAIN ENAMEL ON STEEL SPECIFICATION

Toilet Compartments Cambridge, Fordham, Overbrook (specify one), Shower, Dressing Enclosures and Hospital Cubicles shall be Cutler vitreous porcelain on steel complying with Porcelain Enamel Institute standards for acid-resisting architectural porcelain enamel as manufactured by Cutler Metal Products Co. Cutler porcelain enamel is available in the colors shown on page 3.



1 **Heavy gauge enameling iron.**

2 **Etched surface.**

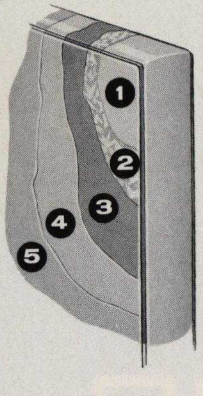
3 **Ground coat of porcelain.**

4 **Finish color coat of porcelain.**

5 **Stainless steel locking moulding.**

CUTLER BAKED ENAMEL FINISH
5-WAY PROTECTION Means Better Service — Longer Wear

Because metal compartments are subject to frequent washing and cleaning as well as to various acid and alkali conditions, they require better than average protection. All Cutler Compartments are 5-way protected against corrosion — guaranteeing extra service and longer wear.



1 **Heavy gauge stretcher-leveled furniture steel for strength and durability.**

2 **A Galvanized coat to prevent corrosion.**

3 **A Bonderized coat to insure adhesion of surface coatings to metal—extra corrosion protection.**

4 **A Primer coat to prepare the surface and provide the ideal base for the final finish.**

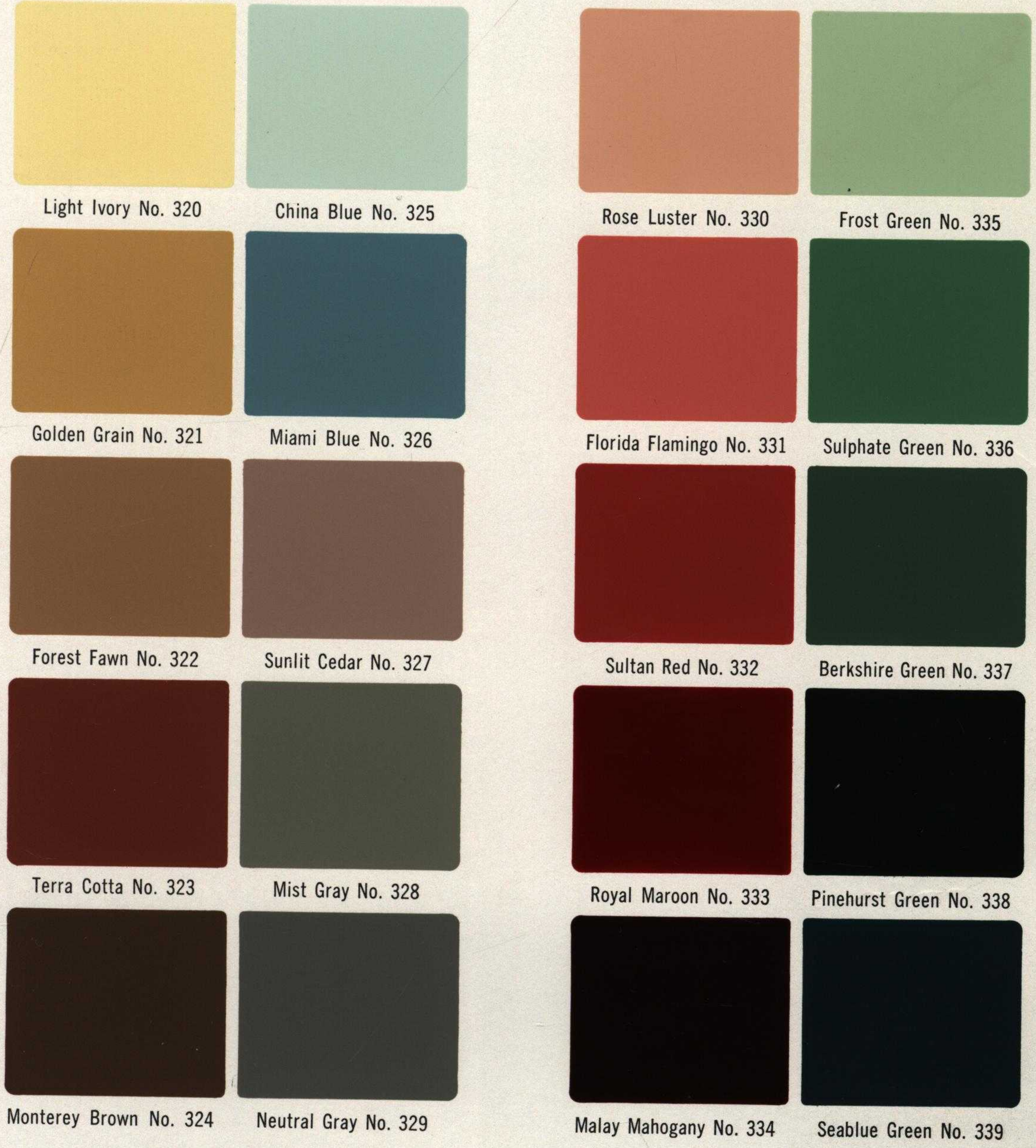
5 **Special double-coat acid and alkali-resistant vinyl alkyd enamel finish baked on at high temperature provides a protective surface of lustrous lasting beauty.**

This five-way protection increases the service and life-expectancy of Cutler Toilet Compartments at least three times.

OUTSTANDING CONSTRUCTION FEATURES

All Cutler Metal Compartments are precision-engineered for streamlined beauty, structural strength, and rapid easy assembly and installation. All edges are interlocked under tension with drawn metal molding. Result: easy cleaning, tamper-proof, and no exposed openings to inflict injury, catch dust, or hold dirt.

CUTLER COMPARTMENT COLORS



Light Ivory No. 320	China Blue No. 325	Rose Luster No. 330	Frost Green No. 335
Golden Grain No. 321	Miami Blue No. 326	Florida Flamingo No. 331	Sulphate Green No. 336
Forest Fawn No. 322	Sunlit Cedar No. 327	Sultan Red No. 332	Berkshire Green No. 337
Terra Cotta No. 323	Mist Gray No. 328	Royal Maroon No. 333	Pinehurst Green No. 338
Monterey Brown No. 324	Neutral Gray No. 329	Malay Mahogany No. 334	Seablue Green No. 339

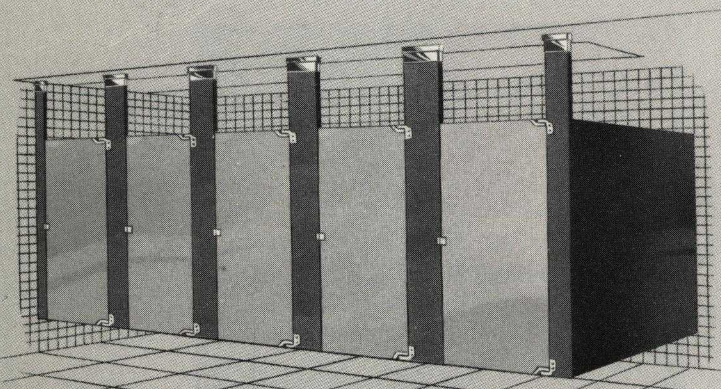
Standard Black No. 340, and Standard White No. 341 not shown

Acid and Alkali Resistant — Cutler Metal Compartments are available in a wide range of high gloss acid and alkali-resisting durable baked vinyl enamel finishes. They are not affected by cleaning fluids, soaps, acids, and salt spray and are completely resistant to *uric acid* and all standard commercial cleaning solvents.

Color Combinations — Any two color combinations desired are optional and may be selected at no extra charge. Combinations of three or more colors can be furnished at a slight additional charge.

Minimum Color Variation — Because of the nature of the baked enamel process, slight variations in color are sometimes unavoidable. Cutler Metal Products Company holds color variation to a minimum through the use of special color control techniques in production.

"CAMBRIDGE" CEILING-HUNG COMPARTMENTS



Cutler Ceiling-Hung partitions combine modern functional styling, the latest in engineering design for rigidity and ease of assembly, and the finest metal finishes for unsurpassed durability.

Modern functional styling — Cutler partitions are designed to keep pace with the modern trend in architecture. Complete simplicity, flush surfaces of doors and partitions, absence of fancy trim and mouldings reflect the refinement of modern thinking and modern design. Ceiling mounting brackets are completely hidden by a stainless steel shoe. Cut-out type gravity door hinges do not protrude above or below the doors.

Rigidity and ease of assembly — Heavy gauge bonderized-galvanized steel panels securely bonded to the honeycomb core and locked together along the edges provide partitions and doors of extreme rigidity. Equally rigid pilasters are mounted on building carrying members with anchor bolts. Heavy duty wall brackets secure the end panels to the finished wall. End panels are locked to the pilasters by stirrup brackets. Partitions are quickly and simply installed as the ceiling anchor bolts are adjustable to allow for variations in building construction.

Durability — Cutler doors, partitions and pilasters are treated for corrosion resistance and coated with baked vinyl finish for unsurpassed durability. Metal molding at the edges of panels provide protection against chipping, the focal point for rusting of steel panels.

SPECIFICATIONS

General — Toilet compartments shall be CAMBRIDGE, Ceiling-Hung as manufactured by the Cutler Metal Products Co. Doors and partitions shall be of flush construction. Structural members for hanging Cutler pilasters are not furnished.

Materials — Partitions shall be constructed of two sheets of #20 gauge, doors of #22 gauge, pilasters of #16 gauge stretcher leveled, bonderized-galvanized steel with honeycomb core cemented uniformly to the metal. Cores shall be honeycomb fiber board approximately 1″ thick for door panels and partitions and 1¼″ for stiles. Drawn metal molding shall be welded at the corners. Pilasters shall be constructed of two sheets of #16 gauge stretcher leveled bonderized-galvanized steel cemented to a honeycomb core and interlocked under tension to the entire length of the edges. Pilaster shoe fittings shall be stainless steel 3″ high.

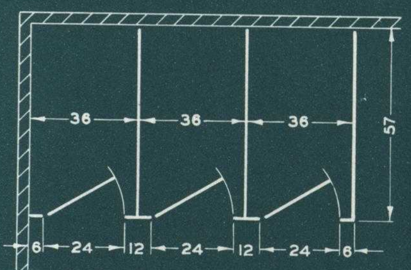
Workmanship — Doors, partitions and pilasters shall be of flush construction with honeycomb core cemented under pressure to inner metal surfaces. Edges shall be interlocked under tension with drawn metal molding. Dividing partitions shall be anchored to pilaster with stirrup brackets.

Hardware and Fittings — All doors shall be equipped with a gravity hinge with concealed ball bearing roller, hinge brackets, keeper and bumper, and sliding door bolt. Hardware shall be non-ferrous chrome plated or stainless steel. All brackets shall be non-ferrous chrome plated.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

NOTE: *Toilet compartment units made of standard stretcher steel, without the extra corrosion protection of galvanizing and bonderizing are available at lower cost if desired.*

CEILING-HUNG CAMBRIDGE


36
36
36
57
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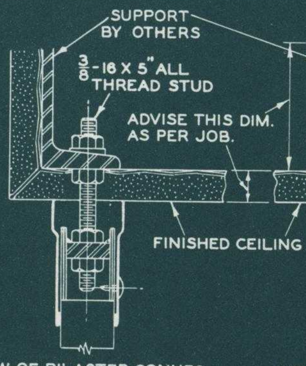
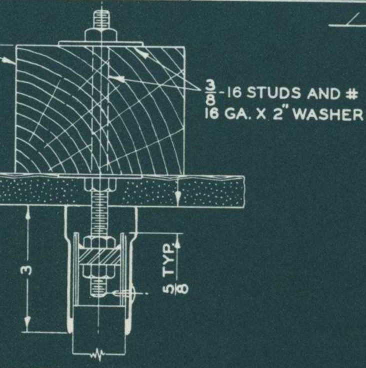
24
12
24
12
24
6

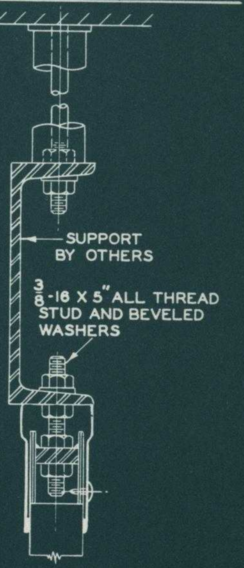
TYPICAL INSTALLATION


SUPPORT BY OTHERS
3/8-16 X 5" ALL THREAD STUD
ADVISE THIS DIM. AS PER JOB.
FINISHED CEILING

VIEW OF PILASTER CONNECTION TO CONCEALED STEEL CARRYING MEMBER


3/8-16 STUDS AND # 16 GA. X 2" WASHER
3
5/8 TYP.

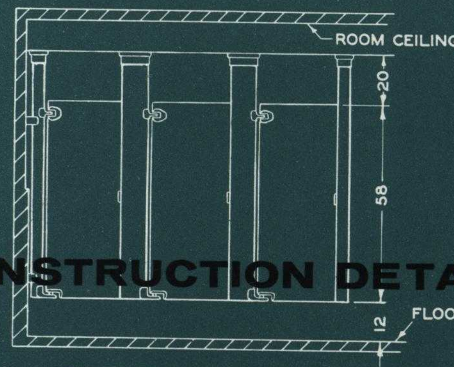
VIEW OF PILASTER CONNECTION TO CONCEALED WOOD CARRYING MEMBER


SUPPORT BY OTHERS
3/8-16 X 5" ALL THREAD STUD AND BEVELED WASHERS

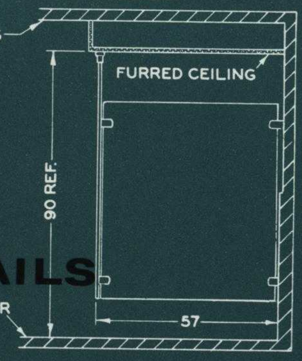
VIEW OF PILASTER CONNECTION TO EXPOSED STEEL CARRYING MEMBER HUNG FROM SUSPENSION RODS

FOR ARCHITECT'S DESIGN INFORMATION: THE AVERAGE WEIGHT OF UNITS PER SQ. FT. = 5 LBS.

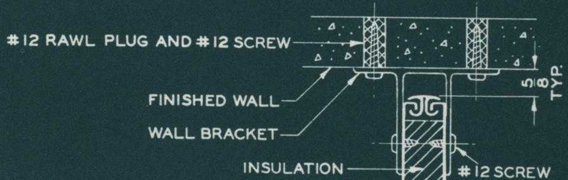
CONSTRUCTION DETAILS

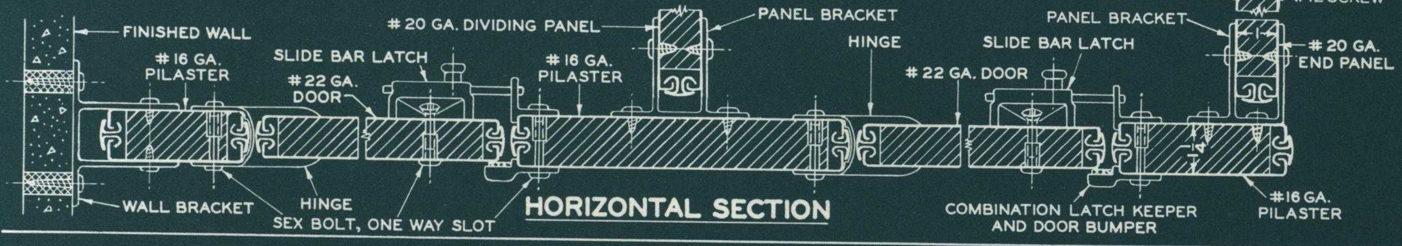

ROOM CEILING
20
58
12
FLOOR

FRONT ELEVATION


FURRED CEILING
90 REF.
57

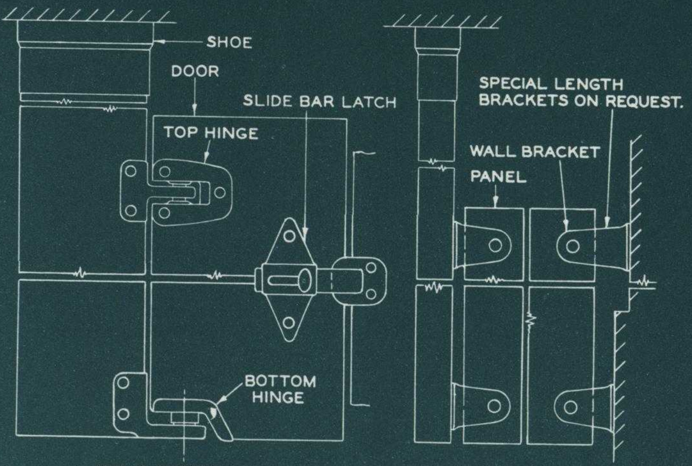
SIDE ELEVATION


#12 RAWL PLUG AND #12 SCREW
5/8 TYP.
FINISHED WALL
WALL BRACKET
INSULATION
#12 SCREW

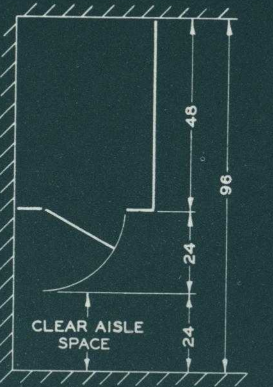

FINISHED WALL
#16 GA. PILASTER
SLIDE BAR LATCH
#22 GA. DOOR
#20 GA. DIVIDING PANEL
#16 GA. PILASTER
PANEL BRACKET
HINGE
#22 GA. DOOR
SLIDE BAR LATCH
PANEL BRACKET
#20 GA. END PANEL
1/4
WALL BRACKET
HINGE
SEX BOLT, ONE WAY SLOT
COMBINATION LATCH KEEPER AND DOOR BUMPER
#16 GA. PILASTER

HORIZONTAL SECTION

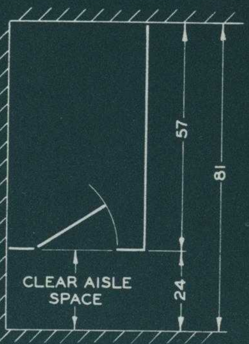
GENERAL INFORMATION


SHOE
DOOR
SLIDE BAR LATCH
TOP HINGE
BOTTOM HINGE
SPECIAL LENGTH BRACKETS ON REQUEST.
WALL BRACKET
PANEL

VIEWS SHOWING HARDWARE AND FASTENINGS

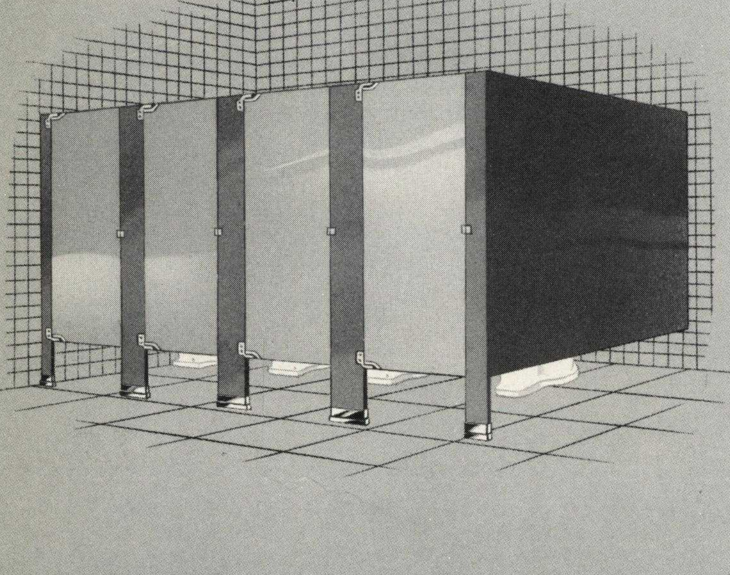

48
96
24
24
CLEAR AISLE SPACE

OUTSWINGING DOORS NOT RECOMMENDED.
MORE SPACE REQD. AND BODILY INJURY POSSIBLE.


57
81
24
CLEAR AISLE SPACE

INSWINGING DOORS REQUIRE LESS OVERALL SPACE AND ARE SUBJECT TO LESS PUNISHMENT FROM CHILDREN RIDING THEM IN COMPARISON WITH OUTSWINGING DOORS.

"FORDHAM" FLOOR-SUPPORTED COMPARTMENTS IN STANDARD AND JUNIOR SIZES



Cutler Floor-Supported partitions exhibit the same functional lines as the ceiling-hung partitions. Cutler partitions are readily adapted to any type of building design or construction.

Color Selection — Cutler partitions, available in high gloss vinyl alkyd baked enamels in black and white and 20 additional colors ranging from the light ivories to dark greens, reds and blues, provide a selection that will harmonize with the existing tiled or painted walls and floors of modern buildings.

Sanitary — Panels and pilasters are supported clear of the walls, simplifying cleansing. No dirt-catching corners or crevices to retain cleaning solutions. Vinyl alkyd baked enamel finish is highly resistant to acids and alkali cleaners, retaining its natural luster for the life of the partitions.

Junior size compartments — The versatility of Cutler partitions is exhibited in the smaller compartments for children. The Tiny Tim compartment has standard height pilasters and panels with special height doors as required to permit proper supervision of occupants. The Tom Thumb compartments are designed for non-standard lavatories and washrooms, accessories with heights adjusted to complement same.

SPECIFICATIONS

General — Toilet compartments shall be FORDHAM, Floor-Braced as manufactured by the Cutler Metal Products Co. Doors and partitions shall be of flush construction. There shall be no headrail. Solid sub-floor shall be furnished by others for anchoring Cutler pilasters.

Materials — Partitions shall be constructed of two sheets of #20 gauge stretcher leveled bonderized-galvanized steel with honeycomb core cemented uniformly to metal. Cores shall be honeycomb fiber board approximately 1" thick for door panels and partitions and 1¼" for stiles. Drawn metal molding shall be welded and ground smooth at the corners. Pilasters shall be constructed of two sheets of #16 gauge stretcher leveled bonderized-galvanized steel cemented to a honeycomb core and interlocked under tension to the entire length of the edges. Pilaster shoe fittings shall be stainless steel, 3" high.

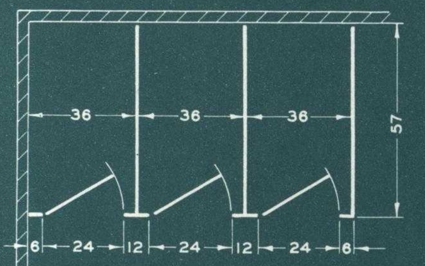
Workmanship — Doors, partitions and pilasters shall be of flush construction with honeycomb core cemented under pressure to inner metal surfaces. Edges shall be interlocked under tension with drawn metal molding. Dividing partitions shall be anchored to pilaster with stirrup brackets.

Hardware and Fittings — All doors shall be equipped with a gravity hinge with concealed ball bearing roller, hinge brackets, keeper and bumper, coat hook and bumper and sliding door bolt. Hardware shall be non-ferrous chrome plated or stainless steel. All brackets shall be non-ferrous chrome plated.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

NOTE: *Toilet compartment units made of standard stretcher steel, without the extra corrosion protection of galvanizing and bonderizing are available at lower cost if desired.*

FLOOR-SUPPORTED FORDHAM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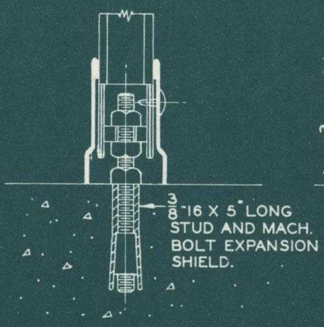
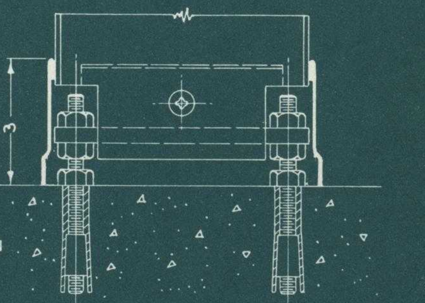
6

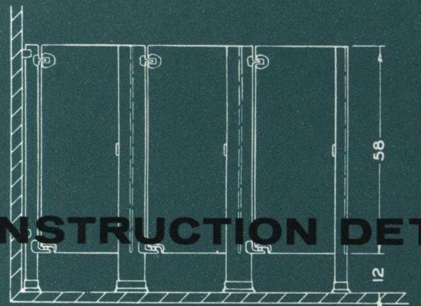
TYPICAL INSTALLATION


3/8"-16 X 5" LONG STUD AND MACH. BOLT EXPANSION SHIELD.

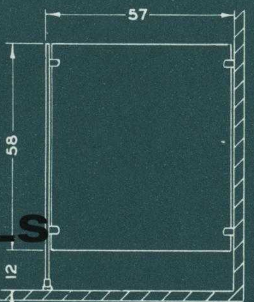


VIEW OF PILASTER CONNECTION TO CONCRETE FLOOR

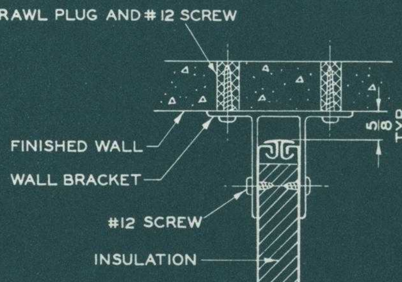
CONSTRUCTION DETAILS

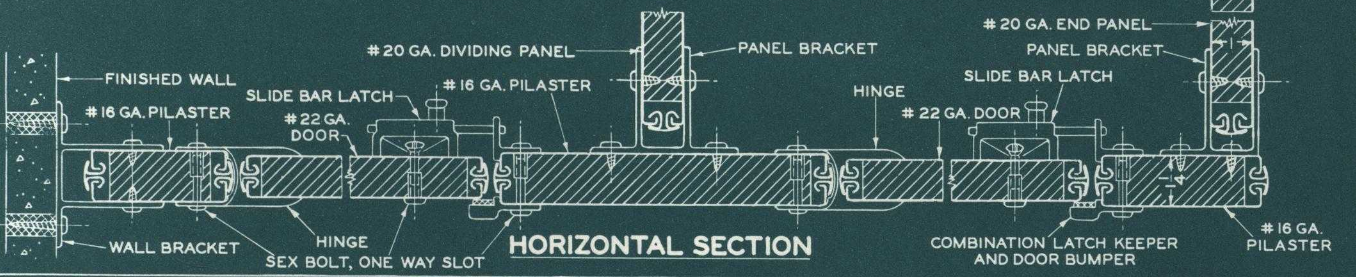


FRONT ELEVATION



SIDE ELEVATION

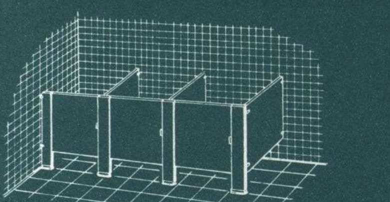



#12 RAWL PLUG AND #12 SCREW
5/8 TYP.
FINISHED WALL
WALL BRACKET
#12 SCREW
INSULATION
#20 GA. END PANEL
PANEL BRACKET
SLIDE BAR LATCH
#22 GA. DOOR
HINGE
#20 GA. DIVIDING PANEL
PANEL BRACKET
#16 GA. PILASTER
FINISHED WALL
#16 GA. PILASTER
SLIDE BAR LATCH
#22 GA. DOOR
WALL BRACKET
HINGE
SEX BOLT, ONE WAY SLOT
COMBINATION LATCH KEEPER AND DOOR BUMPER
#16 GA. PILASTER

HORIZONTAL SECTION

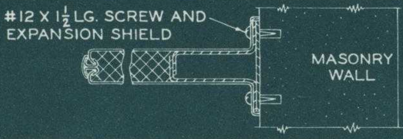
CHILDREN'S COMPARTMENTS

WALL SUPPORTED URINAL SCREEN

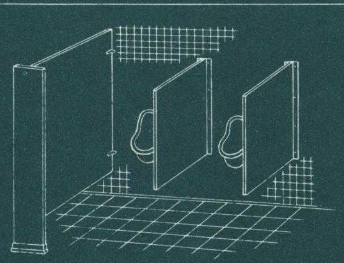


TOM THUMB COMPARTMENTS

SPECIAL SIZE COMPARTMENTS TO SUIT NON-STANDARD LAVATORIES AND WASHROOM ACCESSORIES WITH HEIGHTS ADJUSTED TO COMPLEMENT SAME.


#12 X 1½ LG. SCREW AND EXPANSION SHIELD
MASONRY WALL

SECTION SHOWING FASTENING METHOD



URINAL SCREEN
WALL HUNG TYPE
STANDARD SIZES: 18 X 42 OR 24 X 42

SPECIFICATION: Cutler Wall Hung Urinal Screens shall be of flush construction 1¼" thick. Screen shall be constructed of two sheets of #20 gauge stretcher level bonderized-galvanized steel, with honeycomb core cemented uniformly to the metal. Finish shall be Vitreous Porcelain Enamel or Baked Enamel (specify one).

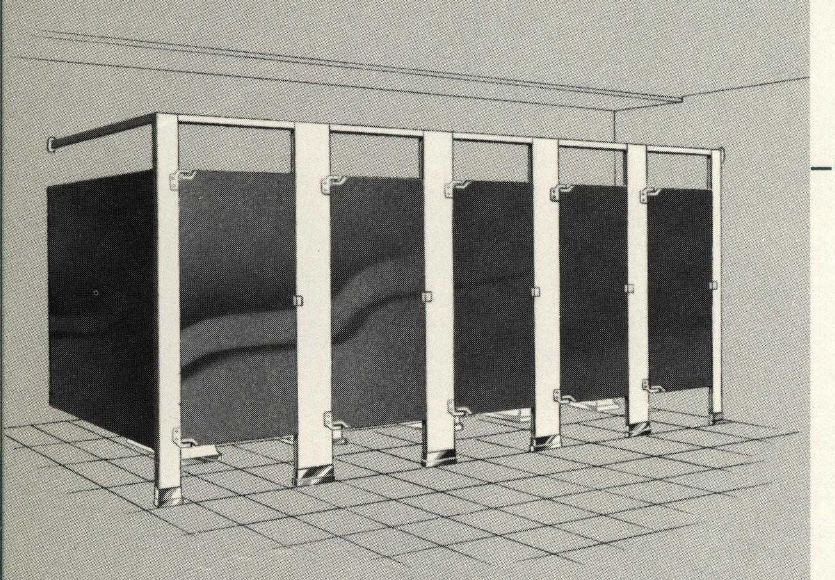
Screen panels shall be held together by drawn metal moulding, which shall be welded and ground smooth at the corners. The mounting flange of the unit shall be made of #12 gauge steel, which shall be an integral part of the panel. The mounting flange shall be reinforced with another piece of #12 gauge, all welded together for attachment of the screen to the wall.

NOTE: The screen is of a very rigid construction and must be mounted on a solid wall for best service. The method of installing to a masonry wall is shown on the illustration to the left. Other installations in stud and plaster walls, metal lath and plaster walls, hollow walls, or other similar construction, may require reinforcing members of either wood or steel. Consult home office for recommendations.

"OVERBROOK"
OVERHEAD-BRACED COMPARTMENTS

Overhead-Braced partitions round out the versatile line of Cutler compartments. Made up of the same rigid doors and partitions, overhead-braced Cutler compartments are adapted to a wide range of widths and depths. Economy is emphasized, with the same quality and workmanship as in other Cutler compartments.

- Pilasters constructed of #20 gauge steel with insulating core. Rigid flush door made of #22 gauge metal.
- All partitions corrosion treated and coated with vinyl alkyd enamel baked on.
- Pilasters accurately anchored to concrete floors.
- Compartment sizes:
  Width from center to center: 30", 32", 34" & 36"
  Depth: 57"
  Partition and door height: 58"
- Pilaster widths: 4", 5", 6", 8", 10" & 12"
- Door widths: 22", 24", 26", 28" & 30"
- Simple construction method permits easy and rapid assembly of pilaster to headrail.
- Recommended sizes are in accordance with the modular method of dimensioning, thereby simplifying the architect's designing and the field installation.



NOTE: *"Overbrook" compartments are available in two types, Flush type as shown above, and Panel type, not illustrated.* **PANEL TYPE** *is the same as* **FLUSH TYPE,** *except that dividing partition between compartments is single wall, #16 gauge, with formed reinforcing edges on all sides.*

SPECIFICATIONS

General — Toilet compartments shall be OVERBROOK, Overhead-Braced as manufactured by the Cutler Metal Products Co. Doors and partitions shall be flush construction, and stiles shall extend from floor to headrail.

Materials — Partitions and edge moldings shall be #20 gauge, doors #22 gauge, pilasters #20 gauge. All sheet stock shall be bonderized-galvanized stretcher leveled furniture steel. Cores shall be honeycomb fiber board approximately 1" thick for door panels and partitions and 1¼" for stiles. Stile shoe fittings shall be stainless steel 3" high. Headrail shall be 1" x 1½" tubing and shall thread through top of pilasters.

Workmanship — Doors, partitions and pilasters shall be flush construction with honeycomb core cemented under pressure to inner metal surfaces. Edges shall be interlocked under tension with drawn metal molding. Dividing partitions shall be anchored to stiles with stirrup brackets.

Hardware and Fittings — All doors shall be equipped with a gravity hinge with concealed ball bearing roller, hinge brackets, keeper and bumper, coat hook and bumper, and sliding door bolt. Hardware shall be non-ferrous chrome plated or stainless steel. All brackets shall be non-ferrous chrome plated.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

NOTE: *Toilet compartment units made of standard stretcher steel without the extra corrosion protection of galvanizing and bonderizing are available at lower cost if desired.*

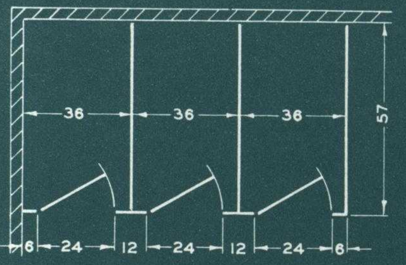
CUTLER METAL PRODUCTS COMPANY

OVERHEAD-BRACED

OVERBROOK

(FLUSH TYPE)

CONSTRUCTION DETAILS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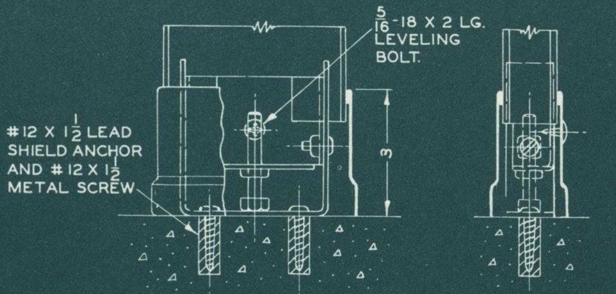
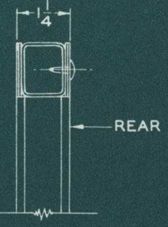
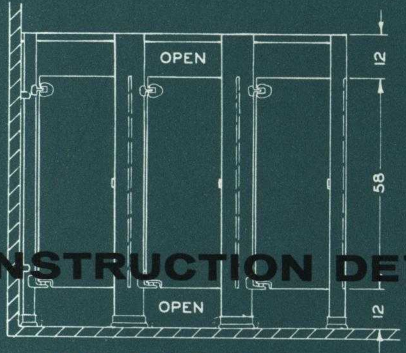
TYPICAL INSTALLATION


5/16-18 X 2 LG. LEVELING BOLT.
#12 X 1 1/2 LEAD SHIELD ANCHOR AND #12 X 1 1/2 METAL SCREW
3

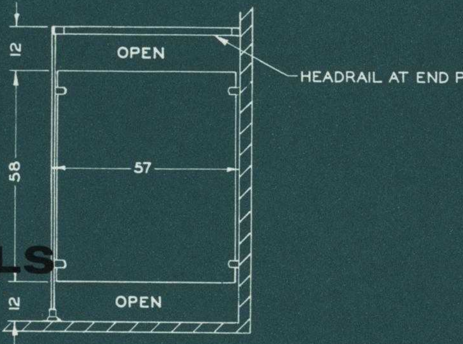
VIEW OF PILASTER CONNECTION TO CONCRETE FLOOR



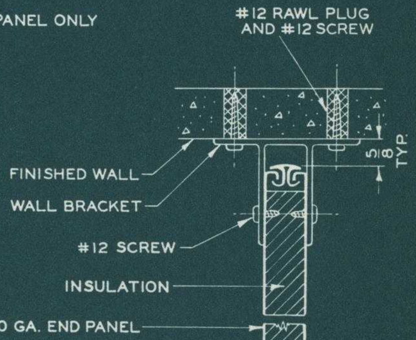
VIEW OF PILASTER CONNECTION TO HEADRAIL

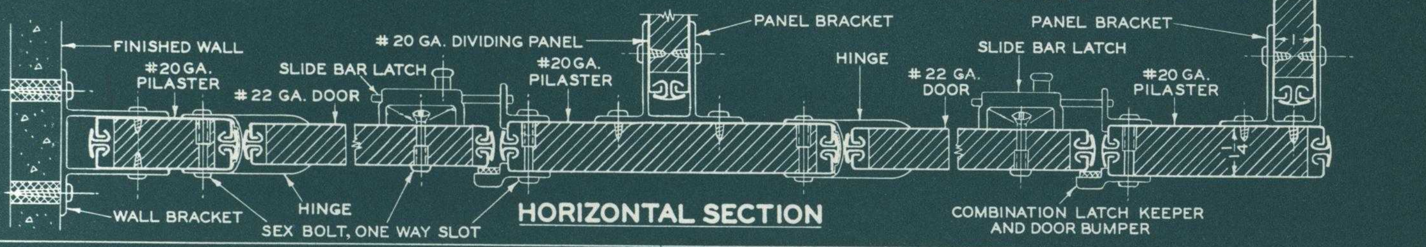

OPEN
12
58
OPEN
12

FRONT ELEVATION


12
OPEN
HEADRAIL AT END PANEL ONLY
58
57
12
OPEN

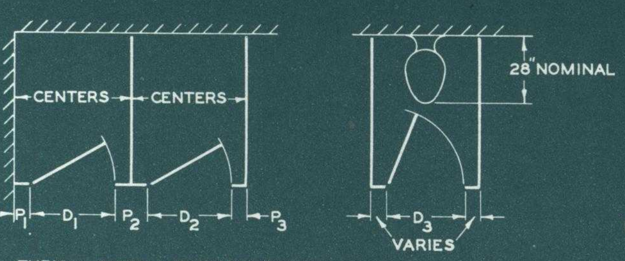
SIDE ELEVATION


#12 RAWL PLUG AND #12 SCREW
5/8 TYP.
FINISHED WALL
WALL BRACKET
#12 SCREW
INSULATION
#20 GA. END PANEL

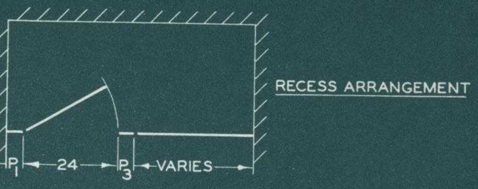

FINISHED WALL
#20 GA. PILASTER
#22 GA. DOOR
SLIDE BAR LATCH
#20 GA. DIVIDING PANEL
#20 GA. PILASTER
PANEL BRACKET
HINGE
#22 GA. DOOR
SLIDE BAR LATCH
PANEL BRACKET
#20 GA. PILASTER
1/4
WALL BRACKET
HINGE
SEX BOLT, ONE WAY SLOT
COMBINATION LATCH KEEPER AND DOOR BUMPER

HORIZONTAL SECTION

RECOMMENDED SIZES


CENTERS
CENTERS
P1
D1
P2
D2
P3
28" NOMINAL
D3
VARIES

TYPICAL INSTALLATION SHOWING RECOMMENDED SIZES


P1
24
P3
VARIES

RECESS ARRANGEMENT

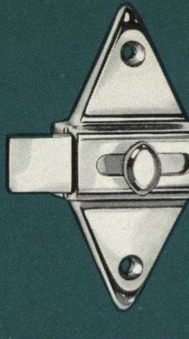
CENTERS	P_1	D_1	P_2	D_2	P_3	D_3
30	5	22	6	22	5	22
32	5	24	6	24	5	24
34	5	24	10	24	5	24
36	6	24	12	24	6	24

COMPARTMENT SIZES:
WIDTH FROM CENTER TO CENTER: 30, 32, 34 AND 36 INCHES.
DEPTH: 57 INCHES.
PARTITION AND DOOR HEIGHT: 58 INCHES.
SPACE UNDER PARTITIONS AND DOORS: 12 INCHES.
HEIGHT FROM FLOOR TO TOP OF PARTITIONS AND DOORS: 70 INCHES.
HEIGHT FROM TOP OF DOORS TO TOP OF HEADRAIL: 12 INCHES.

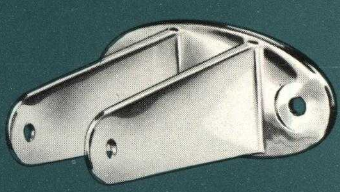
PILASTER WIDTHS:
4, 5, 6, 8, 10 AND 12 INCHES.
DOOR WIDTHS:
22, 24, 26, 28 AND 30 INCHES.

THE ABOVE RECOMMENDED SIZES ARE IN ACCORDANCE WITH THE MODULAR METHOD OF DIMENSIONING THEREBY SIMPLIFYING THE ARCHITECTS DESIGNING AND THE FIELD INSTALLATION.

Made predominantly of stainless steel and non-ferrous chrome plated castings with satin and highly polished finish, respectively, all Cutler Hardware is quality engineered to provide easy installation and long trouble-free service. And it's smartly styled in the most functional manner to provide smooth flowing lines to the most modern interior.

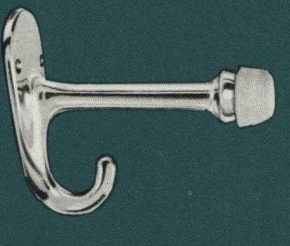


A3535 — Slide Latch

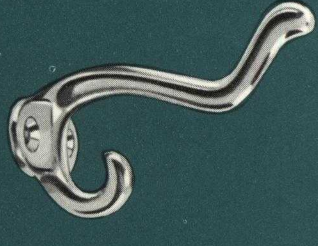


B-1741—Attaching Bracket

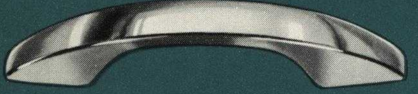
CUTLER HARDWARE



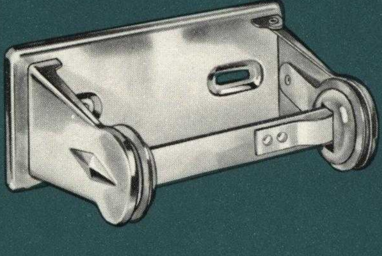
A3364 — Combination Coat Hook and Bumper



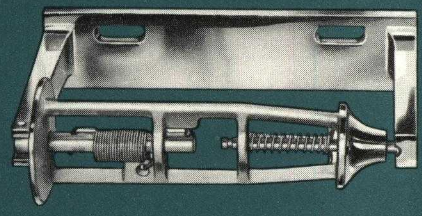
A3242 — Two-Prong Coat Hook



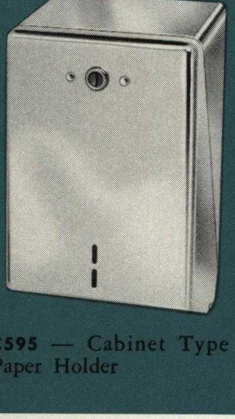
A3241 — Door Pull



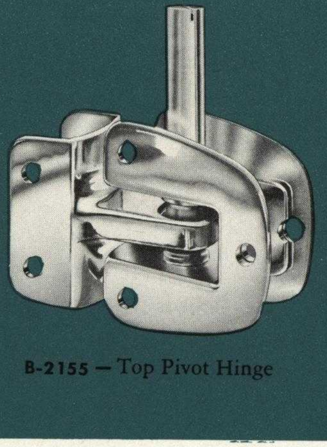
B1558 — Roll Type Paper Holder



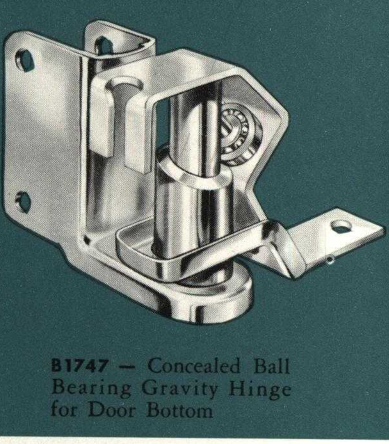
B1425 — Economy Roll Type Paper Holder



C595 — Cabinet Type Paper Holder



B-2155 — Top Pivot Hinge



B1747 — Concealed Ball Bearing Gravity Hinge for Door Bottom

CUTLER METAL PRODUCTS COMPANY

CUTLER DUB-L-WALL SHOWER CABINET

WITH GENUINE TERRAZZO BASE

DESIGNED FOR LIFETIME SERVICE IN SCHOOLS, HOSPITALS, HOTELS, INDUSTRIAL PLANTS AND INSTITUTIONS —

The Cutler Dub-L-Wall Shower Cabinet is designed for heavy-duty installations where hard, steady day-in and day-out, year-in and year-out trouble-free service is required. Special 1″ thick double-wall construction of heavy gauge bonderized-galvanized steel with honeycomb core on side panels makes Dub-L-Wall the most solid, sturdy, durable shower cabinet you can buy.

Specially primed double high temperature finish coat of acid and alkali-resistant vinyl alkyd enamel baked on affords complete protection against corrosion. Genuine terrazzo base, with finely ground and smoothly polished surface, provides waterproof, rustproof, wearproof floor. Because the Cutler Dub-L-Wall Shower Cabinet is safety engineered throughout, functionally styled, easy to assemble and install, easy to keep clean, leakproof, rustproof and built to last a lifetime, it is ideal for use in schools, hospitals, hotels, motels, camps, lodges, industrial plants and institutions.

The Cutler Dub-L-Wall Shower Cabinet can be installed singly or in batteries of any desired arrangement or number. Special matching filler plates join and convert a series of shower stalls into a uniform single unit. White standard, decorator colors optional. Models also available in stainless steel. Sizes 36″ x 36″ and 32″ x 32″.

Cutler Dressing Compartments, harmonizing in over-all design and finish with Cutler Shower Cabinets, add the comfort, privacy and convenience needed for modern shower bathing at its finest.

SPECIFICATIONS

General — All shower cabinets shall be DUB-L-WALL, flush type as manufactured by Cutler Metal Products Co., Camden, New Jersey.

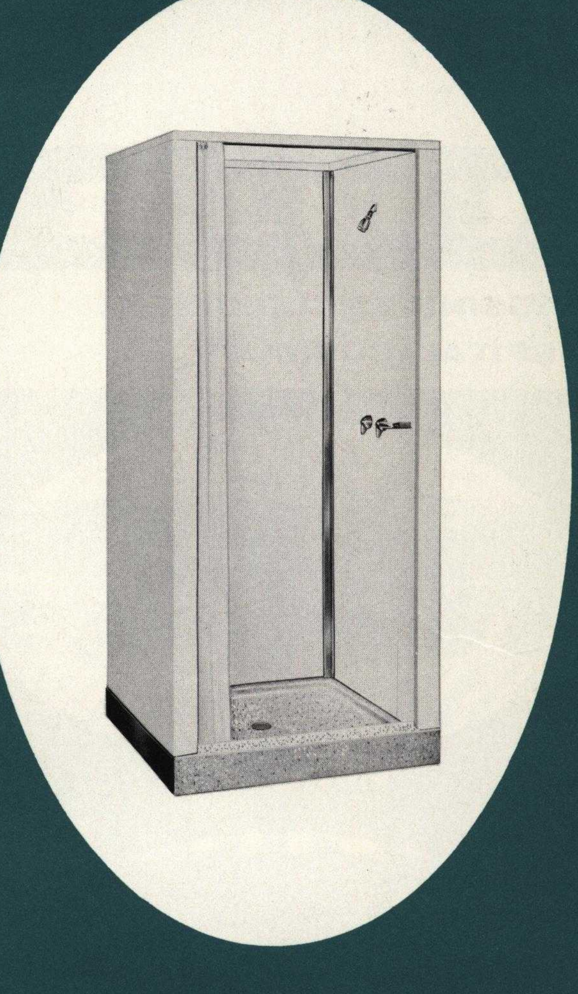
Materials And Workmanship — Walls shall be 1″ thick, made of two sheets of #20-gauge bonderized-galvanized stretcher level sheet steel. Side panels shall be a honeycomb core, cemented under pressure and bonded to the steel wall with a catalytic type adhesive. The two sides and bottom edges will be bound with interlocking moulding. The interlocking moulding shall be bonderized galvanized, all corners brazed and finished. The top frame shall be made of 1″ x 1½″ x 16-gauge tubular frame, welded into one-piece unit with all welding ground smooth. The curtain rod shall be fabricated of the same tubing and securely welded to the top frame.

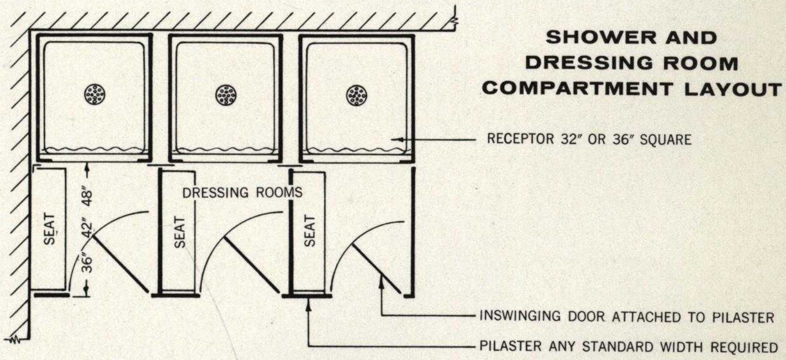
Receptors — Shower floor shall be Biltmore Genuine Terrazzo Receptor as manufactured by Cutler Metal Products Co., Camden, N. J. Size shall be 36″ x 36″ or 32″ x 32″, with a 5″ high and 3″ wide curb running across the front edge. Receptors shall be made of black and white marble chips in a white cement and reinforced with wire. The drain shall be brass and cast integrally with receptor. Drain shall be equipped with a brass chrome-plated removable strainer, and shall be suitable for a 2″ inside caulked wastepipe.

Hardware And Fittings — Cabinets shall be equipped with 8-ounce white duck curtains with chrome-plated roller type curtain hooks, valves, shower head, and soap dish, when specified.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

ARCHITECT'S NOTE: *If desired, above units can be supplied in stainless steel.*



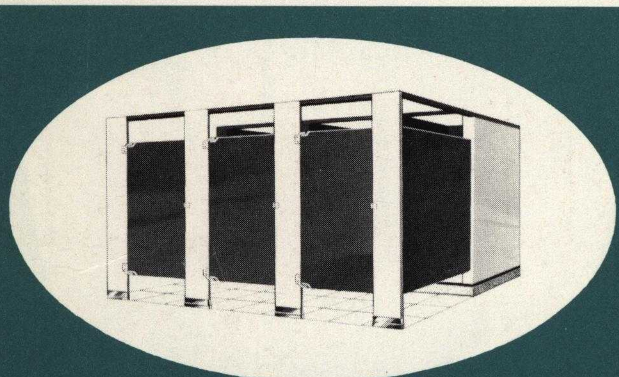


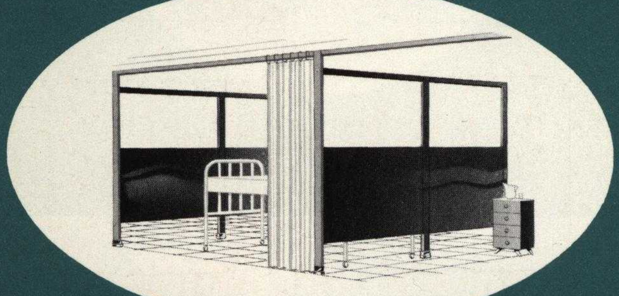
SHOWER AND DRESSING ROOM COMPARTMENT LAYOUT

RECEPTOR 32″ OR 36″ SQUARE
DRESSING ROOMS
SEAT
SEAT
SEAT
48″
42″
36″
INSWINGING DOOR ATTACHED TO PILASTER
PILASTER ANY STANDARD WIDTH REQUIRED

CUTLER

DRESSING ENCLOSURES
HOSPITAL CUBICLES





A complete line of Cutler Hospital Cubicles is available for the modern hospital. Constructed of heavy gauge steel, they are easy to assemble and install and can readily be rearranged whenever necessary. They provide privacy for ward patients, eliminate drafts, diminish noise, permit ample air circulation, and allow visibility of patients at all times. Flush type. Minimum maintenance costs. The Cutler Engineering Staff is at your service without obligation for consultation concerning your Hospital Cubicle layout problems.

DRESSING ENCLOSURES*

SPECIFICATIONS

General — Dressing compartments shall be FLUSH type as manufactured by Cutler Metal Products Co. Compartments shall have doors or curtains, and standard wooden seats and supports.

Materials — Partitions shall be constructed of two sheets of #20 gauge stretcher leveled steel, with honeycomb core cemented firmly to metal. Pilasters shall be #20 gauge. Doors when specified shall be regular FLUSH compartment type doors.

Workmanship — Pilasters when set in place shall be securely anchored to the floor with an adjustable floor saddle and locking bolt. The base of the pilaster and floor connection shall be concealed by a 3″ stainless steel shoe.

Hardware and Fittings — When doors are specified, coat hooks are to be included with door hardware. When curtains are specified, coat hooks shall be included with dividing partitions. Curtain hangers shall be rectangular snap type, chrome plated, with easy gliding rollers. All other fittings shall be of heavy gauge rust-resistant steel, enamel finish same as partitions.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

HOSPITAL CUBICLES

SPECIFICATIONS

General — Cubicle compartments shall be FLUSH type as manufactured by Cutler Metal Products Co. Glass (not furnished) shall be ¼″ thick plate glass.

Materials — Partitions shall be constructed of two sheets of #20 gauge stretcher leveled steel with honeycomb core cemented uniformly to the metal. Pilasters shall be #20 gauge.

Workmanship — Partition edges shall be bound and interlocked with drawn molding welded on the corners. Sheets shall be interlocked and welded to rear post, flanged and welded at front for flush fastening to pilasters. Pilasters when set in place shall be securely anchored to the floor with an adjustable floor saddle and locking bolt. The base of the pilaster and floor connection shall be concealed by a 3″ chrome plated cast shoe.

Fittings — Curtain hangars shall be sturdy rectangular chrome plated snap type with easy gliding rollers. Curtains shall be heavy plastic or duck. All fittings shall be heavy gauge rust resistant steel enamel finished same as partitions.

Finish — All surfaces shall be cleaned and given a priming coat and a double high-temperature finishing coat of (specify color) special acid and alkali-resistant vinyl alkyd enamel baked on. For Vitreous Porcelain Enamel see page 2.

*Cutler Dressing Enclosures, harmonizing in over-all design and finish with Cutler Shower Cabinets, add the comfort, privacy, and convenience needed for modern shower bathing at its finest. All panels are constructed of bonderized-galvanized heavy gauge steel, finished in your choice of color in lustrous high-temperature double-coat acid and alkali-resistant baked enamel to prevent rust. Designed for hard, steady, day-in and day-out, year-in and year-out use, easy to assemble and install, easy to keep clean, they are ideal for schools, factories, camps, hospitals, motels, hotels, air terminals, and every type of institutional, commercial or industrial installation.

BUILDING PRODUCTS DIVISION
CUTLER METAL PRODUCTS CO., CAMDEN 3, NEW JERSEY
OVER 40 YEARS OF METAL ENGINEERING KNOW-HOW

30M—10—59

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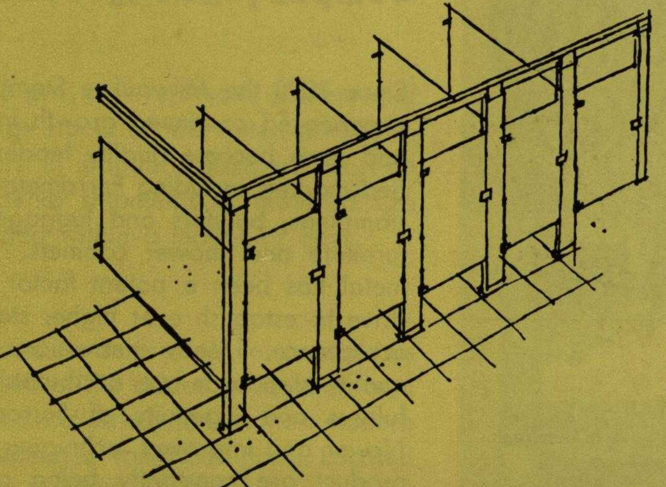
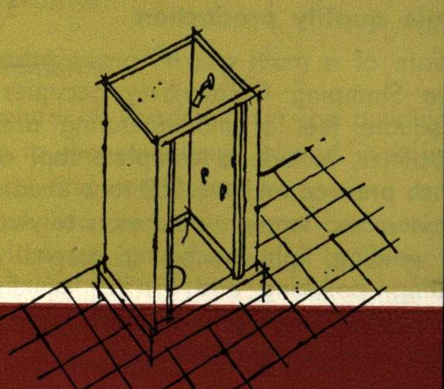
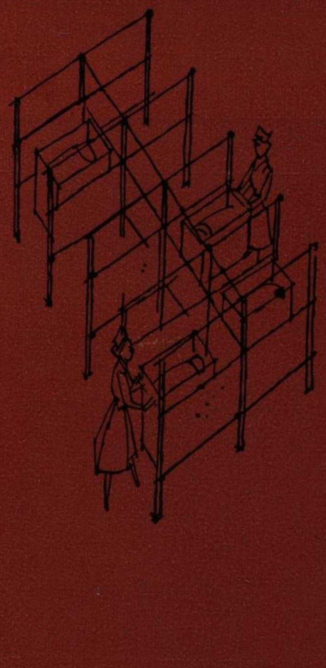




Ferrometal

PARTITIONS

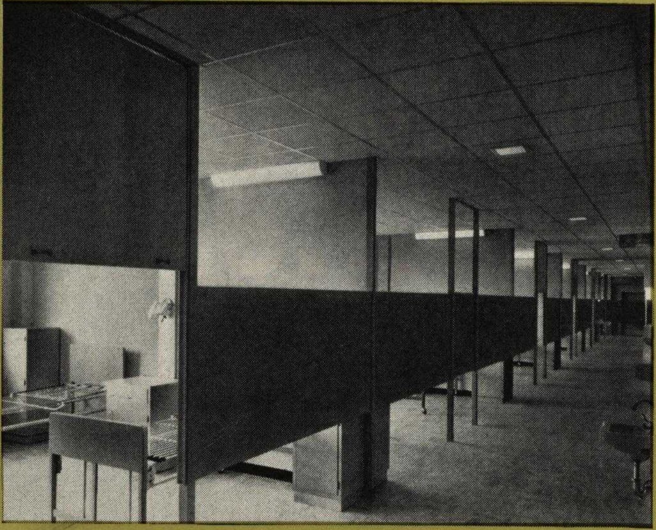
TOILET COMPARTMENTS SHOWER STALLS
DRESSING ENCLOSURES CUBICLE PARTITIONS



FERROMETAL DIVISION
MILWAUKEE STAMPING CO.
CHICAGO 51, ILLINOIS

QUALITY METAL PRODUCTS SINCE 1893

Home Office, John Hancock Mutual Ins. Co., Boston, Mass. Cram & Ferguson, Archts. — Turner Construction Co., Contractor



State Tuberculosis Hospital, San Antonio, Texas — Phelps, Dewees & Simons, Archts. — J. J. Fritch, Contractor.

Company Background

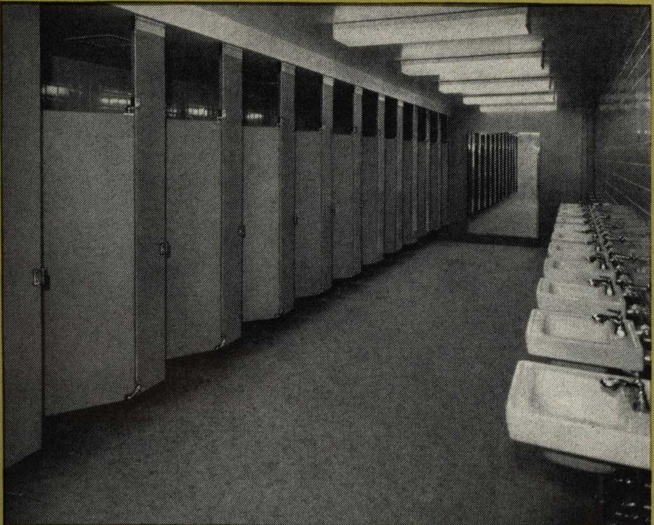
Since 1893 the Milwaukee Stamping Company has experienced continued growth in metal fabrication and have become quality leaders in many diversified markets including Ferrometal partitions, special stampings, builders and luggage hardware, metal furniture and shower cabinets. Since 1929 Ferrometal has been a potent factor in the progressive drive to establish ever higher standards of product acceptance. Many innovations now accepted as quality standards are attributable to the resourcefulness and ingenuity of Ferrometal engineering. Newer and improved techniques for an ever better product are constantly being originated, studied, tested and employed.

large scale quality production

An associate of a multi plant organization, the Milwaukee Stamping Company occupies over 275,000 square feet of manufacturing area. Extensive facilities, include a complete tool and die shop, punch press capacity to 250 tons, shears, press brakes, automatic screw machines, acetylene, arc and spot welding, light machining, assembly, complete plating, polishing and finish painting systems. Manned by employees of many years tenure, quality control is further achieved by a rigid inspection system.

large stock means rapid service

Along with added productive area Ferrometal has increased sharply upward its inventories of raw materials to assure a constant flow of partitions to



Mid America Home Office, Prudential Life Ins. Co., Chicago, Ill. Naess & Murphy, Archts.; George A. Fuller Co., Contr.

Air Terminal, General Mitchell Field, Milwaukee, Wisconsin
John Messmer, Superintendent of Buildings
Milwaukee County Architect

its many users. To provide even more efficient and prompt service large stocks of fabricated partitions, doors and pilasters in standard sizes are carried constantly. Emergency shipments of standard size parts can be effected within a matter of days.

large facilities

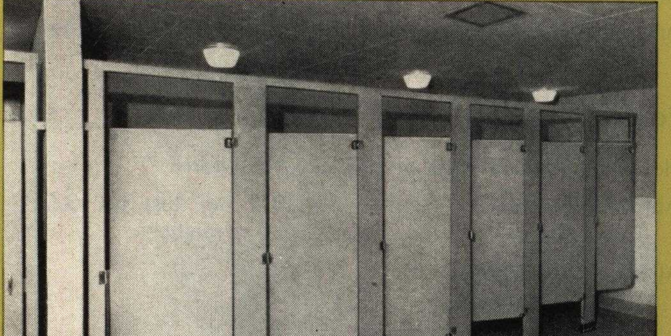
To satisfy the demand for its product Ferrometal has recently availed itself of the added production of a new facility designed exclusively for the most modern and efficient production of toilet partitions. Located in the Chicago area, prompt service can be provided everywhere through Ferrometal's over 100 local representatives.

endorsements

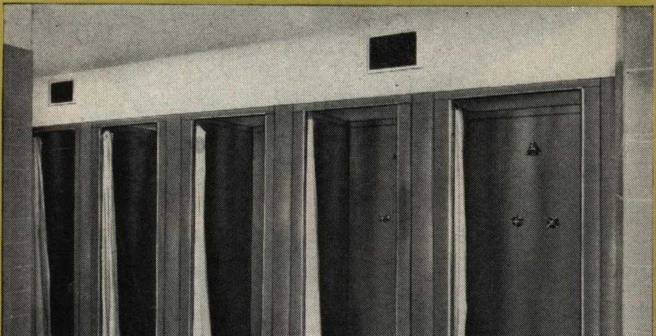
The stature of Ferrometal in the building industry testifies to the confidence placed in it by owners, architects and contractors everywhere on all types and sizes of projects ranging from service stations to the largest of monumental buildings including factories, utilities, schools, universities, hospitals, transportation terminals, religious, office and governmental buildings. Further attesting to Ferrometal engineering capabilities and product quality are the special applications use as ward room dividers, shipboard use and simplified office subdivisions. A representative list of projects and illustrations of product use in some better known buildings are shown here.

Product Features

- **Stainless Steel Hardware**
  For ultimate strength, life-time use and beauty.
- **Concealed Matchless Gravity Hinge**
  For trouble free operation, continuous alignment.
- **Concealed Throw Bolt**
  Cam actuated concealed latching mechanism promotes flush appearance — prevents vandalism and theft.
- **Synthetic Enamel**
  New acrylic finish for sensational resistance to corrosion and abrasion.
- **Porcelain Enamel**
  An inert coating for resistance to organic solvents — superior hardness.
- **Theft Proof Screws**
  Furnished for latches and coat hooks to prevent pilferage.
- **Through Bolted Hardware**
  Eliminates sheet metal screw pull-out — provides greater strength.
- **Pre-drilled Whenever Possible**
  Assures fast, efficient field erection — and per manufacturer's intent.
- **Sub-Floor Anchor Channels**
  Furnished when specified for floor fill conditions when using type FT.
- **Ceiling Plaster Inset Sleeves**
  Provided to assure rigid stud anchorage and prevent plaster cracking.

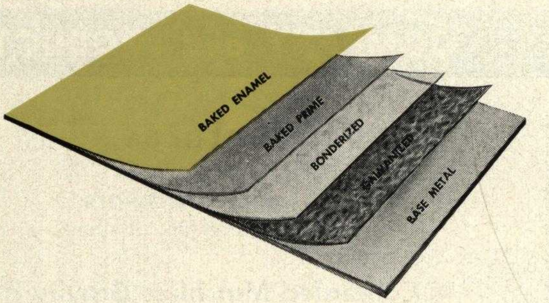


Muskego High School, Muskego, Wisconsin
John J. Flad, & Assoc. Architects
Oliver Construction Company, Contractors



Men's Residence Hall, University of Illinois, Urbana
Schaeffer & Wilson, Architects, Ernest L. Stouffer, Uni. Arch.

Synthetic Enamel



Once again, Ferrometal, who introduced Polyclutch enamel to the industry, has taken a long stride forward, and another first in providing a vastly superior finish on its product. Synthetic enamel finish based on entirely new and unique thermosetting acrylic resins. Hardness and toughness approaching that of porcelain enamel combined with flexibility assuring non-chipping characteristics plus extremely high resistance to acids and alkalies are some of the advantages of this sensational finish. This finish has been fully laboratory and field tested commercially in the past year. Although higher in cost than alkyd enamels, Ferrometal will offer this superior finish over galvanized bonderized steel as its standard Tufbond finish.

Test Results

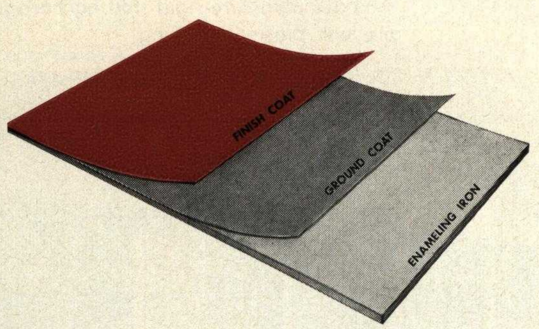
The following laboratory tests indicate why Ferrometal believes its finishes to be the ultimate in performance and application to use in modern washroom partitions. Samples used were bonderized steel with 1.5 mils thickness of Synthetic enamel baked on at 350 degrees F. for 30 minutes.

Hardness: a) Seward Rocker	40 to 59
b) Pencil (no mar showing)	6 H to 8 H
Impact: (without break)	30 inch lbs.
Abrasion Resistance:	
a) Taber CS 10 wheel 1000 gr. wt.	8.58 mg. loss per 100 revolutions
Detergent Resistance:	
2% ALL 1% Salt — 140 Degrees	300 hours
Stain Resistance:	
Mustard	Excellent
Lipstick	Excellent
Oil Soluble Dye	Excellent
Humidity:	
Saturated Humidity, 100 Deg. F.	1200 hours

Alkyd Enamel

Time tested melamine modified alkyd enamels will continue to be used over cold rolled furniture and baked on prime coat for Ferrometals Tufkote finish.

PORCELUX - Porcelain Enamel



To satisfy the demand of its customers, Ferrometal now introduces its new Porcelux enamel finish. A vitreous porcelain coating over enameling iron, this finish is glass hard and is recommended where superior abrasion resistance warrants the increased expenditure for its selection on toilet partitions. Of particular advantage also is its resistance to commercial solvents because of its inorganic nature. Porcelux finish as furnished by Ferrometal will meet the requirements of the Porcelain Enamel Institute for acid resisting architectural procelain enamel and will also meet the following test results.

Test Results:

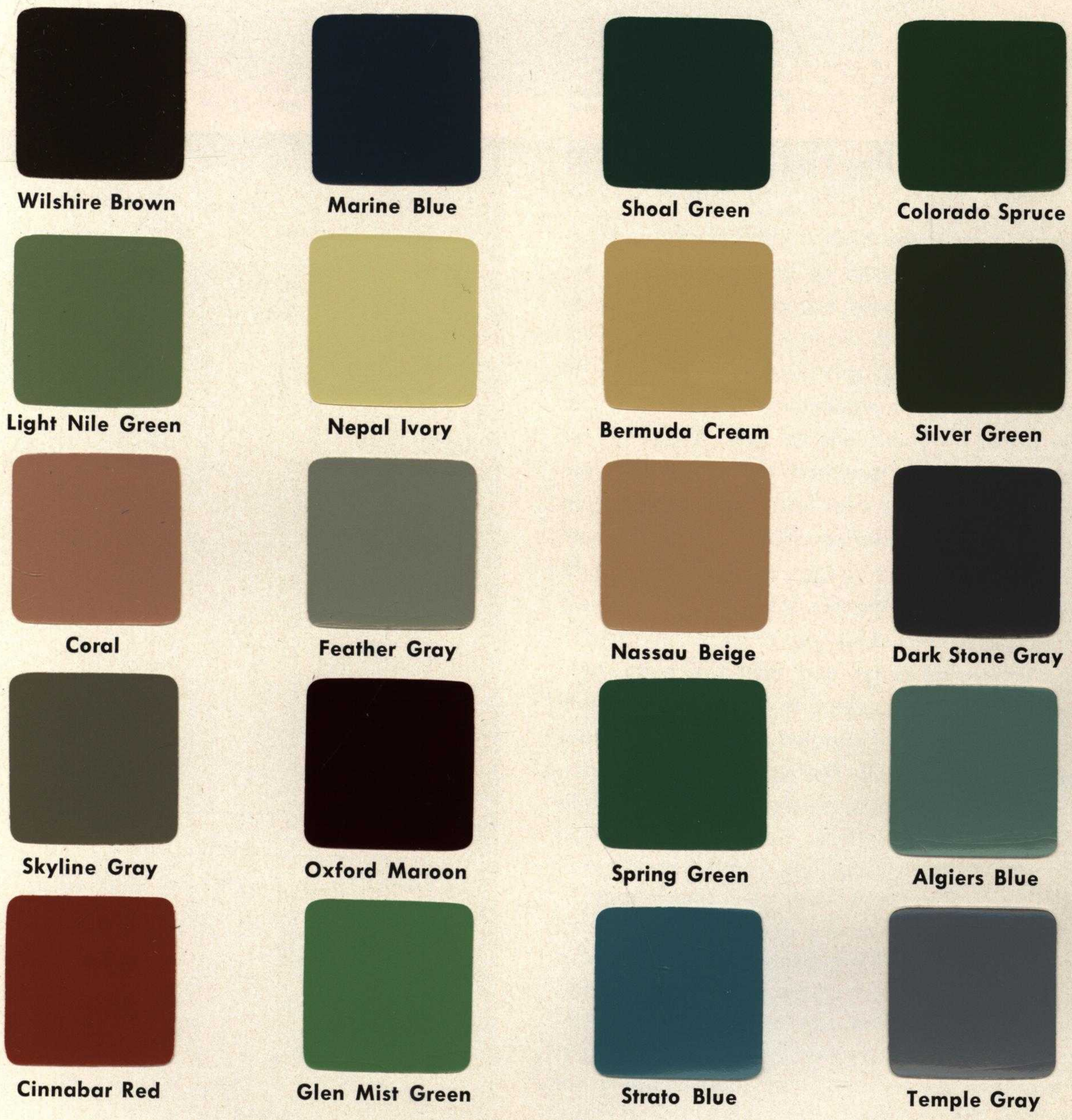
Hardness — Milled edge of coin	No scratch
Abrasion Resistance Taber abrader	012 mg. loss per 500 revolutions
Alkaline Resistance:	
10% caustic soda	6 hrs.
10% ammonioum hydroxide	6 hrs.
Acids (slight dulling permissible)	
10% sulphuric	6 hrs.
10% nitric	6 hrs.
10% acetic	6 hrs.

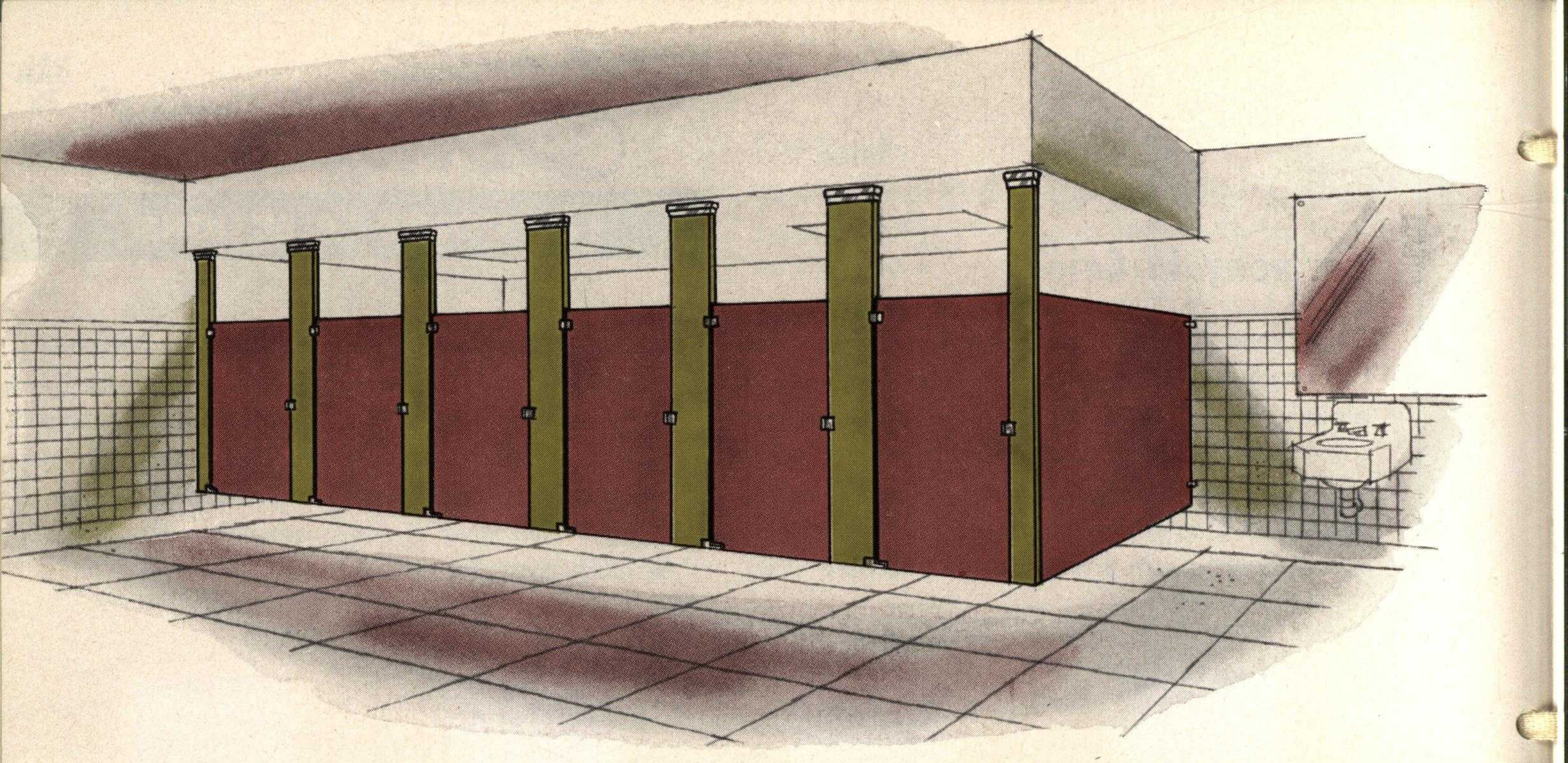
Ferrometal

COLOR SELECTIONS

Harmony in Color

These color shades have been carefully selected to provide you with a wide variation of choice in pleasing blends and contrasts to properly suit your color scheme. All shades plus black and white are available in Porcelain and Synthetic finishes. Because of greater depth and gloss, porcelain finishes will contrast with Synthetic finish. Because of uncontrollable factors in baking and firing processes and privileges of reasonable color variations by responsible paint and frit manufacturers, we cannot guarantee exact color match. Two colors per installation may be chosen from this chart at no extra charge. Selections of colors other than shown can be made available at extra cost.

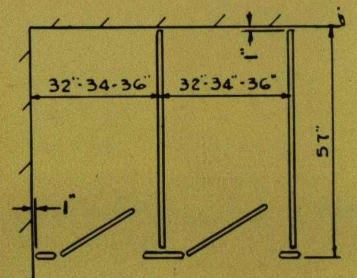

Wilshire Brown
Marine Blue
Shoal Green
Colorado Spruce
Light Nile Green
Nepal Ivory
Bermuda Cream
Silver Green
Coral
Feather Gray
Nassau Beige
Dark Stone Gray
Skyline Gray
Oxford Maroon
Spring Green
Algiers Blue
Cinnabar Red
Glen Mist Green
Strato Blue
Temple Gray



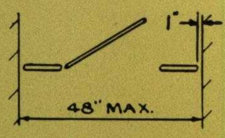
Ceiling Hung Partitions Type CH

Designed to meet the highest contemporary standards *Ceiling Hung* partitions by FERROMETAL will help achieve beauty and economy of maintenance in today's ultra-modern washrooms. Ruggedly constructed—fabricated of galvanized bonderized furniture steel or porcelain enameling iron—finished with acrylic based Synthetic enamel (See page 4) or porcelain enamel — furnished with heavy gauge wrought 18-8 stainless steel hardware, this partition is engineered to withstand rigorous toilet room usage. Wide color ranges available in several finishes coupled with lustrous satin-polished stainless steel hardware, including the proven MATCHLESS gravity concealed hinge and inset top pivot, help impart a truly modern accent to attractive washroom appearance. Smooth rounded corners with edges locked and sealed with flush surfaces throughout, with partitions and pilasters supported clear of walls eliminate dirt accumulations. Suspended from drop ceiling with no floor obstructions, and used with wall hung fixtures throughout, floor cleansing is quickly, effectively and economically accomplished. Urinal screens where required are also wall hung with extra heavy stirrup brackets or continuous back plate wall anchor dependent upon size and specified preference. This type construction is ideal for buildings wherever top quality and maintenance savings of 25 to 30% (per building superintendent survey) are deciding factors in product selection.

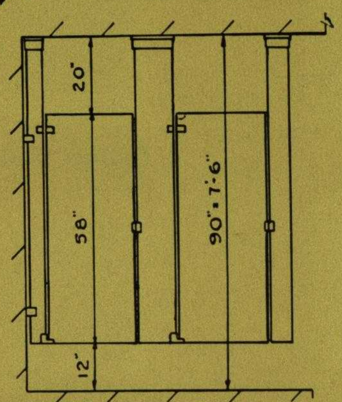
DETAILS (Type CH) Plans and Elevations



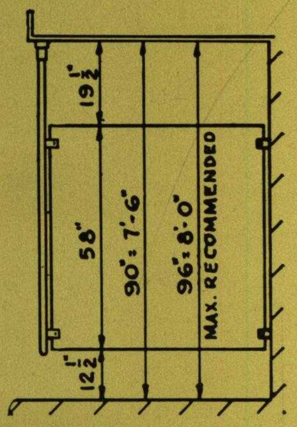
TYPICAL PLAN



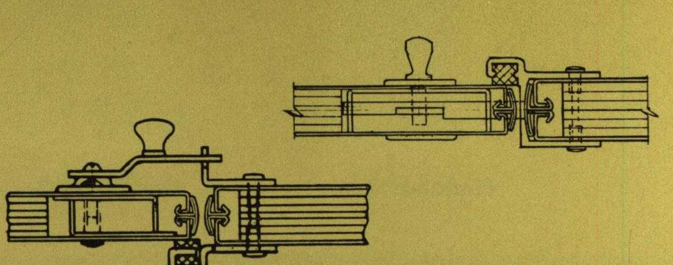
RECESS INSTALLATION
Do Not Exceed Maximum.



TYPICAL FRONT ELEVATION



TYPICAL END ELEVATION



INSWINGING DOORS AND PILASTER SECTION

Ferrometal

CEILING HUNG PARTITIONS

architects' specifications

Toilet compartments shall be FERROMETAL type CH as manufactured by the Milwaukee Stamping Company, Chicago, Illinois.

TUFBOND (Galvanized Bonderized Steel, Synthetic Enamel Finish)

DIVIDING PARTITIONS: Dividing partitions shall be not less than 1" thick, made of two sheets of 20 gauge steel stretcher leveled zinc-coated and bonderized. Sound deadening core shall be cemented with rubber base adhesive and assembled under pressure. Edges of sheets shall be interlocked along entire outside edge sealing same into one continuous smooth surface. Corner joints to be mitered, brazed and ground smooth.

PILASTERS: To be 1¼" thick, made of 16 gauge steel sheets zinc-coated and bonderized assembled with sound deadening core, otherwise similar to dividing panels. Pilaster to have tapped reinforcements for machine screw application of stirrup bracket connection. Pilasters to have adjustable ceiling anchor with leveling device, plaster sleeve spacers and locking nuts to firmly secure pilaster.

DOORS: All doors shall be 22 gauge steel otherwise same construction as divider partitions. Internal welded box reinforcements shall be provided for hinges and latches. Hinge body to be concealed in door. Bottom edge of door to align with front pilaster when door is in closed position.

FINISH: All surfaces to be thoroughly degreased. Synthetic acrylic based thermosetting enamel to be sprayed on at a minimum thickness of 1½ mils and baked at 300 degrees Fahrenheit for thirty minutes.

HARDWARE AND FITTINGS: All doors to be provided with concealed Matchless gravity hinge adjustable from outside to provide universal rest location. Furnish inset top pivot assembly, concealed turn bolt or throw latch, clamp strike and keeper, hinge brackets, coat hook and bumper. All hardware and cap shoes to be wrought 18-8 stainless steel, exposed parts to be satin polished. All hardware to be thru bolted except coat hook to be applied with theft proof screws. Enameled wrought steel stirrup brackets to be provided for wall and pilaster connections, anodized extruded aluminum available as optional extra.

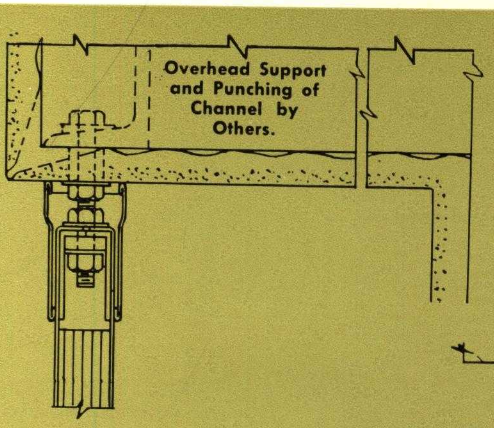
PORCELUX (Enameling Iron, Porcelain Enamel Finish)

DIVIDING PARTITIONS AND DOORS: Shall be not less than one inch thick made of 2 sheets of 18 gauge enameling iron pan formed and assembled to sound deadening core. Edges of facing sheets shall be welded to provide rigid slab construction and concealed along entire outside edge with polished stainless steel locking moulding mitred, welded, ground smooth and polished at corner joints. Internal reinforcements shall be provided for all door hardware. Hinge body to be concealed within door. Bottom edge of door to align with front pilaster when in closed position.

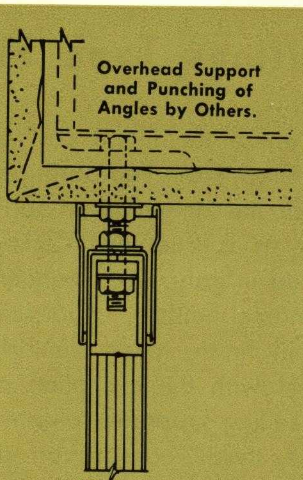
PILASTERS: To be 1¼" thick otherwise same as dividing partitions and doors. Pilasters to have tapped reinforcement for machine screw application of stirrup bracket connections. Pilasters to have adjustable ceiling anchor with leveling device, plaster sleeve spacers, and locking nuts to firmly secure pilaster.

FINISH: All facing sheets to be coated on both sides with one ground coat of porcelain enamel. Exposed faces to have finish coat of porcelain enamel in manufacturers standard color selections. Coatings are to be fired separately. Final finish to meet the standards of the architectural porcelain enamel as established by Porcelain Enamel Institute.

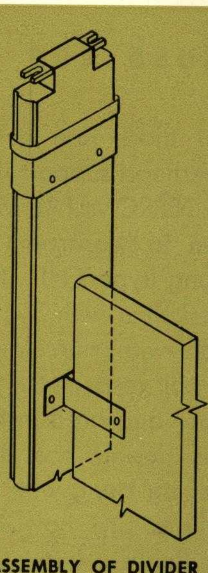
HARDWARE AND FITTINGS: Same as under TUFBOND except stirrup brackets anodized extruded aluminum.



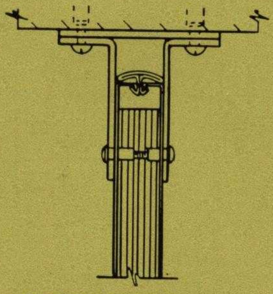
Overhead Support and Anchorage Detail



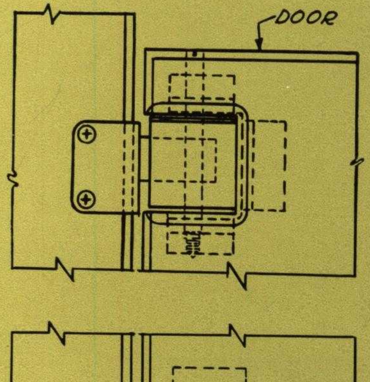
ALTERNATE OVERHEAD SUPPORT AND ANCHORAGE DETAIL



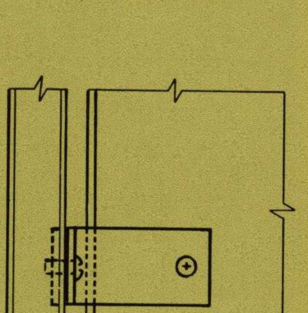
ASSEMBLY OF DIVIDER AND PILASTER



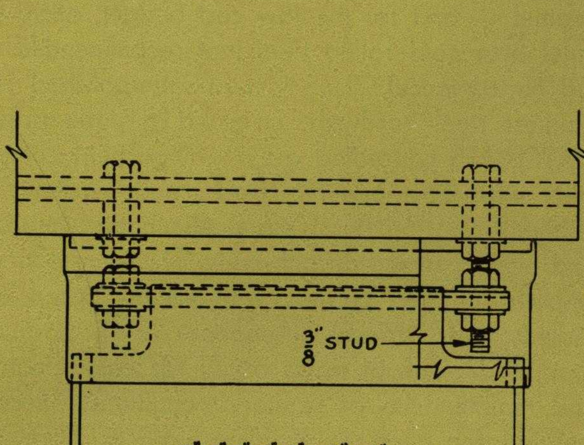
SECTION DIVIDER AND WALL CONNECTION



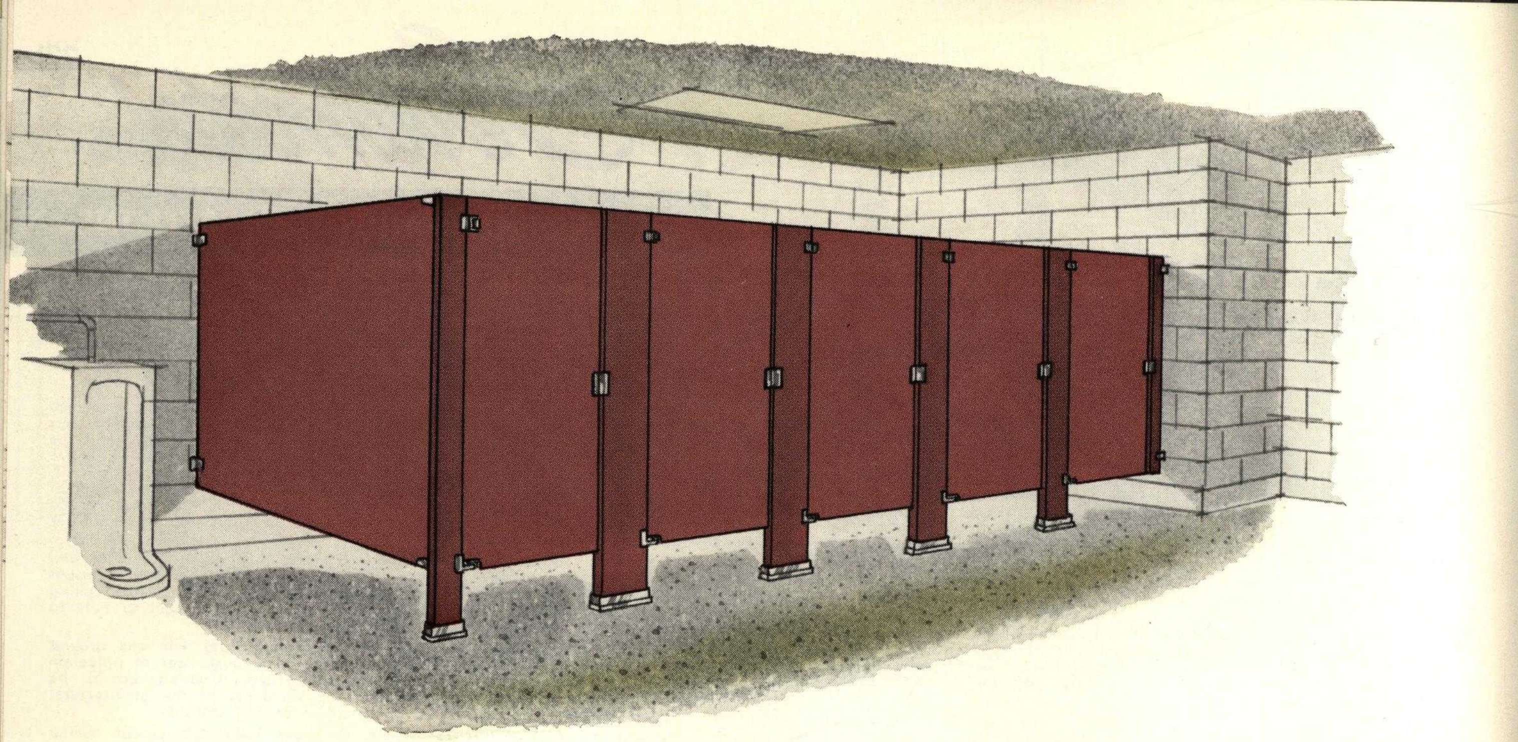
ELEVATION OF DOOR AND PILASTER
Illustrating Concealed Gravity Hinge Application.



DETAIL OF PILASTER AND DIVIDER CONNECTION



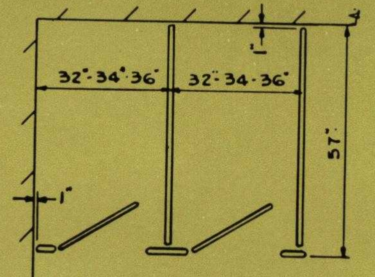
ELEVATION DETAIL OF CEILING ANCHORAGE



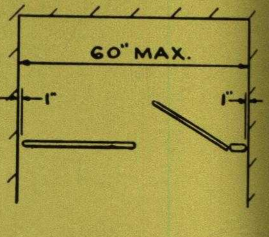
Flush Top Partitions Type FT

For those fine buildings where the initial cost of overhead support is not desired, Flush Top partitions by FERROMETAL will provide the same modern addition to washroom beauty as is true with Ceiling Hung (type CH). Fabricated in galvanized bonderized steel with Synthetic Enamel finish or enameling iron with porcelain enamel finish, made similarly in all respects to type CH with the exception of floor anchored instead of ceiling supported pilaster, this design has the same sturdy construction as Ceiling Hung with greater application. Wide color ranges are now available in two different types of finishes, (e.g.) the new sensationally uric acid, alkaline and humidity resistant Synthetic enamel over zinc coated steel or high hard gloss porcelain enamel — and for the low cost budget, alkyd enamel over cold rolled steel (not recommended for top performance). Lustrous satin-polished 18-8 stainless steel hardware including the proven MATCHLESS concealed gravity hinge help complement washroom beauty. Doors and pilasters are in the same horizontal plane eliminating headrail and adding to the attractiveness of the installation. Smooth rounded corners with edges locked and sealed, flush surfaces throughout with partitions supported clear of walls allow for easy cleaning and maintenance of sanitary conditions. Recommended for public buildings, offices, terminals, schools, etc. See accompanying details for recommended use and installation.

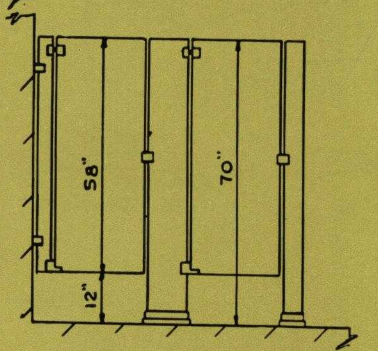
DETAILS (Type FT) Plans and Elevations



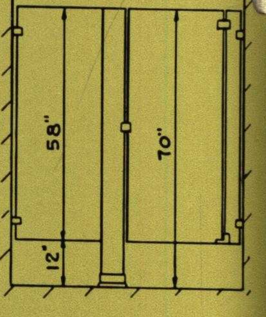
TYPICAL PLAN



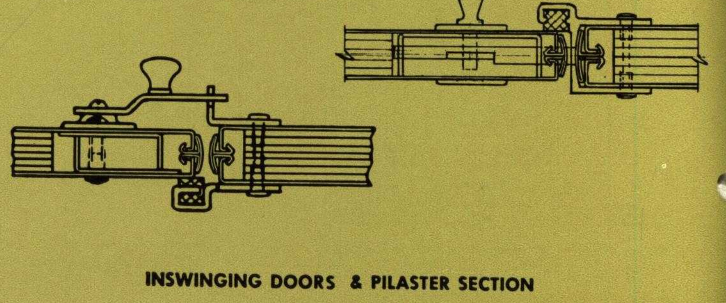
RECESS INSTALLATION
Do Not Exceed Maximum.



TYPICAL FRONT ELEVATION
Wall Pilaster Flush with Bottom of Door Allows for Cove Base, Installation of Wall Fin Radiators or Return Pipes.



ELEVATION RECESS ASSEMBLY



INSWINGING DOORS & PILASTER SECTION

Ferrometal

FLUSH TOP PARTITIONS

architects' specifications

Toilet compartments shall be FERROMETAL type FT as manufactured by the Milwaukee Stamping Company, Chicago, Illinois.

TUFBOND (Galvanized Bonderized Steel, Synthetic Enamel Finish)

DIVIDING PARTITIONS: Dividing partitions shall be not less than 1" thick, made of two sheets of 20 gauge steel stretcher leveled zinc-coated and bonderized. Sound deadening core shall be cemented with rubber base adhesive and assembled under pressure. Edges of sheets shall be interlocked along entire outside edge sealing same into one continuous smooth surface. Corner joints to be mitered, brazed and ground smooth.

PILASTERS: To be 1¼" thick, made of 16 gauge steel sheets zinc-coated and bonderized assembled with sound deadening core, otherwise similar to dividing panels. Pilaster to have tapped reinforcements for machine screw application of stirrup bracket connection. Pilasters to have adjustable floor anchor with leveling device, studs and locking nuts to firmly secure pilaster.

DOORS: All doors shall be 22 gauge steel otherwise same construction as divider partitions. Internal welded box reinforcements shall be provided for hinges and latches. Hinge body to be concealed in door. Top edge of door to align with front pilaster when door is in closed position.

FINISH: All surfaces to be thoroughly degreased. Synthetic acrylic based thermosetting enamel to be sprayed on at a minimum thickness of 1½ mils and baked at 300 degrees Fahrenheit for thirty minutes.

HARDWARE AND FITTINGS: All doors to be provided with concealed Matchless gravity hinge adjustable from outside to provide universal rest location. Furnish inset top pivot assembly, concealed turn bolt or throw latch, clamp strike and keeper, hinge brackets, coat hook and bumper. All hardware and floor shoes to be wrought 18-8 stainless steel, exposed parts to be satin polished. All hardware to be thru bolted except coat hook to be applied with theft proof screws. Enameled wrought steel stirrup brackets to be provided for wall and pilaster connections, anodized extruded aluminum available as optional extra.

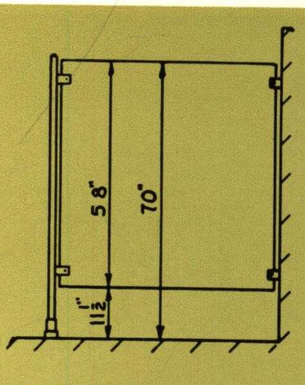
PORCELUX (Enameling Iron, Porcelain Enamel Finish)

DIVIDING PARTITIONS AND DOORS: Shall be not less than one inch thick made of 2 sheets of 18 gauge enameling iron pan formed and assembled to sound deadening core. Edges of facing sheets shall be welded to provide rigid slab construction and concealed along entire outside edge with polished stainless steel locking moulding mitred, welded, ground smooth and polished at corner joints. Internal reinforcements shall be provided for all door hardware. Hinge body to be concealed within door. Top edge of door to align with front pilaster when in closed position.

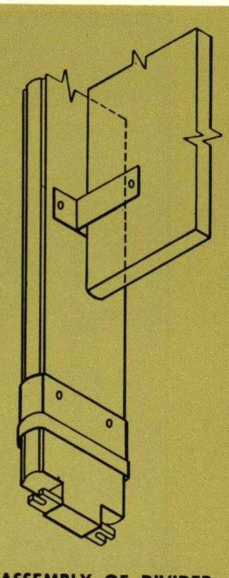
PILASTERS: To be 1¼" thick otherwise same as dividing partitions and doors. Pilasters to have tapped reinforcement for machine screw application of stirrup bracket connections. Pilasters to have adjustable floor anchor with leveling device, studs, and locking nuts to firmly secure pilaster.

FINISH: All facing sheets to be coated on both sides with one ground coat of porcelain enamel. Exposed faces to have finish coat of percelain enamel in manufacturers standard color selections. Coatings are to be fired separately. Final finish to meet the standards of the architectural porcelain enamel as established by Porcelain Enamel Institute.

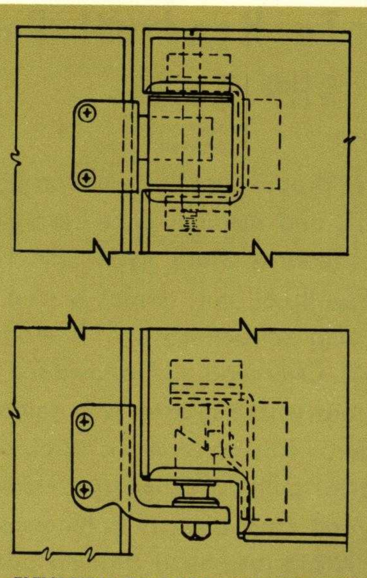
HARDWARE AND FITTINGS: Same as under TUFBOND except stirrup brackets anodized extruded aluminum.



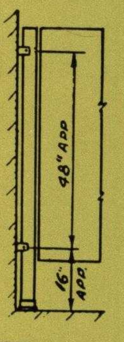
TYPICAL END ELEVATION



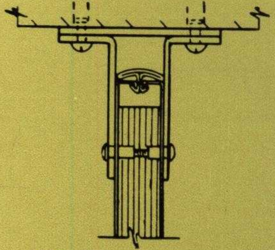
ASSEMBLY OF DIVIDER AND PILASTER



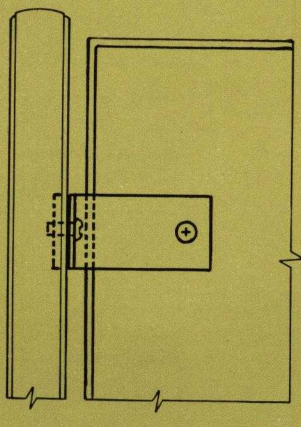
ELEVATION OF DOOR AND PILASTER
Illustrating Concealed Gravity Hinge Application.



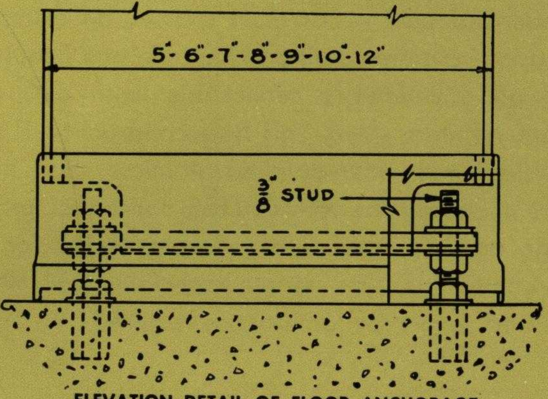
ALTERNATE WALL PILASTER CONNECTION



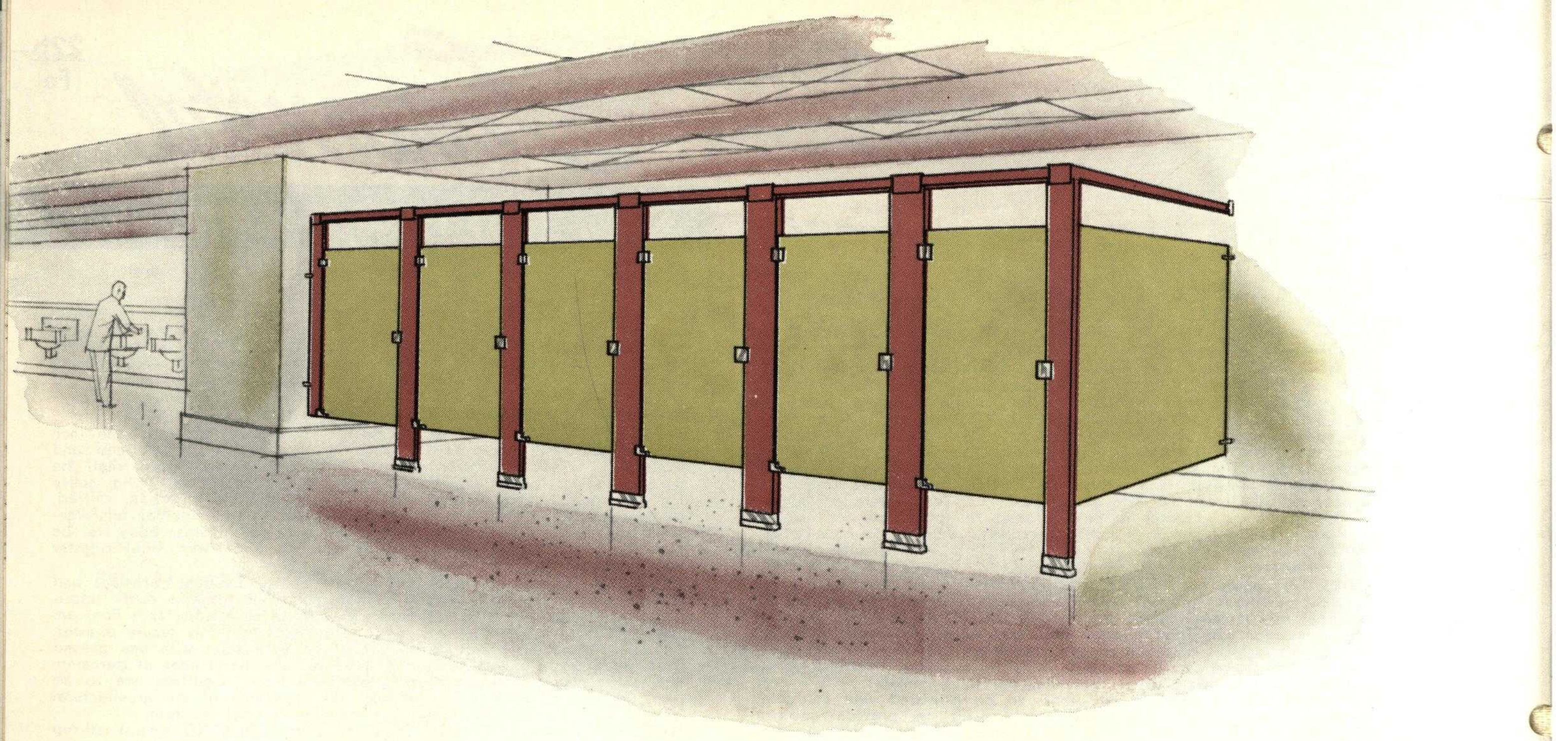
SECTION DIVIDER AND WALL CONNECTION.



DETAIL OF PILASTER AND DIVIDER CONNECTION



ELEVATION DETAIL OF FLOOR ANCHORAGE
Expansion Shields Must Be Set 2" Into Solid Concrete not in Fill. Specify Depth of Fill When it Occurs.

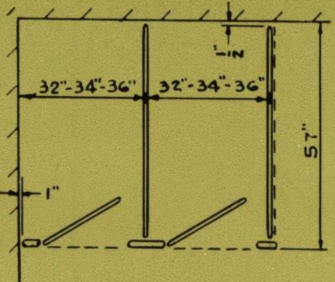


Stile To Headrail Partitions Type SHR Flush

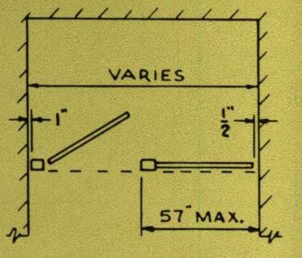
For wider product application than possible in Types CH & FT, and medium price range is desirable, *Stile to Headrail Flush* (type SHR Flush) partitions by FERROMETAL will render a rigid installation harmonizing attractively with modern washroom interiors. Overhead rail allows for solidly braced installations where pilaster is in same vertical plane as divider. This construction is particularly recommended for built up showers, dressing rooms, entry screens and long runs as in recesses exceeding 60 inches. While overhead bracing allows for certain economy of construction, generally, the same attractive appearance is kept with smooth rounded edges and flush surfaces throughout. Finishes available include — Synthetic, a highly acid and alkaline resistant acrylic based enamel over galvanized bonderized steel — Porcelain enamel, an extremely abrasion resistant coating of long life and beauty — and alkyd enamel, a serviceable finish over cold rolled furniture steel. This type construction is also furnished with satin-polished stainless steel hardware including the MATCHLESS concealed gravity hinge and top inset pivot. Recommended for use anywhere; this type serves especially well where the most severe performance is required.

DETAILS (Type SHR Flush)

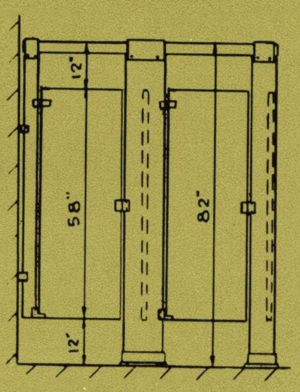
Plans • Elevations • Sections



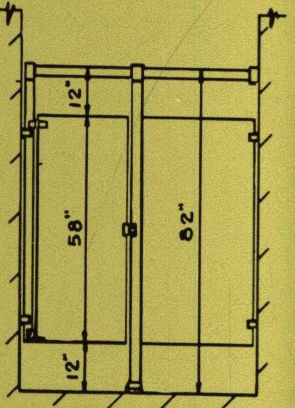
TYPICAL PLAN



RECESS ASSEMBLY

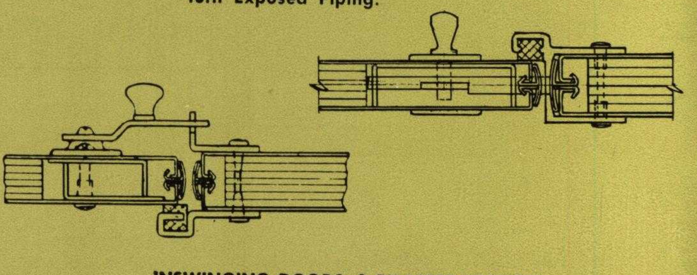


TYPICAL ELEVATION



ELEVATION RECESS ASSEMBLY

Wall Pilaster Flush With Bottom of Door. Allows for Cove Base, Installation of Wall Fin Radiators or Return Exposed Piping.



INSWINGING DOORS & PILASTER SECTION

Ferrometal

STILE TO HEADRAIL Flush

architects' specifications

Toilet compartments shall be FERROMETAL type SHR Flush as Manufactured by the Milwaukee Stamping Company, Chicago, Illinois.

TUFBOND (Galvanized Bonderized Steel) or TUFKOTE (Cold Rolled Steel)

DIVIDING PARTITIONS: Dividing partitions shall be not less than 1" thick, made of two sheets of 20 gauge stretcher leveled cold rolled (or zinc coated bonderized) steel assembled under pressure to sound deadening core with rubber based adhesive. Edges of sheets shall be interlocked along entire outside edge with corner joints to be mitred, brazed and ground smooth.

PILASTERS: To be 1¼" thick made of 20 gauge steel otherwise same as dividing partitions. 2" pilasters to be 16 gauge tubing without cores. Pilasters to have adjustable floor anchors to firmly secure pilaster.

HEADRAIL: To be 1¼" x ⅞" 16 gauge tubing to fasten to top of pilaster with wrought steel channel secured at top, front and back with screws.

DOORS: All doors to be 22 gauge steel otherwise same construction as dividing partitions. Internal welded box reinforcements shall be provided for hinges and latches. Hinge body to be concealed in door.

FINISH: All surfaces to be thoroughly degreased. (TUFBOND only) acrylic based thermosetting enamel to be sprayed on at a minimum thickness of 1½ mils and baked at 300° for 30 minutes. (TUFKOTE only) primer and alkyd synthetic enamel to be applied in successive coats and baked on separately.

HARDWARE AND FITTINGS: All doors to be provided with concealed Matchless gravity hinge adjustable from outside to provide universal rest location. Furnish inset top pivot assembly, concealed turn bolt or throw-latch, keeper and bumper, hinge brackets, coat hook and bumper. All hardware and floor shoes to be wrought 18-8 stainless steel, exposed parts to be satin polished. All hardware to be thru bolted except coat hook to be applied with theft proof screws. Enameled wrought steel brackets to be provided for wall and pilaster connections, anodized extruded aluminum available as optional extra.

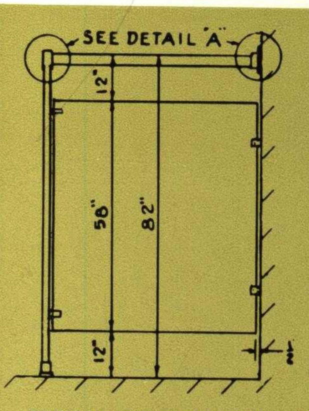
PORCELUX (Enameling Iron, Porcelain Enamel Finish)

DIVIDING PARTITIONS AND DOORS: Shall not be less than 1" thick, made of 2 sheets of 18 gauge enameling iron pan formed and assembled to sound deadening core. Edges of facing sheets shall be welded to provide rigid slab construction and concealed along entire outside edge with polished stainless steel locking moulding, mitred, welded, and polished smooth at corner joints. Internal reinforcements shall be provided for all door hardware. Hinge body to be concealed within door.

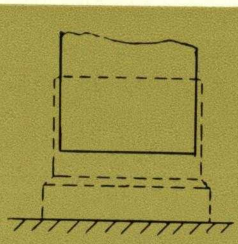
PILASTERS: To be 1¼" thick otherwise same as dividing partitions and doors. Pilasters to have tapped reinforcements for machine screw application of stirrup bracket connections. Pilasters to have adjustable floor anchor with leveling device, anchor studs and locking nuts to firmly secure pilasters.

FINISH: All facing sheets to be coated on both sides with one ground coat of porcelain enamel. Exposed faces to have finish coat of porcelain enamel in manufacturers standard color selections. Coatings are to be fired separately. Final finish to meet the standards of architectural porcelain enamel as established by the Porcelain Enamel Institute.

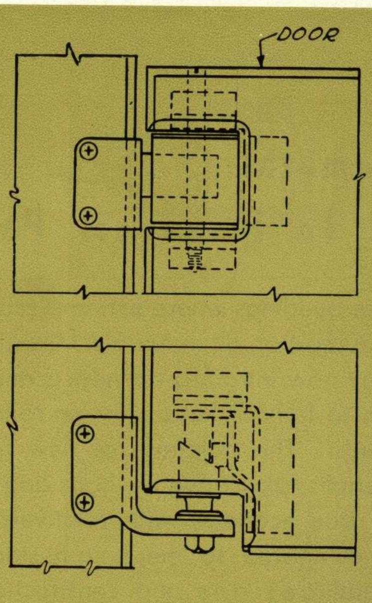
HARDWARE AND FITTINGS: Same as under TUFBOND or TUFKOTE except stirrup brackets anodized extruded aluminum.



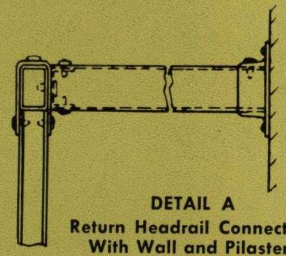
TYPICAL END ELEVATION
Headrail Over End Panel Only.



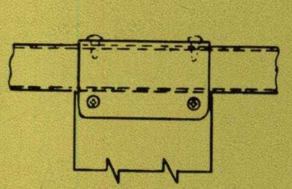
ALTERNATE WALL PILASTER CONNECTION



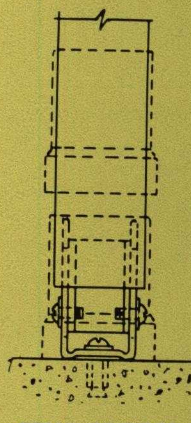
ELEVATION OF DOOR AND PILASTER
Illustrating Concealed Gravity Hinge Application.



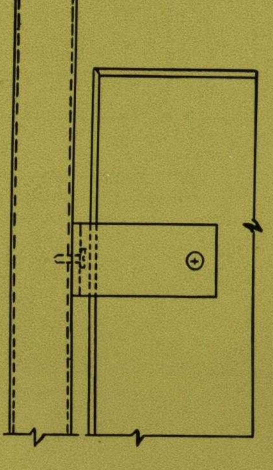
DETAIL A
Return Headrail Connection With Wall and Pilaster.



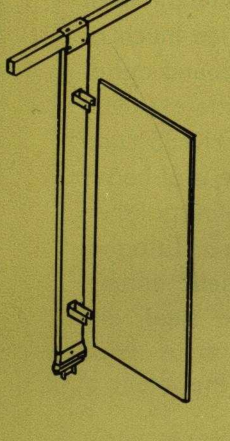
DETAIL OF OVERHEAD RAIL AND PILASTER CONNECTION



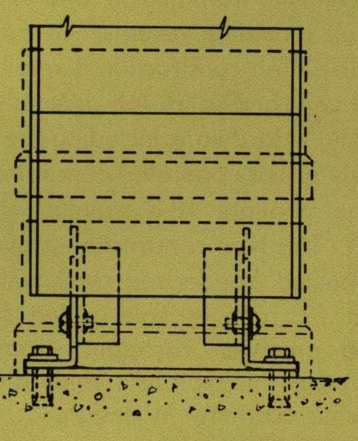
DETAIL OF FLOOR ANCHORAGE FOR 2" PILASTER



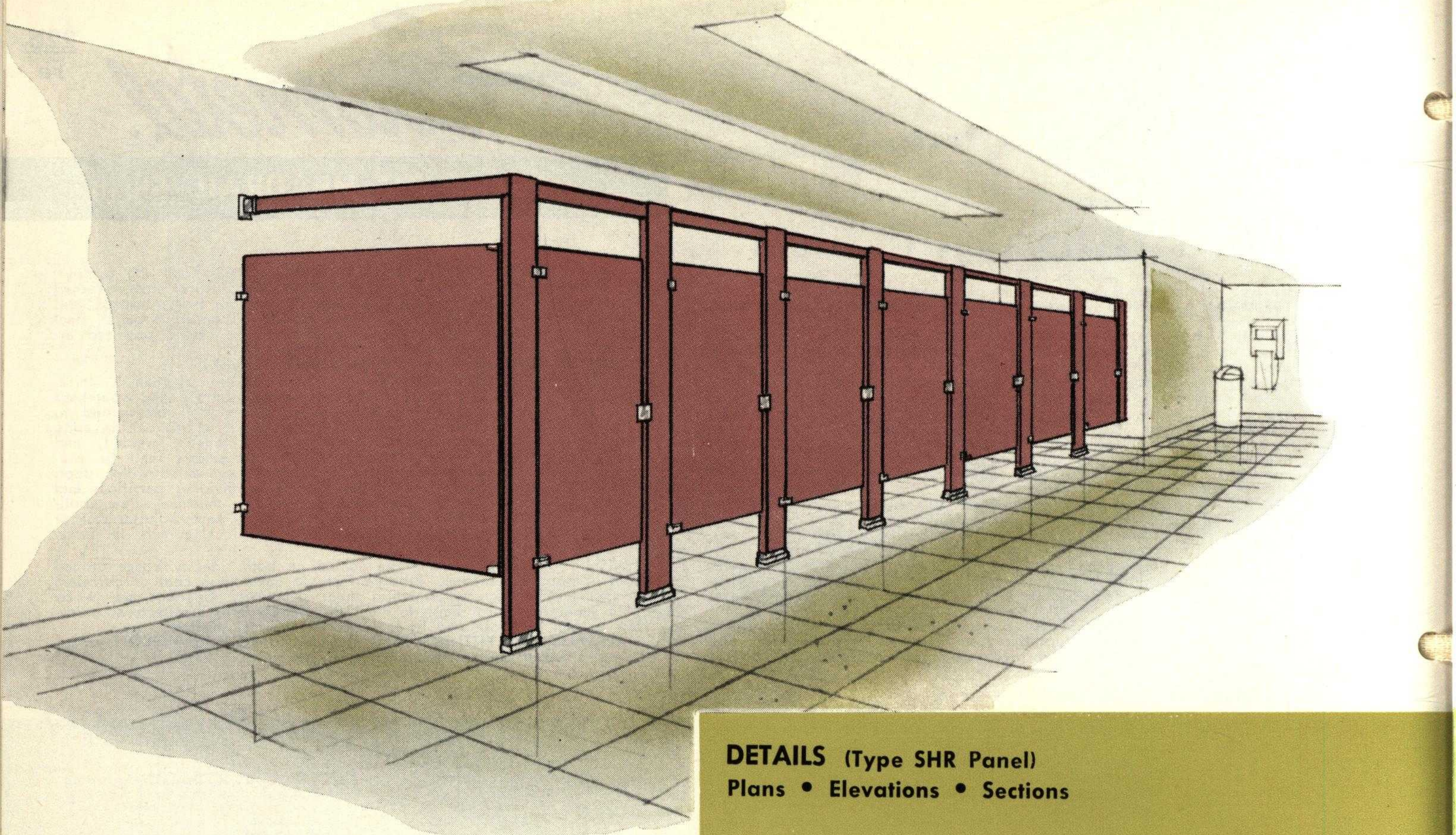
DETAIL OF PILASTER AND DIVIDER CONNECTION



ASSEMBLY OF PILASTER
Headrail and Divider.



DETAIL OF FLOOR ANCHORAGE FOR PILASTERS 3" TO 12" WIDE.

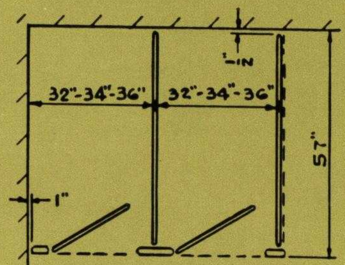


Econometal Stile To Headrail Partitions

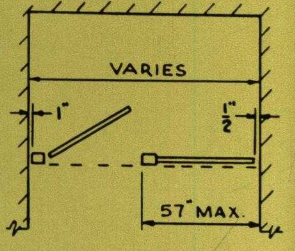
For those buildings where extreme economy requires the lowest cost on all materials, Milwaukee Stamping Company now introduces a new economy flush type partition to furnish the answer on toilet partition requirements. The purchase of new forming equipment permits fabricating methods and designs which achieve true economy with relatively small loss of quality compared to the high standards of the Ferrometal designs and constructions. This new partition is priced lower than single sheet panel types of construction permitting elimination of that product type and its objectionable features such as noisy sound transmission and the accumulation of dirt on moulding reveals. In appearance much of the SHR flush construction is retained. Sound deadened core and solid slab assembly provide excellent rigidity. Hardware including the MATCHLESS completely gravity operated concealed hinge is of heavy gauge wrought 18-8 stainless steel satin polished finish. This type construction is available in Tufbond, galvanized bonderized steel with synthetic enamel finish or Tufkote, cold rolled furniture steel with alkyd enamel. Porcelain enamel finish is *NOT* offered in this type in consideration of the intent of extreme economy in design.

DETAILS (Type SHR Panel)

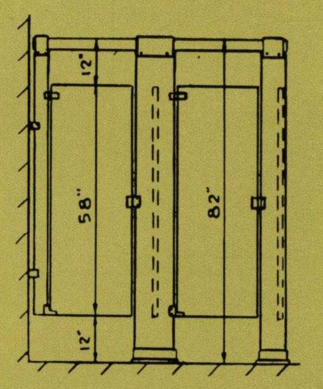
Plans • Elevations • Sections

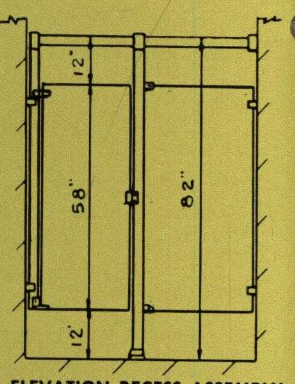


TYPICAL PLAN



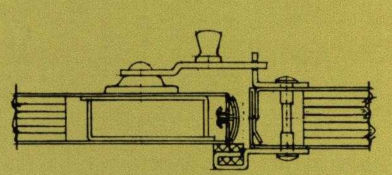
RECESS ASSEMBLY





ELEVATION RECESS ASSEMBLY

Wall Pilaster Flush With Bottom of Door. Allows for Cove Base, Installation of Wall Fin Radiators or Return Exposed Piping.



INSWINGING DOORS & PILASTER SECTION

Econometal

STILE TO HEADRAIL PARTITIONS

architects' specifications

GENERAL: Toilet compartments shall be ECONOMETAL as manufactured by the Milwaukee Stamping Company, Chicago, Illinois.

DIVIDING PARTITIONS: Dividing partitions shall be not less than 1" thick, made of two sheets of stretcher levelled cold rolled (or zinc coated bonderized) steel assembled under pressure to sound deadened core with rubber base adhesive. Edges of panel shall be formed to interlock with each other. Corner joints to be welded and ground smooth.

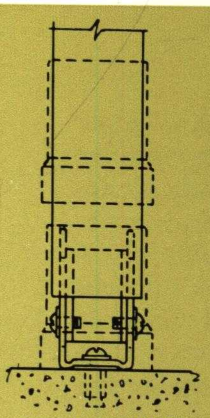
PILASTERS: To be 1¼" thick made of two sheets of cold rolled (or galvanized bonderized) stretcher levelled furniture steel assembled to sound deadening core under pressure. Edge of panel shall be formed to interlock with each other. Corner joints to be welded.

HEADRAIL: To be 1 x 1½", 18 gauge tubing inserted into and attached to pilaster. Headrail to be continuous across the fronts of compartments and over end panels.

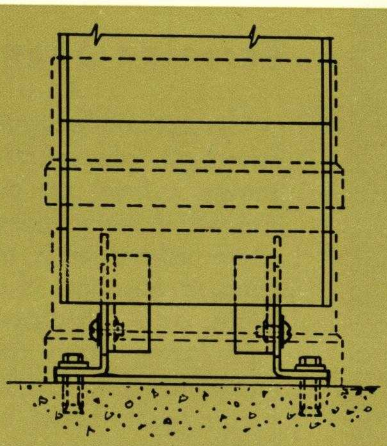
DOORS: All doors shall be 22 gauge steel, one inch thick flush construction otherwise similar to pilaster. Internal welded box reinforcements shall be provided for all door hardware. Inset top pivot to be provided for and hinge body to be concealed in door.

FINISH: All surfaces to be thoroughly degreased. Primer and urea melamine alkyd enamel to be applied in successive coats and baked on separately at 300° Fahrenheit.

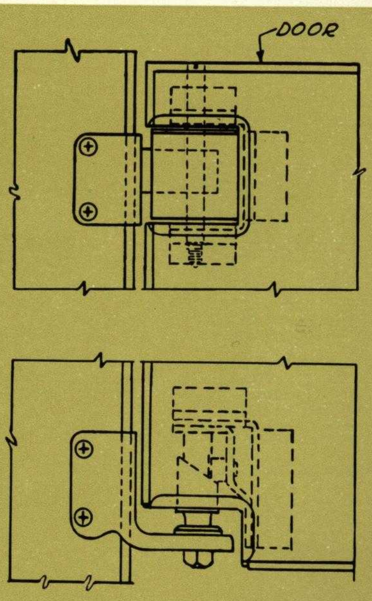
HARDWARE AND FITTINGS: All doors to be provided with concealed Matchless gravity hinge adjustable from outside to provide universal rest location. Furnish inset top pivot assembly, throw latch, keeper and bumper, hinge brackets, coat hook and bumper. All hardware and floor shoes to be wrought 18-8 stainless steel, exposed parts to be satin polished. Latches and coat hooks to be applied with theft proof screws. Enameled wrought steel stirrup brackets to be provided for wall and pilaster connections.



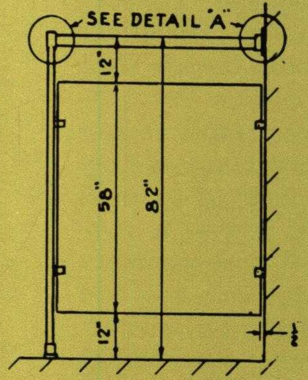
DETAIL OF FLOOR ANCHORAGE FOR 2" PILASTER



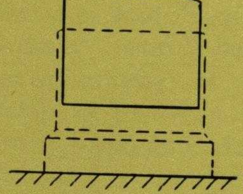
DETAIL OF FLOOR ANCHORAGE FOR PILASTERS 3" TO 12" WIDE.



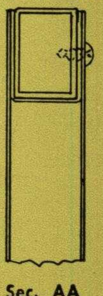
ELEVATION OF DOOR AND PILASTER
Illustrating Concealed Gravity Hinge Application.



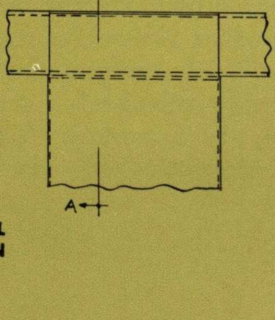
TYPICAL END ELEVATION
Headrail Over End Panel Only.



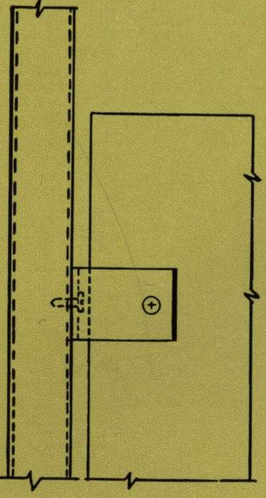
ALTERNATE WALL PLASTER CONNECTION



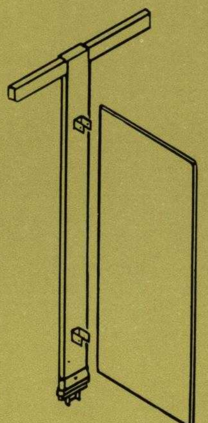
Sec. AA



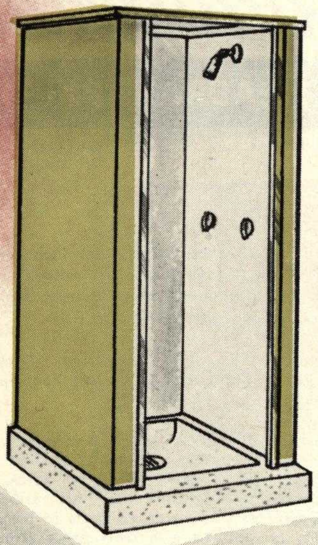
DETAIL OF OVERHEAD RAIL AND PILASTER CONNECTION



DETAIL OF PILASTER AND DIVIDER CONNECTION



ASSEMBLY OF PILASTER HEADRAIL AND DIVIDER



architects' specifications

All shower cabinets shall be Ferrolux 36 x 36 x 82 as manufactured by the Ferrometal Division, Milwaukee Stamping Company, Milwaukee, Wisconsin.

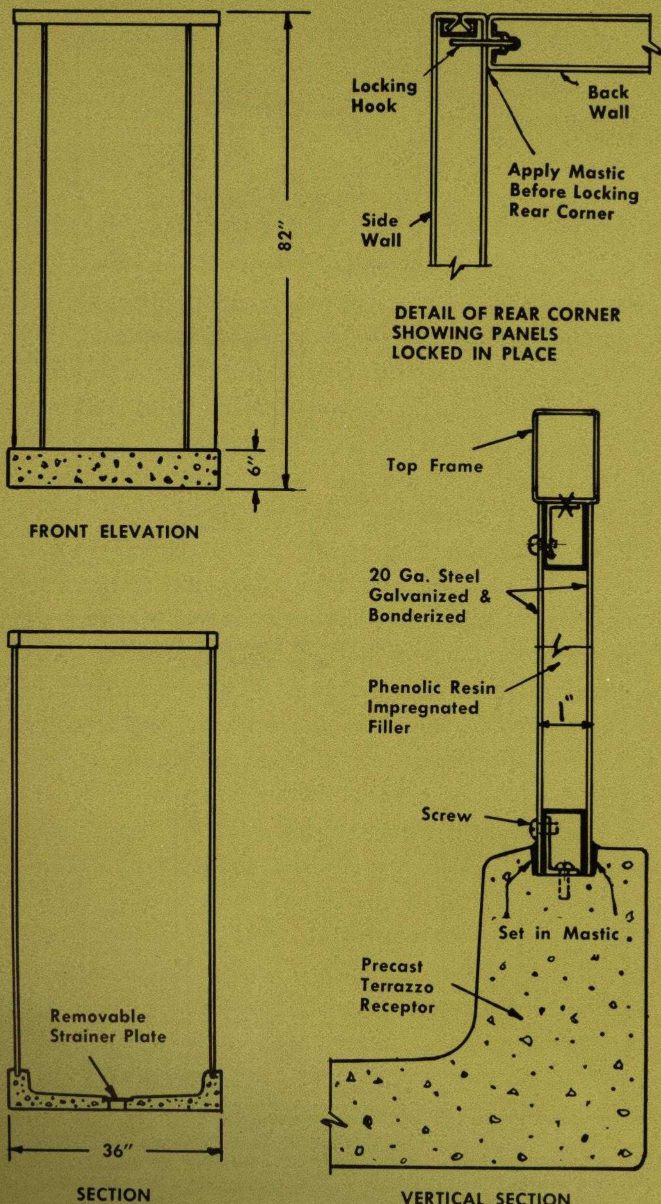
WALLS: Walls shall be 1" thick, fabricated of 20 gauge galvanized, bonderized steel, cemented to phenolic impregnated sound-deadening core and locked with inside locking tubing.

RECEPTORS: Receptors shall be black-and-white precast Terrazzo with cast in integral drain for caulking to 2" iron pipe and removable chrome plated strainer.

FINISH: To be high acid and alkali resistant Duracron enamel in color as selected. Jamb trim to be polished stainless steel.

ACCESSORIES: Cabinet to be furnished with chrome plated curtain rod and soap dish and drilled for valves and shower head by others.

NOTE: If glass shower door desired, write Home Office for details and types recommended and available.


82"
6"
Locking Hook
Back Wall
Apply Mastic Before Locking Rear Corner
Side Wall
Top Frame
20 Ga. Steel Galvanized & Bonderized
Phenolic Resin Impregnated Filler
1"
Screw
Set in Mastic
Precast Terrazzo Receptor
Removable Strainer Plate
36"

FRONT ELEVATION

DETAIL OF REAR CORNER SHOWING PANELS LOCKED IN PLACE

SECTION

VERTICAL SECTION

CONSTRUCTION DETAILS

Ferrolux Shower Cabinet

An exceptionally rugged, self-contained shower unit with high, inherent structural strength, the Ferrolux shower cabinet yet possesses an extremely attractive and modern appearance. Insulated and sound-deadened sidewalls eliminate objectionable drumming so apparent in single sheet type of cabinets. Walls are fabricated of galvanized bonderized steel facing sheets cemented to a phenolic resin impregnated core. Back corner joints are locked rigidly by six hooks in tension per side; top frame of 16 gauge steel tubing secured to sidewalls assures a completely integral unit. Receptor is 6" high and 3" thick at wall connection and made of reinforced Terrazzo concrete in black and white. Inside face is acid etched for slip proofing while outside faces and threshold are polished; cast in drain for caulking to 2" pipe is provided with removable chrome plated strainer. Assembly and anchorage of sidewalls to receptor by means of rabbetted construction, indicated in detail opposite, assures a completely leak-proof joint. Sidewalls and top frame are finished with sensationally rust, alkali, and acid resisting Duracron enamel finish in colors as selected. Jamb trim is polished stainless steel. Furnished as standard with curtain rod, this unit can be provided with a glass shower door at optional extra. For complete information write Home Office or contact our local representative. Shipped knockdown and readily assembled in a completely leak-proof manner, unit is conveniently adopted to battery assembly in conjunction with matching Ferrometal SHR dressing stalls.

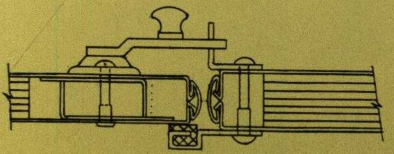
FERROMETAL PORCELUX

Vitreous Porcelain Enamel Finish

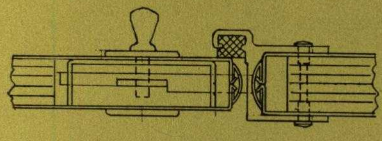
For the ultimate washroom appearance and life specify Ferrometal "Porcelux" vitreous porcelain enamel finish. The advantages are many — permanent fresh colors, glass hard abrasion resistance coupled with damp cloth cleansing eliminates damage from lipstick and pencil vandalism, acid resistance overcomes uric acid corrosion, completely sanitary surfaces are bacteria free and impervious to odor absorption.

The construction details shown below illustrate the superiority of Ferrometal design application of this superb finish. Solid slab construction is achieved by use of heavier gauge sheets than used on synthetic enamel types with complete periphery of panel welded on 12" centers. Continuous hinge alignment is secured by fixture positioned welded box channel reinforcements. Homogenous trim finish appearance is attained by matching materials and finishes of satin polished stainless steel cover mouldings, headrails and Ferrometal's stainless steel hardware.

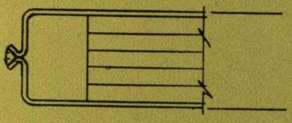
Other high performing materials such as vinyl coated steel and satin polished stainless steel are also made available by Ferrometal. Write for specification detail or consult our local representative.



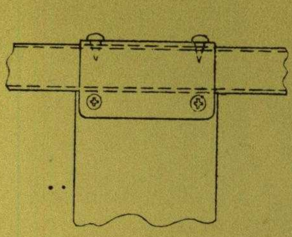
THROW LATCH



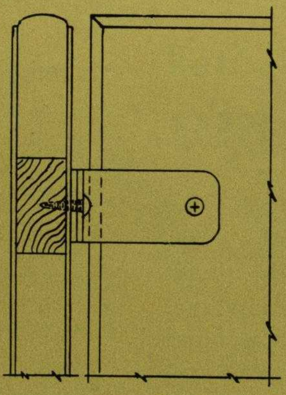
CONCEALED TURN BOLT



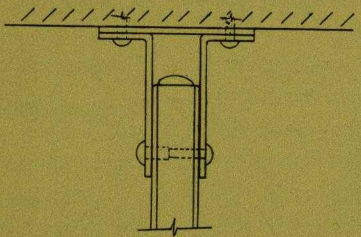
SECTION SHOWING EDGE FORMING AND WELDS



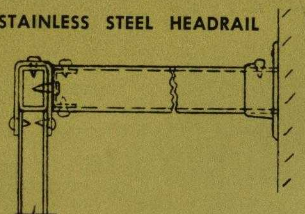
PILASTER TOP RAIL CONNECTION



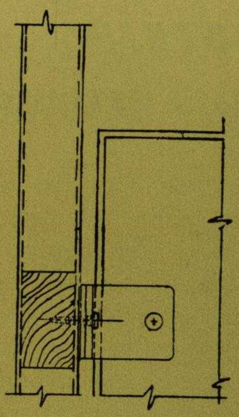
PANEL TO PILASTER CONNECTION (FT)



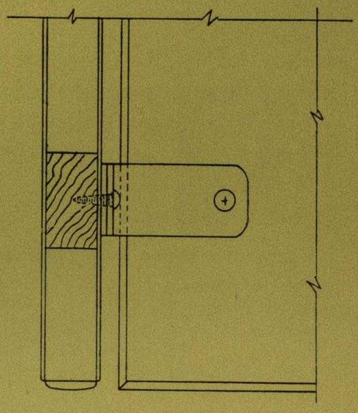
TYPICAL PANEL TO WALL CONNECTION



DETAIL SHOWING HEAD RAIL TO WALL

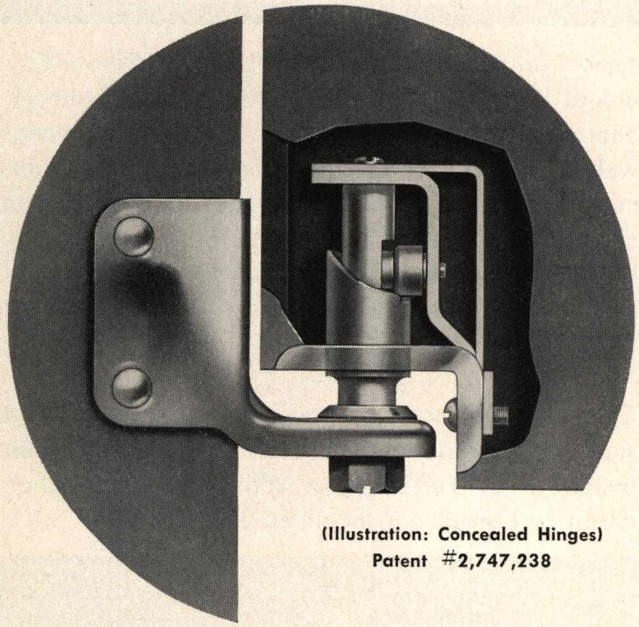


PANEL TO PILASTER CONNECTION (SHR)



PANEL TO PILASTER CONNECTION (CH)

Hardware and Accessories



(Illustration: Concealed Hinges)
Patent #2,747,238

NOTHING can equal Stainless Steel where HARDWARE gets HARD WEAR

No other material can match stainless steel in its combination of desirable physical properties. Extremely high tensile strength, hard outside, tough inside, solid and strong clear through, stainless steel is almost indestructible, not easily scratched, gouged or otherwise marred. Lustrous satin polished surfaces are non-tarnishing, non-chipping, permanent and easily maintained.

Ferrometal employs the use of stainless steel in all its hinging and latching mechanisms and was first and foremost in adapting this excellent material to lavatory hardware design. Heavy gauge wrought parts, smooth clean lines and lustrous polished finishes testify to over 60 years of experience in design, development, fabrication, assembly and finishing of builders and lavatory hardware for the industry.

Physical Features

Compare these advantages:

Physical features
tensile strength Psi — 125,000
modulus of elasticity lbs./in^{2}x10^6 - 29.0
hardness, Rockwell — B90 max.
impact valves, Izod, ft.-lb. - 89 min.

Corrosion resistance	
uric acid, conc.	unaffected
soaps	unaffected
ammonium hydroxide	unaffected
sodium hydroxide	unaffected

Concealed Matchless Gravity Hinge

Designed and developed by Ferrometal to satisfy a demand for superior hardware to withstand the abuse and rough usage experienced in washrooms, the concealed Matchless gravity hinge provides the ultimate in its assurance of continuous smooth operation and resistance to wear and destruction. Coupled with an inset top pivot with 3 point support, heavy gauge reinforcements, welded integrally with facing sheets of door, the matchless concealed gravity hinge assures many years of continuous use. Graphite impregnated bronze bushings and roller bearing ball race guarantee ease of operation. Field and laboratory tested over a number of years of experience.

Advantages

Superior strength

Attached to inside of door face — not to corner edge, structurally becoming part of door itself.

Easy to attach

Hinge is factory assembled into door, so that door needs only to be placed into bracket.

Trouble free operation

Universal gravity type hinge permits easy adjustment from outside of door in place.

Continuous alignment

Hinge and rigid steel door, built into one integral unit will prevent binding, bending or warping.

No loss of hinges

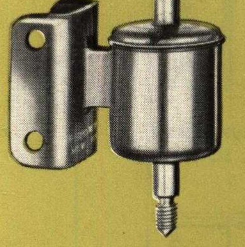
Factory installation of hinges in doors assures no misplacement of hinges or improper installations of same.

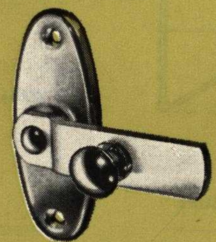
Easier maintenance

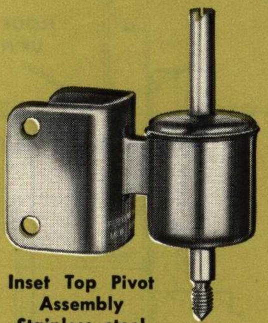
Cleaning is faster, more thorough—hinge is protected against vandalism and moisture.

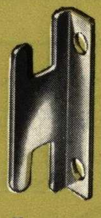
Ferrometal

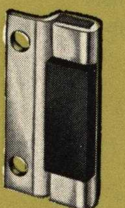
HARDWARE

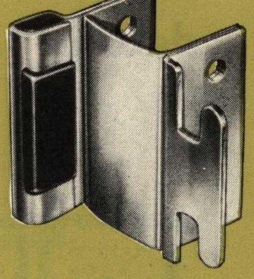

Inset Top Pivot
Assembly
Stainless Steel
SHR-2" Pilaster Only

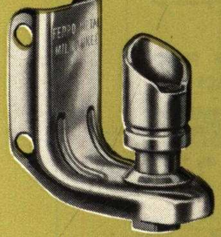

Throw Latch
Stainless steel
All types


Inset Top Pivot
Assembly
Stainless steel
All types

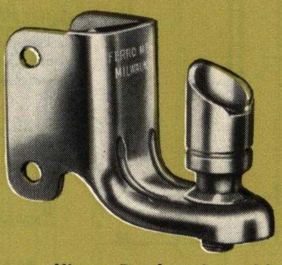

Keeper
Stainless steel
SHR - 2" Pilaster only


Bumper
Stainless steel
SHR - 2" Pilaster only

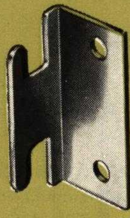

Strike & Keeper
Stainless steel
Type FT & CH

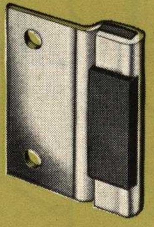


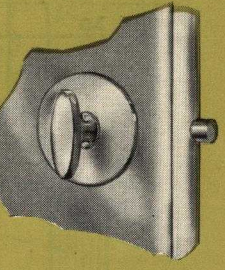
Lower Hinge Bracket Assembly
Stainless steel
SHR - 2" Pilaster only



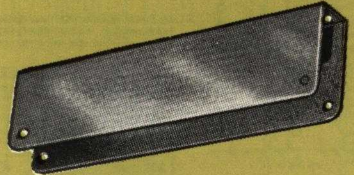
Lower Hinge Bracket Assembly
Stainless steel
All types

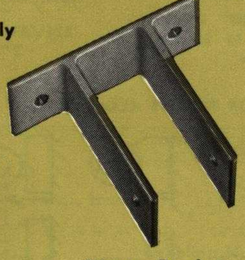

Keeper
Stainless steel
Type SHR

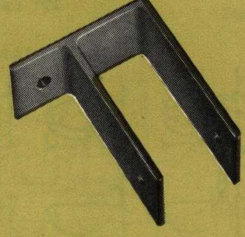

Bumper
Stainless steel
Type SHR

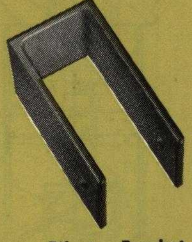

Concealed Turn Bolt
All Ferrometal Types

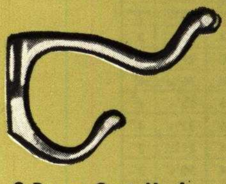
Door Pull
Outswing & Entry
Door

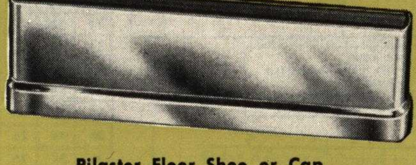

Headrail Channel
Type SHR


Stirrup Bracket and
Pilaster Bracket
Type FT & CH

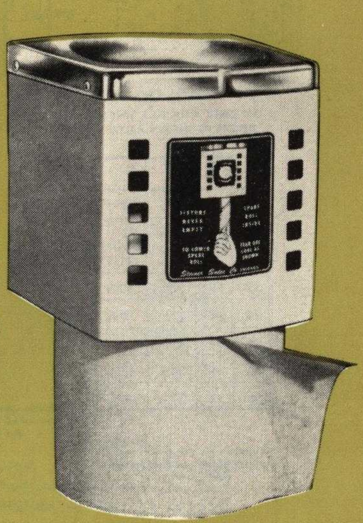

End Bracket


Pilaster Bracket
Type SHR only


2-Prong Coat Hook
Outswing Door


Pilaster Floor Shoe or Cap
Stainless Steel
All Ferrometal Types

Ferrometal
MILWAUKEE
Cabinet Paper Holder
Single or Double Fold



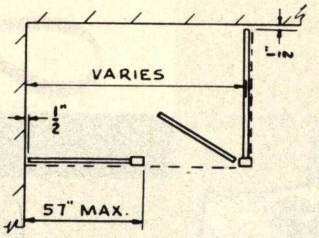
Coat Hook & Bumper
Inswing Door

Economy Roll
Paper Holder

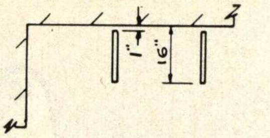
Ferrometal
MILWAUKEE
Roll Paper Holder
Friction braking

Steiner 2 Roll Dispenser
Available also from
paper dealer

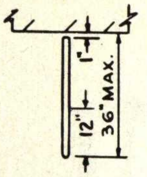
installation and construction details



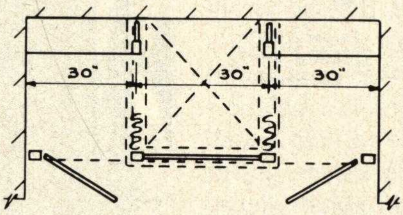
CORNER ENCLOSURE



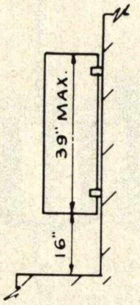
WALL HUNG URINAL SCREEN



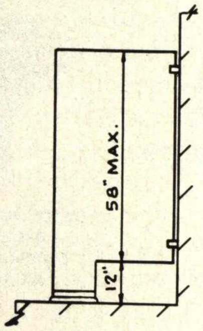
FLOOR SUPPORTED URINAL SCREEN



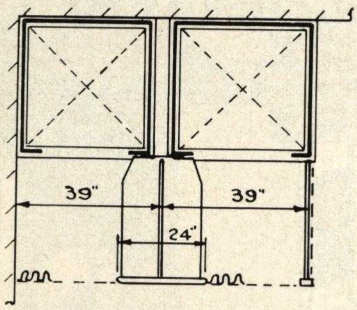
SHOWER WITH 2 DRESSING COMPARTMENTS
Curb by Others.



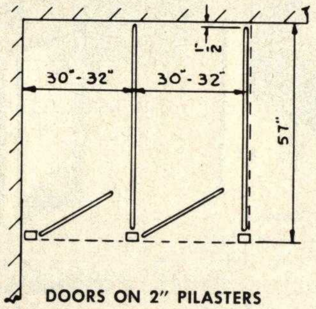
ELEVATION WALL HUNG URINAL



ELEVATION OF FLOOR SUPPORTED SCREENS
Do Not Exceed Recommended Dimension.

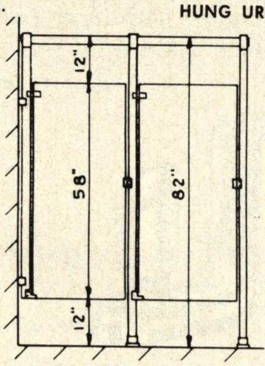


Ferrolux Shower Cabinets With Dressing Enclosures. For details of showers see page 12.

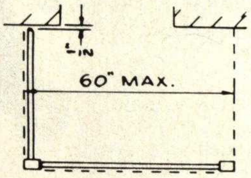


DOORS ON 2" PILASTERS

Recommended for 30" Center Enclosures, But Not to Exceed 32" Centers.

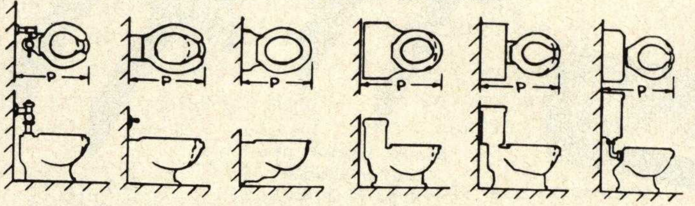


ELEVATION DOORS ON 2" PILASTERS



ENTRANCE SCREEN

TABLE OF FIXTURE CLEARANCES



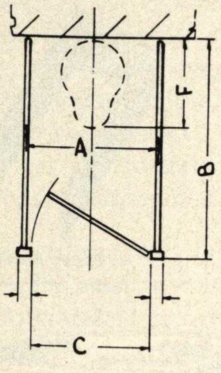
WATER CLOSET STANDARDS

P		BOWLS FOR DIRECT — FLUSH VALVE							
		REGULAR				ANGLE		WALL HUNG	
		S-J	R-T	WD	BO	S-J	BO	S-J	BO
P	ROUND	24" to 25½" 26" to 28" 25" to 27"	25" 25½"	22½" to 25½"	26"	None	20" to 26"		
	ELONG.	26" to 27½" 28" to 30" 27" to 29"	27" 27½"	None	24" to 28½"	25" to 27"	21½" to 28½"	24½" to 26"	20" 21½" to 26"

P		ONE PIECE			CLOSE COUPLED				LOW TANK		
		S-V	S-J	R-T	S-V	S-J	R-T	WD	S-J	R-T	WD
P	ROUND	27"		27½"	27"	26½" to 28½" 28"	25" to 28" 27"	26½" to 28½"	27"	27"	26" to 27"
	ELONG.	29"	29½"		29½"	29½" to 31" 30"	30"	None	29"	29"	None

S-V = SIPHON-VORTEX
S-J = SIPHON-JET
R-T = REVERSE-TRAP
WD = WASHDOWN
BO = BLOWOUT

ELONG = ELONGATED BOWL
ROUND = ROUND BOWL IS SHOWN DOTTED
OO = MOST COMMON
S = COMMERCIAL STANDARD CS 20-49 FOR VITREOUS CHINA FIXTURES



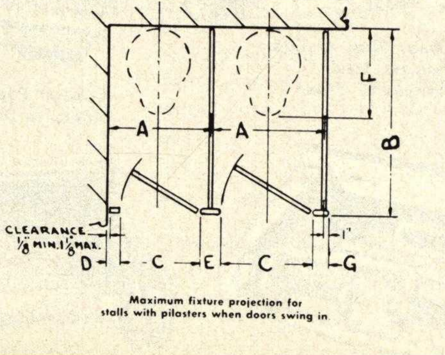
SHR ONLY WITH FULL WIDTH DOORS AS SHOWN ABOVE

A	B	C	F
30"	48"	28⅛"	23"
30"	57"	28⅛"	32"
32"	48"	30⅛"	21⅛"
32"	57"	30⅛"	30⅛"
34"	48"	32⅛"	19½"
34"	57"	32⅛"	28½"
36"	48"	34⅛"	17½"
36"	57"	34⅛"	26½"

Maximum fixture projection for stalls with full width doors when doors swing in.

A CENTER TO CENTER OF STALLS
B DEPTH OF STALL
C DOOR OPENING
D WALL PILASTER
E INTERMEDIATE PILASTER
F FIXTURE PROJECTION
G END PILASTER

Doors swing clear of fixture projection as listed 1" (one inch) when fixtures are on center line of stall.



Maximum fixture projection for stalls with pilasters when doors swing in.

FIXTURE PROJECTION ALLOWANCE CHART FOR FERROMETAL PARTITION ASBY'S. USING SHR, CH, OR FT TYPE CONST.

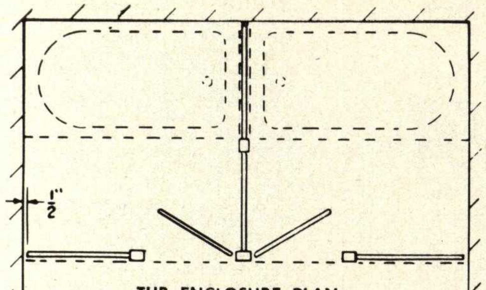
A	B	C	D	E	F	G
30"	48"	24"	3"	6"	25½"	4"
30"	57"	24"	3"	6"	34½"	4"
30"	48"	26"	2"	4"	24¾"	3"
30"	57"	26"	2"	4"	33¾"	3"
32"	48"	24"	4"	8"	26[illegible]"	5"
32"	57"	24"	4"	8"	35[illegible]"	5"
32"	48"	26"	3"	6"	24¾"	4"
32"	57"	26"	3"	6"	33¾"	4"
32"	48"	28"	2"	4"	23¼"	3"
32"	57"	28"	2"	4"	32¼"	3"
34"	48"	24"	5"	10"	27⅞"	6"
34"	57"	24"	5"	10"	36⅞"	6"
34"	48"	28"	3"	6"	23¼"	4"
34"	57"	28"	3"	6"	32¼"	4"
34"	48"	30"	2"	4"	21⅞"	3"
34"	57"	30"	2"	4"	30⅞"	3"
36"	48"	26"	5"	10"	24¾"	6"
36"	57"	26"	5"	10"	33¾"	6"
36"	48"	30"	3"	6"	21⅞"	4"
36"	57"	30"	3"	6"	30⅞"	4"
36"	48"	32"	2"	4"	19¾"	3"
36"	57"	32"	2"	4"	28¾"	3"

ABOVE ALL APPLY TO SHR FLUSH & PANEL
TYPES - CH & FT MINIMUM "E" - 8
TYPES - CH & FT MINIMUM "G" - 6

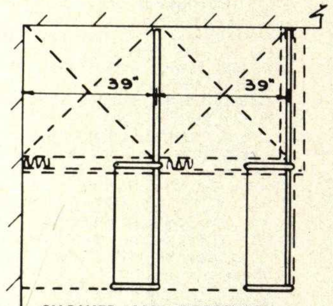
Ferrometal

INSTALLATION DETAILS

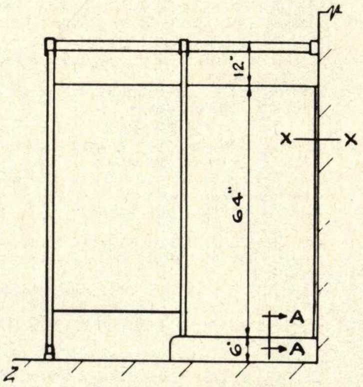
Plan & Elev. ¼" = 1'
Sections 3" = 1'



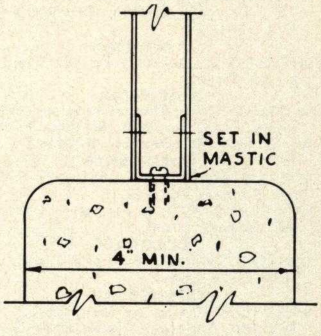
TUB ENCLOSURE PLAN



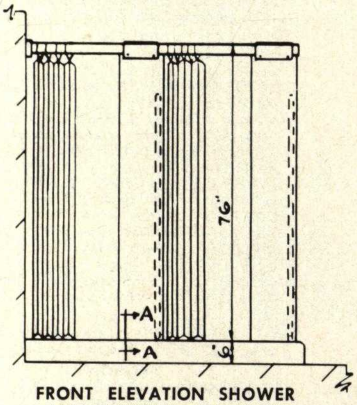
SHOWER AND DRESSING ENCLOSURE LAYOUT
Built up Curb by Others.



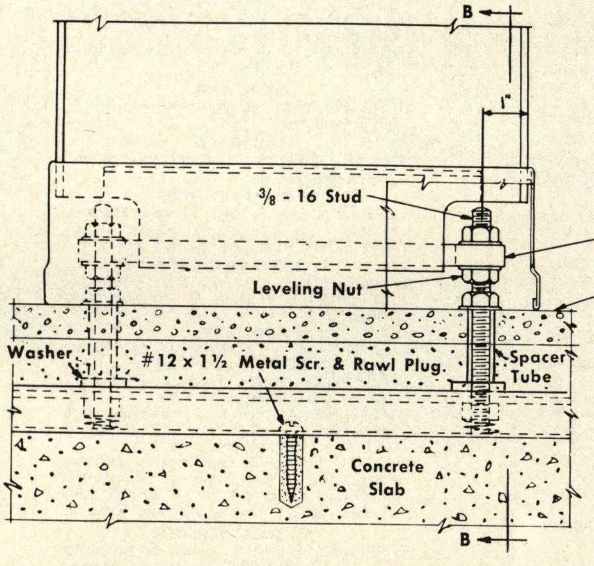
SIDE ELEVATIONS
Continuous Channel Along Wall.
See Details.


SET IN
MASTIC
4" MIN.

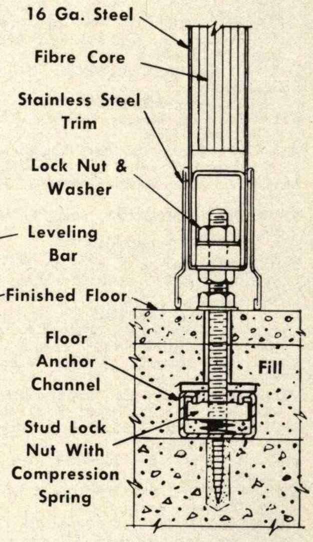
SECTION A-A
Detail of Pilaster Connection at Curb.
For Rabbeted Connection, Rabbet Must be 1⅜" Wide at Pilaster 1⅛" Wide at Divider



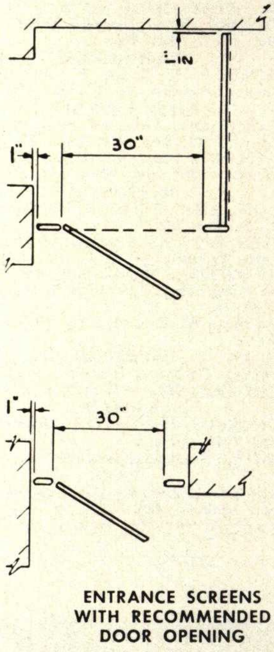
FRONT ELEVATION SHOWER AND DRESSING ASSEMBLY
Note Headrail Serves as Curtain Rod.


B
1"
⅜ - 16 Stud
Leveling Nut
Washer
#12 x 1½ Metal Scr. & Rawl Plug.
Spacer
Tube
Concrete
Slab
B

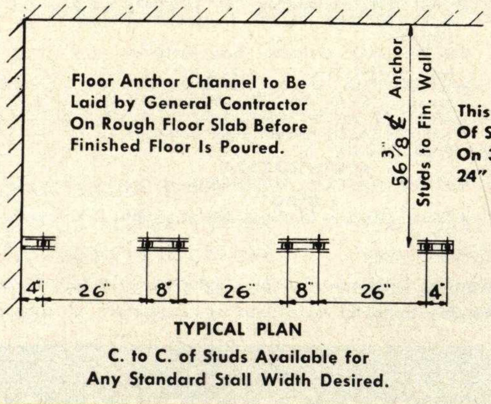
SECTION SHOWING FLOOR ANCHOR CHANNEL


16 Ga. Steel
Fibre Core
Stainless Steel
Trim
Lock Nut &
Washer
Leveling
Bar
Finished Floor
Floor
Anchor
Channel
Fill
Stud Lock
Nut With
Compression
Spring

SECTION B-B



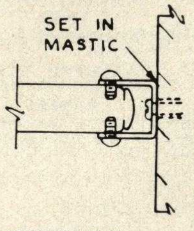
ENTRANCE SCREENS WITH RECOMMENDED DOOR OPENING


56⅜" ℄ Anchor
Studs to Fin. Wall
4"
26"
8"
26"
8"
26"
4"

Floor Anchor Channel to Be Laid by General Contractor On Rough Floor Slab Before Finished Floor Is Poured.

This Arrangement Of Studs for Stalls On 34" Centers With 24" Wide Doors.

TYPICAL PLAN
C. to C. of Studs Available for Any Standard Stall Width Desired.


SET IN
MASTIC

SECTION X-X
Detail of Continuous Wall Channel Connection for End Partition of Shower Layout.

Ferrometal

PARTITION REPRESENTATIVES

ALABAMA

MOBILE: Shearer & Rayford P. O. Drawer "E", Crichton Station, Telegrams—2504 Old Shell Rd.

ARKANSAS

LITTLE ROCK: Arkansas Foundry Co., 1501 E. 6th Street.

ARIZONA

PHOENIX: Baker-Thomas-Woolsey Wholesalers, P. O. Box 2410 (Mailing Address) 300 S. 12th St. (Delivery Address).

CALIFORNIA

LOS ANGELES: Petley, Inc., 5425 E. Slauson Avenue, Zone 22.
SAN FRANCISCO: R. A. Parker Company, 250 Seventh Street.

COLORADO

DENVER: Colorado Builder's Supply Co., 1534 Blake Street.

CONNECTICUT

WEST HARTFORD: The Elcin Corp., P. O. Box 181, Elmwood (Telegrams—25 Yale Street, Elmwood, West Hartford).

DISTRICT OF COLUMBIA

WASHINGTON: The Mathy Company, 1915 H Street N. W., Zone 6.

FLORIDA

JACKSONVILLE: Aichel Steel & Supply Company, 2205 Edison Avenue, Zone 3.
MIAMI: Sellco Metal Products, 3829 N.W. 37th Court.
ORLANDO: Southeast Steel Sales Co., 437 N. Garland, P. O. Box 299, (Sessco.) Cable Address.
TAMPA: Wagner Distributors, 1505 Grand Central.

GEORGIA

ATLANTA: L. E. Murray, Northside Station, P. O. Box 11975.
AUGUSTA: Slusky Builders Supplies, Inc., 1009 Broad Street.
MACON: Dixie Metal Company, 304 5th Street.
SAVANNAH: McCarthy, Inc., P. O. Box 624.

IDAHO

BOISE: Hal Brown, P. O. Box 966 (Mail Address), 2120 Sunrise Rim Rd. (Cable Address).

ILLINOIS

CHICAGO: Walter W. Mitchell Company, 549 W. Randolph Street, Zone 6.
DANVILLE: Material & Fuel Company, 705 Section Street.
DECATUR: Ornamental Metalwoorks Co., 440 South Franklin Street, P. O. Box 989.
MOLINE: Builders' Sales & Service Co., 202 34th Street.
PEORIA: Geo. B. Schneider Co., 3303 Prospect Rd.
SOUTH BELOIT: Beloit Bridge & Iron Co., 126 Shirland Avenue.
SPRINGFIELD: Peter Vredenburgh Lumber Co., 3rd and Jefferson Streets.

INDIANA

ELKHART: Miller Steel & Supply Co.. 920 N. Plum Street.
FORT WAYNE: Donald H. Erwin Sales, 2707½ South Calhoun.
HAMMOND: Standard Equipment & Supply Co., 5020 Hohman.
INDIANAPOLIS: M. S. Churchman Company, 1107 Burdsal Parkway, Zone 7.

IOWA

DES MOINES: Kennedy & Company, 110 S. E. 6th Street.
SIOUX CITY: Eugene F. Wilsey, P. O. Box 924 (Mailing Address).

KANSAS

TOPEKA: Building Specialties & Equipment Co., Inc., P. O. Box 1014, 603 Topeka Blvd.
WICHITA: Building Specialties & Equipment Co., Inc., P. O. Box 523, 1727 E. 2nd Street.

KENTUCKY

LEXINGTON: Russell Shrout Co., 451 Henry Clay Blvd.
LOUISVILLE: J. W. Shaughnessy Co., P. O. Box 144, Valley Station.
OWENSBORO: Universal Services, Inc., 2015 Parrish Avenue.

LOUISIANA

NEW ORLEANS: L. C. Lohman & Associates, P. O. Box 4164 (Mailing Address) 357 Broadway.

MAINE

TENANTS HARBOR: E. L. Matthews, Glenmere Road.

MARYLAND

BALTIMORE: Consolidated Supply Company, 2800 Sisson Street, Zone 11.

MASSACHUSETTS

BOSTON: Wills & Hill, Inc., 99 Bedford Street, Zone 11.
SPRINGFIELD: The Ridgewood Co., P. O. Box 86, Northampton.

MICHIGAN

DETROIT: Walter M. Rogers Company, 3123 E. Jefferson Avenue.
CHEBOYGAN: Northern Sales Company, Levine Bldg., Box 567.
GRAND RAPIDS: Ed. Brunhoff, P. O. Box 93-C, Zone 7.
KALAMAZOO: Mamer Supply Company, P. O. Box 947 (Wire), 219 S. Westnedge Avenue.
MARQUETTE: C. T. DeHaas Company, Kaufman Building, P. O. Box 89.
SAGINAW: Koehler Brothers, 2000 Holland Street.

MINNESOTA

MINNEAPOLIS: Hauenstein & Burmeister, Inc., 2629 30th Avenue, South, Zone 6.

MISSISSIPPI

JACKSON: Contractors Materials Company, 182 Gallatin Street, Box 3421, W. Jackson Station.

MISSOURI

KANSAS CITY: Houston Company & Associates, 3221 Troost Avenue.
ST. LOUIS: Building Products Company, 705 Chestnut Street, Zone 1.
SPRINGFIELD: Reynolds Manufacturing Co., P. O. Box 1065 S.S.S.

MONTANA

BILLINGS: Wm. M. Kennedy Co., 1145 N. 32nd Street.

NEBRASKA

OMAHA: Builder's Products Company, 3928 Lake Street

NEW HAMPSHIRE

NORTHERN HALF: See Tenants Harbor, Maine.
SOUTHERN HALF: See Boston, Mass.

NEW MEXICO

ALBUQUERQUE: Cobusco Steel Products, 2001 E. Gold Avenue, P. O. Box 4114, Station "A".

NEW YORK

ALBANY: Austin F. Loucks, Jr. and Company, 257 Quail Street, Zone 8.
LANCASTER: Bradco Products Company, 3815 Walden Avenue.
ROCHESTER: Homer R. Roodenburg, 100 Highland Avenue, Zone 20, (Airmail and Special Delivery Address).
WEBSTER: Homer R. Roodenburg, 648 Bay Road, (Reg. Mail, Wires, Literature).
SYRACUSE: Bilcon's Bldrs. & Contr. Specialties, 2846 S. Salina Avenue, Zone 5.

NORTH CAROLINA

ASHVILLE: Southern Sales Engineering Co., P. O. Box 1525.
CHARLOTTE: Construction Materials Co., 3826 Raleigh Street.
CHARLOTTE: Montague & Company, P. O. Box 633, 1231 W. Morehead St. (Wires).
GREENSBORO: Carolina Steel Corporation, Drawer F.
WILMINGTON: Queensboro Steel Corporation, P. O. Box 1376 (Mailing Address), 13 Wright Street.
WINSTON-SALEM: Salem Steel Company, P. O. Box 2091.

NORTH DAKOTA

SEE MINNEAPOLIS, MINNESOTA.

OHIO

AKRON: Botzum Brothers, 100 N. High Street.
CANTON: S. R. Detwiler Company, 718 McKinley Avenue.
CINCINNATI: Massco, Inc., 5300 Vine Street, Perlite Building, (St. Bernard).
CLEVELAND: C. F. Irelan, 405 Caxton Building.
COLUMBUS: Howard S. Sterner Company, 12 South Third Street.
DAYTON: Dayton Fabr. Steel Company, 1300 E. Monument Avenue.
YOUNGSTOWN: Reilly Metal Products, P. O. Box 2037.

OKLAHOMA

OKLAHOMA CITY: Engineering Services, P. O. Box 1076, 2211 N. W. 1st Street Terrace.
TULSA: Builder's Hardware & Supply Co., 123 E. First Street, Zone 3.

PENNSYLVANIA

ERIE: Electroweld Mfg. Company, 1301 Cranberry Street.
HARRISBURG: R. P. Campbell Company, 608 N. 17th Street.
PHILADELPHIA: Acousti-Craft Inc., 5242 Whitby Avenue, Zone 43.
PITTSBURGH: Engineering Sales Company, P. O. Box 7968, 550 McNeilly Rd.

SOUTH CAROLINA

CHARLESTON: Carolina Supply & Cement Company. P. O. Box 264, Zone 11.
SPARTANBURG: Piedmont Iron Works, Inc., P. O. Box 2498, Station "A".

SOUTH DAKOTA

RAPID CITY: North Central Supply, Inc., P. O. Box 187, 920 1-2 East St. Patrick Street.

TENNESSEE

KNOXVILLE: Construction Services Company, P. O. Box 3333, Zone 17.
MEMPHIS: Maury & Company, 1612 Lamar, P. O. Box 3753.
NASHVILLE: Builders Specialties, Inc., 1523 Demonbreun Street, Zone 3.

TEXAS

AUSTIN: Strauss-Frank Company, 2708 S. LaMar Blvd., Zone 4.
CORPUS-CHRISTI: Strauss-Frank Company, 601 Waco Street.
DALLAS: Volkmer & Kratz Building Products, 6638 Maple Avenue, Zone 35.
EL PASO: Modern Iron Works, Inc., 1600 E. Missouri Street.
FORT WORTH: Cain's Builders Supply Company, 1933 Vickery Blvd.
HOUSTON: Lehman Steel Products Company, 2423 Dunstan Rd., P. O. Box 6776.
LUBBOCK: Western Brick & Supply Company, 410 34th Street, P. O. Box 414.
SAN ANTONIO: Strauss-Frank Company, P. O. Box 8125, 3800 San Pedro, Zone 12.

UTAH

SALT LAKE CITY: Cobusco Steel Products, 660 W. S. Temple Street.

VERMONT

SEE TENANTS HARBOR, MAINE.

VIRGINIA

NORFOLK: Door Engineering Company, 700 Front Street, Zone 7.
RICHMOND: Cruickshanks Iron Works Co., Dineen Street and S.A.L.R.R.
ROANOKE: A. L. Horwitz, Boxley Building, P. O. Box 496.

WASHINGTON

SEATTLE: F. T. Crowe & Company, 329 Second Avenue, West, Zone 99.

WEST VIRGINIA

CHARLESTON: Fireproof Products Company, P. O. Box 2311, Zone 28.
WHEELING: Wm. N. Jasper (City Iron Works), 33rd and Water Streets.

WISCONSIN

BELOIT: Beloit Bridge & Iron Company, P. O. Box 782.
GREEN BAY: H. J. Martin & Son, 1338 Velp Avenue.
WAUWATOSA: Wauwatosa Fuel & Supply Company, 7700 West State Street, Zone 13.
WAUSAU: W. E. Grothaus, 721 McClelan Street.

WYOMING

CASPER: Colorado Builder's Supply Co., P. O. Box 480.

HAWAII

HONOLULU: Honolulu Iron Works, P. O. Box 3140, Zone 2.
(CABLE): Honiron Honolulu.

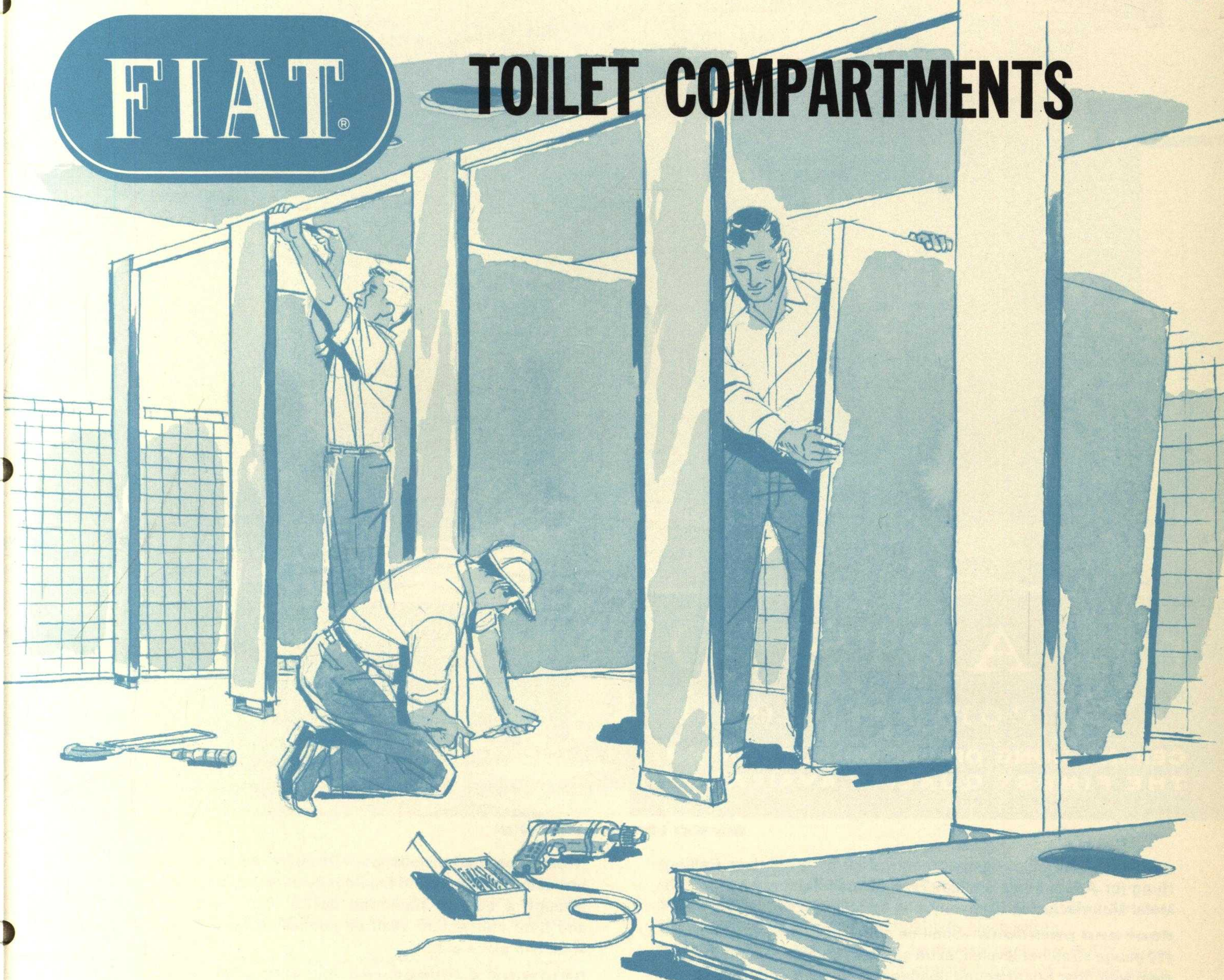
CUBA

HAVANA: Fiberglas Distributors, Inc., San Ignacio, No. 162.

Right is reserved to revise specifications, details and designs as may be required by Governmental restrictions or availability of materials.

MILWAUKEE STAMPING CO.
CHICAGO 51, ILLINOIS

FIAT® TOILET COMPARTMENTS

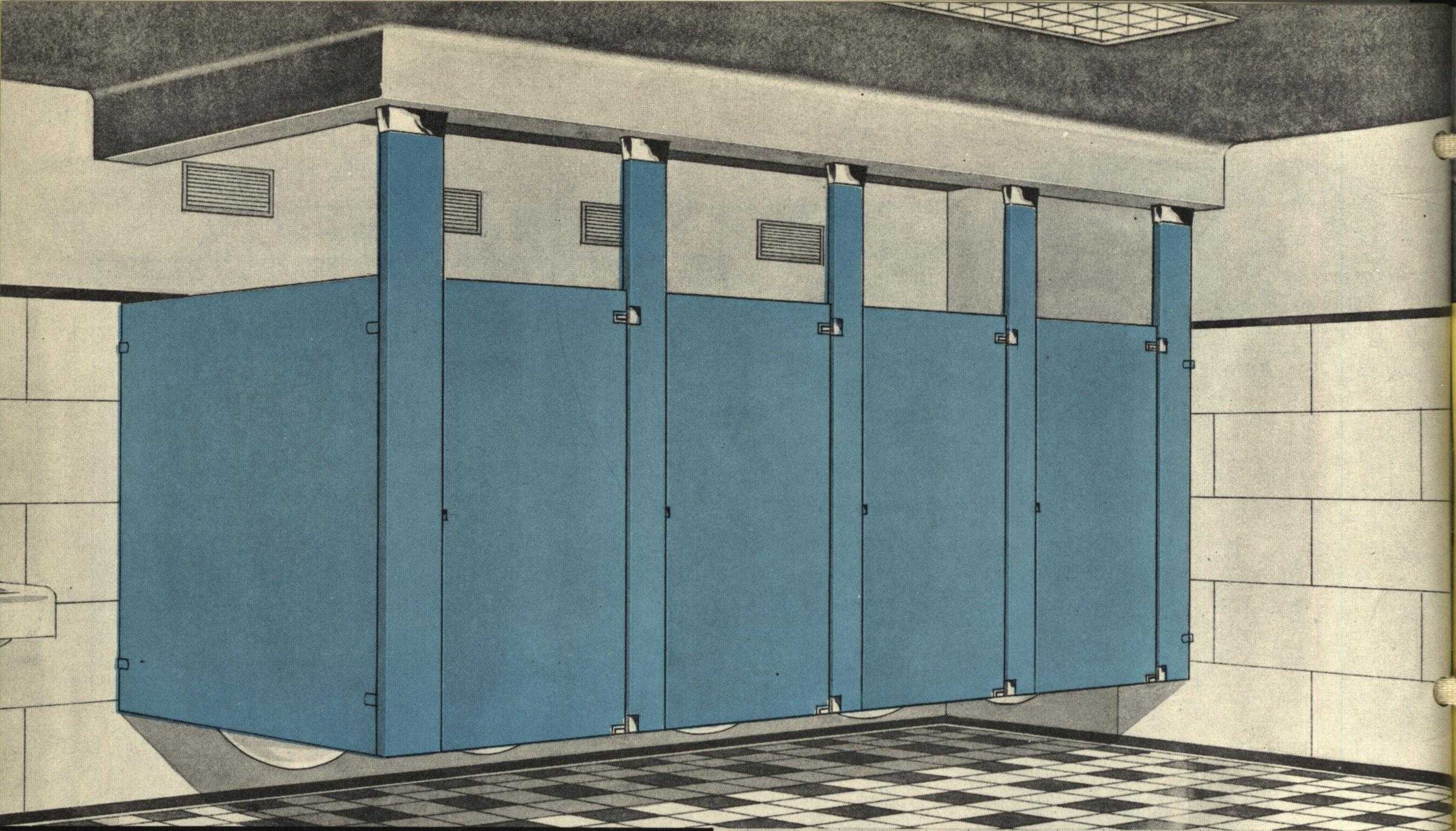


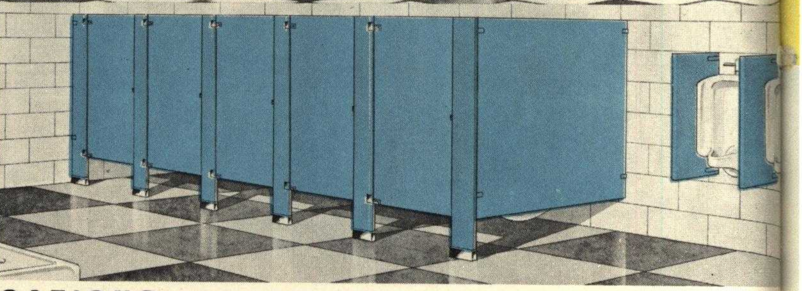
Simplify Specification—Speed Installation—Cut Costs

Compare quality . . . appearance . . . adaptability . . . availability . . . and price. You'll find that Fiat offers you the most!

Here are all-metal flush compartments built for beauty and endurance. Panels are of stretcher-leveled furniture steel, either galvanized-bonderized, or cold rolled steel. Hardware and connections are all of highest quality. *Finish* material is "Polycon," a silicon-fortified liquid plastic combination that has been heat cured and converted into a solid, tough film. "Polycon" was developed by FIAT after years of research—has an exceptionally high resistance to salt spray, humidity, sodium hydroxide and sulphuric acid.

The Fiat representative is qualified through experience to supply you with facts and figures that will save you time, trouble and money. He will be happy to consult with you on any special design problems. Call him soon for information on toilet compartments that'll put you *years ahead!*





FIAT ARISTO compartments

CEILING-HUNG OR FLOOR-SUPPORTED THE FINEST QUALITY AVAILABLE

SPECIFICATIONS

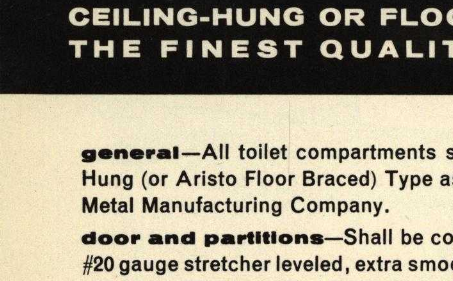
general—All toilet compartments shall be the Aristo Ceiling Hung (or Aristo Floor Braced) Type as manufactured by the Fiat Metal Manufacturing Company.

door and partitions—Shall be constructed of two sheets of #20 gauge stretcher leveled, extra smooth, bonderized-galvanized steel with fiber board sound deadener cemented uniformly to the metal. Doors and partitions shall be bound and interlocked under tension with drawn moulding welded on the corners.

pilasters—Shall be 1¼″ thick and constructed of two sheets of #16 gauge stretcher leveled, bonderized-galvanized steel cemented under pressure to a sound deadening core and interlocked together to form a tight tensile grip. (For Ceiling Hung installation)—Pilasters, when set in place, shall be securely anchored to the ceiling by means of Jack screw leveling through a built-in anchoring device. The top of the pilaster and ceiling connection shall be concealed by a 3″ high stainless steel plinth. (Floor supported installation)—Pilasters, when set in place, shall be securely anchored to the floor by means of Jack screw leveling through a built-in anchoring device. The bottom of pilasters and floor connection shall be concealed by a 3″ high stainless steel two piece plinth.

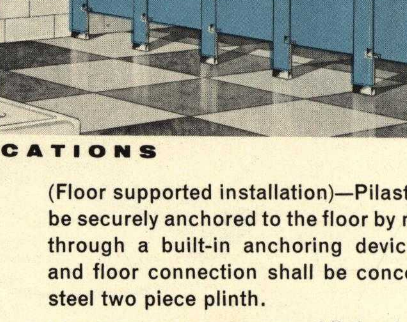
hardware & fittings—All hardware shall be FIAT "Life-Line" hardware with In-a-door gravity hinges of "Zytel" nylon and stainless steel pintle. Hinge brackets, keeper and bumper, coat hook and bumper, sliding door bolt, two-piece plinth and stirrup brackets to be stainless steel or non-ferrous metal brushed satin finished. Hardware shall be fastened with theft-proof screws.

finish—All surfaces to be thoroughly cleaned before finishing. Finish to be silicon reinforced poly plastic finish heat-cured for maximum protection and service life. Finish to be one color or one combination of two colors selected from Fiat's standard color chart.



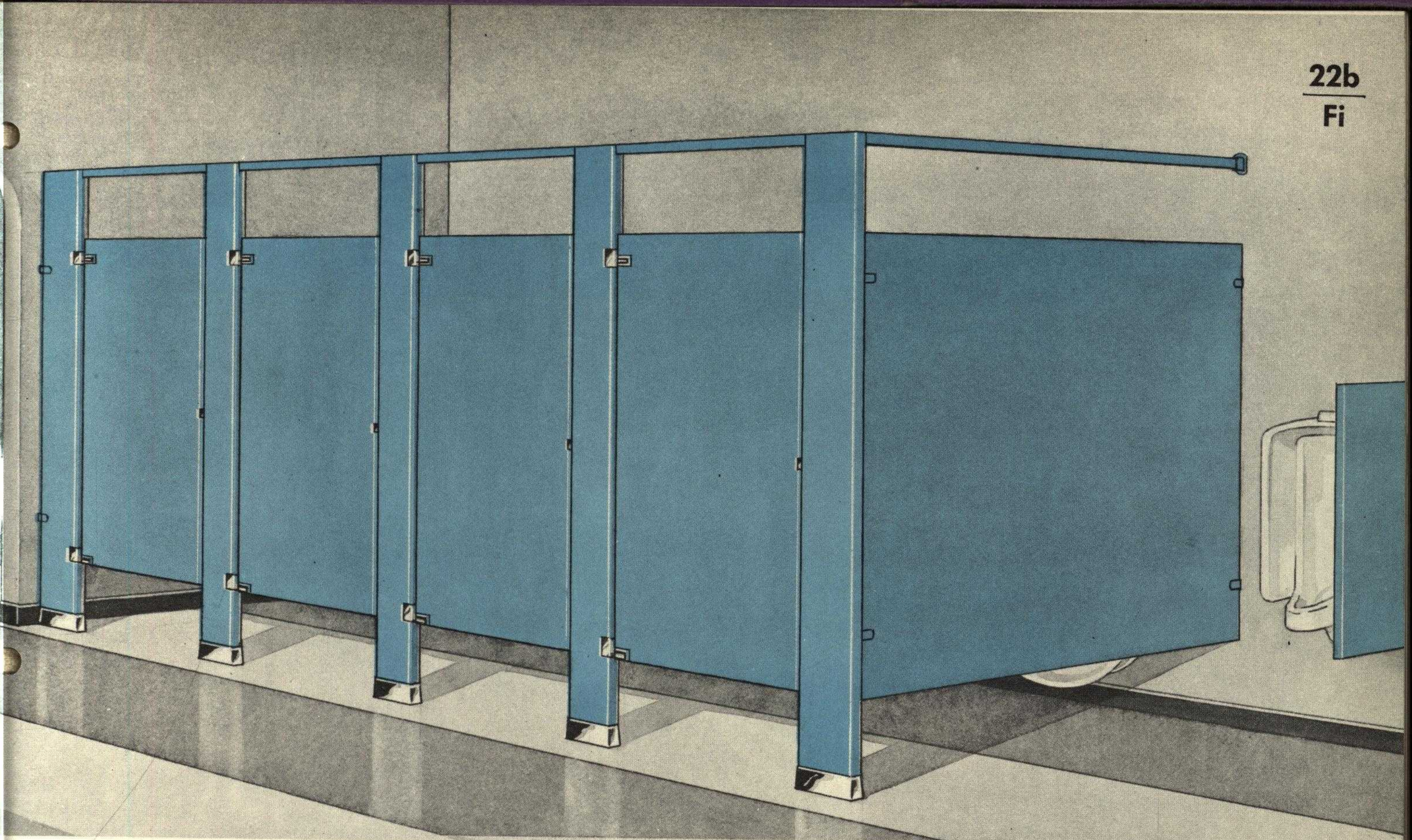
aristo jr. compartments

54″ high—for children in kindergarten and lower grades. These compartments have all the outstanding features of Aristo floor-supported models. Panels and doors are 6″ off floor; this keeps children in the confines of the compartment and discourages trips to adjoining compartments.



hospital cubicles

For hospital and institutional wards requiring semi-privacy . . . and cross ventilation without drafts . . . investigate Fiat cubicles. Special requirements can be met. Contact Fiat representative for complete information.



FIAT DURO compartments

MODERN, FLUSH-SURFACE DESIGN . . . HEADRAIL BRACED

SPECIFICATIONS

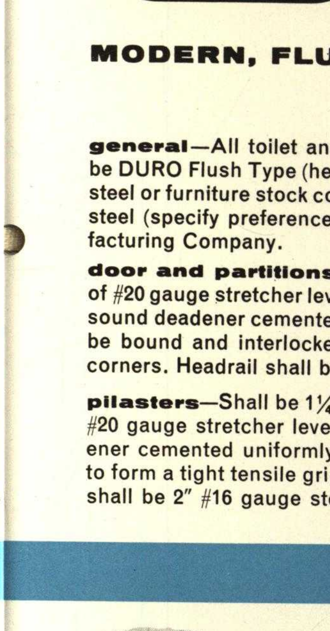
general—All toilet and shower dressing compartments shall be DURO Flush Type (headrail braced), of bonderized-galvanized steel or furniture stock cold rolled stretcher leveled, extra smooth steel (specify preference) as manufactured by Fiat Metal Manufacturing Company.

door and partitions—Shall be constructed of two sheets of #20 gauge stretcher leveled, extra smooth steel with fiber board sound deadener cemented uniformly to the metal. All edges shall be bound and interlocked with drawn moulding welded on the corners. Headrail shall be 1″ x 1½″ tubing.

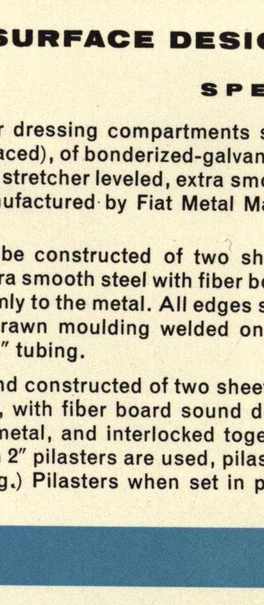
pilasters—Shall be 1¼″ thick and constructed of two sheets of #20 gauge stretcher leveled steel, with fiber board sound deadener cemented uniformly to the metal, and interlocked together to form a tight tensile grip. (When 2″ pilasters are used, pilasters shall be 2″ #16 gauge steel tubing.) Pilasters when set in place shall be securely anchored to the floor with an adjustable floor saddle and locking bolt. Plinth retainer to be integral with floor saddle. The base of pilasters and floor connection shall be concealed by a 3″ high stainless steel two piece plinth.

hardware & fittings—All hardware shall be FIAT "Life-Line" hardware with In-a-door gravity hinges of "Zytel" nylon and stainless steel pintle. Hinge brackets, keeper and bumper, coat hook and bumper, sliding door bolt and stirrup brackets shall be non-ferrous metal brushed satin finished. Two-piece plinth shall be stainless steel brushed satin finished. Hardware shall be fastened with theft-proof screws.

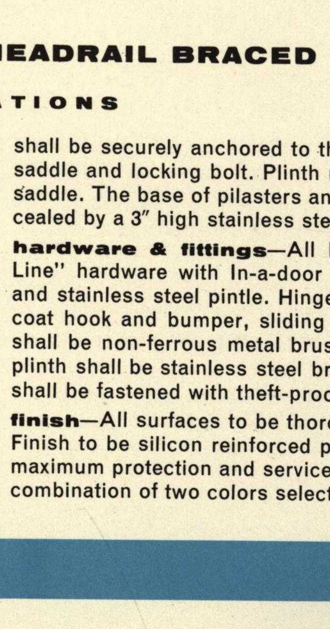
finish—All surfaces to be thoroughly cleaned before finishing. Finish to be silicon reinforced poly plastic finish heat-cured for maximum protection and service life. Finish to be one color or a combination of two colors selected from Fiat's color chart.



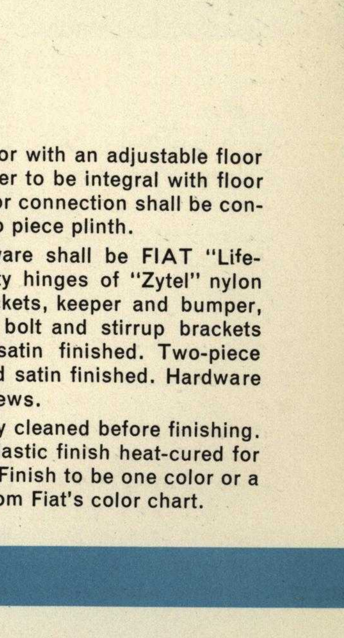
ENTRANCE SCREEN WITH DOOR
(or without door)



SIGHT SCREENS

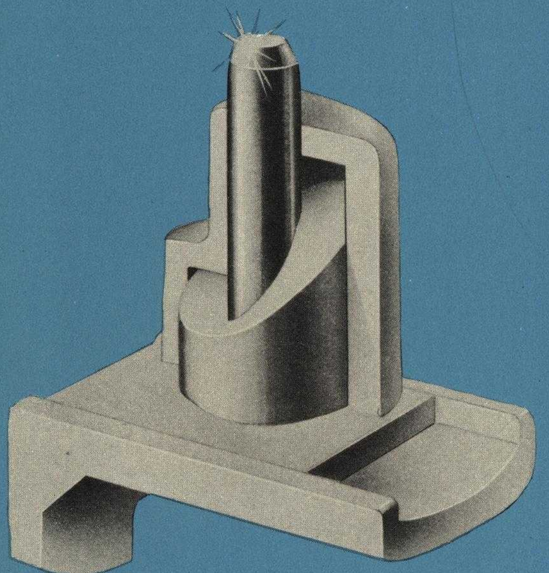


WALL HUNG URINAL SCREENS



FLOOR SUPPORTED
URINAL SCREENS

Features that put FIAT toilet compartments years ahead in styling, economy and service!



. . . with smooth-acting long lasting Zytel* Nylon Hinge—Here's a gravity hinge of durable nylon that NEVER needs care! No springs to replace . . . no undersized ball bearings to wear out . . . no periodic adjustments to make . . . no lubrication required. A million-cycle test revealed no visible signs of wear! This exclusive Fiat engineering development is just one of the reasons you'll be YEARS AHEAD with Fiat compartments!

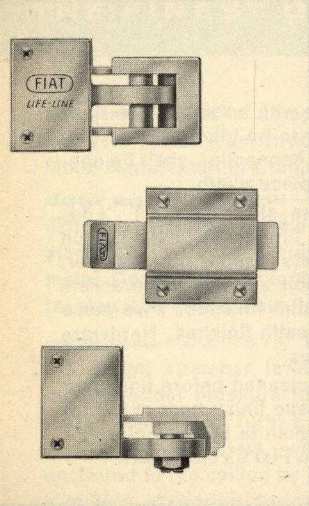
*DuPont T.M.

NO RUST

NO WEAR

NO NOISE

NO OILING



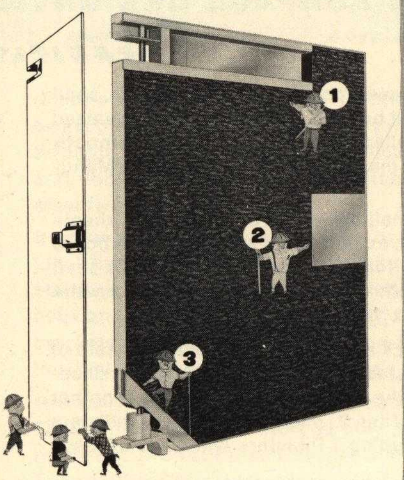
. . . with exclusive "Life-Line" hardware

TOP HINGE with Zytel Nylon bearing surface recessed indoor cut out. Can't corrode, remains chemically inert up to 450°F.

SLIDE BOLT works smoothly and surely, cushioned with nylon.

GRAVITY HINGE also concealed in door.

STIRRUPS newly designed to resist corrosion and permanently support compartments.



. . . with "golden gate" door

This door stands up to roughest use because it's engineered far beyond accepted standards. Here's the "inside story" in 3 parts: 1—Load equalizer distributes load away from top hinge, provides protection against such unusual loads as children swinging on door. 2—Impact absorber distributes shock of slamming over wide area. 3—Stress resistor provides basic side-to-bottom support and positively prevents door sway.

FIAT®

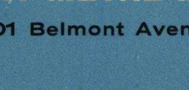
Send for complete catalog No. 570

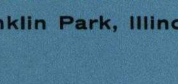
FIAT METAL MANUFACTURING COMPANY
9301 Belmont Avenue, Franklin Park, Illinois (Chicago suburb)

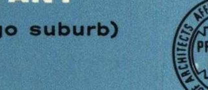
FIVE STRATEGICALLY LOCATED PLANTS

Long Island City 1, N.Y.

Franklin Park, Ill.


Los Angeles 63, Calif.


Albany, Georgia


Orillia, Ontario, Canada

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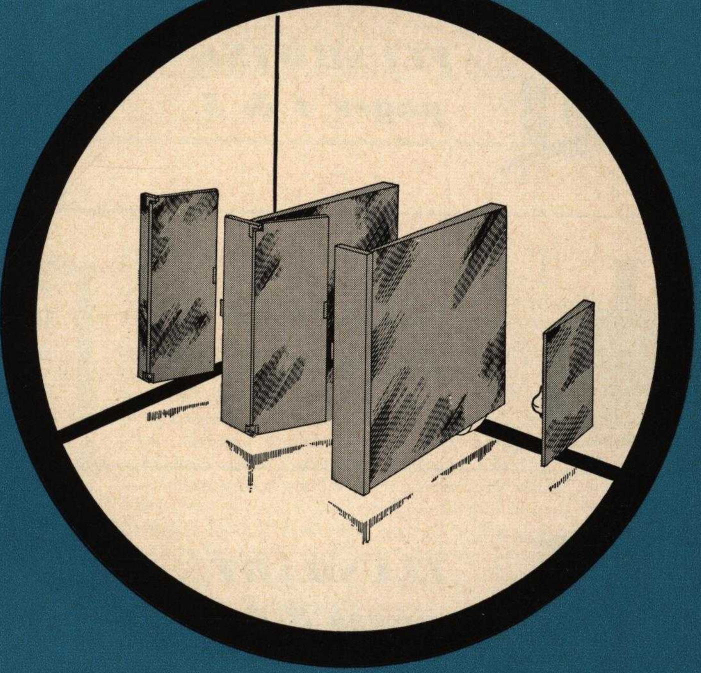
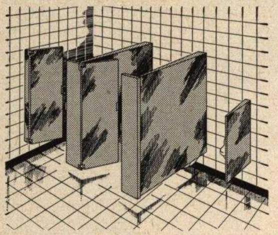


- toilet partitions
- hospital cubicles
- shower compartments

FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3880

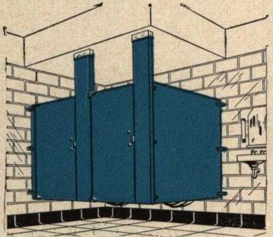
29 YEARS OF DEPENDABLE SERVICE



FLUSHWING®

pages 4 & 5

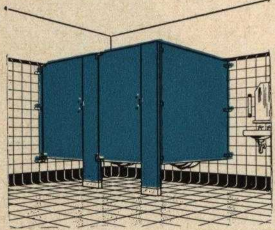
The most distinctive design available. Only wall support is required. Available in everlasting stainless steel or in synthetic baked enamel on galvanized bonderized steel.



FLUSHUNG

pages 3 & 6

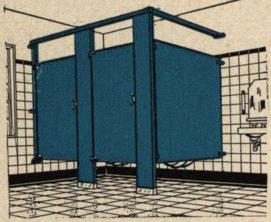
An unobstructed floor is made possible using Flushung construction. Available in everlasting stainless steel or in synthetic baked enamel on galvanized bonderized steel.



FLUSHART

pages 3 & 7

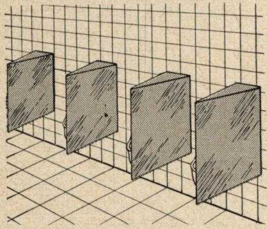
Modern clean lines for modern sanitary facilities. Available in everlasting stainless steel or in synthetic baked enamel on galvanized bonderized steel.



FLUSHITE

page 8

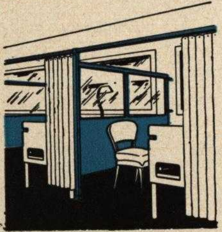
Pilaster construction with overhead bracing, which insures absolute rigidity. Available in galvanized bonderized steel with synthetic baked enamel finish.



URINAL SCREENS

page 9

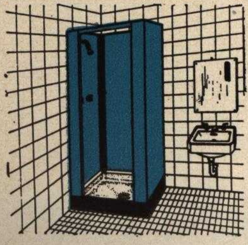
Wall-hung or floor-supported types, available in everlasting stainless steel or synthetic baked enamel on galvanized bonderized steel.



HOSPITAL CUBICLES

page 10

Flush panels prepared for glass—rigid, sound deadened, sanitary. Can be modified to suit any hospital requirement.



SHOWER COMPARTMENTS

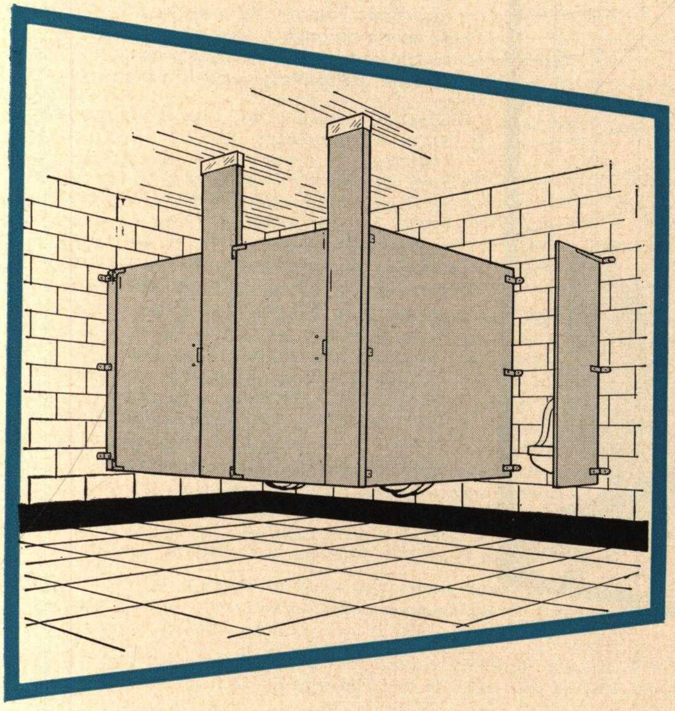
page 11

The finest shower unit available. Will not leak—no caulking compound required. Fewer parts—assembles easily in minutes. Clean looking—no overhangs on outside. Strong—heavier gauge steel than otherwise available. Economical—several models to fit any budget.

FLUSH-METAL PARTITION CORP.

THINK TO THE FUTURE WITH STAINLESS STEEL!

For unmatched beauty and durability, choose maintenance-free, life-time partitions of type 302, 18-8 nickel-chromium STAINLESS STEEL, available in No. 4 or No. 2B finish.



FLUSHUNG STAINLESS

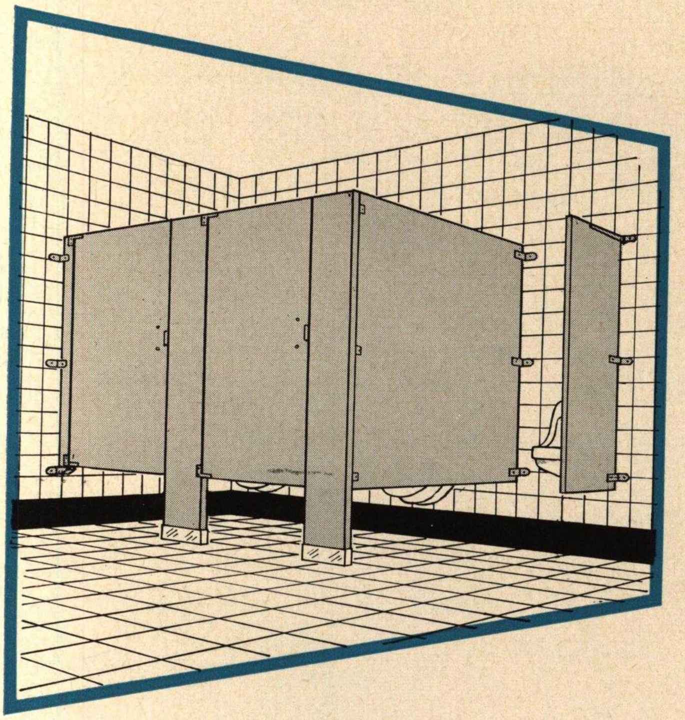
Toilet compartments shall be FLUSHUNG stainless as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge stainless steel sheets locked on all edges with 16 gauge 302 stainless steel 1¼" deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼" thick reinforced interlocked welded rigid unit. Corners to be welded and ground smooth. Upper part of pilasters to be reinforced with 14 gauge formed steel plates welded to ½" x 1" steel cross bar and to the vertical reinforcing channel moulding for fastening to hanging bolts.

PARTITIONS and **DOORS** to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge 302 stainless steel sheets locked on all edges with 18 gauge 302 stainless steel ¾" deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at 8 inch intervals, corners welded and ground smooth to make a 1" thick reinforced, welded rigid slab. Partitions to be fastened to the wall and to the pilaster with three 302 stainless steel brackets.

HARDWARE: Gravity hinge to be concealed in the door. Hinge brackets, latch and bumper hook to be solid forged brass, chromium plated. Combination strike and keeper to be 302 stainless steel.

FINISH: All stainless steel to have #4 or 2B finish.



FLUSHART STAINLESS

Toilet compartments shall be FLUSHART stainless as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge 302 stainless steel sheets locked on all edges with 16 gauge 302 stainless steel 1¼" deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to be a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼" thick reinforced, interlocked, welded rigid unit.

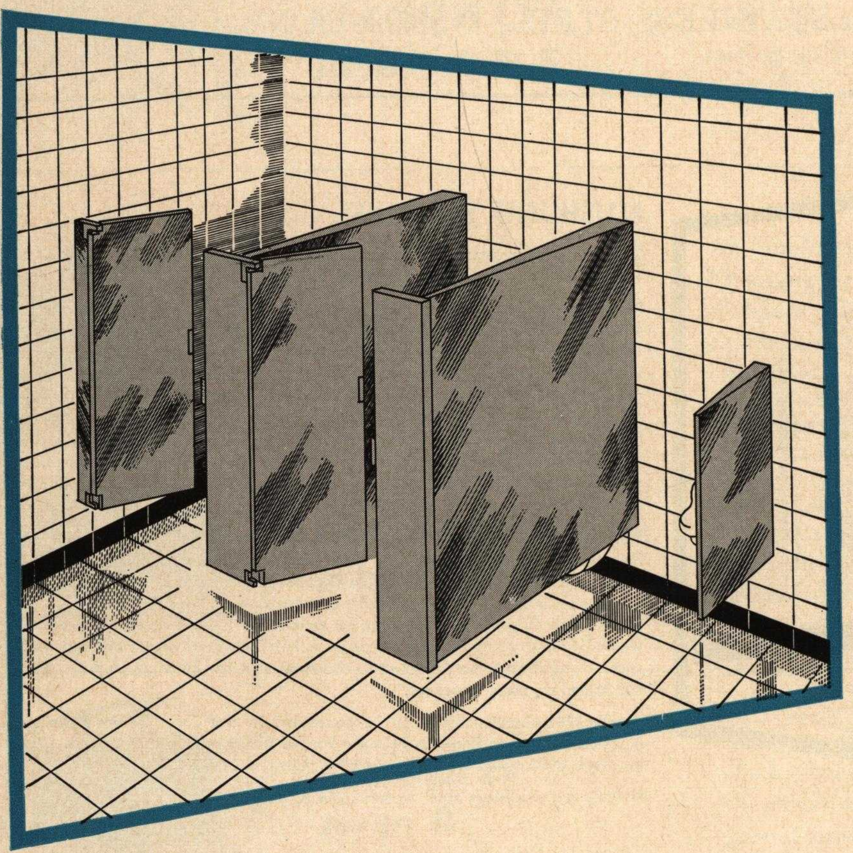
PARTITIONS and **DOORS** to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge 302 stainless steel sheets locked on all edges with 18 gauge 302 stainless steel ¾" deep, continuous, drawn, interlock edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at 8 inch intervals, corners welded and ground smooth to make a 1" thick reinforced, welded rigid slab. Partitions to be fastened to the wall and to the pilaster with three 302 stainless steel brackets.

HARDWARE: Gravity hinge to be concealed in the door. Hinge brackets, latch and bumper coat hook to be solid forged brass, chromium plated. Combination strike and keeper to be 302 stainless steel.

FINISH: All stainless steel to have #4 or 2B finish.

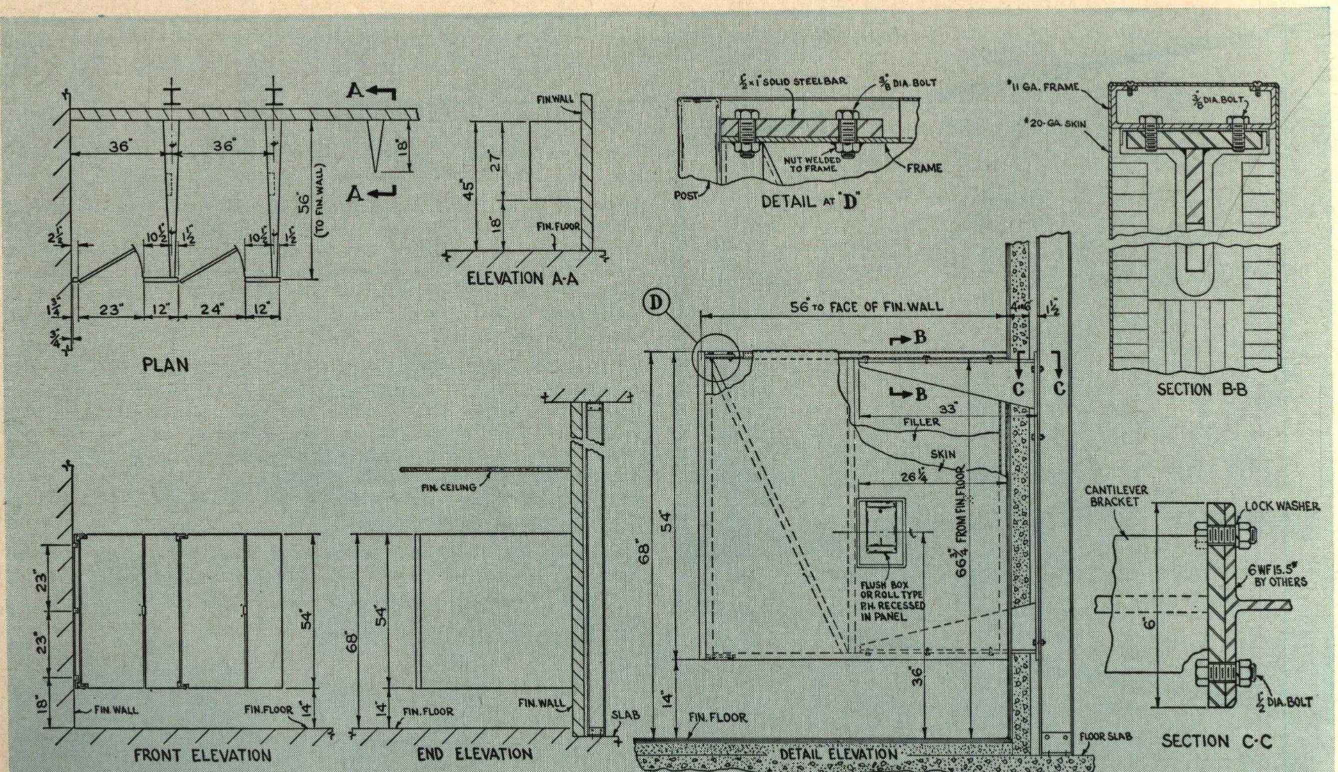
YOUR BUILDING DESERVES THE BEST ►

A NEW CANTILEVER DESIGN BY FLUSH-METAL PARTITION CORP.



The most modern toilet partition in lustrous stainless steel or colorful baked enamel finish, Flushwing partitions are the final complement to your modern building. Flushwing's appeal is not limited to its smooth modern lines but extends to the distinctive sanitary characteristics of this completely wall-hung partition.

Quality engineered, the Flushwing design incorporates all of the desirable features of older types of partitions as well as many completely new innovations in the partition field. Since the entire partition is cantilevered from the wall, no pieces extend to the floor, and therefore rusting due to mopping is no longer a problem. No drop ceilings are needed for support of Flushwing. Paperholders are built into the partition itself. Cantilever brackets are welded to a back plate for firmness, and an 11 gauge steel frame is welded with vertical and diagonal reinforcing ribs. Flushwing partitions are available in both 302 stainless steel and baked enamel.


A
36"
36"
18"
56" (TO FIN. WALL)
$2\frac{1}{2}$"
$10\frac{1}{2}$"
$1\frac{1}{2}$"
$1\frac{3}{4}$"
23"
12"
24"
12"
$\frac{3}{4}$"
PLAN
FIN. WALL
45"
27"
18"
FIN. FLOOR
ELEVATION A-A
$\frac{1}{2}$" x 1" SOLID STEEL BAR
$\frac{3}{8}$" DIA. BOLT
NUT WELDED TO FRAME
FRAME
POST
DETAIL AT "D"
#11 GA. FRAME
#20-GA. SKIN
$\frac{3}{8}$" DIA. BOLT
SECTION B-B
D
56" TO FACE OF FIN. WALL
4 or 6
$1\frac{1}{2}$"
B
C
33"
FILLER
SKIN
$26\frac{1}{4}$
FLUSH BOX OR ROLL TYPE P.H. RECESSED IN PANEL
$66\frac{3}{4}$" FROM FIN. FLOOR
68"
54"
36"
14"
FIN. FLOOR
FLOOR SLAB
DETAIL ELEVATION
CANTILEVER BRACKET
LOCK WASHER
6 WF 15.5# BY OTHERS
6"
$\frac{1}{2}$" DIA. BOLT
SECTION C-C
FIN. CEILING
23"
23"
54"
18"
FIN. WALL
FIN. FLOOR
14"
FRONT ELEVATION
68"
54"
14"
FIN. FLOOR
FIN. WALL
SLAB
END ELEVATION

FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3380

FLUSHWING® *toilet compartments*

THE PARTITION OF TOMORROW IN STAINLESS STEEL OR BAKED ENAMEL

specification

Toilet compartments shall be FLUSHWING as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

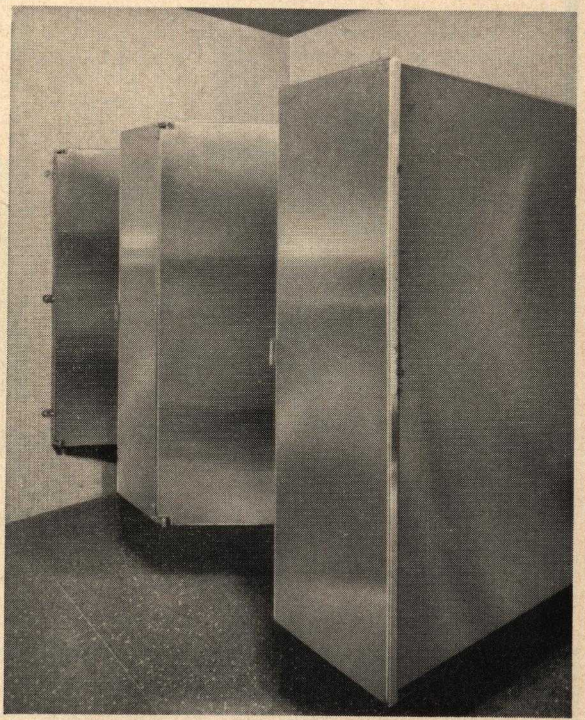
PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge 302 stainless steel (or galvanized, bonderized, stretcher-levelled steel) sheets locked on all edges with 16 gauge 1¼″ deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼″ thick reinforced, interlocked, welded rigid unit.

DOORS to be FLUSHSEAL CONSTRUCTION made of two formed not less than 20 gauge 302 stainless steel (or galvanized, bonderized, stretcher-levelled steel) sheets locked on all edges with 18 gauge ¾″ deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at 8 inch intervals, corners welded and ground smooth to make a 1″ thick reinforced welded rigid slab.

PARTITIONS to be made of two sheets of 20 gauge 302 stainless steel (or galvanized, bonderized, stretcher-levelled steel) sheets formed into a pan shape and welded to an 11 gauge steel reinforced skeleton frame to form a single rigid wedge shaped unit. Inside surfaces of partitions to be sound-deadened with 1″ thick kraft honeycomb filler. Inside reinforcing members of partitions shall be made to receive "T" wall support brackets and pilaster connecting brackets. "T" wall support brackets shall be of ½″ steel plate welded construction with upper and lower brackets welded to a common ½″ steel plate which is fastened to a supporting steel column. (This supporting column is required behind each partition and must be provided for in another specification.) All connecting bolts to be concealed and there shall be no projecting fittings at wall or pilaster. Tops and bottoms of partitions, doors and pilasters to be in one plane.

HARDWARE: Gravity hinge to be concealed in door. Hinge brackets, latch and bumper coat hook to be solid forged brass, chromium plated. Combination strike and keeper to be stainless steel.

FINISH: 302 stainless steel, #4 or 2B finish, (or two coats of 24 standard colors premium quality synthetic baking enamel, baked over rust and chemical resistant primer.)



Distinctive toilet partitions in lifetime stainless steel in the UAW Building in Detroit, Michigan.

FLUSHWING PARTITIONS HAVE BEEN INSTALLED AT THESE LOCATIONS:

ARCH RESTAURANT, SHORT HILLS, NEW JERSEY
Architect: Emil A. Schmidlin
General Contractor: Stephen Palmisano and Sons

UNITED AUTOMOBILE WORKERS OF AMERICA BUILDING, DETROIT, MICHIGAN
Architect: Oskar Stonorov
General Contractor: John Cooley Company

MUNICIPAL UTILITY DISTRICT OFFICE BUILDING, SACRAMENTO, CALIFORNIA
Architect: Dreyfuss and Blackford
General Contractor: Continental-Lawrence Construction Company

AZTEC JUNIOR HIGH SCHOOL, AZTEC, NEW MEXICO
Architect: Garland and Philippi
General Contractor: H. R. McBride

UNIVERSITY OF PENNSYLVANIA, PHILADELPHIA, PENNSYLVANIA
Architect: Louis I. Kahn
General Contractor: Joseph R. Farell, Inc.

CLARKE COUNTY AIRPORT AIR TERMINAL, ATHENS, GEORGIA
Architect: Heery and Heery
General Contractor: M. B. Logan and Sons

JAMES M. GRIMES ELEMENTARY SCHOOL, MOUNT VERNON, NEW YORK
Architect: Arthur Peyser
General Contractor: Di Vito Construction Company

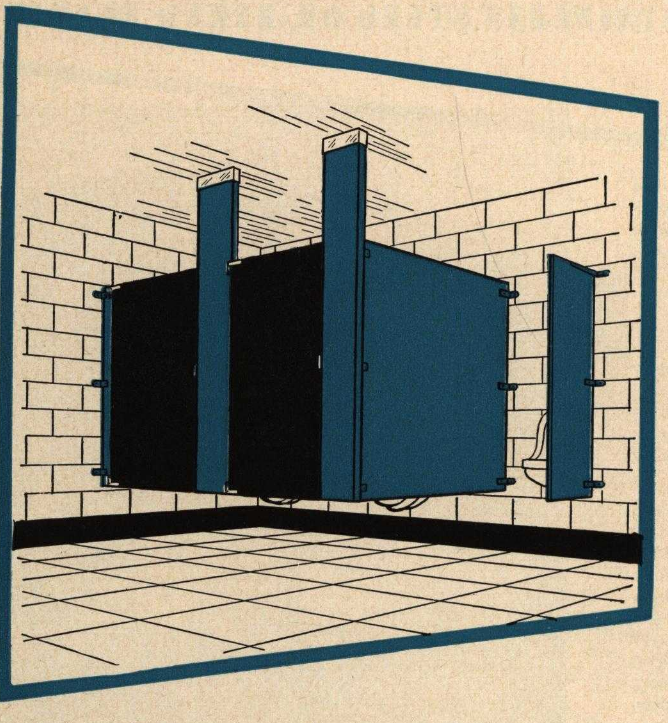
EDISON VOCATIONAL-TECHNICAL HIGH SCHOOL, MOUNT VERNON, NEW YORK
Architect: Arthur Peyser
General Contractor: Di Vito Construction Company

FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3380

toilet compartments

FLUSHUNG



FLUSHUNG compartments have become increasingly popular in modern toilet rooms and have been used where sanitation is the first consideration. When used with wall hung fixtures and set 14″ off the floor they provide an unobstructed floor for most efficient cleaning. The FLUSHSEAL internally reinforced welded construction of the pilasters, doors and panels is essential for a rigid suspended installation. The doors should swing into the compartments and be hinged close to one side of the enclosure to provide maximum space at the latch side. (See layout "B" page 13.) For the suspension of the pilaster, this type of partition requires a structural member (not in the toilet partition specification) to be placed not over 7′-7″ from the finished floor.

specification

Toilet compartments shall be FLUSHUNG as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

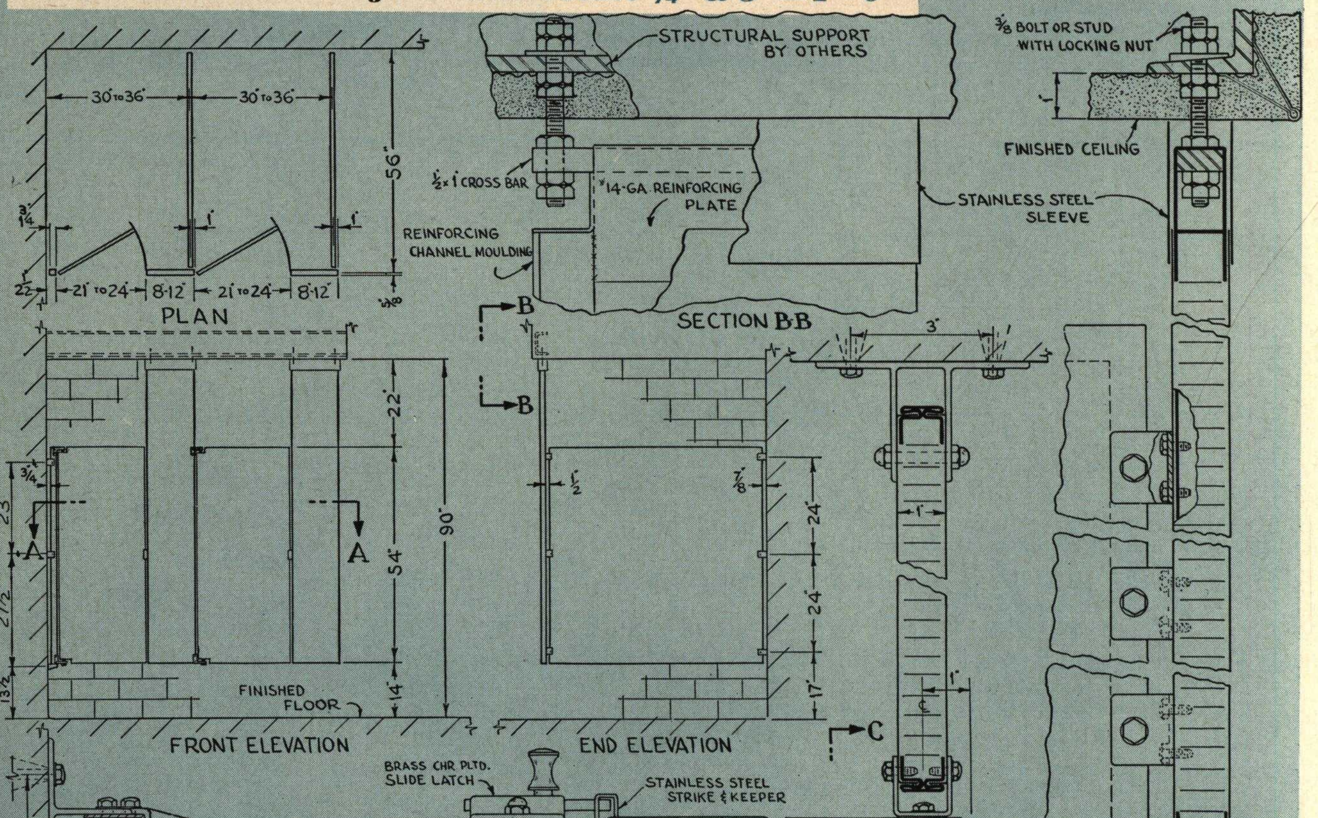
PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 18 gauge galvanized, bonderized, stretcher-levelled steel sheets locked on all edges with 16 gauge 1¼″ deep, continuous, drawn, internal edge reinforcing, interlock channel mouldings, cemented under pressure to a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼″ thick reinforced, interlocked, welded rigid unit. Corners to be welded and ground smooth. Upper part of pilasters to be reinforced with 14 gauge formed steel plates welded to ½″ x 1″ steel cross bar and to the vertical reinforcing channel moulding for fastening to hanging bolts.

PARTITIONS and **DOORS** to be FLUSHSEAL CONSTRUCTION using two formed not less than 20 gauge galvanized, bonderized, stretcher levelled steel sheets locked on all edges with 16 gauge ¾″ deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at frequent intervals, corners welded and ground smooth to make a 1″ thick reinforced, welded rigid slab. Partitions to be fastened to the wall with three heavy wrought steel (or 302 stainless steel if specified) brackets using six #14 special hex. washer head, hardened steel, plated screws with alloy expansion shields, and fastened to pilasters with three 14 gauge wrought steel (or 302 stainless steel if specified) brackets.

HARDWARE: Gravity hinge concealed in door. Hinge brackets, latch and bumper coat hook to be solid forged brass, chromium plated. Combination strike and keeper to be 302 stainless steel.

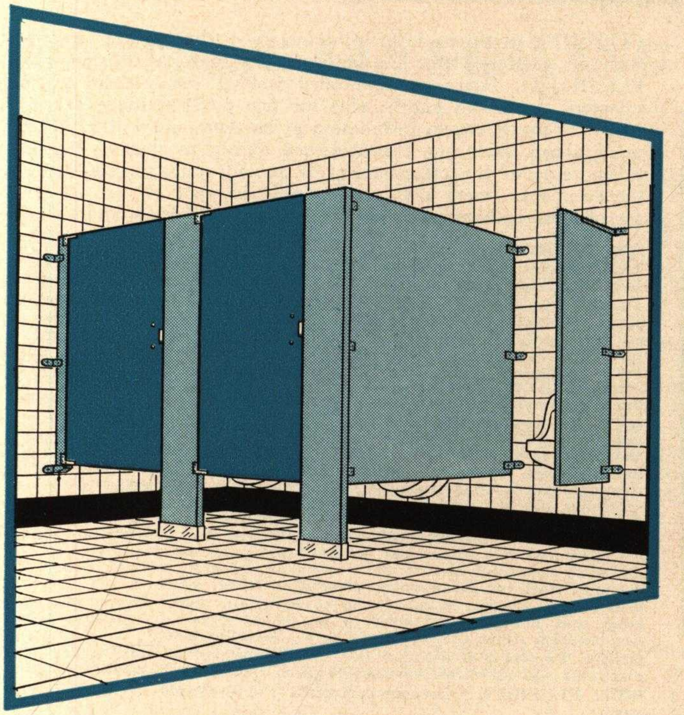
FINISH: Two coats of premium quality synthetic baking enamel, baked over rust and chemical resistant primer. Choice of 24 standard colors.

installation and design details . scale ¼″ & 3″ = 1′-0″


30″ to 36″
30″ to 36″
56″
3/4″
1″
1″
22″
21″ to 24″
8-12″
21″ to 24″
8-12″
5/8″
PLAN
STRUCTURAL SUPPORT BY OTHERS
½″x1″ CROSS BAR
14-GA. REINFORCING PLATE
REINFORCING CHANNEL MOULDING
STAINLESS STEEL SLEEVE
3/8 BOLT OR STUD WITH LOCKING NUT
FINISHED CEILING
SECTION B-B
B
B
3″
22″
3/4″
23″
A
A
27½″
54″
90″
13½″
14″
FINISHED FLOOR
FRONT ELEVATION
½″
7/8″
24″
24″
17″
1″
1″
END ELEVATION
C
C
BRASS CHR PLTD. SLIDE LATCH
STAINLESS STEEL STRIKE & KEEPER
3″
1″
1¼″
DOOR
PILASTER
SECTION A-A
SECTION C-C
A.P.D

FLUSHART

toilet compartments



FLUSHART toilet compartments give a modern touch to the up-to-date rest room. The tops of the pilasters, panels, and doors are in one plane and, because there is no overhead bracing (from which children are apt to hang), the rigid units made possible by FLUSHSEAL reinforced welded construction are a must. Flushart compartments require a solid floor fastening for a rigid installation. Three floor fastenings are used for pilasters over 6" wide. Pilasters should be kept at right angles to partitions with doors swinging into the compartments, close to one side of the enclosure to provide maximum space at the latch side. Panels and doors should be kept 14" off the floor for easier cleaning and 5'-8" to the top for light and spaciousness.

specification

Toilet compartments shall be FLUSHART as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

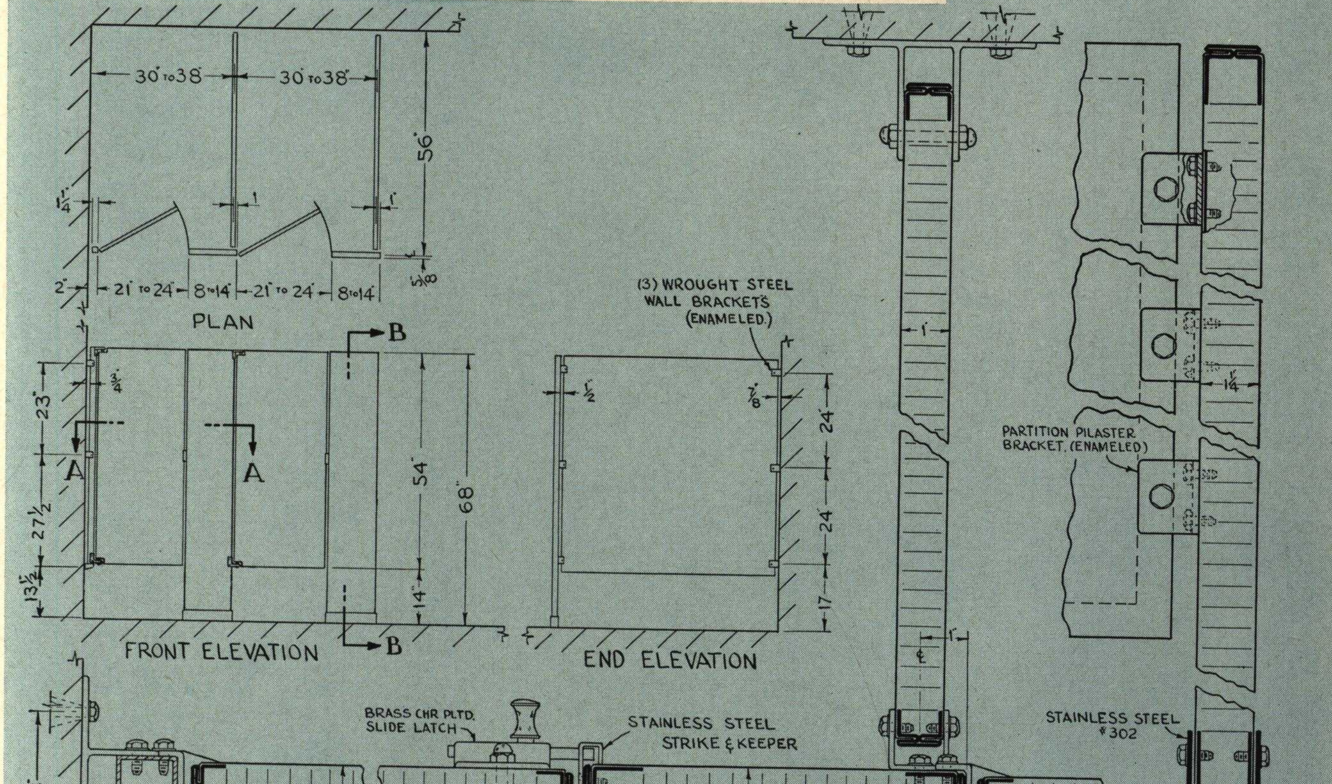
PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 18 gauge galvanized, bonderized, stretcher-levelled sheets locked on all edges with 16 gauge 1¼" deep, continuous, drawn, internal edge reinforcing, interlock channel mouldings, cemented under pressure to a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼" thick reinforced, interlocked, welded rigid unit.

PARTITIONS and **DOORS** to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge galvanized, bonderized, stretcher-levelled steel sheets locked on all edges with 18 gauge ¾" deep, continuous, drawn, edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at frequent intervals, corners welded and ground smooth to make a 1" thick reinforced, interlocked welded rigid slab. Partitions to be fastened to wall with three heavy wrought steel (or 302 stainless steel if specified) brackets using six #14 special hex. washer head, hardened steel, plated screws and alloy expansion shields, and fastened to pilasters with three 14 gauge wrought steel (or 302 stainless steel if specified) brackets.

HARDWARE: Gravity hinge to be concealed in door. Hinge brackets, latch and bumper coat hook to be forged brass, chromium plated. Combination strike and keeper to be 302 stainless steel.

FINISH: Two coats of premium quality synthetic baking enamel, baked on over rust and chemical resistant primer. Choice of 24 standard colors.

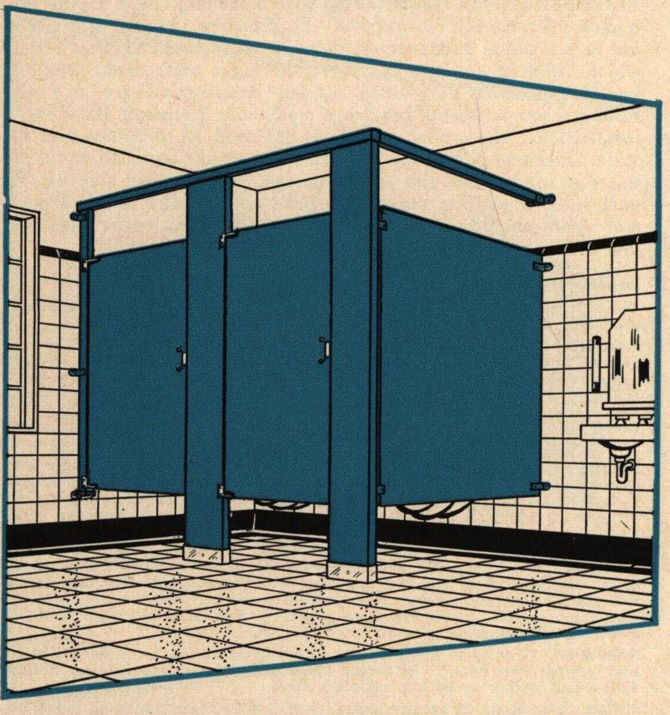
installation and design details . *scale ¼" & 3"=1'—0"*


30" to 38"
30" to 38"
56"
1¼"
1"
1"
2"
21" to 24"
8" to 14"
21" to 24"
8" to 14"
⅝"
PLAN
B
B
¾"
23"
A
A
27½"
13½"
54"
68"
14"
FRONT ELEVATION
(3) WROUGHT STEEL WALL BRACKETS (ENAMELED.)
½"
⅞"
24"
24"
17"
END ELEVATION
1"
1"
PARTITION PILASTER BRACKET. (ENAMELED)
1¼"
3"
BRASS CHR PLTD. SLIDE LATCH
STAINLESS STEEL STRIKE & KEEPER
1"
1¼"
DOOR
PILASTER
SECTION A-A
STAINLESS STEEL #302
SECTION B-B
APD

FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3380

FLUSHITE



FLUSHITE partitions feature the beauty of the pilaster type construction combined with the strength of the overhead brace. The FLUSHSEAL internally reinforced welded construction of the pilasters, doors and panels, plus the one piece seamless headrail make for the strongest installation of its type, and will withstand much abuse. Note how the doors are hinged as close as possible to one side of the compartment to provide maximum space for the occupant. Doors and panels should be kept 14" off the floor for efficient maintenance and 5'-8" to the top for air and light.

specification

Toilet compartments shall be Flushite as manufactured by the Flush-Metal Partition Corp. of Long Island City, N. Y.

PILASTERS to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge galvanized, bonderized, stretcher-leveled steel sheets locked on all edges with 16 gauge 1¼" deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. Internal reinforcement to be provided for all connections. All edges to be welded at 8 inch intervals to make a 1¼" thick reinforced interlocked, welded rigid unit.

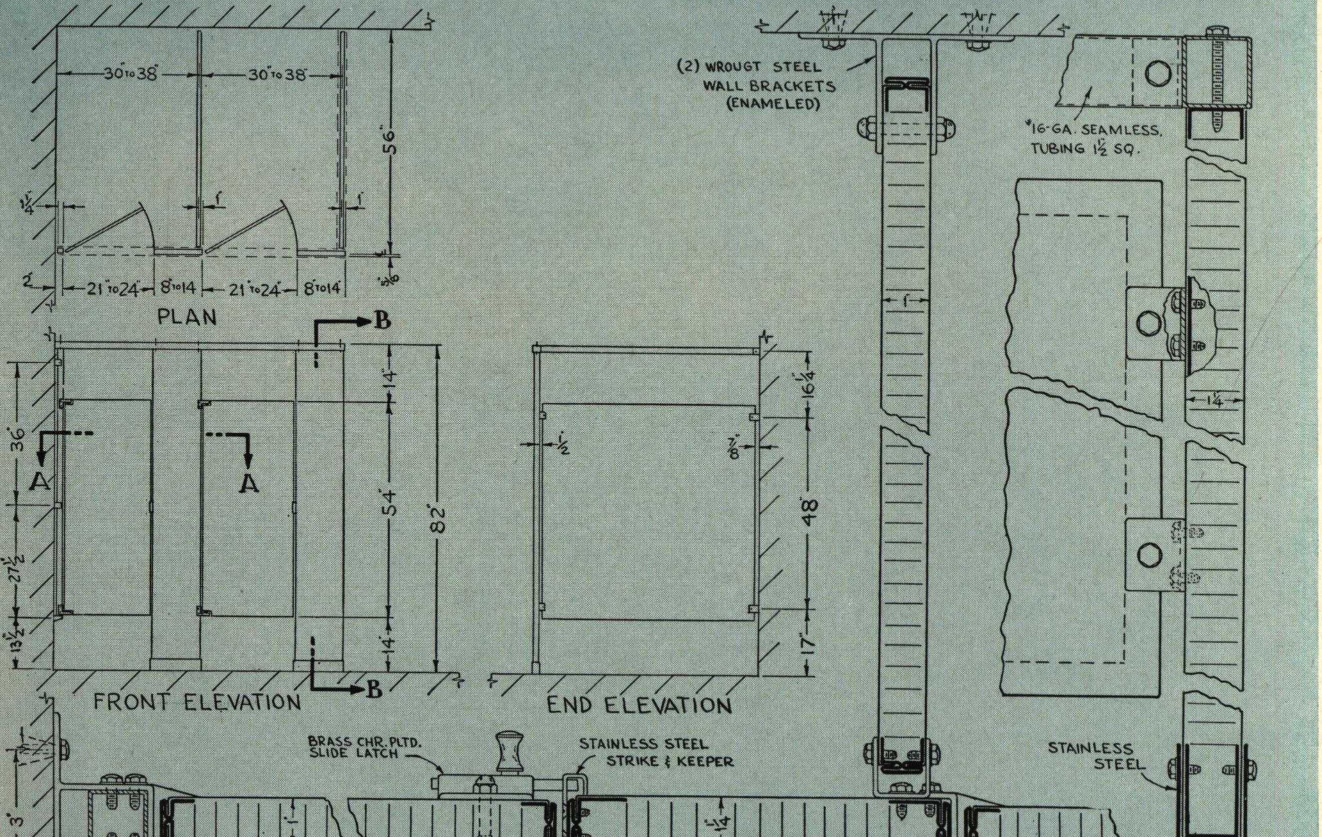
PARTITIONS and **DOORS** to be FLUSHSEAL CONSTRUCTION using two formed 20 gauge galvanized, bonderized, stretcher-levelled steel sheets locked on all edges with an 18 gauge ¾" deep, continuous, drawn, internal edge reinforcing, interlock channel moulding, cemented under pressure to a kraft honeycomb filler. All edges to be welded at 8 inch intervals, corners welded and ground smooth to make a 1" thick reinforced, interlocked, welded rigid slab. Partitions to be fastened to wall with two heavy wrought steel (or 302 stainless steel if specified) brackets using four #14 special hex, washer head, hardened steel plated screws and alloy expansion shields, and fastened to pilasters with two 14 gauge wrought steel (or 302 stainless steel if specified) brackets.

HARDWARE: Gravity hinge to be concealed in door. Hinge brackets, latch and bumper coat hook to be forged brass, chromium plated. Combination strike and keeper to be 302 stainless steel.

FINISH: Two coats of premium quality synthetic baking enamel, baked on over rust and chemical resistant primer. Choice of 24 standard colors.

NOTE: FLUSHITE toilet compartments are available in 302 stainless steel.

installation and design details • *scale ¼" & 3"=1'-0"*


30" to 38"
30" to 38"
56"
¼"
1"
1"
2"
21" to 24"
8" to 14"
21" to 24"
8" to 14"
⅝"
PLAN
B
36"
A
A
27½"
13½"
14"
54"
82"
14"
B
FRONT ELEVATION
½"
⅞"
16¼"
48"
17"
END ELEVATION
(2) WROUGT STEEL WALL BRACKETS (ENAMELED)
1"
*16-GA. SEAMLESS. TUBING 1½ SQ.
1¼"
STAINLESS STEEL
SECTION B-B
BRASS CHR. PLTD. SLIDE LATCH
STAINLESS STEEL STRIKE & KEEPER
3"
1"
1¼"
DOOR
PILASTER
SECTION A-A

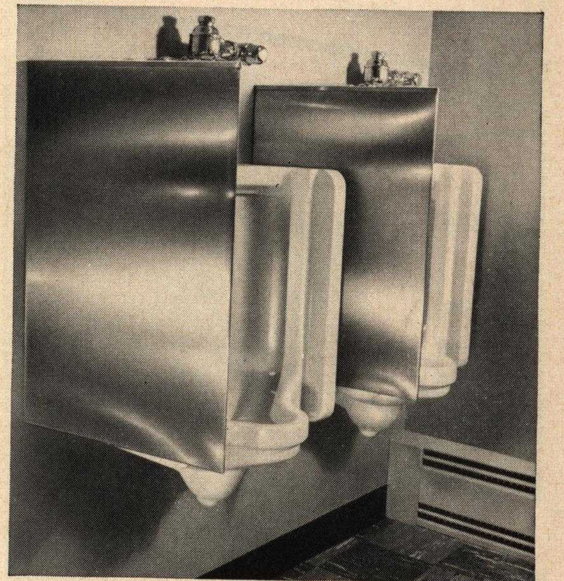
FEATURING FLUSHWING STAINLESS STEEL SCREENS

specification

Urinal Shields shall be FLUSHWING as manufactured by the Flush-Metal Partition Corp. of Long Island City, New York.

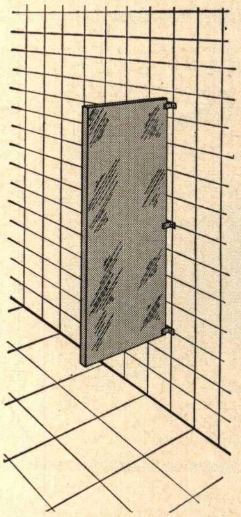
The body of the shield shall consist of one piece 18 gauge 302 stainless steel. Top and bottom covers to be 20 gauge 302 stainless steel, electrically welded to body to form a single unit. The shield shall have its inner surfaces treated with a sound deadening vermin-proof material.

After fabrication all welds and rough spots to be ground smooth, and the entire unit to be given a uniform satin finish. The Urinal Shield shall be mounted on a full height galvanized, bonderized steel bracket. This bracket shall be finished in synthetic baked enamel and fastened to the wall with five fastenings of not less than ¼″ diameter cadmium plated hex. head hardened steel screws and alloy expansion shields, or toggle bolts if required. When completed the unit shall be rigidly mounted with concealed fastenings. Unit shall be left protected with kraft paper covering for removal by owner when ready for use.

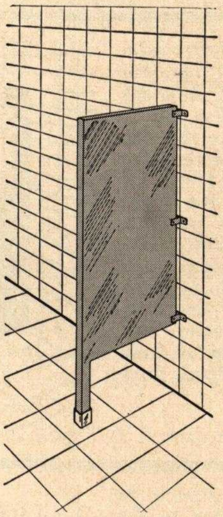


Urinal shields of stainless steel feature the maximum of corrosion resistance and the minimum of maintenance needs.

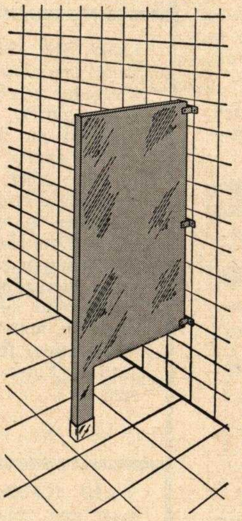
FLUSHIELD



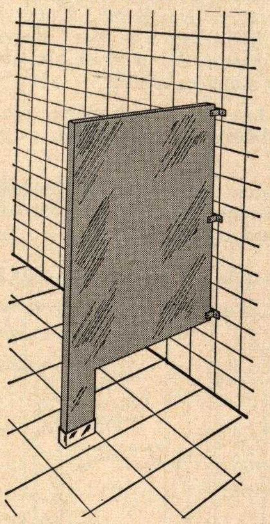
FLUSHART WALL PILASTER



WALL PILASTER WITH WIDE LEG



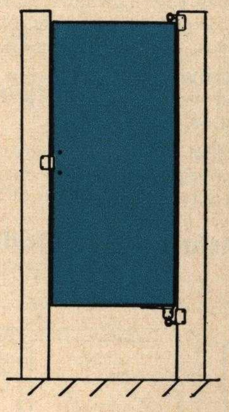
FLUSHART WALL PANEL



Flushield urinal shields are rigid Flush-Metal panels braced with three heavy polished 302 stainless steel or enameled wrought steel wall brackets. Screens are available in depths up to 18″ as shown above. They are also available with a post to the floor, post-and-headrail bracing, or additional headrail triangle bracing, for extra rigidity under conditions of heavy strain. Use partition specification on page 3 for a stainless steel screen and partition specification on page 7 for a baked enamel finish, and add "Flushield as by Flush-Metal Partition Corp."

Flushart wall pilasters are extremely rigid, sturdy, and easy to keep clean. The legs are an integral welded part of the unit, and are anchored to the floor with expansion bolts and protected with a heavy 302 stainless steel shoe. Screens for depths up to 21″ are available with a 1¼″ x 1½″ leg, and the 24-inch deep screen is provided with a 3-inch leg.

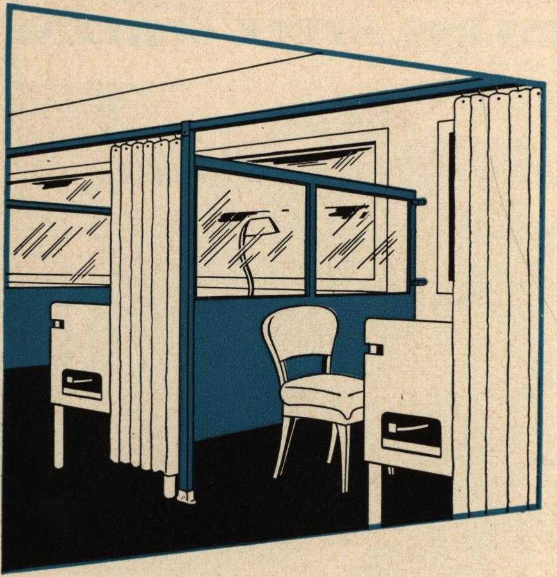
For depths from 28 to 42 inches, one-inch thick wall panels are employed, which are constructed similarly to the 1¼-inch thick wall pilasters. They are braced with a 6 inch wide leg for added stability. All wall pilasters and panels are fastened to the wall with heavy polished stainless steel or enameled wrought steel brackets. For specification in a stainless steel finish, use the Flushart pilaster specification on page 3. For a baked enamel finish use the pilaster specification on page 7.



Flush-Metal doors on marble

The doors should be swung into the compartment. Although 1¼″ stile thickness is most common, Flush-Metal hardware for other stile thickness is available. For door specification see page 8. Hardware is solid bronze chromium plated. The drilling of marble should be specified for the marble contractor.

hospital cubicles



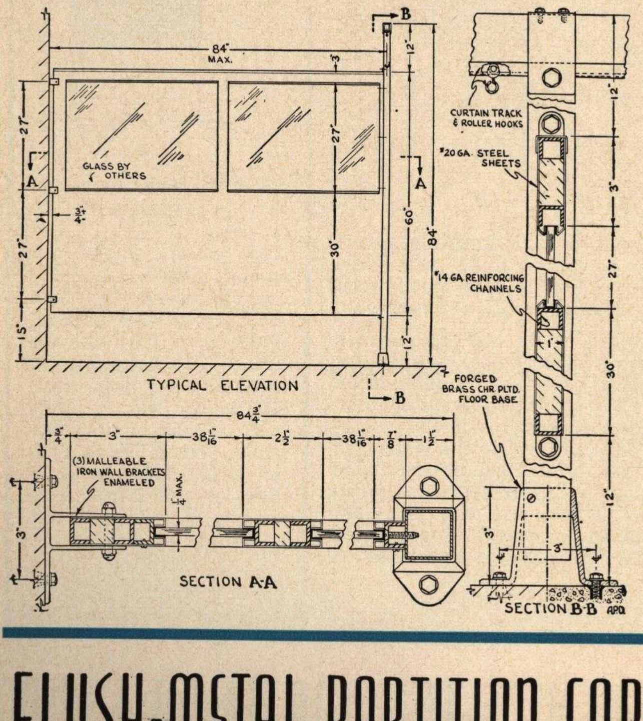
specification

PARTITIONS to be constructed of two not less than 20 gauge galvanized, bonderized, stretcher-levelled steel sheets, spot welded to 16 gauge reinforcing channels on all four edges and cemented under pressure to a kraft honeycomb filler. Panels to be constructed with removable vertical mouldings for easy installation of glass (glass furnished and installed by others). Upper and lower edges of steel sheets to be formed in a sanitary shape to receive glass, and form an integral part of the partition. Headrail, where required, to be 1½″ square seamless tubing.

HARDWARE—Post base to be solid forged brass, chromium plated, and brass chromium plated coat hooks to be installed, as stipulated.

FINISH—One heavy coat of premium quality synthetic baking enamel over rust and chemical-resistant primer. Each coat baked on separately. Choice of 24 standard colors.

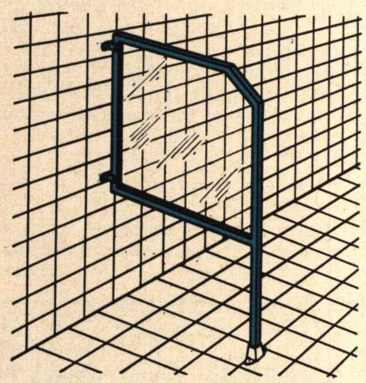
installation details • 1¼″ & 2″ = 1′-0″



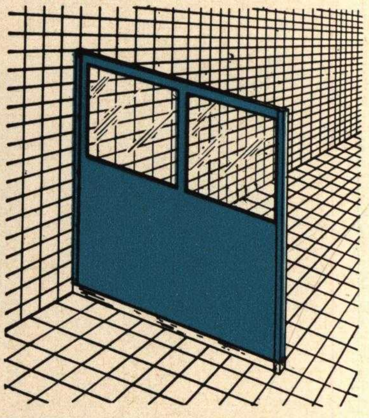
FLUSH-METAL hospital cubicles feature the basic flush type construction adapted for easy insertion of ¼″ thick glass. Small nursery cubicles can usually be designed to be self supporting. The larger ward screens generally require headrail bracing. All Flush-Metal hospital cubicles are rigid, sanitary and adaptable to any place where separation is required in the hospital.

Shown below are a few of the various metal and glass partitions we have manufactured for hospital use. Each was designed for a specific purpose, but they all were engineered for solidity, permanence, sanitation and minimum maintenance.

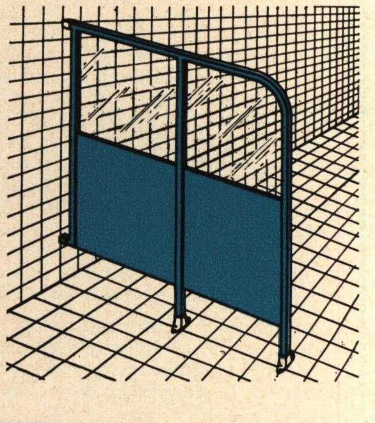
BASSINET SEPARATOR consisting of seamless tubing and glass designed for nursery use. Note extreme economy of material, accomplishment of desired separation and maximum visibility which facilitates observation. This partition has been used singly as shown and in multiple free standing units.



ISOLATION SCREEN—solid from floor up to prevent direct air passage from one side to other. Also objects dropped on floor by one patient cannot be retrieved by the other. From the flush, no crevice top of this partition to the polished, lifetime stainless steel base moulding there is no finer material available, no greater amount of care exercised in manufacture and installation than is built into a Flush-Metal product.



WARD SCREEN similar in type and function to the cubicle shown at left but illustrated here to show how a standard product was modified to meet an Architect's design. On this particular installation a solid bar was secured to the rough floor slab to act as an internal shoe inside the vertical tubing. Special brackets were built into the wall at the exact heights required. Note the rounded front. A special design—competitively priced—guaranteed to give satisfaction and years of trouble free service.

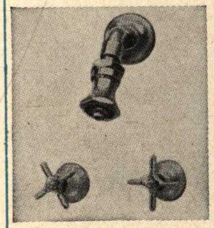


FLUSHOWER

shower compartments

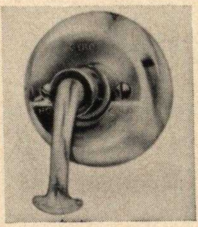
FLUSHOWERS are designed to meet every requirement of modern building construction. They are sanitary, pleasing in appearance, leakproof, economical and made of rust-proofed steel, finished with baked-on enamel in various colors to harmonize with any color scheme. They are recommended for all types of buildings and homes.

FLUSHOWERS are constructed so the back and side walls interlock on a pre-cast non-slip receptor to form a single water tight, rigid unit, thus eliminating unsightly screws and mastic compounds. They can be furnished singly or in batteries with mixing valves, dome lights, side sprays and glass shower doors. Flushowers with Flushite or Flushart dressing compartments make an unsurpassed combination. Installation of Flushowers should be specified in the Plumbing specification.



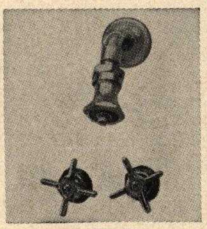
S-640

Polished chromium plated 6″ on center with ball joint adjustable self-cleaning shower head.



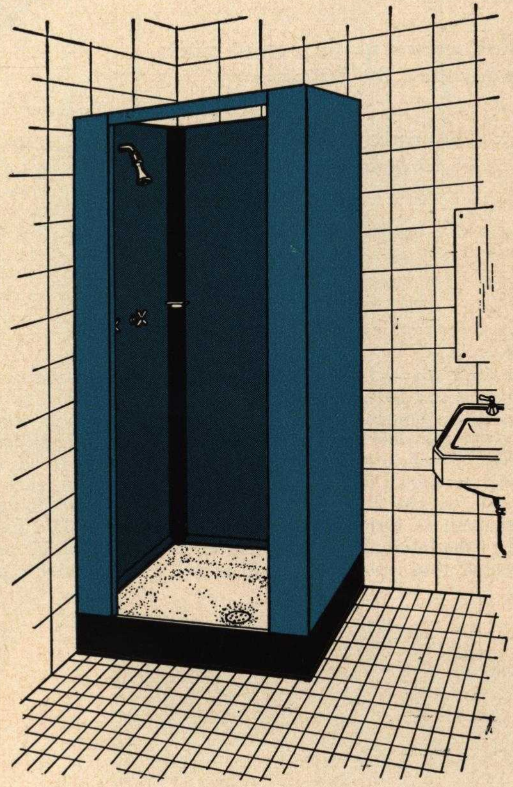
8H

Polished chromium plated single lever mixing valve with ball joint adjustable self-cleaning shower head.



S-199

Dull chromium plated 3⅜″ on center with ball joint adjustable self-cleaning shower head.



also available in stainless steel

SARATOGA

Size: 36x36x82 (square); 42x42x82 (corner).

Receptor: 6″ high terrazzo with black and white marble chips and white cement enclosed in a rust-proofed metal frame.

Walls: 16 gauge galvanized bonderized steel finished inside and outside with 3 coats of synthetic baked enamel.

Equipment: Soap dish, curtain rod and designated valve set. Top, dome light and glass door are optional.

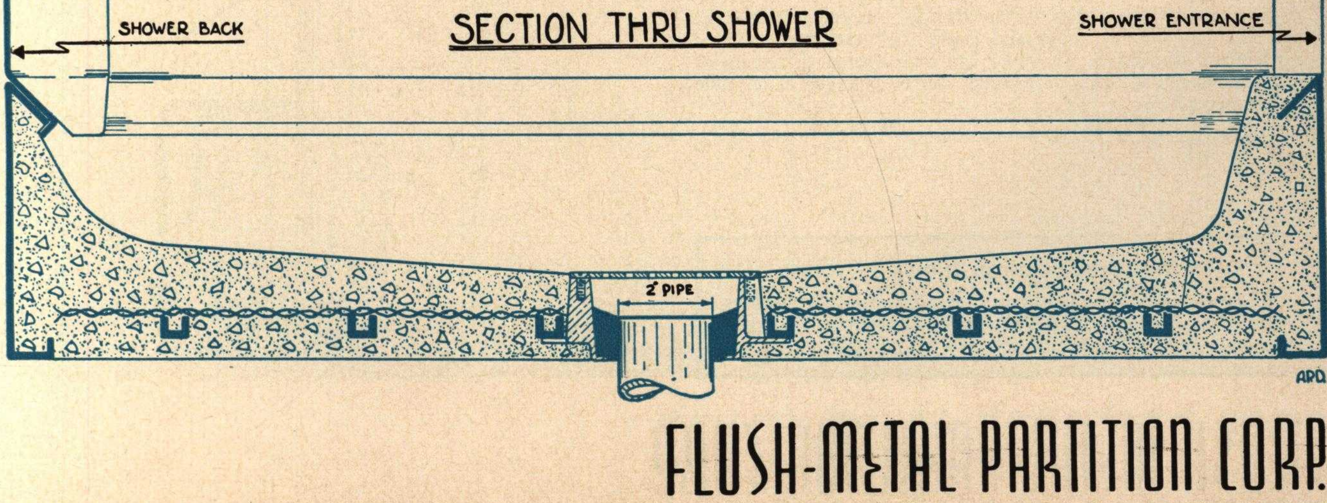
STONEBROOK

Size: 32x32x76; 36x36x76.

Receptor: 6″ high Stonebrook type cast with white marble and black carborundum chips in a rust-proofed metal frame.

Walls: 18 gauge galvanized bonderized steel, finished inside and outside with 2 coats of synthetic baked enamel.

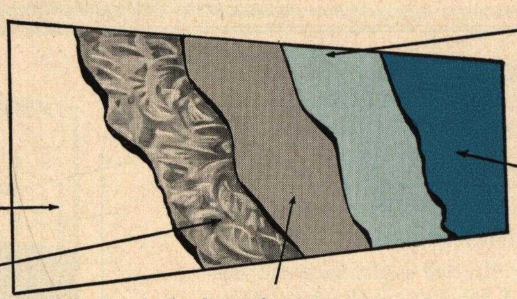
Equipment: Soap dish, curtain rod, vinyl plastic curtain and designated valve set.



FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3380

SYNTHETIC BAKED ENAMEL FINISHES



Primer Coat—
A new epoxy formulation which provides exceptional resistance to alkali, moisture and other corrosive action while serving as a permanent bond between the enamel and the metal.

Finish Coats—
A premium quality synthetic baking enamel available in 24 decorator colors resistant to fading, staining and chipping. The finish is both decorative and protective and will give many years of service with minimum care. A color guide can be obtained from any representative or from the factory. Special colors are available—samples must be sent to the factory for matching.

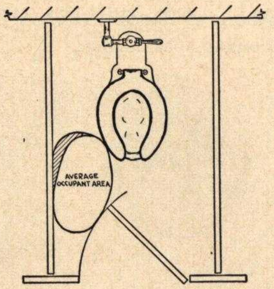
Cold rolled prime quality steel sheet, stretcher-levelled for flatness.

Galvanized coating—
for corrosion resistance.

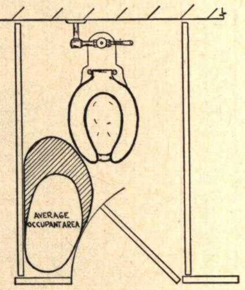
Bonderized coating—
A phosphate coating prepares the galvanized coating for tight paint adherence and also resists corrosion.

Door Location

Note in Layout A, the average occupant of the compartment brushes against the fixture in order to turn around to close the door. This is a common layout used by other manufacturers in order to center the door on the compartment. Flush-Metal functional design specifically features the door to one side of the compartment as shown in Layout B leaving maximum space at the latch side to give ample room with much to spare for the average occupant to turn around and latch the door. The panel is fastened to the internal reinforcement of the FLUSHSEAL reinforcing channel, thus insuring strength as well as functionality and sanitation.



LAYOUT "A" DOOR IN CENTER

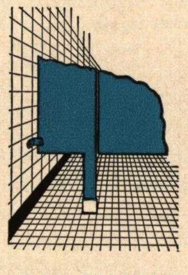


LAYOUT "B" DOOR TO ONE SIDE

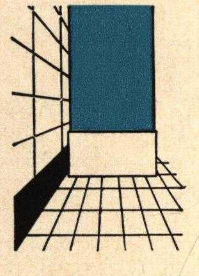
Wall Pilaster Construction

The new Flush-Metal wall pilaster is designed to take advantage of having pilasters which are adjacent to walls fastened to the floor as well as the wall. Note the cutout which permits cleaning next to the wall. No dirt pocket is formed using the Flush-Metal wall pilaster (Flushart Construction). Note that a dirt pocket is created by the standard pilaster as shown above.

This is another design feature where Flush-Metal functional engineering has improved on standard competitive practices.



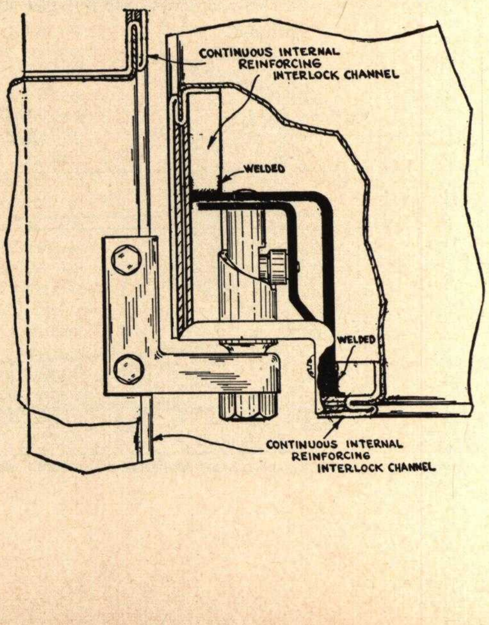
WALL PILASTER



STANDARD PILASTER

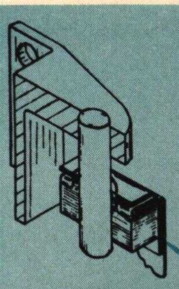
New Internal Gravity Hinge

This new gravity hinge has its mechanism concealed inside the door. The ball bearing roller and heavy steel cam are designed for a lifetime of service. The door can be adjusted to remain at any desired position. This adjustment can be changed at anytime in a few seconds.

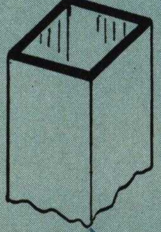

CONTINUOUS INTERNAL REINFORCING INTERLOCK CHANNEL
WELDED
WELDED
CONTINUOUS INTERNAL REINFORCING INTERLOCK CHANNEL

HARDWARE SPECIFICATIONS SHOULD BE CLEAR!

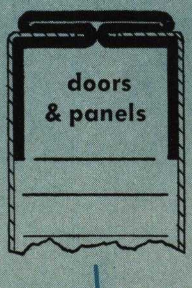
Either forged brass, chromium plated, or stainless steel for the DELUXE line, or non-ferrous die cast for the ECONOMY line.

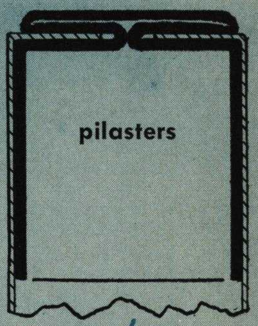


Upper Pivot Assembly—The bracket is **solid forged brass** not a thin stamping or diecasting. The pivot is a ground **stainless steel*** pin—that will never rust. The bearing is miracle *nylon*—self lubricating—noiseless. We have tested it over 10,000,000 revolutions without its showing any sign of wear.

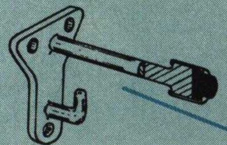


Heavy Gauge Seamless Tubing—Drawn, continuously welded tubing without cracks or butted joints. More expensive but much stronger, neater and more sanitary.

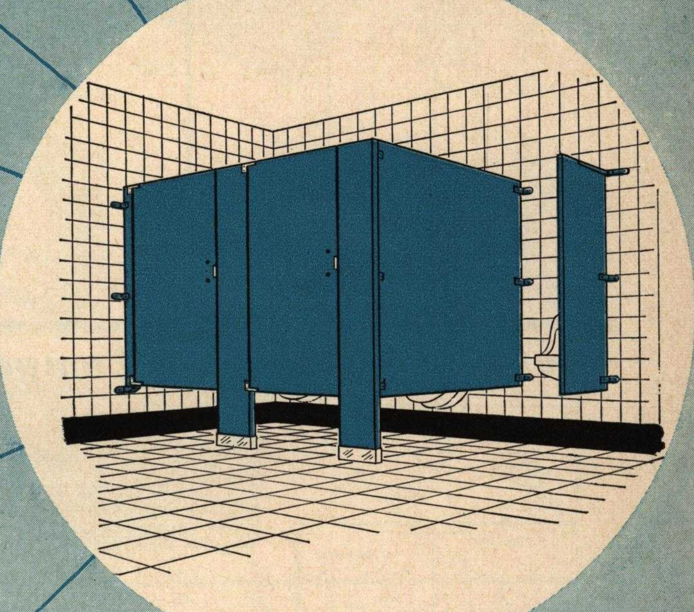


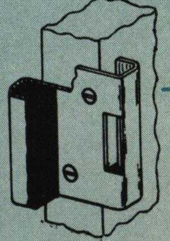


FLUSHSEAL CONSTRUCTION (Reinforced-welded)—A new method of flushpanel fabrication (Pat. Pending). All edges are locked and internally reinforced with heavy 16 or 18 gauge drawn channel moulding, a Flush-Metal exclusive. All edges are welded at 8 inch intervals to make a rigid, permanent slab. Panels and doors are always made of 20 gauge—never any lighter.

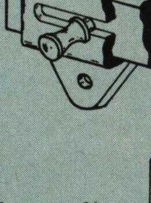


Bumper Coat Hook—A heavy **solid brass forging**—note that the live, non-marking rubber is secured with a brass chromium plated ferrule—no nails or removable tips. The hook is secured with special hex washer head hardened sheet metal screws.

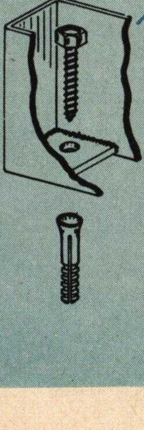




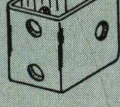
Combination Door Strike and Keeper — solid stainless steel* for high strength and durability. The return bend which rests against the pilaster takes the shock of the door slam off the screws. The 2¾″ long solid rubber is retained not only by friction but with 6 teeth pressed into the rubber.



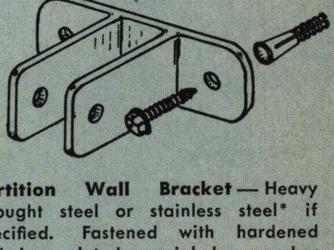
Latch — solid forged brass case with ¼″ x 1″ **solid stainless steel*** slide. A rugged piece of hardware that is practically indestructible. The extra heavy slide which takes the abuse has no plating to wear, and is spring mounted for smooth operation.



Floor Shoe—14 gauge **solid stainless steel***—This is not a light gauge trim that will rattle and dent. The Flushart stainless steel shoe is an integral part of the installation. It is secured with heavy, long, hardened, cadmium plated steel screws and alloy expansion shields. **Three floor fastenings** are used on pilasters over 6″ wide—a Flush-Metal exclusive.



Partition Pilaster Bracket—14 gauge wrought steel or stainless steel* if specified. Note double screw fastenings into partition and into pilaster instead of a single through bolt. At each point the screw is anchored to heavy gauge internal reinforcing channels.



Partition Wall Bracket—Heavy wrought steel or stainless steel* if specified. Fastened with hardened cadmium plated special hex washer head screws and alloy expansion shields—**Three** wall brackets on each partition is a Flush-Metal exclusive.

*Flush-Metal uses only nickel bearing type 302 stainless steel.

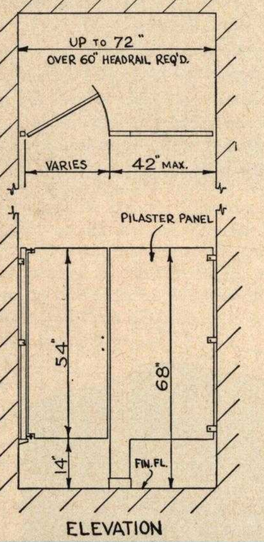
FLUSH-METAL PARTITION CORP.

46-10 11th STREET LONG ISLAND CITY 1, N. Y. STILLWELL 4-3380

Toilets

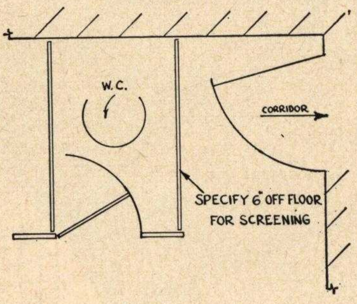
Alcove Compartment

To keep the construction uniform where the alcove, or in-line single compartment layout is used (when FLUSHART compartments are specified) Flush-Metal "wall panels" will be furnished on compartments up to 72" wide; otherwise headrail bracing is recommended. The pilaster panel is 1¼" thick, of the same rigid Flushseal Construction as other pilasters with the sanitary corner cutout which permits easy cleaning.


UP TO 72"
OVER 60" HEADRAIL REQ'D.
VARIES
42" MAX.
PILASTER PANEL
54"
68"
14"
FIN. FL.
ELEVATION

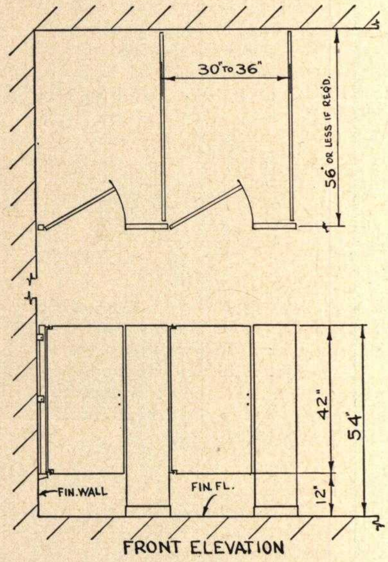
Screening

Where it is not possible to have a separate vestibule area and a w.c. is exposed to view when a corridor is opened, the partition facing the vestibule door should be specified to be 6" off the floor. Where the partition must extend to the floor a 20 gauge 302 stainless steel mop strip should be specified to protect the bottom of the panel.

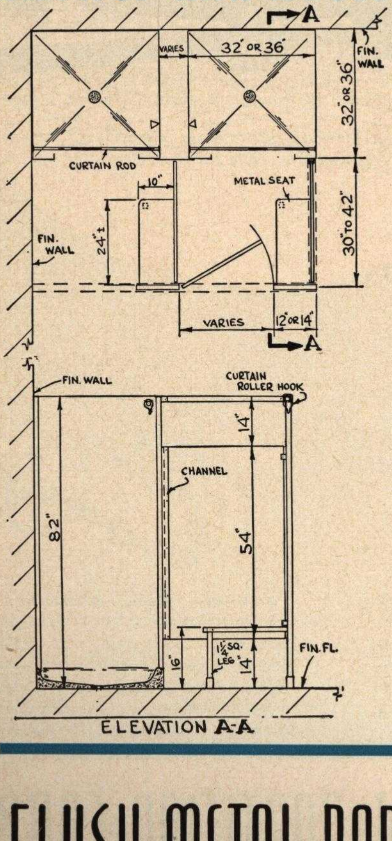

W.C.
CORRIDOR
SPECIFY 6" OFF FLOOR
FOR SCREENING

Children's Compartments

Adult size toilet compartments are out of scale in toilet rooms which are designed for the sole use of small children. Compartments scaled down to proper size improve the appearance of the room and make supervision easier. The elevation illustrated has been used widely but it can be changed to suit the Architect's requirements.


30" TO 36"
56" OR LESS IF REQ'D.
42"
54"
FIN. WALL
FIN. FL.
12"
FRONT ELEVATION

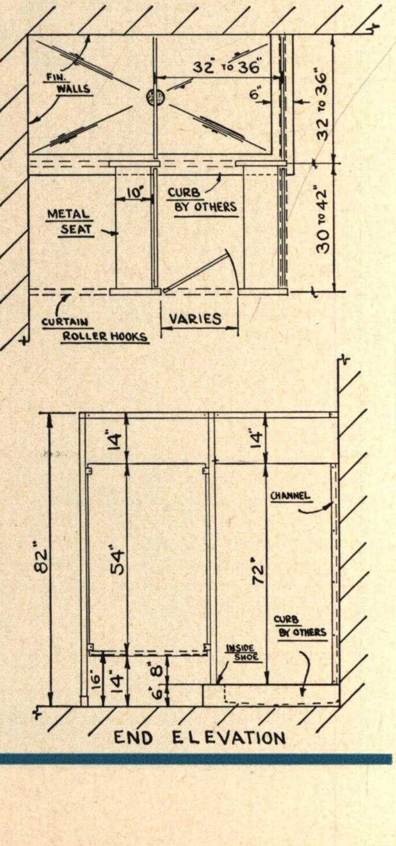
Shower and Dressing Compartments

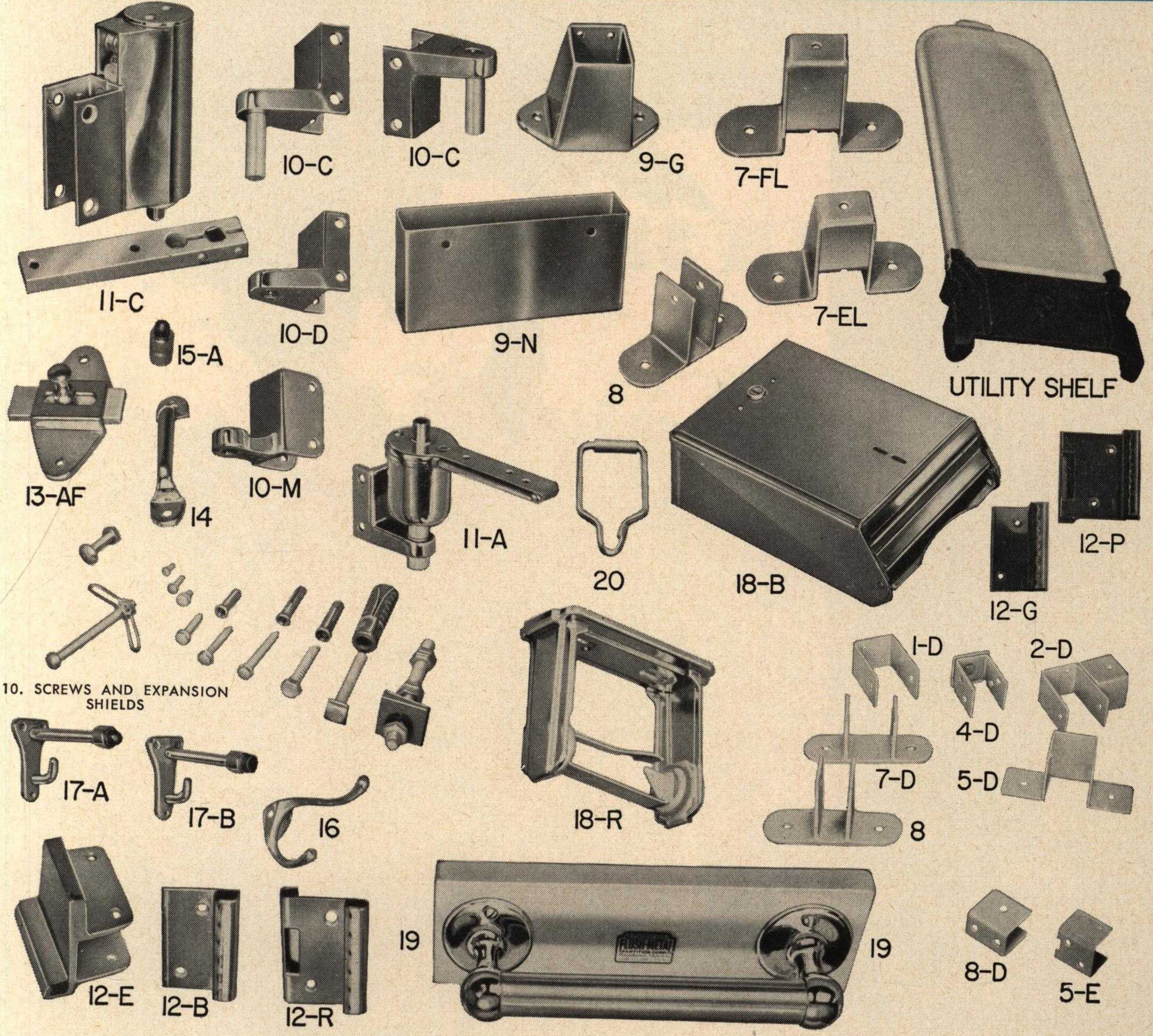

A
VARIES
32" OR 36"
FIN. WALL
32" OR 36"
CURTAIN ROD
10"
METAL SEAT
24"±
FIN. WALL
30" TO 42"
VARIES
12" OR 14"
A
FIN. WALL
CURTAIN ROLLER HOOK
14"
CHANNEL
82"
54"
1¼" SQ. LEG
16"
14"
FIN. FL.
ELEVATION A-A

Flushower units can be used singly or in battery. Where pipe spaces occur, fillers to match the showers are furnished. The use of Flushowers eliminates the need for waterproof floor and wall construction. Assembly of showers and the plumbing connections must be provided for in the plumbing specifications. A typical layout is shown at left.

Dressing compartments can have either doors or curtains, and metal or wood seats are optional. One clothes-hook is provided in each dressing compartment as standard equipment. If more than one hook is required in each compartment, the specifications should so state.

Flushite partitions may be used as shower partitions when complete single units are not desired. A flat, level curb is required and panels must be set in caulking compound to make waterproof connections. The height of the partitions depends on the height of curb and the architects requirements. A typical layout is shown at right.


FIN. WALLS
32" TO 36"
6"
32" TO 36"
10"
CURB BY OTHERS
METAL SEAT
30" TO 42"
CURTAIN ROLLER HOOKS
VARIES
14"
14"
CHANNEL
82"
54"
72"
CURB BY OTHERS
INSIDE SHOE
16"
14"
6"
8"
END ELEVATION



1-D	1½" Headrail Connector (Two Way)
2-D	1½" Headrail Connector (Three Way)
4-D	1½" Post and Headrail Cover
5-D	1½" Headrail Wall Bracket
5-E	1½" Headrail Inside Channel
7-CL	1½" Bottom Post Wall Bracket
7-D	1½" Post Wall Bracket
7-EL	1¼" x 1¼" Bottom Wall Post Bracket
7-FL	1¼" x 1¾" Bottom Wall Post Bracket
8	1" Partition Wall Bracket
8-D	1" Pilaster Partition Bracket
9-G	1½" Post Base
9-N	1¼" x 6" Post Base
10-C	1¼" Hinge Bracket
10-D	1½" Hinge Bracket
10-M	1¼" Hinge Bracket for Marble
11-A	Gravity Hinge
11-C	Rixson Checking Pivot

12-B	Strike for 1¼" Pilaster (Outswing)
12-E	Strike for 1¼" Marble
12-G	Strike for 1½" Post (Outswing)
12-P	Strike for 1½" Post (Inswing)
12-R	Strike for 1¼" Pilaster (Inswing)
13-AF	Latch for 1¼" Pilaster
13-F	Latch for 1½" Post
14	Handle
15-A	⅝" Diameter Handle Bumper
16	2 Prong Coat Hook (Brass Chrome Plated)
17-A	Bumper Coat Hook (Brass Chrome Plated)
17-B	Bumper Coat Hook
18-B	Box Type Paper Holder
18-R	Roll Type Paper Holder
19	1" Grab Bar Bracket, 1" Diameter Stainless Steel Curtain Rod
20	Headrail Roller Curtain Hook

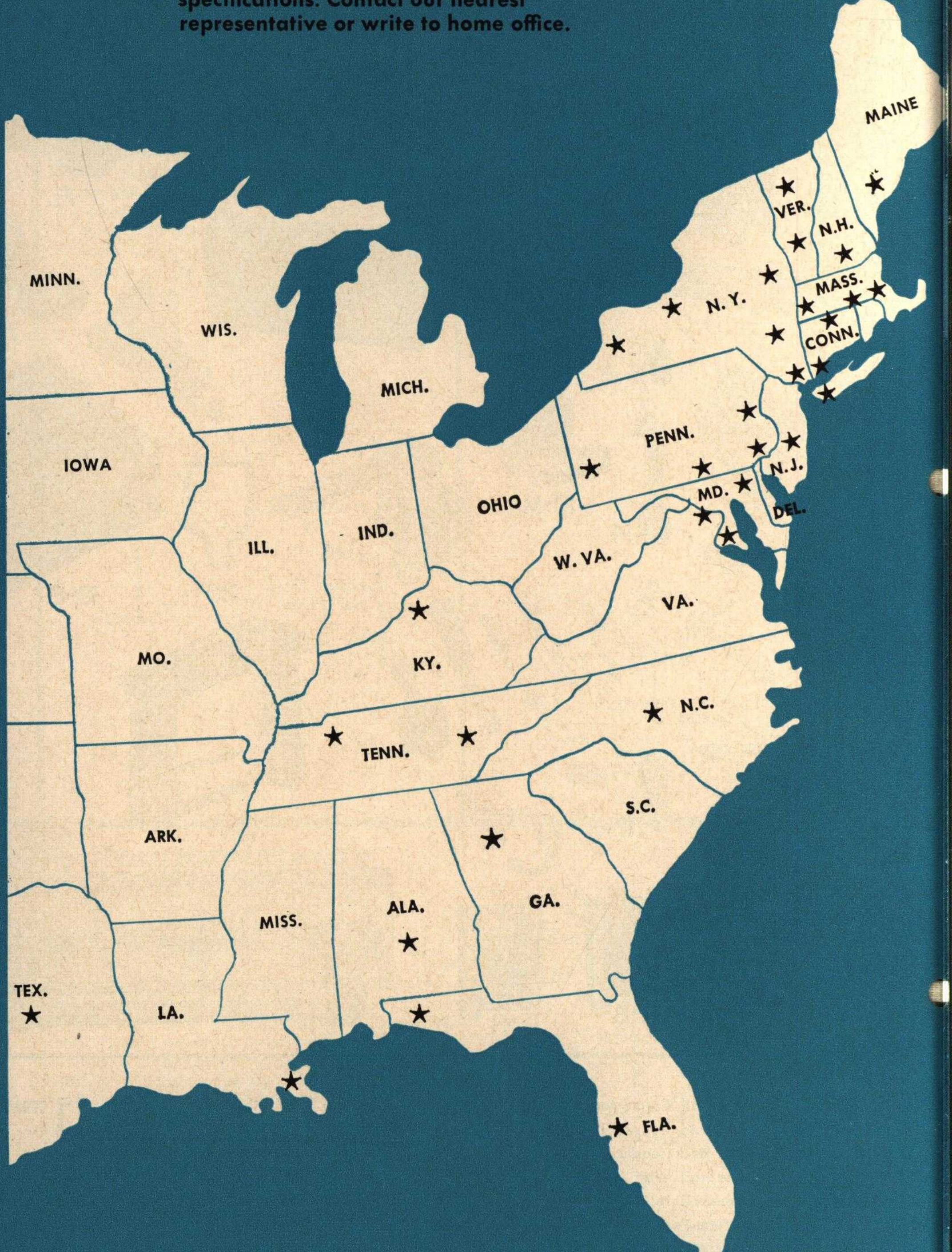
ITEM 10.	**Various Special Head, Hardened Metal Screws and Alloy Expansion Shields**
27	¼"-20 Cap Nut
38	No. 14 x 2" Hex. Head Sheet Metal Screws
39	No. 16 x 2" Hex. Head Sheet Metal Screws
60	¼"-20 Toggle
64	No. 14 x 1" Lead Shield
65	No. 14 x 1½" Lead Shield
66	No. 16 x 1¾" Lead Shield
74	¼"-20 x 1⅜" Carriage Bolt
80	No. ⅜" x 2½" Gripzins (Expansion Shield)
81	No. ⅜" x Machine Bolt

representatives of

FLUSH-METAL PARTITION CORP.

serving the nation

Our 29 years of engineering experience is free to you for the asking. We will assist architects and plant engineers with layouts and specifications. Contact our nearest representative or write to home office.



ALABAMA

Wyatt Supply, Inc.
714 Cedar St.
Montgomery 7, Ala.
Phone: AMherst 5-2130

CONNECTICUT

Mr. R. V. Thomas
136 Farmington Ave.
Farmington, Conn.
Phone: ORchard 7-1992

Mr. Edwin C. Seaferd
114 High Ridge Rd.
Fairfield, Conn.
Phone: EDison 5-9710

FLORIDA

Pensacola Steel Co., Inc.
1801 E. Strong St.
Pensacola, Fla.
Phone: HE 3-0797

The J. E. Wood Co., Inc.
3123 4th Ave.
Tampa, Fla.
Phone: Tampa 4-3773

GEORGIA

Construction Products Co.
P. O. Box 905
Decatur, Ga.
Phone: DRake 7-3068

HAWAII

Mr. M. W. Rasmussen Co.
1245 Ainakoa Ave.
Honolulu 16, Hawaii
Phone: 736-211
Cable: "EMARCO"

KENTUCKY

Equipment & Specialties Co., Inc.
621 S. Jackson St.
Louisville 2, Ky.
Phone: JU 4-7114

LOUISIANA

Louisiana School Supply Co.
833 Howard Ave.
New Orleans, La.
Phone: MAgnolia 0643

MAINE

The Bader Co., Inc.
430 Turner St.
Auburn, Maine
Phone: LEwiston 3-1081

MARYLAND

Mr. Charles A. Weiller
32 W. Biddle St.
Baltimore 1, Md.
Phone: VErnon 7-2240

Valley Lumber Co., Inc.
P.O. Box 486, Route #3
Bedford Rd.
Cumberland, Md.
Phone: PArkview 2-7760

MASSACHUSETTS

Acoustical Ceilings, Inc.
467 North St.
Pittsfield, Mass.
Phone: HIllcrest 2-6716

Haskins Haire Wire Works
9 May St.
Worcester 10, Mass.
Phone: PLeasant 2-1506

Shawmut Supply Co.
514 Medford St.
Somerville, Mass.
Phone: MOnument 6-2470

NEW HAMPSHIRE

The Bader Co.
Route 8 Beck Road
Concord, N. H.
Phone: STory 3-6881

NEW JERSEY

Mr. Thomas J. Kennedy
34 Highland Blvd.
Keansburg, N. J.
Phone: KEansburg 6-5548

NEW MEXICO

Blueher Lumber Co.
5021 Lomas Blvd. N. E.
Albuquerque, New Mexico
Phone: ALbuquerque 6-3531

NEW YORK

Bowerman Builders' Service Inc.
1307 E. Main St.
Rochester 9, N. Y.
Phone: BUtler 8-7482

Bronsteel Products Corporation
Suite 12
1965 Sheridan Dr.
Buffalo 23, N. Y.
Phone: BEdford 7890

Pratt Building Equipment Co.
115 Tarlton Road
Utica, N. Y.
Phone: RE 2-8134

Mr. Henry Smurl
304 S. Main Ave.
Albany, N. Y.
Phone: ALbany 8-1483

Flush-Metal Partition Corp.
46–10 11th St.
Long Island City 1, N. Y.
Phone: STillwell 4-3380

Lower Hudson Valley
Mr. Edwin C. Seaferd
114 High Ridge Rd.
Fairfield, Conn.
Phone: EDison 5-9710

NORTH CAROLINA

Erwin Jones & Co., Inc.
1128 S. Clarkson St.
Charlotte 8, N. C.
Phone: FRanklin 7-1693

PENNSYLVANIA

Construction Supply & Equipment, Inc.
P. O. Box 71
Milton, Pa.
Phone: 779

Theron G. Cromer Associates
920 Sherwood St.
Hanover, Pa.
Phone: ME 3-0191

Royal H. Eckert Inc.
21st & Hamilton Sts.
Allentown, Pa.
Phone: HE 4-4531

S. W. Wadlow Building Spec.
49 35 Rubicom Ave.
Philadelphia 44, Pa.
Phone DAvenport 4-1327

SOUTH CAROLINA

Erwin Jones & Co., Inc.
1128 S. Clarkson St.
Charlotte 8, N. C.
Phone: Franklin 7-1693

TENNESSEE

Building & Utilities Specialties Co.
829 N. Central Avenue
P. O. Box 10196
Knoxville 19, Tenn.
Phone: 5-5197

Mannings Materials Co.
138 Haverford Ave.
Nashville 12, Tenn.
Phone: CY 2-0939

TEXAS

Supplies Associated
4705 Parkcrest Dr.
Austin 3, Texas
Phone: HOmestead 5-6830

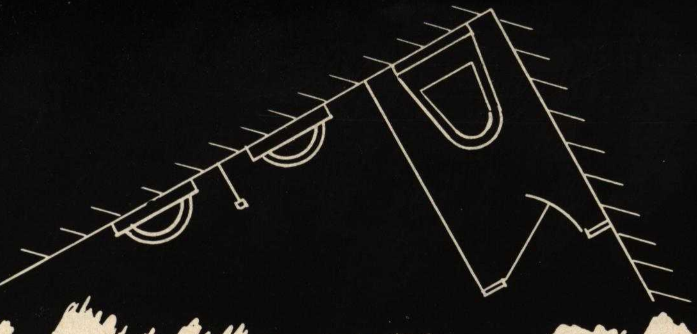
VERMONT

The Bader Co., Inc.
699 Pine St.
Burlington, Vt.
Phone: UNiversity 3-3510

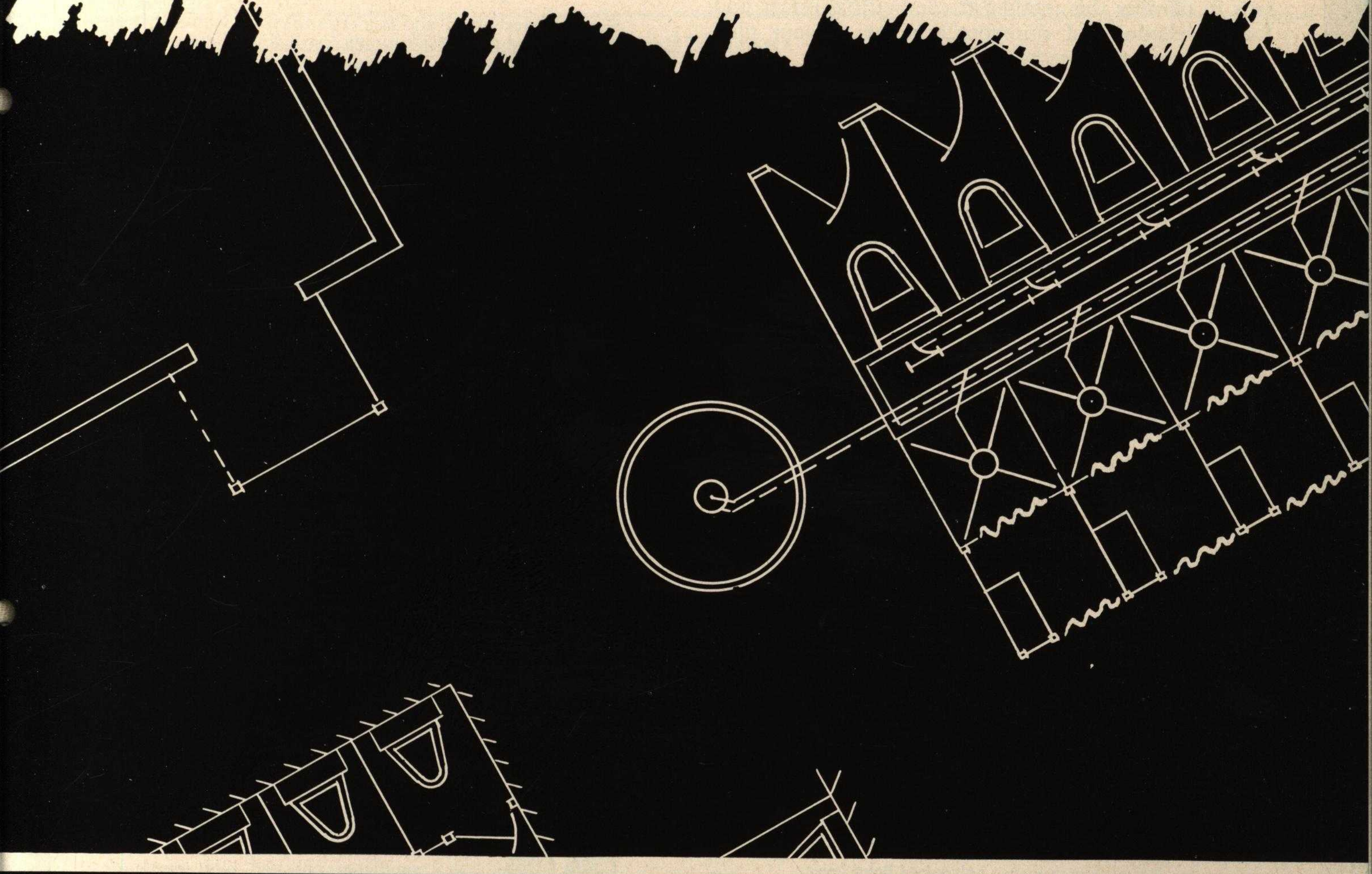
The Bader Co., Inc.
130 Crescent St.
Rutland, Vt.
Phone: PRospect 3-3177

WASHINGTON, D. C.

Graham & Van Leer Co.
810 18th Street N. W.
Washington 6, D. C.
Phone: STerling 3-4411

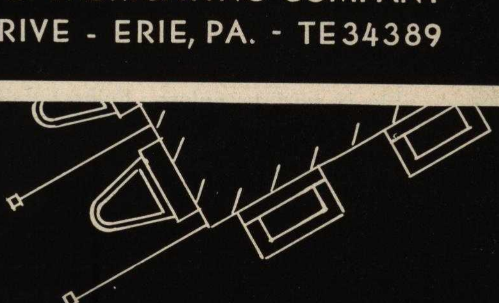


TOILET PARTITIONS



General
ERIE

GENERAL WELDING & FABRICATING COMPANY
1702 PENINSULA DRIVE - ERIE, PA. - TE34389



a complete line of toilet partitions

Recognizing the need for a high quality of partitions General Welding and Fabricating Company has, since its inception, produced a complete line of metal toilet partitions, dressing booths, and shower enclosures.

Our experienced personnel has been successful in incorporating the best features of the industry's recognized construction standards with new designs and ideas for production which have enabled us to steadily expand our plant and sales facilities.

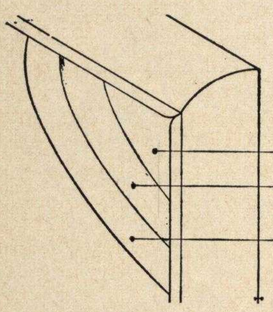
We are dedicated to serving the construction industry with the finest quality partition available. Our success in offering this quality at competitive prices and fastest schedules of shipment accounts for our phenominal growth.

---

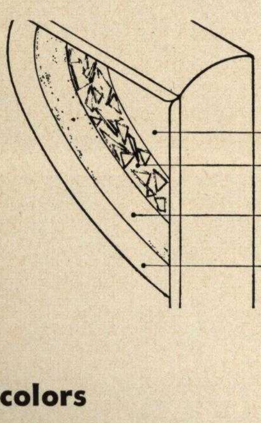
finishes

Paint baked on enamel is available in all designs; its beauty and durability is surpassed only by our highest quality finish porcelain enamel, which is available on design No. 30-2; No. 40-2; No. 50-2.

porcelain



baked synthetic enamel



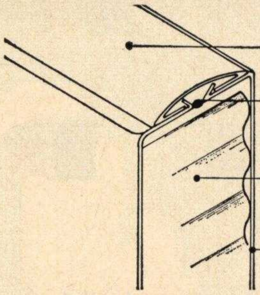
colors

Paint baked enamel and porcelain enamel are available in various colors. Fastest delivery is assured in standard colors.

Two standard colors per order may be chosen from our color chart at no extra charge. Porcelain enamel colors are more brilliant and have more depth than paint finishes. Color chips are available.

construction features

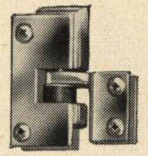
pilasters, doors, and panels


continuous die drawn molding locks face plates of pilasters, doors and panels; concealing raw edges
weld
expanded hexagonal honeycomb filler
metal walls cemented to honeycomb filler

Strength, durability, and fine craftsmanship combine in permanently joined face plates which are welded prior to application of die drawn molding. Molding is continuous, completely concealing all raw edges.

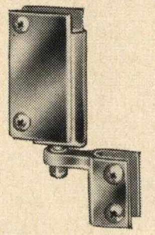
Full width honeycomb type fillers provide sound deadening insulation on all flush styles. Racking is prevented due to careful lamination, under pressure, of cores to inner surface of face plates with water proof binder.

flush top hinge



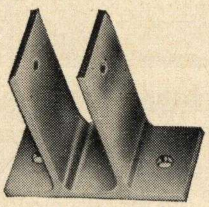
Maximum strength and serviceability is assured with latest engineered top hinge assembly placed in a cut out even with the top level of the door. The hinge pin is securely anchored above and below the bearing point with four point contact. Exclusive new shock absorber device on top hinge pin cuts down on sound in toilet rooms resulting from slamming of doors and prevents doors from being forced. Doors swing to 120° with absorber device activating at 85°.

concealed bottom gravity hinge



Working parts of bottom hinge assembly are completely concealed and enclosed within the door to prevent vandalism and tampering. Hardened steel cam and simplified working parts, which have a roller bearing with case hardened roller race, incorporates latest engineered principles with the time proven merits of a gravity hinge.

brackets



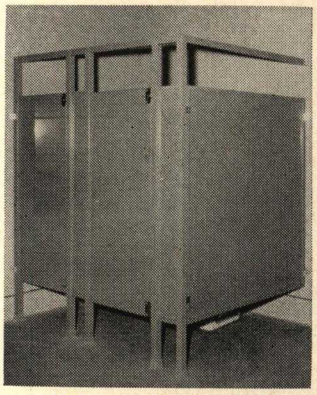
No painted "T" brackets are used. Even our economy styles feature lustrous wall and pilaster stirrup brackets which are anodizing, polished, high tensile air craft type aluminum, matching today's modern motifs. General Welding & Fabricating Company has pioneered in the use of aluminum for toilet partitions.

wall hung urinal screens

Maintenance is kept to a minimum when GENERAL'S wall hung urinal screens are used. This unit relies on secure anchorage to a solid wall and avoids expensive upkeep, inevitably found where urinal screens must be anchored to the floor. Face plates are formed to provide a continuous flange which is anchored at six points to the wall. The wide flange is reinforced with a heavy steel plate. Exclusive engineered wing type construction gives strength with combined flexibility to prevent wall damage.

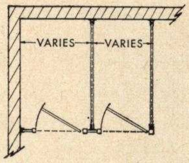
General
PARTITIONS

"10" series (post and sheet panel, headrail braced)



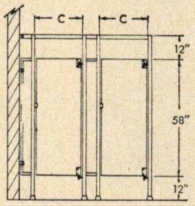
design 10-1—is used in remodeling where similar design must be matched.

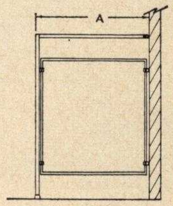
specifications: All toilet partitions shall be GENERAL Design 10-1. All doors shall be 1" thick, 20-gauge level Galvanized and Bond steel, neatly formed and welded together before attaching die drawn moulding. Door filler shall be honeycomb board glued to interior sides of the formed sheets. Panels are single 18-gauge galvanized and Bond sheet construction, with formed moulding at top and bottom. Posts shall be 1¾" square tubing, with polished non-ferrous foot. Headrails shall be 1 x 1¾" steel tubing recessed into the posts. All metal surfaces shall be finished with baked synthetic enamel at 310° F. See Specifications (page 4) for hardware.



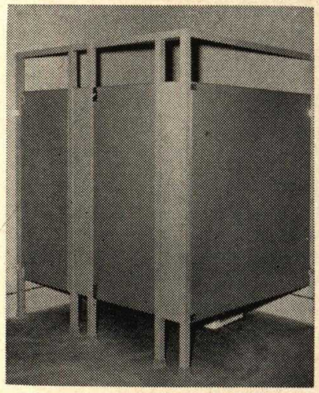
A = 36", 42", 48", 54", 57"
other sizes available

C = 22", 24"
other sizes available



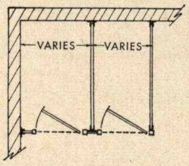


"20" series (post and flush panel, headrail braced)



design 20-1—is a flush design economical to install.

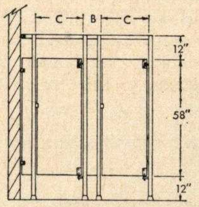
Specifications: All toilet partitions shall be GENERAL Design 20-1. All panels and doors shall be 1" thick, 20-gauge level galvanized and Bond steel, neatly formed and welded together before attaching die drawn moulding. Door and panel filler shall be honeycomb board glued to interior sides of the formed sheets. Posts shall be 1¾" square tubing with polished non-ferrous foot. Headrail shall be 1 x 1¾" steel tubing recessed into the posts. All metal surfaces shall be finished with baked synthetic enamel at 310° F. See Specifications (page 4) for hardware.

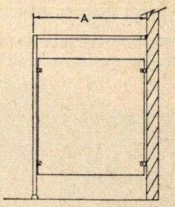


A = 36", 42", 48", 54", 57"
other sizes available

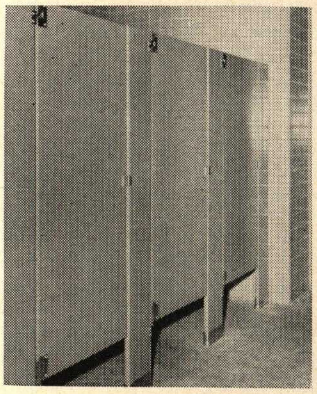
B = to 12"
other sizes available

C = 22", 24"
other sizes available





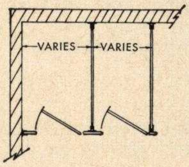
"30" series (floor supported pilaster and flush panel)



design 30-1—this modern design is popular and may be used where floor thickness permits application of heavy anchor bolts or floor studs.

See Specifications (page 4) regarding panels, doors, pilasters, hardware and baked enamel finish.

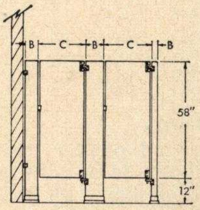
design 30-2—same construction as 30-1 but with porcelain enamel finish. Panels and doors 18-gauge; pilasters 18-gauge (16-gauge, if specified) non-ferrous, chrome-plated hardware, and polished stainless steel shoes. See Specifications (page 4).

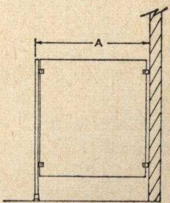


A = 36", 42", 48", 54", 57"
other sizes available

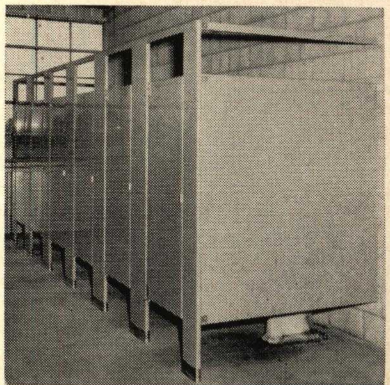
B = 2", 3", 4", 5", 6", 8", 9", 10", 12"

C = 22", 24"
other sizes available





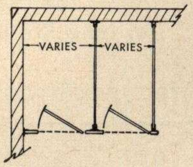
"40" series (pilaster and flush panel, headrail braced)



design 40-1—ever-popular all flush, headrail braced style for use with any floor system. See Specifications (page 4), regarding panels, doors, pilasters, headrails, hardware, and baked enamel finish.

design 40-2—same construction as 40-1 but with porcelain enamel finish. Panels and doors 18-gauge (16-gauge if specified) non-ferrous chrome plated hardware. Polished stainless steel shoes. See Specifications (page 4).

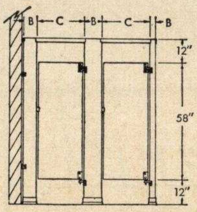
design 40-5—same design and finish as 40-1 featuring latest painted aluminum pilasters or 20-gauge steel pilasters and bull-dog type floor connection. Economy style with no sacrifice of strength, beauty, or quality. See Specifications (page 4).

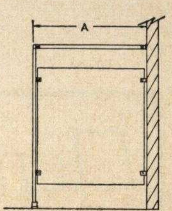


A = 36", 42", 48", 54", 57"
other sizes available

B = 2", 3", 4", 5", 6", 8", 9", 10", 12"

C = 22", 24"
other sizes available

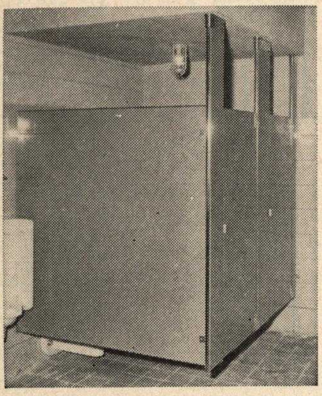




GENERAL WELDING AND FABRICATING COMPANY

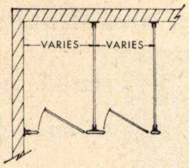
toilet partitions

"50" series (ceiling hung pilaster and flush panel)



design 50-1—upkeep, general maintenance, and ease of cleaning are now available at no extra cost with our latest baked enamel ceiling hung compartments. See Specifications (page 4) regarding panels, doors, pilasters, hardware, and baked enamel finish.

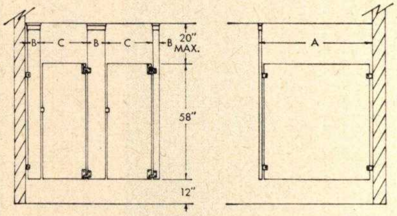
design 50-2—same construction as 50-1, but with porcelain enamel finish. Panels and doors 18-gauge; pilasters 18-gauge (16-gauge if specified). Non-ferrous, chrome-plated hardware polished stainless steel shoes. See Specifications (page 4).



A = 36", 42", 48", 54", 57"
other sizes available

B = 2", 3", 4", 5", 6", 8", 9", 10", 12"

C = 22", 24"
other sizes available



specifications

scope

All metal compartments for toilets, showers, and dressing rooms shall be Design .... (insert type) as manufactured by General Welding & Fabricating Co., Erie, Pa.

panels

Panels shall be 1" thick with two sheets of 20-gauge level galvanized and Bond steel, formed and welded together before attaching die drawn molding on all four sides of panels. Corners to be mitered, welded, and ground smooth. Fillers shall be pads of hexagonal honeycomb expanded to 1" maximum cell size, with cells of 0.009 caliper craft paper 26 lbs. per 1,000 square feet minimum. All glued to interior sides of formed sheets.

doors

Doors shall be of same construction and gauge as panels.

pilasters

Pilasters to be same construction as panels except that they shall be 1¼" thick with 18-gauge (16-gauge available if specified by architect) steel face plates. Die drawn molding to be applied to vertical edges and exposed sides of pilasters. Pilasters shall be anchored to the floor or ceiling by means of a fitting providing for vertical adjustment which shall not depend upon friction.

steel

All steel shall be galvanized and Bond, Republic Electro Zink Coat level steel of the folowing gauges:

Partitions	20-gauge	
Pilasters	18-gauge	(16-gauge available if architect so specifies)
Doors	20-gauge	
Reinforcing channels.	18-gauge	
Handrail, steel......	18-gauge	1" x 1¾" (or Polished Aluminum with .090" wall).

hardware & fittings

Brackets—both wall and pilaster stirrup brackets to be anodizing, polished, high tensile air craft type aluminum. (Brackets are chrome-plated for designs with porcelain finish.)

Pilaster Floor Trim—3" high, stainless steel, formed escutcheon type shoe.

Hinges—doors shall be hung on gravity hinges with hardened steel cam, adjustable to permit doors to be set either self-closing, self-opening, or ajar. All operating parts shall be enclosed within the door. Upper hinge pin shall be placed in a cut out even with the top level of the door with hinge pin anchored above and below the bearing point with four point contact. Top hinge shall have shock absorber device on hinge pin to prevent door from being forced beyond 85°. Doors shall swing to 120° with absorber device activating at 85°. Both top and bottom hinge units shall be anodizing, polished high tensile air craft type aluminum. (Hinges are chrome-plated for designs with porcelain finish.)

Coat Hooks, Latches, Bumpers—each door to be equipped with one cast alloy chromium plated coat hook, bumper, and slide bar latch with keeper. Fastenings shall be Phillips head type, or vandal proof—one way heads (specify one).

finish and color

Baked synthetic enamel (for designs no. 10-1, 20-1, 30-1, 40-1, 40-5, 50-1).

All surfaces to be cleaned and sanded smooth prior to application of synthetic enamel applied in separate operations utilizing latest viscosity controlled hot spray methods, and baked at 310° F. Color coat to be baked to a uniform, smooth, lustrous, protective finish. Finished paint thickness to be no less than 1¼ mill, as recommended by national paint manufacturers. Two colors to be selected from manufacturer's color chart.

Vitreous Porcelain Enamel (Designs no. 30-2, 40-2, 50-2).

All surfaces to be cleaned and sanded smooth prior to application of a base coat of vitreous porcelain on the inside and outside of each formed piece. Finish color coat shall be separately applied to exterior of units. Process all in accordance with Porcelain Enamel Institute standards.

Also—Sparkling Aluminum Toilet Partitions

(for long life and the last word in beauty)

•

Write today for specifications on our Models 30–7, 40–7, and 50–7

WE CHOSE
ALCOA
ALUMINUM
MILL PRODUCTS
ALUMINUM COMPANY OF AMERICA

A.I.A. File No. 35 H 6

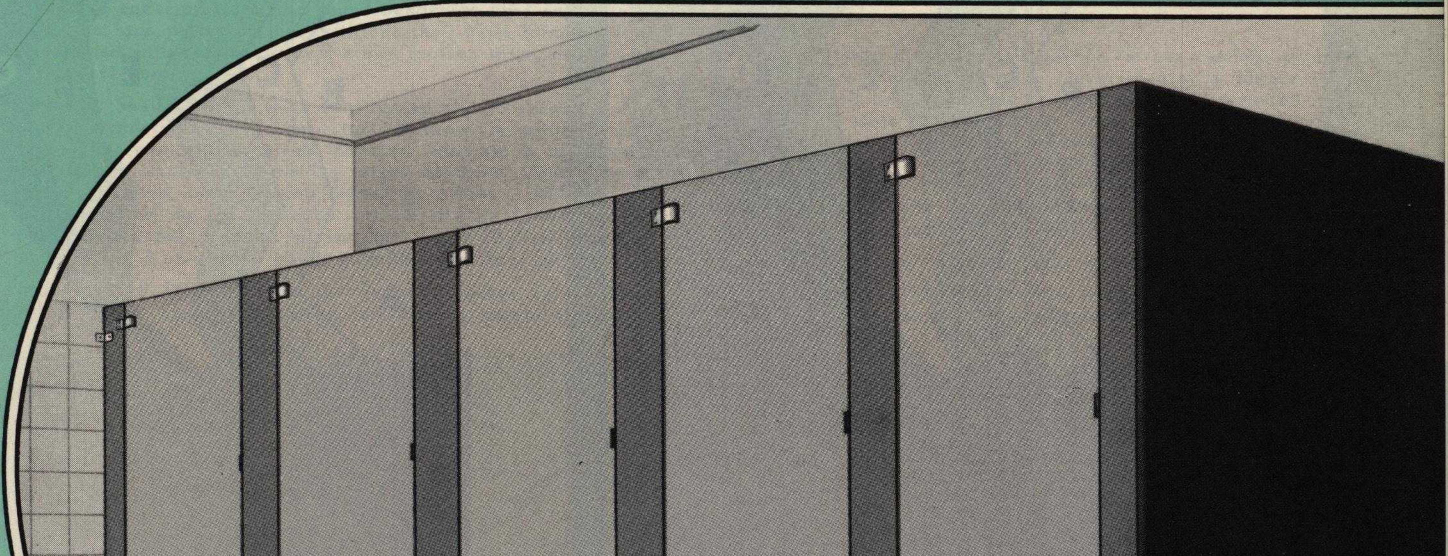
General
ERIE

GENERAL WELDING & FABRICATING COMPANY
1702 PENINSULA DRIVE • ERIE, PENNSYLVANIA

STEEL ENCLOSURES

for toilets, showers and dressing cubicles

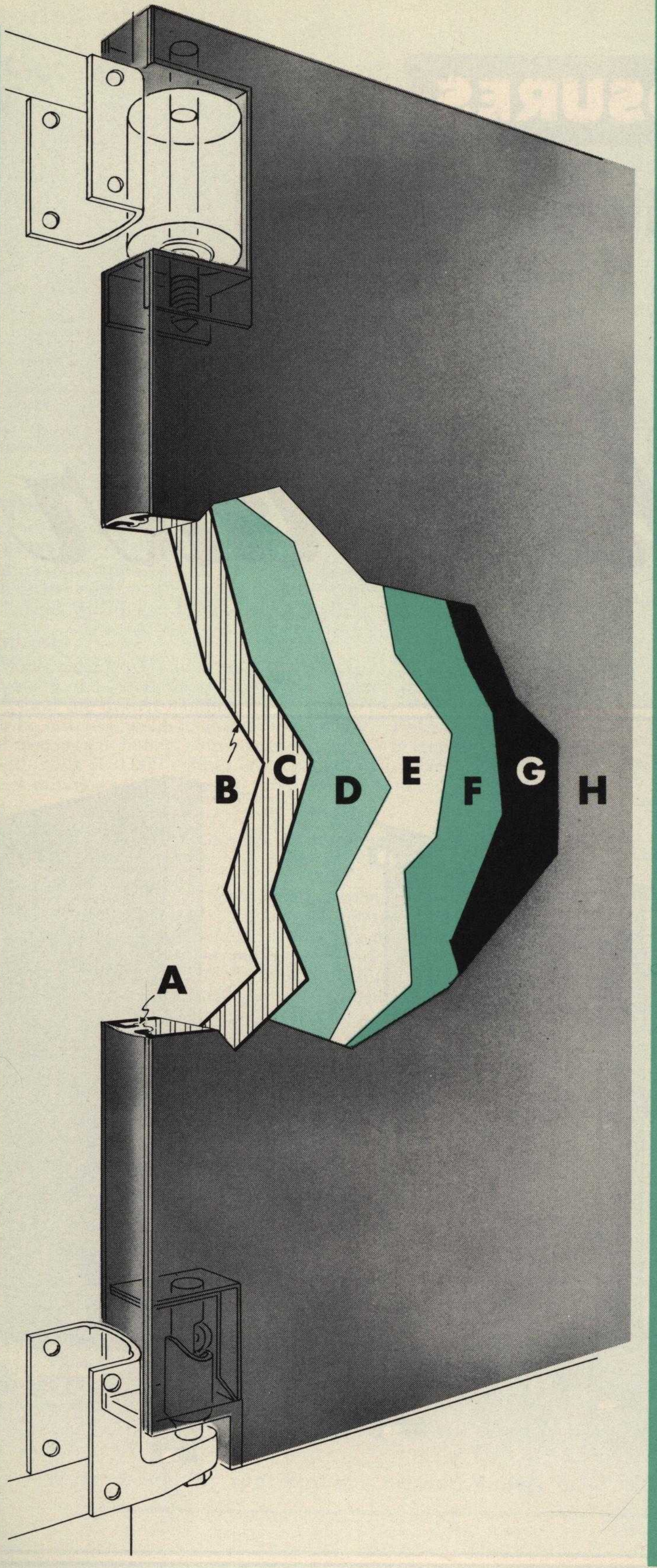
Knickerbocker



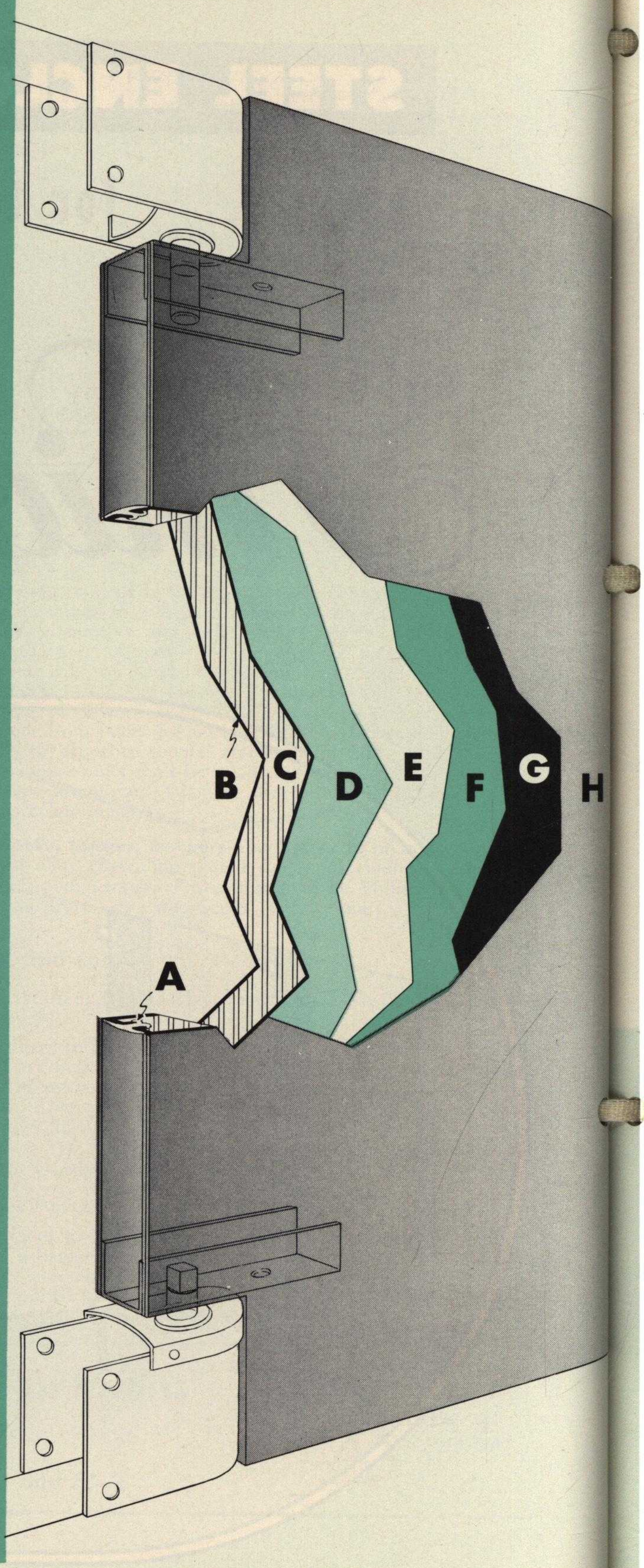
KNICKERBOCKER STEEL PARTITION CO., INC.

91 LORIMER STREET • BROOKLYN, N. Y.

CONCEALED HINGE
for types XLF and CHF

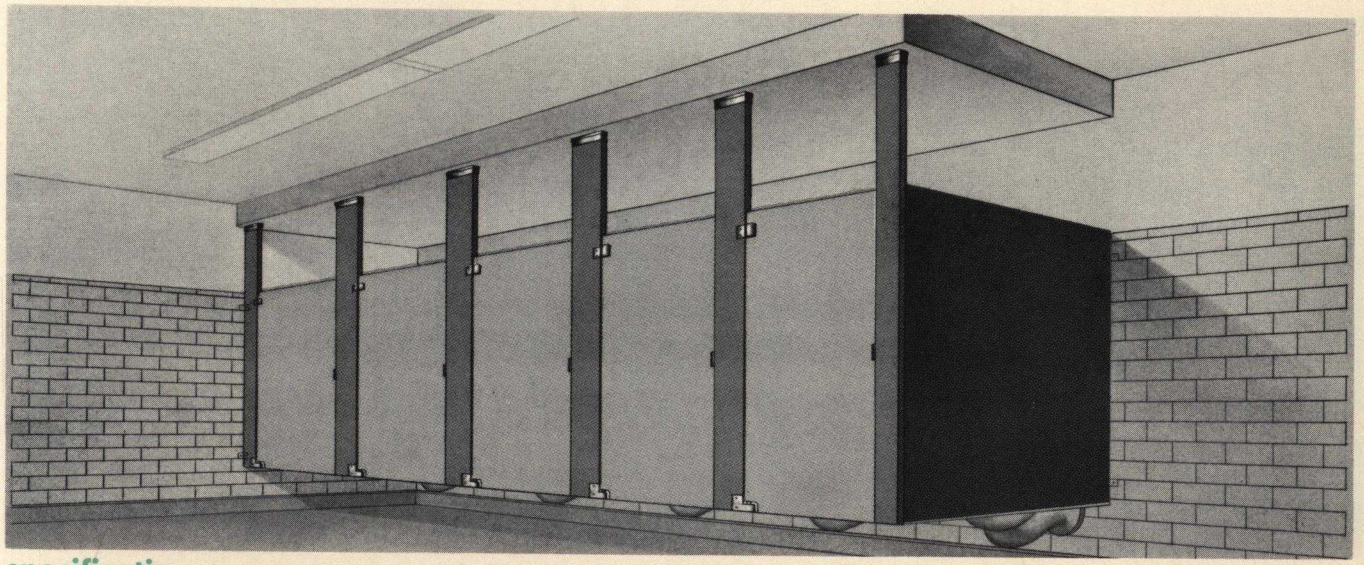


STANDARD HINGE
for types XLFH and XLPH



A — Interlocking, die-drawn moulding
B — Steel sheet
C — Fibre core insulation
D — Bonderized-galvanized coating
E — Sanded and degreased
F — Prime coating
G — First finished coat
H — Final coat

CEILING HUNG FLUSH PANELS TYPE CHF



specifications

doors and partitions: Shall be 1" thick constructed of two sheets of #20 gauge Galvanized-Bonderized steel assembled over and cemented under pressure to a sound deadening fibre core insulation. The face plates of the partitions shall have formed edges and sealed with continuous oval crown locking strips mitred and welded at corners.

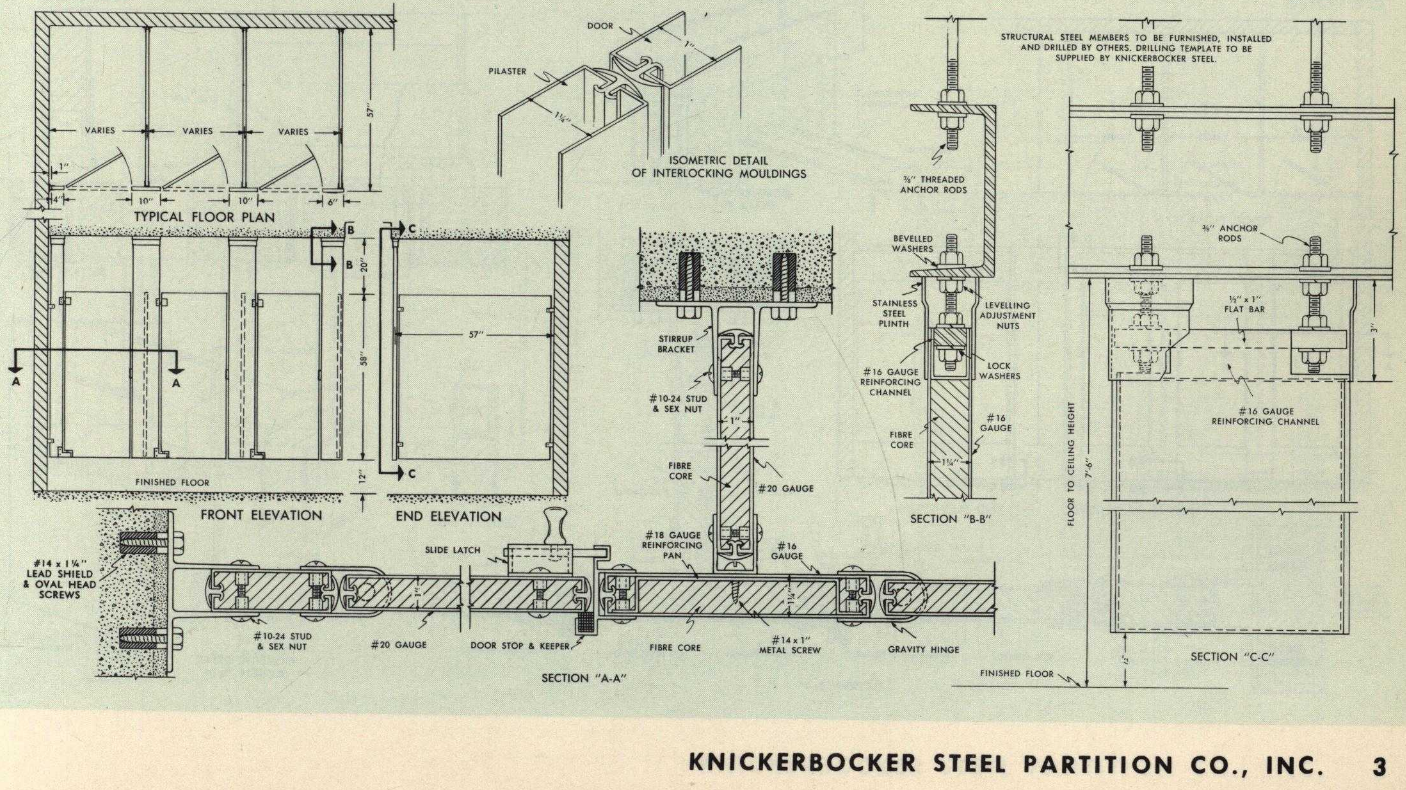
pilasters: Shall be 1 ¼" thick constructed of two sheets of #16 gauge Bonderized-Galvanized steel securely re-inforced with #18 gauge oval locking strips. Pilasters when set in place shall be securely anchored to ceiling beam members. Ceiling Beam to be furnished, installed and drilled by others, (Drilling Template supplied by Knickerbocker) to receive anchoring devices for Pilasters before finish plaster has been applied. Pilasters shall have a 3" high #20 gauge stainless steel floor plinth.

fittings: Wall fittings to be non ferrous castings (brass-zinc). All hardware and fittings to be fastened by means of tamper proof sex bolts and self tapping tamper proof screws. Fittings are painted color to match partitions as a standard, chrome plated available at additional charge.

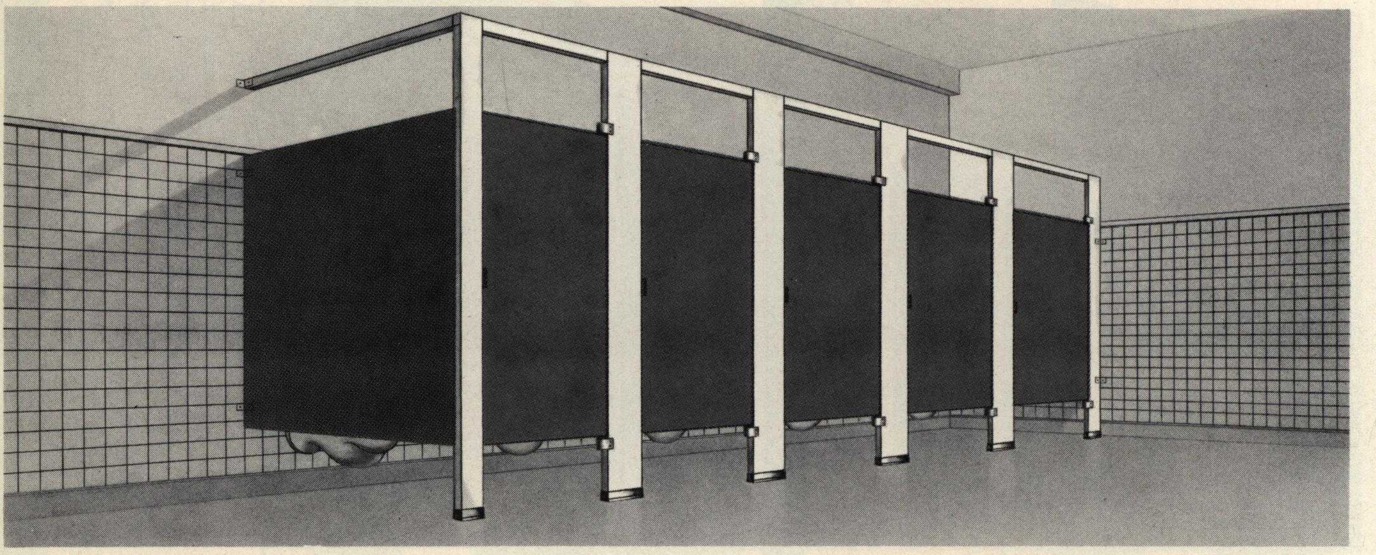
hardware: Hinge brackets shall be non ferrous castings chrome plated. Doors shall be hung on universal gravity hinges with concealed ball bearing rollers and hardened cam mounted in a recess in the edge of door. Upper hinge pin assembly to set in cutout near top of door. No hardware shall extend above or below door line. Doors shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber tipped bumper. (All of non ferrous castings.) Door pulls and two prong coat hooks supplied with outswinging doors.

finish: All materials shall be given one coat of rust resisting primer baked on followed by two coats of high temperature baked synthetic enamels. Color as selected.

details


VARIES
VARIES
VARIES
57"
1"
4"
10"
10"
6"
TYPICAL FLOOR PLAN
B
B
C
20"
58"
12"
A
A
C
57"
FINISHED FLOOR
FRONT ELEVATION
END ELEVATION
DOOR
PILASTER
1"
1¼"
ISOMETRIC DETAIL OF INTERLOCKING MOULDINGS
STIRRUP BRACKET
#10-24 STUD & SEX NUT
1"
FIBRE CORE
#20 GAUGE
#18 GAUGE REINFORCING PAN
#16 GAUGE
#14 x 1¼" LEAD SHIELD & OVAL HEAD SCREWS
SLIDE LATCH
1"
1¼"
#10-24 STUD & SEX NUT
#20 GAUGE
DOOR STOP & KEEPER
FIBRE CORE
#14 x 1" METAL SCREW
GRAVITY HINGE
SECTION "A-A"
STRUCTURAL STEEL MEMBERS TO BE FURNISHED, INSTALLED AND DRILLED BY OTHERS. DRILLING TEMPLATE TO BE SUPPLIED BY KNICKERBOCKER STEEL.
⅜" THREADED ANCHOR RODS
BEVELLED WASHERS
STAINLESS STEEL PLINTH
LEVELLING ADJUSTMENT NUTS
#16 GAUGE REINFORCING CHANNEL
LOCK WASHERS
FIBRE CORE
#16 GAUGE
1¼"
SECTION "B-B"
⅜" ANCHOR RODS
½" x 1" FLAT BAR
3"
#16 GAUGE REINFORCING CHANNEL
FLOOR TO CEILING HEIGHT
7'-6"
12"
FINISHED FLOOR
SECTION "C-C"

OVERHEAD BRACED FLUSH PARTITIONS **TYPE XLFH**



specifications

doors & partitions shall be 1" thick constructed of two sheets of #20 gauge Galvanized-Bonderized steel assembled over and cemented under pressure to a sound deadening fibre core insulation. The face plates of the partitions shall have formed edges and sealed with continuous oval crown locking strips mitred and welded at corners.

pilasters shall be 1¼" thick constructed of #20 gauge Bonderized-Galvanized steel securely re-inforced with #18 gauge oval locking strips. Pilasters shall be anchored to finished floor with adjustable floor brackets concealed by a 3" high, #20 gauge stainless steel floor plinth. Headrail shall be 1" x 1½" tubular steel of #18 gauge, inserted and securely fastened into top of pilasters.

fittings: Wall fittings to be non ferrous castings. All hardware and fittings to be fastened by means of tamper proof sex bolts and self tapping tamper proof screws. Brass fittings both chrome plated and painted available at an additional charge.

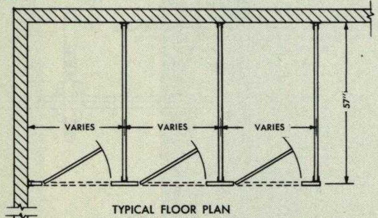
hardware: Doors shall be hung on universal gravity hinges with concealed ball bearing rollers and hardened cam. Upper hinge pin assembly to set in edge of door. Doors shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber tipped bumper. (Door pulls and two prong coat hooks supplied with outswinging doors.)

finish: All materials shall be given one coat of rust resisting primer baked on followed by two coats of high temperature baked synthetic enamels.

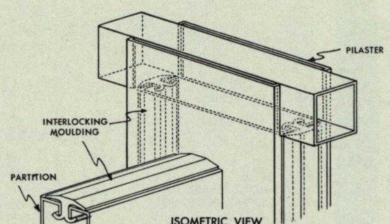
Color to be selected.

***NOTE: Concealed hinges as shown on Page 2 also available at slight additional cost.**

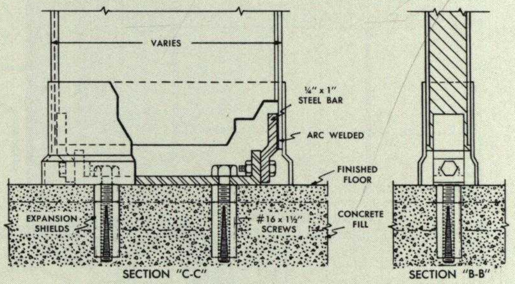
details


VARIES
VARIES
VARIES
57"

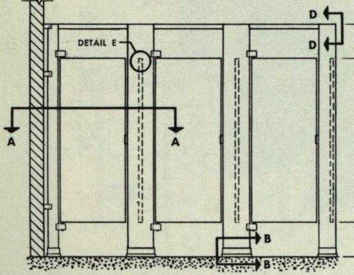
TYPICAL FLOOR PLAN


PILASTER
INTERLOCKING MOULDING
PARTITION

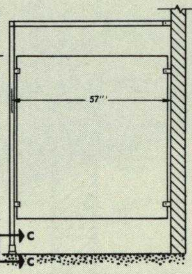
ISOMETRIC VIEW DETAIL "E"


VARIES
¼" x 1" STEEL BAR
ARC WELDED
FINISHED FLOOR
EXPANSION SHIELDS
#16 x 1½" SCREWS
CONCRETE FILL
SECTION "C-C"
SECTION "B-B"

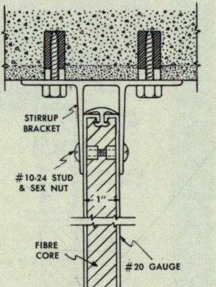
METHOD OF ANCHORING TO FINISHED FLOOR

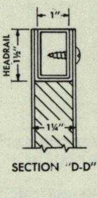

DETAIL E
D
D
A
A
B
12"
58"
12"

FRONT ELEVATION

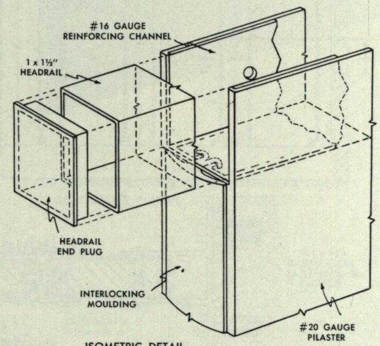


END ELEVATION

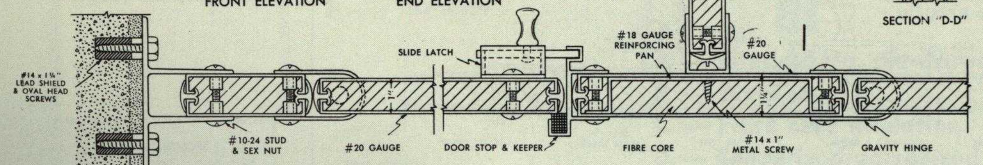

STIRRUP BRACKET
#10-24 STUD & SEX NUT
1"
FIBRE CORE
#20 GAUGE
#18 GAUGE REINFORCING PAN
#20 GAUGE


1"
HEADRAIL
1½"
1¼"

SECTION "D-D"

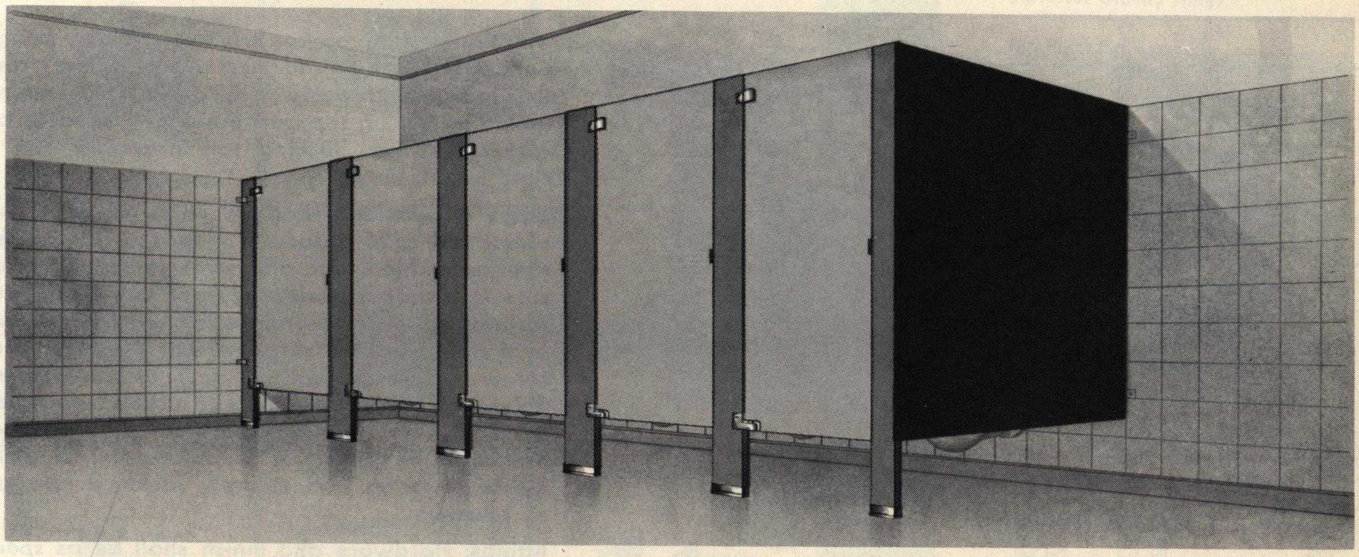

#16 GAUGE REINFORCING CHANNEL
1 x 1½" HEADRAIL
HEADRAIL END PLUG
INTERLOCKING MOULDING
#20 GAUGE PILASTER

ISOMETRIC DETAIL SECTION "D-D"


#14 x 1¼" LEAD SHIELD & OVAL HEAD SCREWS
SLIDE LATCH
1"
1¼"
#10-24 STUD & SEX NUT
#20 GAUGE
DOOR STOP & KEEPER
FIBRE CORE
#14 x 1" METAL SCREW
GRAVITY HINGE

SECTION "A-A"

FLOOR MOUNTED FLUSH PANELS **TYPE XLF**



specifications

doors & partitions: Shall be 1" thick constructed of two sheets of #20 gauge Galvanized-Bonderized steel assembled over and cemented under pressure to a sound deadening fibre core insulation. The face plates of the partitions shall have formed edges and sealed with continuous oval crown locking strips mitred and welded at corners.

pilasters: Shall be 1¼" thick constructed of two sheets of #16 gauge Bonderized-Galvanized steel securely re-inforced with #18 gauge oval locking strips. Pilasters when set in place shall be securely anchored to solid sub-floor not more than two inches below finish floor. Sub-floor to be provided by others for anchoring devices of Pilasters. Pilasters are adjustable to compensate for any unevenness of walls and floor. Pilasters shall have a 3" high #20 gauge stainless steel floor plinth.

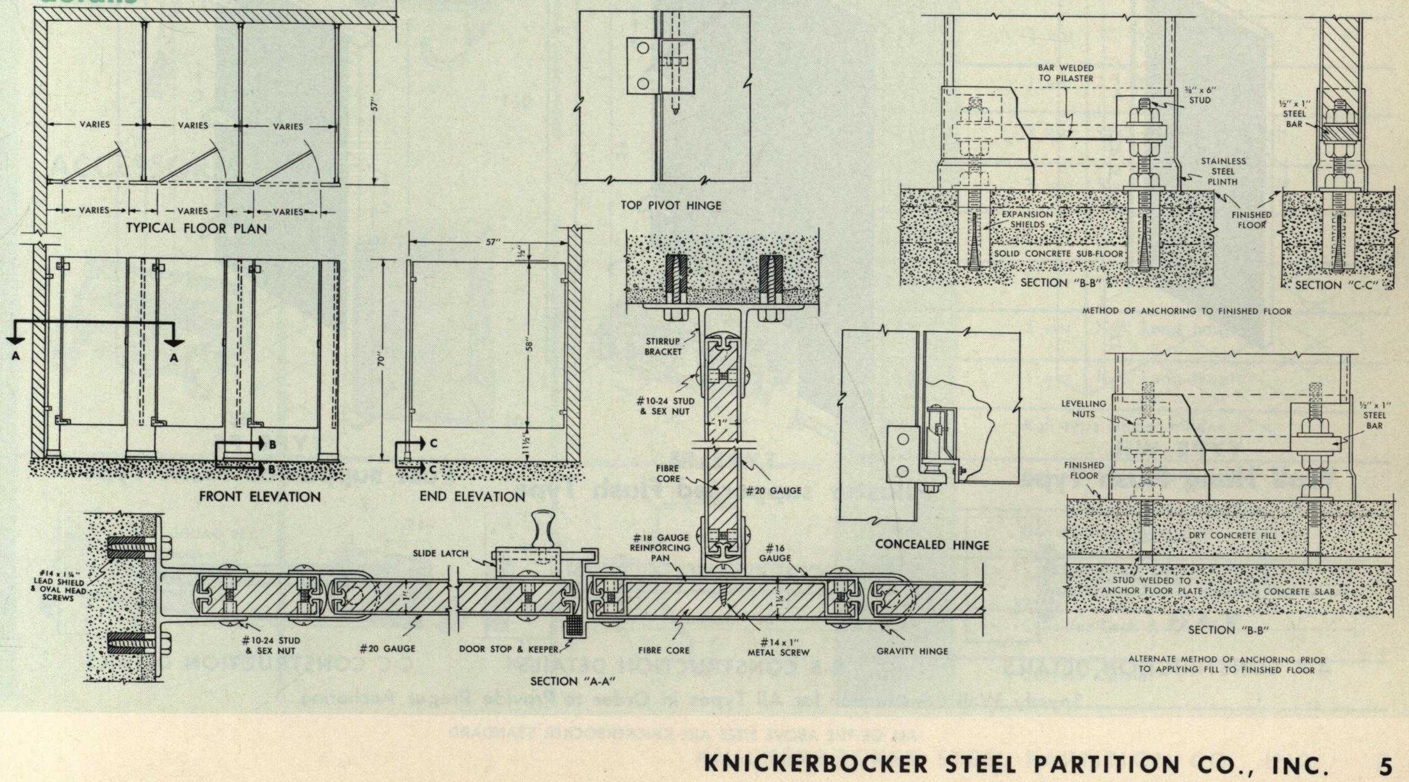
fittings: Wall fittings to be non ferrous castings (brass-zinc). All hardware and fittings to be fastened by means of tamper proof sex bolts and self tapping tamper proof screws. Fittings are painted color to match partitions as a standard, chrome plated available at additional charge.

hardware: Hinge brackets shall be non ferrous castings chrome plated. Doors shall be hung on universal gravity hinges with concealed ball bearing rollers and hardened cam mounted in a recess in the edge of door. Upper hinge pin assembly to set in cutout near top of door. No hardware shall extend above or below door line. Door shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber tipped bumper. (All of non ferrous castings.) Door pulls and two prong coat hooks supplied with outswinging doors.

finish: All materials shall be given one coat of rust resisting primer baked on followed by two coats of high temperature baked synthetic enamels.

Color to be selected.

details


VARIES
57"
A
B
C
58"
70"
11½"
½"
BAR WELDED TO PILASTER
⅜" x 6" STUD
STAINLESS STEEL PLINTH
FINISHED FLOOR
EXPANSION SHIELDS
SOLID CONCRETE SUB-FLOOR
½" x 1" STEEL BAR
STIRRUP BRACKET
#10-24 STUD & SEX NUT
1"
FIBRE CORE
#20 GAUGE
#18 GAUGE REINFORCING PAN
#16 GAUGE
SLIDE LATCH
#14 x 1¼" LEAD SHIELD & OVAL HEAD SCREWS
DOOR STOP & KEEPER
#14 x 1" METAL SCREW
GRAVITY HINGE
LEVELLING NUTS
DRY CONCRETE FILL
STUD WELDED TO ANCHOR FLOOR PLATE
CONCRETE SLAB

TYPICAL FLOOR PLAN

TOP PIVOT HINGE

SECTION "B-B"

SECTION "C-C"

METHOD OF ANCHORING TO FINISHED FLOOR

FRONT ELEVATION

END ELEVATION

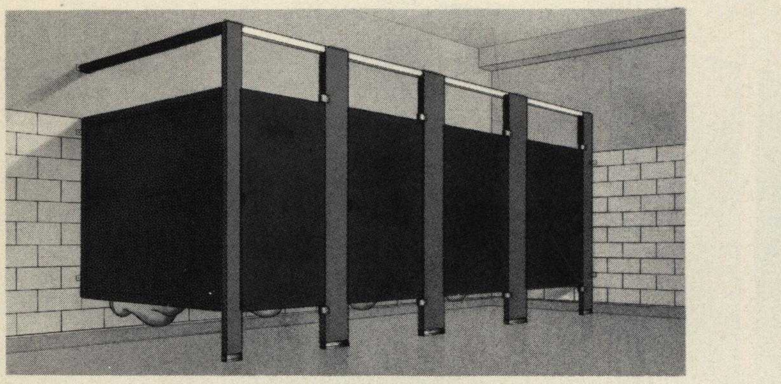
CONCEALED HINGE

SECTION "A-A"

SECTION "B-B"

ALTERNATE METHOD OF ANCHORING PRIOR TO APPLYING FILL TO FINISHED FLOOR

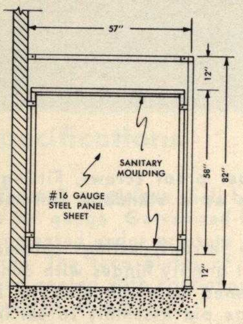
OVERHEAD BRACED PANEL PARTITIONS **TYPE XLPH**



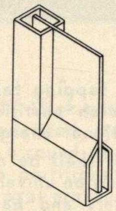
partitions: Shall be constructed of #16 gauge Bonderized-Galvanized steel inserted into front and rear tubular posts, with sanitary "V" shaped moulding set on top and bottom, welded at all corners securely locking this assembly into a rigid panel.

doors & pilasters: shall be constructed of two sheets of #20 gauge Bonderized-Galvanized steel assembled over and cemented under pressure to a sound deadening fibre core insulation, securely re-inforced and sealed with continuous oval crown locking strips mitred and welded at corners. Pilasters shall be anchored to finished floor with adjustable floor brackets concealed by a 3" high stainless steel floor plinth. Head-rail shall be 1" x 1½" tubular steel of #18 gauge, inserted and securely fastened into top of pilasters.

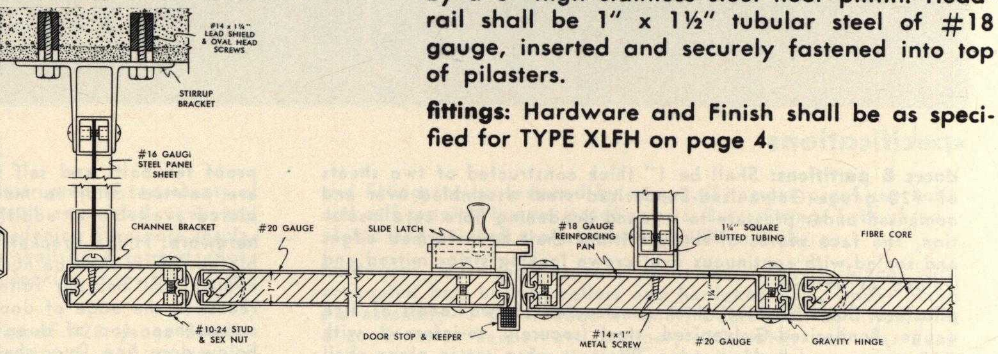
fittings: Hardware and Finish shall be as specified for TYPE XLFH on page 4.


57"
12"
58"
82"
12"
SANITARY MOULDING
#16 GAUGE STEEL PANEL SHEET

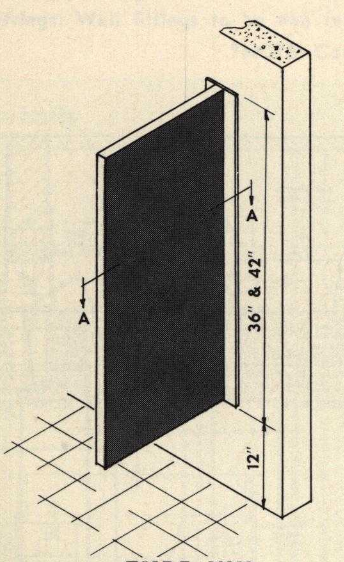
END ELEVATION



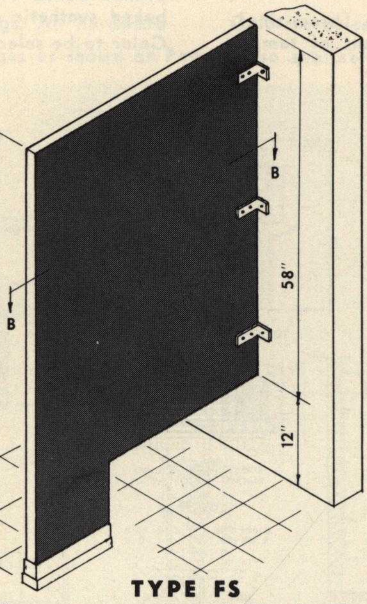
ISOMETRIC DETAIL OF PANEL


#14 x 1¼" LEAD SHIELD & OVAL HEAD SCREWS
STIRRUP BRACKET
#16 GAUGE STEEL PANEL SHEET
CHANNEL BRACKET
#20 GAUGE
1"
#10-24 STUD & SEX NUT
SLIDE LATCH
DOOR STOP & KEEPER
#18 GAUGE REINFORCING PAN
#14 x 1" METAL SCREW
1¼" SQUARE BUTTED TUBING
1¼"
#20 GAUGE
FIBRE CORE
GRAVITY HINGE

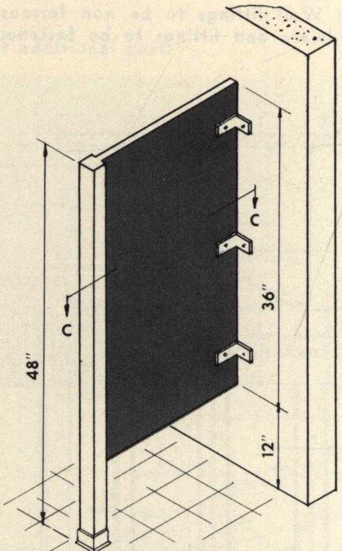
FLUSH URINAL SCREENS



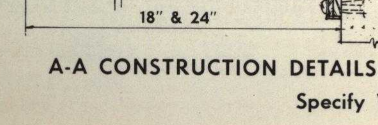
TYPE WH
Wall Hung Flush Type



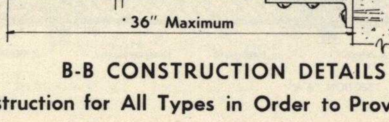
TYPE FS
Pilaster supported Flush Type



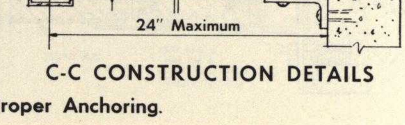
TYPE PS
Post supported Flush Type


#16 GAUGE
1¼"
18" & 24"

A-A CONSTRUCTION DETAILS


#16 GAUGE
1¼"
36" Maximum

B-B CONSTRUCTION DETAILS

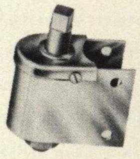

1¾"
1"
#20 GAUGE
24" Maximum

C-C CONSTRUCTION DETAILS

Specify Wall Construction for All Types in Order to Provide Proper Anchoring.

ALL OF THE ABOVE SIZES ARE KNICKERBOCKER STANDARD

HARDWARE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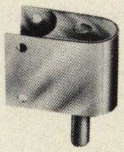
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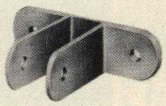
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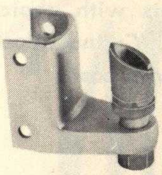
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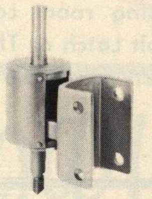
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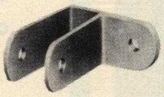
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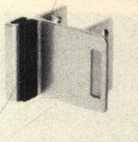
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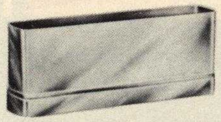
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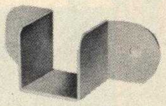
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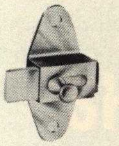
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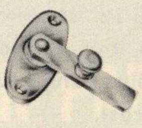
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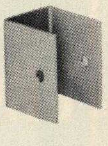
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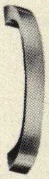
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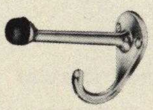
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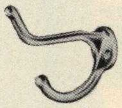
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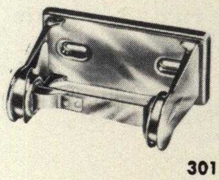
ACCESSORIES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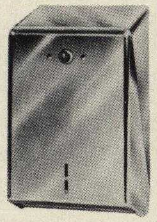
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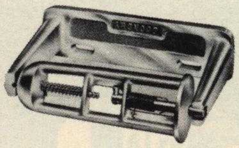
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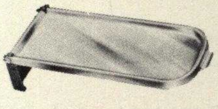
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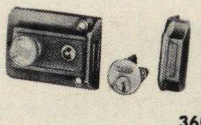
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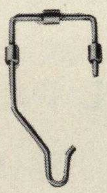
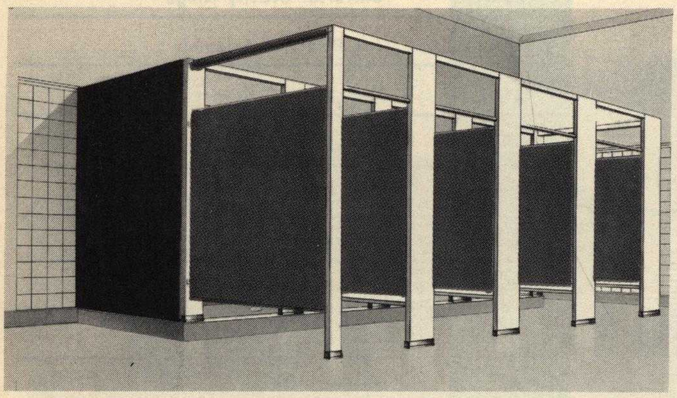

315

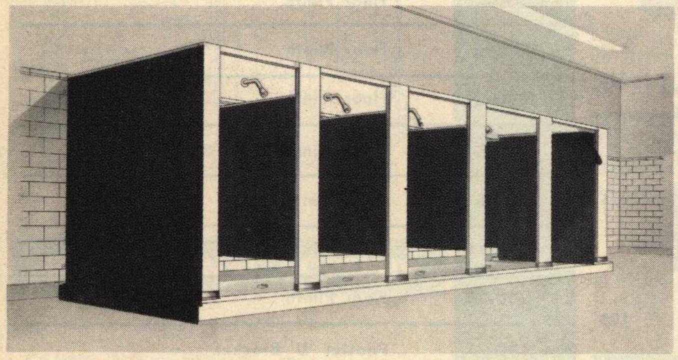
NO.	ITEM
225	Universal Gravity Hinge
245	Top Pivot Pin Assembly
150	Door Strike & Keeper (Inswing)
151	Door Strike & Keeper (Outswing)
240	Top Hinge Assembly
230	Concealed Bottom Hinge
251	Door Strike & Keeper (Outswing)
136	Slide Bolt Latch
137	Throw Latch
171	Door Pull
160	Combination Coat Hook & Bumper
161	Two Prong Coat Hook
200-3	Floor Plinth
200-4	Floor Plinth
200-5	Floor Plinth
200-6	Floor Plinth
200-8	Floor Plinth
200-10	Floor Plinth
200-12	Floor Plinth
190	Pilaster 'U' Bracket
215	Headrail Wall Fitting
	Wall Brackets
175	2 ear 1" Standard length
176	1 ear 1" Standard length
183	2 ear 1¼" Standard length
184	1 ear 1¼" Standard length
179	2 ear 1" Long length
180	1 ear 1" Long length
185	2 ear 1¼" Long length
186	1 ear 1¼" Long length
301	Roll type paper holder
302	Cabinet type paper holder
303	Government type paper holder
350	Folding Purse Shelf
360	Cylinder Lock & Key Set
315	Curtain Carrier

DRESSING ROOMS & SHOWER STALLS



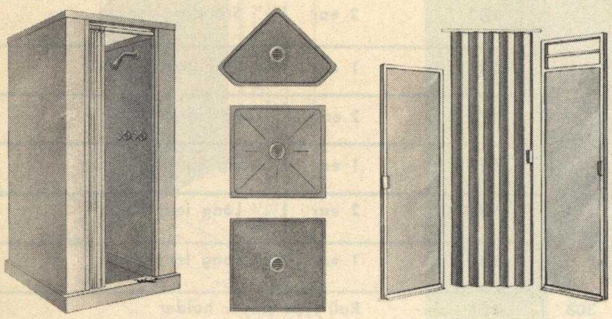
dressing rooms & shower stall compartments are available in our full flush line of partitions such as; TYPES XLFH and CHF with concrete curbs to be built and supplied by others. (Refer to pages 3 and 4 for specifications of both these types). Curtain carriers, curtains and curtain rods supplied at additional cost. Doors are furnished with dressing room compartments with choice of Slide Bolt Latch or Throw Latch. (Cylinder lock and key sets available at additional cost).

GANG SHOWER STALLS



gang shower stall compartments are supplied in our TYPE XLFH. For details of construction and specifications, see page 4. Shower basin or Concrete curbs to be furnished and installed by others. This type of installation is recommended for industrial plants, schools, gymnasiums, etc. because of its simplicity in keeping sanitary, resulting in low maintenance cost. Curtain carriers, curtains and curtain rods available at additional cost.

SELF CONTAINED SHOWER UNITS



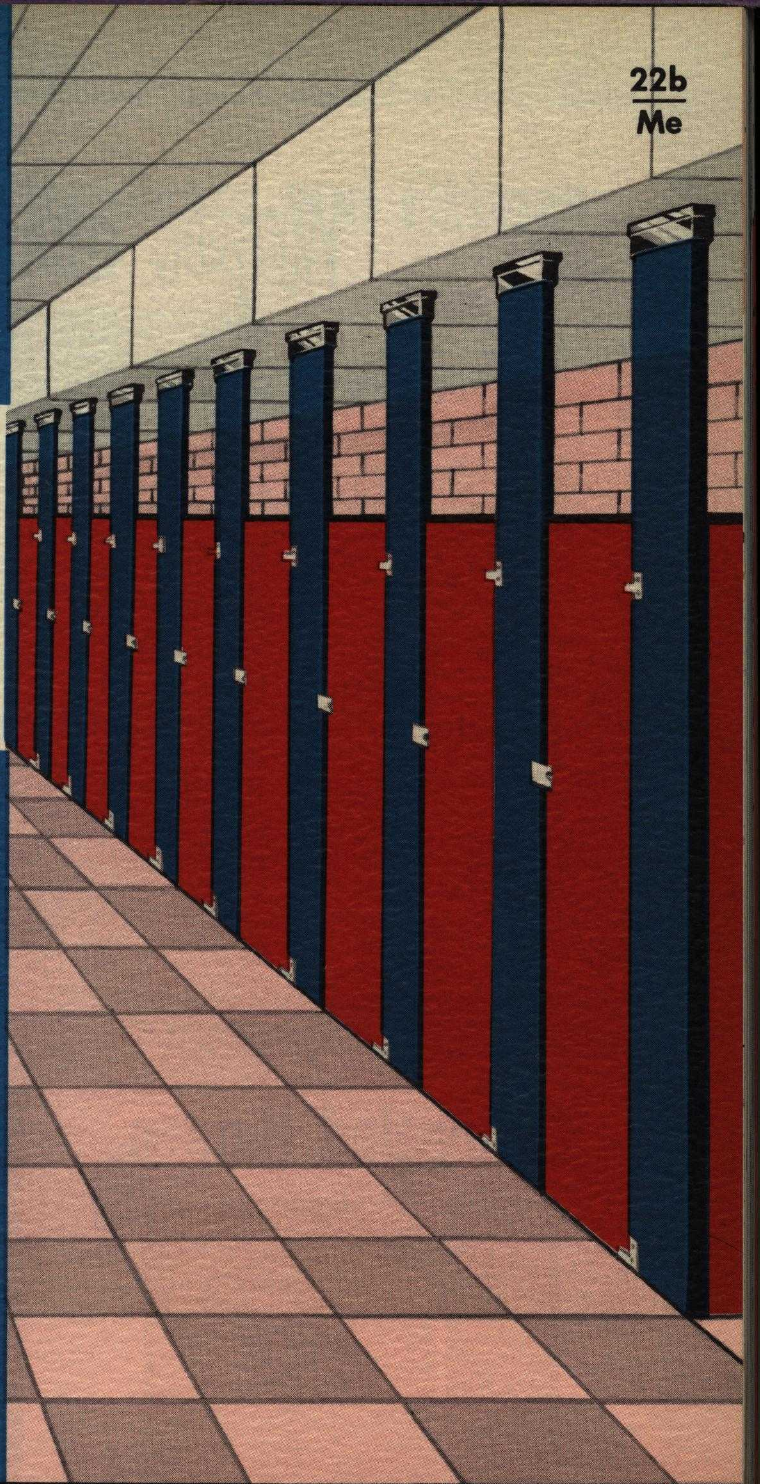
self contained shower cabinets are available in single and multiple units with or without dressing room facilities. This shower cabinet is made of extra heavy gauge Bonderized-Galvanized steel. Rounded corners, deluxe trim are standard. Finish in two coat lustrous baked enamel as selected, complete with chrome plated trim and accessories. Glass and Plastik-Fold doors are available for this model as optional extras. Sizes are 30" x 30" x 80", 32" x 32" x 80" and 36" x 36" x 80". Choice of four receptors.

Knickerbocker STEEL PARTITION CO., INC.

STagg 2-4112 91 LORIMER STREET • BROOKLYN, N. Y.

22b
Me

Metpar



TOILET PARTITIONS
SHOWER PARTITIONS
HOSPITAL CUBICLES

MANUFACTURERS OF QUALITY STEEL PRODUCTS

Metpar

METPAR STEEL PRODUCTS CORP.
97 STATE STREET, WESTBURY, L.I., N.Y. ■ EDGEWOOD 3-2600

CATALOG TP-60

Metpar QUALITY STEEL PRODUCTS

Metpar Toilet Compartments are a high quality product designed and developed by engineers who have had many years of manufacturing and field experience. It is a product made up of the best materials available and produced by competent skilled craftsmen.

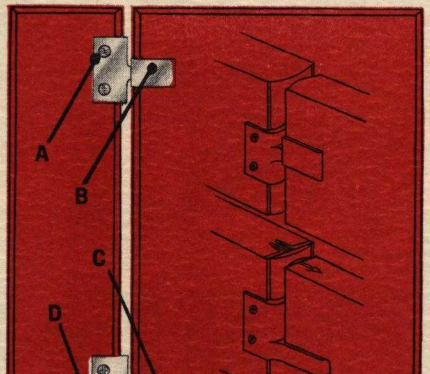
Metpar Toilet Compartments have been installed in many of the large schools, hospitals, office and commercial buildings throughout the country and have been commended by some of the leading Architects and Construction firms for QUALITY, DESIGN and SERVICE. Your inquiries to either the Home Office or the nearest field representative will receive prompt attention.

A WORD ABOUT ENAMEL FINISHES

Metpar Toilet Compartments are available in a wide selection of 24 pleasing colors and may be had in any combination of colors where a two tone effect is desired between doors and pilasters. Special match finishes are available at slight additional cost.

Write for our Color Selector Chart which shows actual colors available.

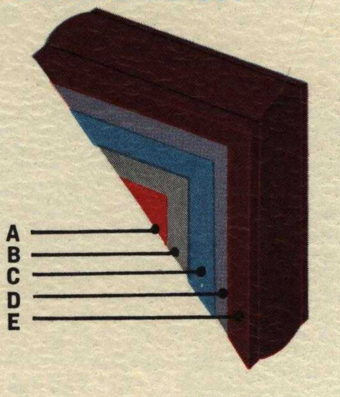
Concealed Hinges



- **A** • Top hinge bracket with bronze bearing, self lubricating.
- **B** • Chrome closure cup conceals unsightly opening without causing door to bind.
- **C** • Gravity hinge assembly concealed within door, operating on Bronze Bearing. Self-lubricating.
- **D** • Bottom hinge bracket . . . heavy non-ferrous casting. Chrome plated.

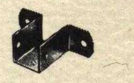
Bonderized-Galvanized Steel

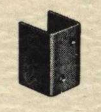
The ABC's of
- **LONGER WEAR**
- **BETTER SERVICE**
- **LASTING BEAUTY**

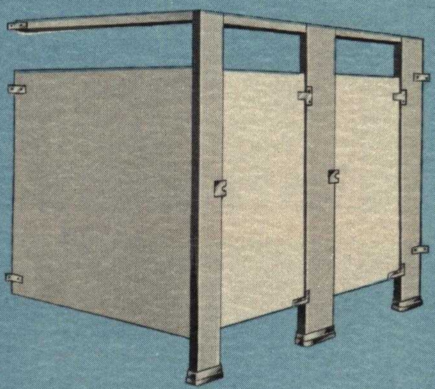


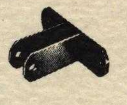
- **A** • Cold rolled copper bearing steel.
- **B** • Smooth galvanized coating.
- **C** • Bonderized for adhesion and rust resistance.
- **D** • Baked rust-resistant primer.
- **E** • **TWO** coats of finish color baked on high baking formula synthetic enamel.

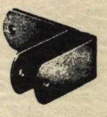
Metpar Standard Hardware and Fittings

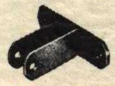

HEAD RAIL
WALL FITTING
#130

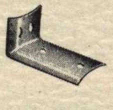

HEAD RAIL
STILE BRACKET
#131

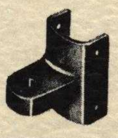


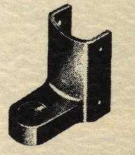

DOUBLE EAR
WALL BRACKET
#144-1"
for Flush Partition

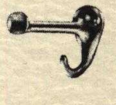

ONE EAR
WALL BRACKET
#145-1"
for Flush Partition

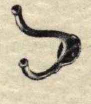

WALL BRACKET
#146-1¼"
for Pilasters &
Panel Partitions

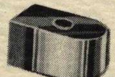

PARTITION CLIP
#155

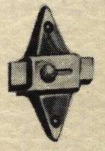

TOP HINGE
BRACKET
#C-350-3

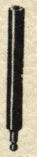

BOTTOM
HINGE BRACKET
#C-300-4

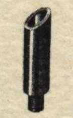

RUBBER TIP
COAT HOOK
(inswing) #440

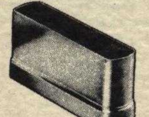

DOUBLE PRONG
COAT HOOK
(outswing) #445

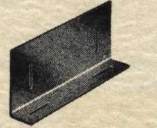

TOP HINGE CUP
#C-350-1

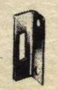

SLIDE BOLT LATCH
#430

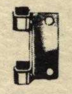

TOP DOOR PIN
#C-350-4

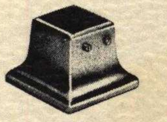

CAM
#C-300-2

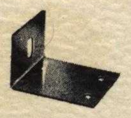

FLOOR PLINTH
#110
2", 3", 4", 5", 6",
7", 8", 10", 12" long.

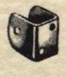

FLOOR BRACKET
#120
2", 3", 4", 5", 6",
7", 8", 10", 12" long.

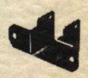

DOOR KEEPER
#400
Pilaster Type
(inswing)

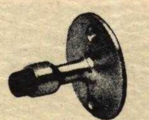

DOOR STRIKE
#420
Pilaster Type
(in & out swing)

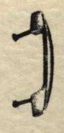

POST FLOOR SHOE
#208
1¾" x 1¾"


HEAD RAIL
WALL CLIP
#132

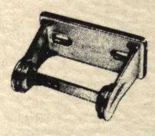

PILASTER
BRACKET
#148

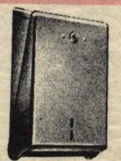

POST BOTTOM
WALL BRACKET
#135

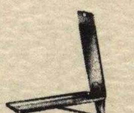

DOOR BUMPER
#450

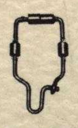

DOOR PULL
#435

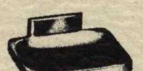
Accessories

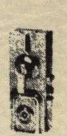

ROLL TYPE
PAPER HOLDER
#460


CABINET TYPE
PAPER HOLDER
#475

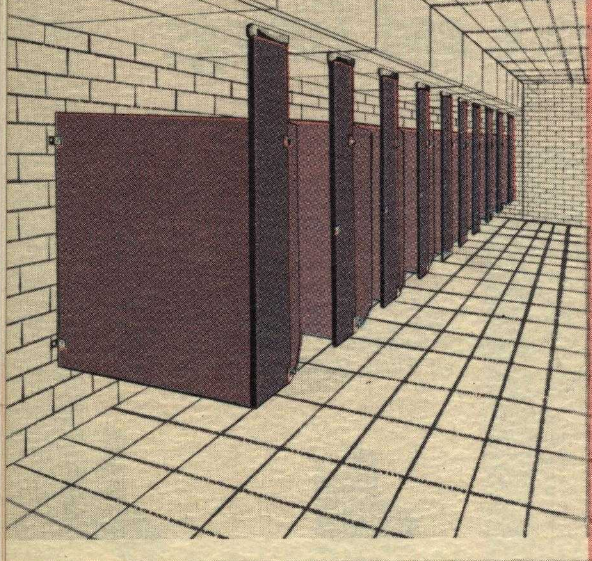

FOLDING PURSE
SHELF
#550


CURTAIN HOOK
#500
for 1" x 1½"
head rail

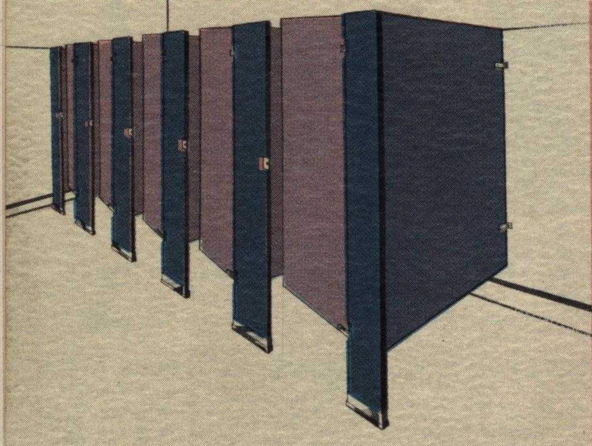

SOAP DISH
#490


COIN LOCK
5¢ or 10¢ Coin

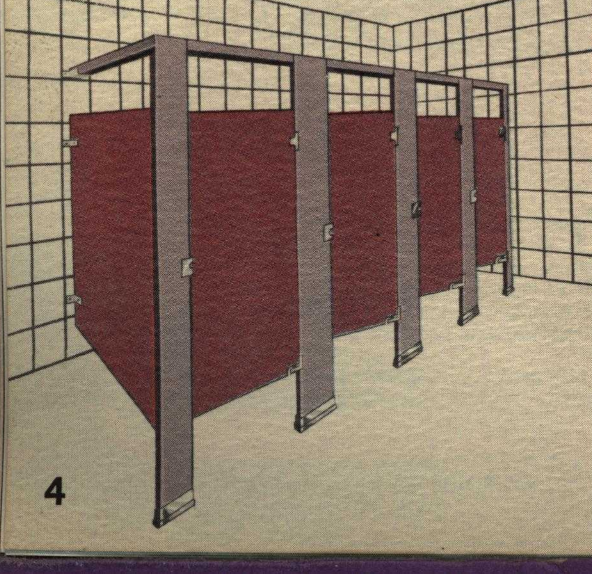
Type CH-700
CEILING HUNG



Type FT-700
FLOOR MOUNTED



Type FP-500 Flush
HEAD RAIL BRACED



General Specifications

APPLICABLE TO ALL TYPES

MATERIAL:

STEEL: BONDERIZED GALVANIZED, if specified by Architect, otherwise cold rolled, copper bearing furniture steel will be furnished. All steel stretcher leveled.

GAGES:

Partitions	#20 Gage
Doors	#20 Gage
Pilasters (Type FP-500)	#20 Gage
Pilasters (Type CH-700 & FT-700)	#16 Gage
Oval Locking Moulding (Partitions & Doors)	#20 Gage
Oval Locking Moulding (Pilasters)	#18 Gage
Headrail (Type FP-500)	#18 Gage
Concealed Reinforcements	#12 Gage

CORES: STRUCTURAL HONEYCOMB, Cellular boards faced with Kraft and SOUND DEADENED to fill entire interior area of partitions, doors and pilasters.

CONSTRUCTION:

PARTITIONS & DOORS: are 1″ thick constructed of two sheets of formed steel panels cemented to honeycomb core under pressure for 24 hours. This assembly is permanently locked under tension and sealed with drawn oval shaped interlocking moulding forming a solid, airtight, sound deadened FLUSH UNIT. All corners are mitred, welded by SPECIAL PROCESS and ground smooth forming a continuous edge moulding. DUE TO OUR SPECIAL WELDING PROCESS OUR PARTITIONS & DOORS CANNOT RACK OR TWIST OUT OF PLANE AND WILL REMAIN FLAT UNDER ANY UNUSUAL TORSIONAL STRESS.

PILASTER: are 1¼″ thick constructed of two sheets of formed steel panels cemented to honeycomb core under pressure for 24 hours. All pilasters are strengthened with concealed steel plates, internally welded to reinforce pilasters for hardware and partition connections and to RESIST EXCESSIVE VIBRATION caused by closing of doors.

HARDWARE: Non-Ferrous Chrome Plated

HINGES: All doors will be equipped with CONCEALED HINGES consisting of INTERNAL bottom gravity hinge assembly with hardened cam and ball bearing rollers of corrosion resisting steel; and self lubricating bronze bearings.
The top hinge will be set in a cut out near the top of door. This cut out will be internally reinforced and CONCEALED with a chrome plated hinge casing which will be the same thickness as the door. Hinges will NOT PROJECT above or below the edges of door.

Miscellaneous: Each door will be furnished with a SLIDE LATCH (non-vibrating), STRIKE, KEEPER with live rubber bumper and clamp flanges, COAT HOOK, rubber tipped for inswinging doors and double pronged for outswinging doors. Outswinging doors to have cast chrome plated door pull.

General: Hinges are adjustable to allow doors to remain open at any desired position when unlatched or may be used double acting.
All hardware will be non-ferrous castings designed to withstand a great degree of stresses and strains with a high factor of safety. All hardware will have heavy polished chrome plated finish.

Fittings: Wall fittings will be furnished in heavy gage drawn steel, enameled same color as partitions. Polished chrome plated stirrup brackets are available at slight additional cost. Pilaster Plinths will be 3″ high of polished STAINLESS STEEL (Type 18-8).

Fastenings: All wall and pilaster stirrup brackets, hinge brackets, strikes and keepers will be THRU BOLTED with sex bolts having THEFT PROOF ONE WAY HEADS. All other hardware will be fastened with screws having similar ONE WAY HEADS. All exposed heads to be polished chrome plated.

FINISH: All metal will be thoroughly sanded, chemically degreased and will receive a RUST RESISTANT PRIMER followed by TWO finish coats of high baking formula synthetic enamel, each coat BAKED ON to a temperature of 400 degrees Fahrenheit.

Specific Specifications

APPLICABLE TO TYPES AS INDICATED

Type CH-700:

Pilasters are fastened to structural ceiling members (furnished by others) by means of two ⅜″ cadmium plated bolts with LOCK WASHERS and plate washers. Pilasters can be adjusted for leveling by means of the ⅜″ bolts and pilaster adjustment nuts. LOCK WASHERS USED THRU OUT TO PREVENT LOOSENING CAUSED BY VIBRATION. Bottom of doors are on same level with bottom of pilasters with NO PROTRUDING HARDWARE.

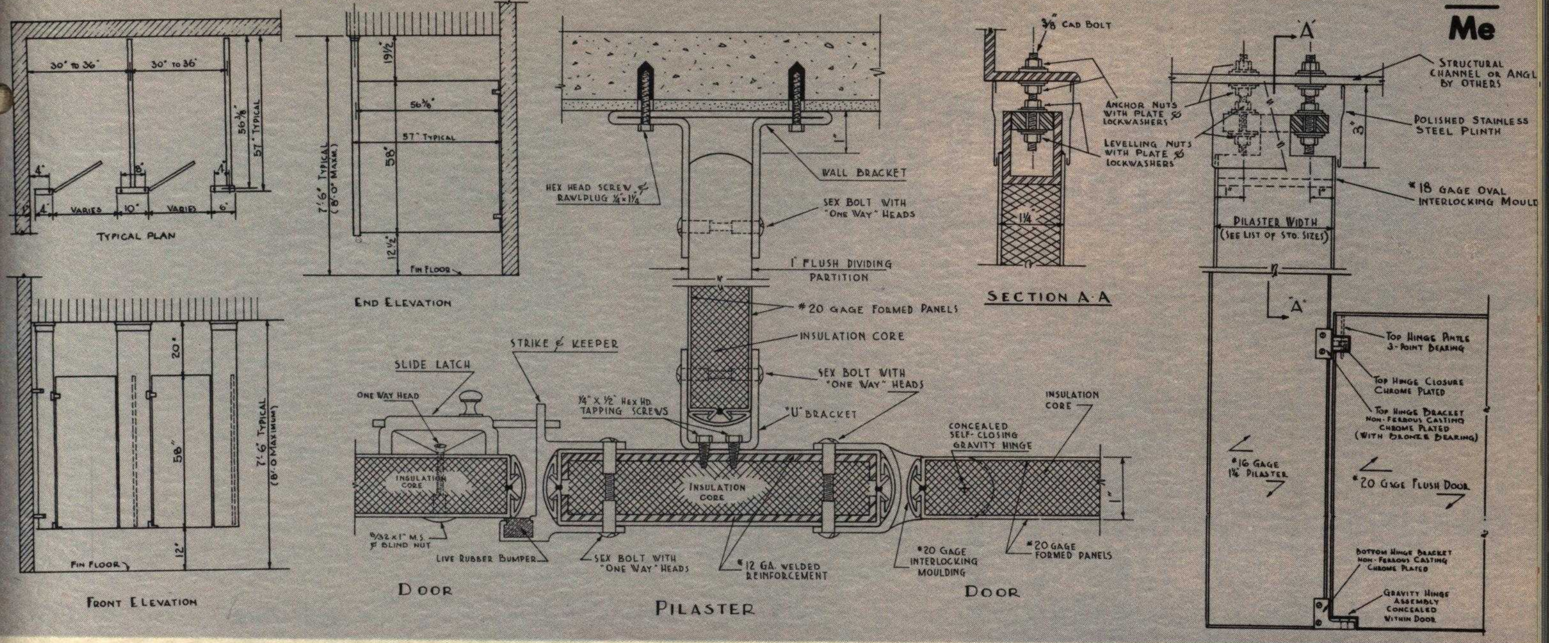
Type FT-700:

Pilasters are anchored to solid concrete sub floor by means of two ⅜″ cadmium plated bolts with expansion shields set two inches into solid concrete (not in fill). All nuts are locked with LOCK WASHERS to prevent loosening. Pilasters are adjustable for leveling similar to type CH-700. Top of doors are on same level with top of pilasters with NO HARDWARE PROTRUDING.

Type FP-500:

Pilasters are fastened to floor by means of two ¼″ bolts and expansion plugs set into finished floor. All bolts have LOCK WASHERS to prevent loosening. Headrail is furnished in continuous drawn tubular steel, threaded through the tops of pilasters which are internally reinforced with CONCEALED #12 gage welded channels.

DETAILS — Type CH-700



TYPICAL PLAN

END ELEVATION

FRONT ELEVATION

SECTION A-A

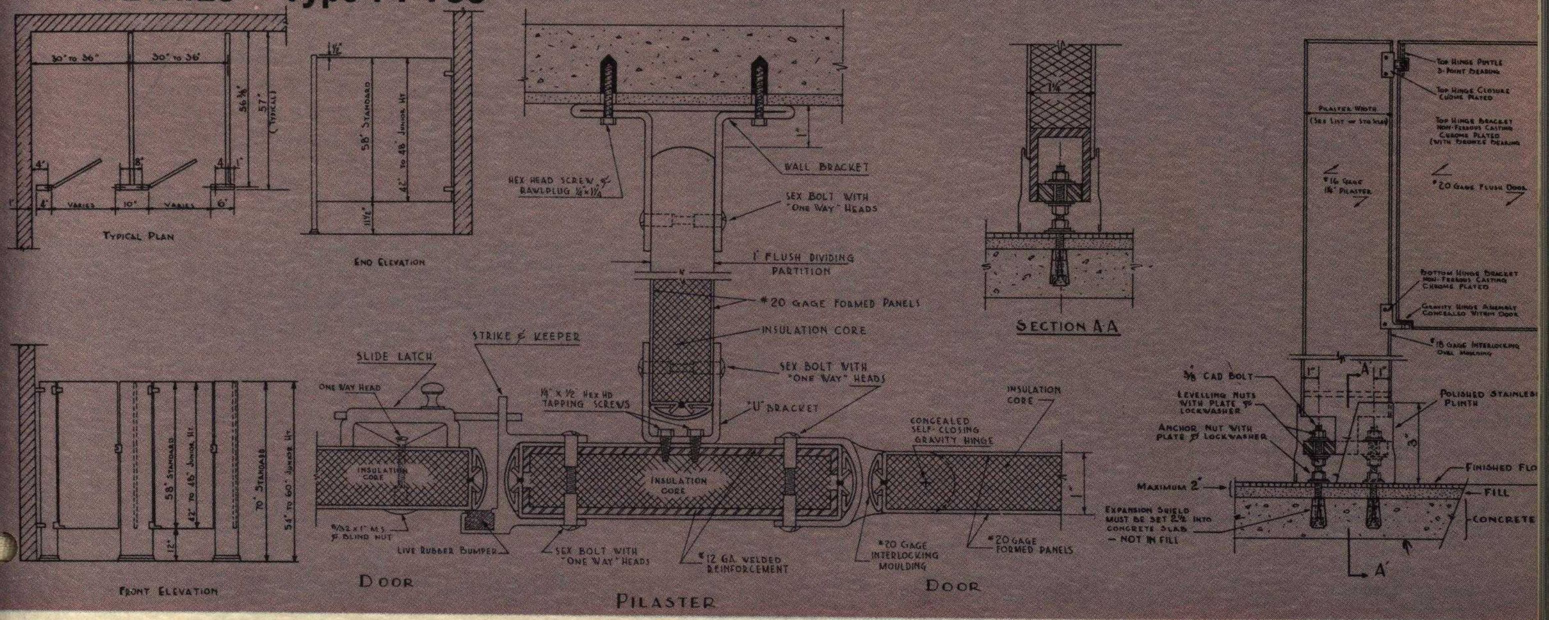
DOOR

PILASTER

DOOR

30" to 36"
30" to 36"
4"
8"
4"
VARIES
10"
VARIES
6"
56⅜"
57" Typical
19½"
56⅜"
57" Typical
58"
12½"
7'-6" Typical (8'-0" Maxim.)
Fin Floor
20"
58"
12"
7'-6" Typical (8'-0" Maximum)
Fin Floor
HEX HEAD SCREW & RAWLPLUG ¼"×1¼"
WALL BRACKET
SEX BOLT WITH "ONE WAY" HEADS
1" FLUSH DIVIDING PARTITION
#20 GAGE FORMED PANELS
INSULATION CORE
STRIKE & KEEPER
SLIDE LATCH
ONE WAY HEAD
SEX BOLT WITH "ONE WAY" HEADS
¼" X ½" HEX HD. TAPPING SCREWS
"U" BRACKET
INSULATION CORE
CONCEALED SELF-CLOSING GRAVITY HINGE
INSULATION CORE
INSULATION CORE
1"
8/32 x 1" M.S. & BLIND NUT
LIVE RUBBER BUMPER
SEX BOLT WITH "ONE WAY" HEADS
#12 GA. WELDED REINFORCEMENT
#20 GAGE INTERLOCKING MOULDING
#20 GAGE FORMED PANELS
⅜ CAD BOLT
ANCHOR NUTS WITH PLATE & LOCKWASHERS
LEVELLING NUTS WITH PLATE & LOCKWASHERS
1¼
A
A
STRUCTURAL CHANNEL OR ANGL
BY OTHERS
POLISHED STAINLESS STEEL PLINTH
3"
1"
1"
#18 GAGE OVAL INTERLOCKING MOULD
PILASTER WIDTH (SEE LIST OF STD. SIZES)
TOP HINGE PINTLE 3-POINT BEARING
TOP HINGE CLOSURE CHROME PLATED
TOP HINGE BRACKET NON-FERROUS CASTING CHROME PLATED (WITH BRONZE BEARING)
#16 GAGE 1¼" PILASTER
#20 GAGE FLUSH DOOR
BOTTOM HINGE BRACKET NON-FERROUS CASTING CHROME PLATED
GRAVITY HINGE ASSEMBLY CONCEALED WITHIN DOOR

DETAILS — Type FT-700



TYPICAL PLAN

END ELEVATION

FRONT ELEVATION

SECTION A-A

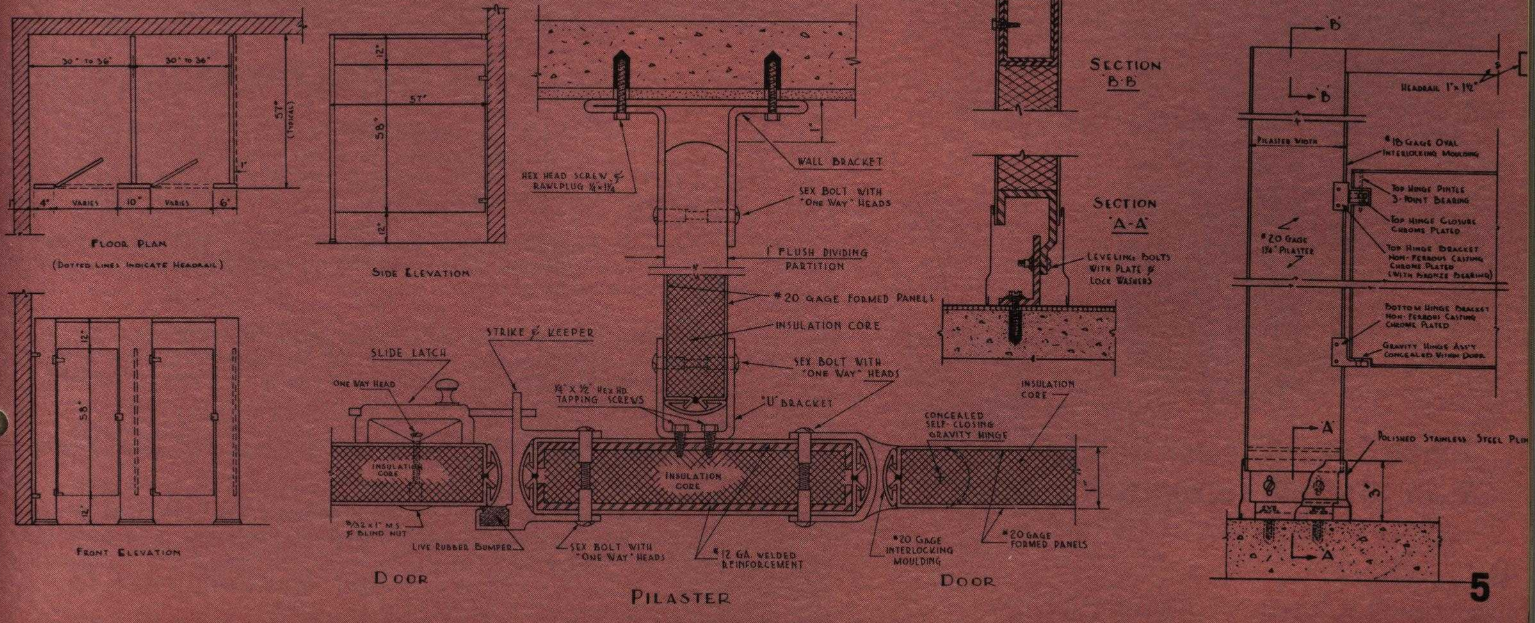
DOOR

PILASTER

DOOR

30" to 36"
30" to 36"
4"
8"
4"
4"
VARIES
10"
VARIES
6"
1"
56⅜"
57" (Typical)
1½"
58" Standard
42" to 48" Junior Ht
11½"
58" Standard
42" to 48" Junior Ht
70" Standard
54" to 60" Junior Ht
12"
HEX HEAD SCREW & RAWLPLUG ¼"×1¼"
WALL BRACKET
SEX BOLT WITH "ONE WAY" HEADS
1" FLUSH DIVIDING PARTITION
#20 GAGE FORMED PANELS
INSULATION CORE
STRIKE & KEEPER
SLIDE LATCH
ONE WAY HEAD
SEX BOLT WITH "ONE WAY" HEADS
¼" X ½" HEX HD. TAPPING SCREWS
"U" BRACKET
INSULATION CORE
CONCEALED SELF-CLOSING GRAVITY HINGE
INSULATION CORE
INSULATION CORE
8/32 x 1" M.S. & BLIND NUT
LIVE RUBBER BUMPER
SEX BOLT WITH "ONE WAY" HEADS
#12 GA. WELDED REINFORCEMENT
#20 GAGE INTERLOCKING MOULDING
#20 GAGE FORMED PANELS
1¼
TOP HINGE PINTLE 3-POINT BEARING
TOP HINGE CLOSURE CHROME PLATED
PILASTER WIDTH (SEE LIST OF STD SIZES)
TOP HINGE BRACKET NON-FERROUS CASTING CHROME PLATED (WITH BRONZE BEARING)
#16 GAGE 1¼" PILASTER
#20 GAGE FLUSH DOOR
BOTTOM HINGE BRACKET NON-FERROUS CASTING CHROME PLATED
GRAVITY HINGE ASSEMBLY CONCEALED WITHIN DOOR
#18 GAGE INTERLOCKING OVAL MOULDING
⅜ CAD BOLT
LEVELLING NUTS WITH PLATE & LOCKWASHER
ANCHOR NUT WITH PLATE & LOCKWASHER
1"
A'
1"
POLISHED STAINLESS PLINTH
3"
FINISHED FLO
MAXIMUM 2"
FILL
EXPANSION SHIELD MUST BE SET 2½" INTO CONCRETE SLAB — NOT IN FILL
CONCRETE
A'

DETAILS — Type FP-500



FLOOR PLAN (DOTTED LINES INDICATE HEADRAIL)

SIDE ELEVATION

FRONT ELEVATION

SECTION B-B

SECTION A-A

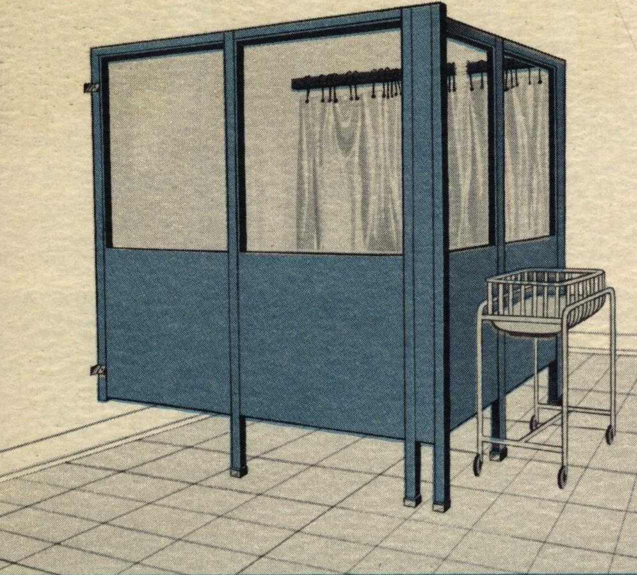
DOOR

PILASTER

DOOR

30" to 36"
30" to 36"
4"
VARIES
10"
VARIES
6"
57" (Typical)
1"
12"
57"
58"
12"
12"
58"
12"
HEX HEAD SCREW & RAWLPLUG ¼"×1¼"
WALL BRACKET
SEX BOLT WITH "ONE WAY" HEADS
1" FLUSH DIVIDING PARTITION
#20 GAGE FORMED PANELS
INSULATION CORE
STRIKE & KEEPER
SLIDE LATCH
ONE WAY HEAD
SEX BOLT WITH "ONE WAY" HEADS
¼" X ½" HEX HD. TAPPING SCREWS
"U" BRACKET
INSULATION CORE
CONCEALED SELF-CLOSING GRAVITY HINGE
INSULATION CORE
INSULATION CORE
8/32 x 1" M.S. & BLIND NUT
LIVE RUBBER BUMPER
SEX BOLT WITH "ONE WAY" HEADS
#12 GA. WELDED REINFORCEMENT
#20 GAGE INTERLOCKING MOULDING
#20 GAGE FORMED PANELS
LEVELING BOLTS WITH PLATE & LOCK WASHERS
B
B
HEADRAIL 1"×1½"
PILASTER WIDTH
#18 GAGE OVAL INTERLOCKING MOULDING
TOP HINGE PINTLE 3-POINT BEARING
TOP HINGE CLOSURE CHROME PLATED
TOP HINGE BRACKET NON-FERROUS CASTING CHROME PLATED (WITH BRONZE BEARING)
#20 GAGE 1¼" PILASTER
BOTTOM HINGE BRACKET NON-FERROUS CASTING CHROME PLATED
GRAVITY HINGE ASS'Y CONCEALED WITHIN DOOR
A
POLISHED STAINLESS STEEL PLIN
3"
A

Type F-134 Hospital Cubicles

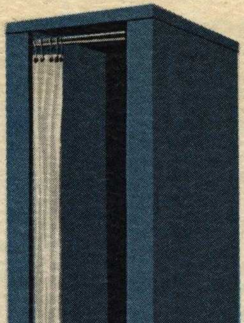


FULL FLUSH PARTITIONS 1¾" THICK with posts of the same thickness separated only by a hairline joint. There are no recesses or projections in the F-134 partition which eliminates unsanitary dust and dirt pockets. Cleaning of these partitions can be accomplished with ease and thoroughness.

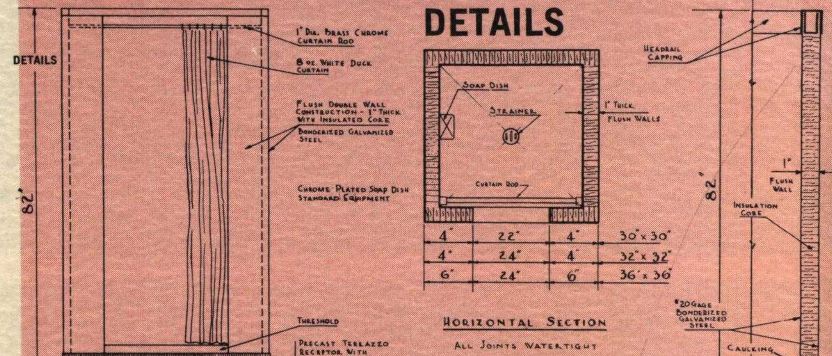
THE F-134 HOSPITAL CUBICLE is constructed of two sheets of #20 gage steel cemented under pressure to a 10 ply sound deadened core and permanently sealed into one solid sanitary unit. These cubicles may be dismantled and rearranged simply and quickly at any time to meet changing hospital requirements.

HOSPITAL CUBICLE PARTITIONS are available in many sizes and arrangements including free standing nursery cubicles. We suggest you write to us for complete details and technical information.

Type SH-700 Flush



Flush Type Shower Cabinet with Precast Terrazzo Receptor


DETAILS
DETAILS
1" Dia. Brass Chrome Curtain Rod
8 oz. White Duck Curtain
Flush Double Wall Construction - 1" Thick With Insulated Core
Bonderized Galvanized Steel
Chrome Plated Soap Dish Standard Equipment
Threshold
Precast Terrazzo Receptor With Integral Cast Drain For 2" Waste & Removable Brass Chrome Strainer
82"
30" - 32" - 36"
Soap Dish
Strainer
1" Thick Flush Walls
Curtain Rod
4" 22" 4" 30"x30"
4" 24" 4" 32"x32"
6" 24" 6" 36"x36"
Horizontal Section
All Joints Watertight
Headrail Capping
82"
1"
Flush Wall
Insulation Core
#20 Gage Bonderized Galvanized Steel
Caulking
Precast Terrazzo Receptor
Vertical Section

PREFABRICATED SHOWER CABINETS

WALLS: Double wall BONDERIZED GALVANIZED #20 gage steel cemented to sound deadening core under pressure, to form flush panels 1" thick. All panels interlock into water tight, leak proof, recesses without the use of screws.

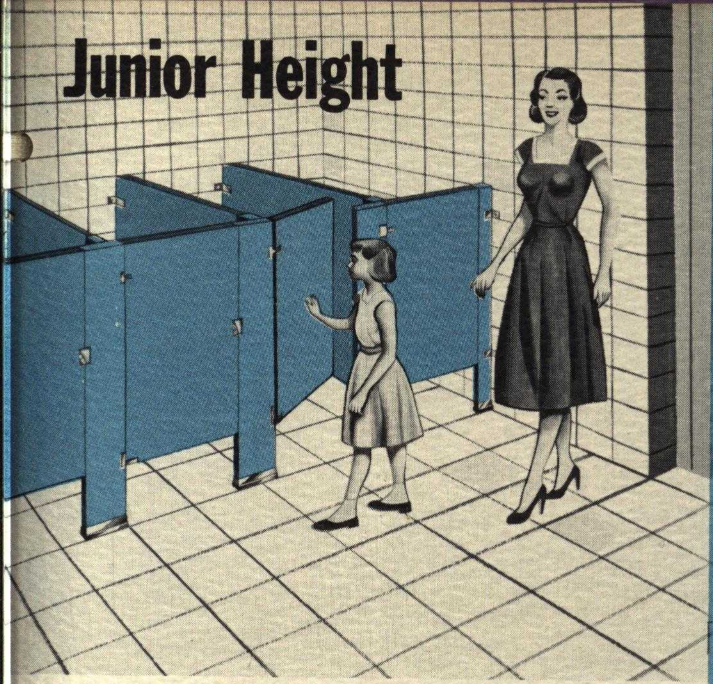
RECEPTOR: Precast terrazzo, black and white (other colors available) with integral cast brass drain and removable strainer. Two inch drain connector by plumber.

ACCESSORIES: CURTAIN, 8 oz. white duck with brass chrome curtain hooks and brass chrome rod. SOAP DISH, brass chrome plated with concealed fastening. Shower head and mixing valves furnished by others.

SIZES: 30"x30", 32"x32", 36"x36" all 82" high. Special sizes are available.

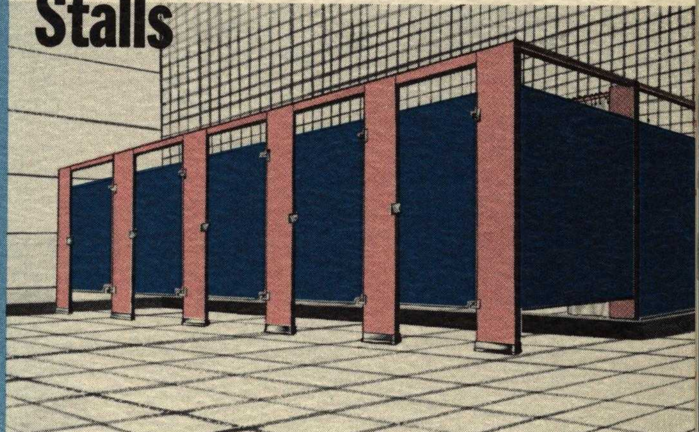
FINISH: Cabinet walls sanded and degreased. Rust resistant prime coat and two finish coats, each baked on. Available in any one of our 24 standard colors.

Junior Height



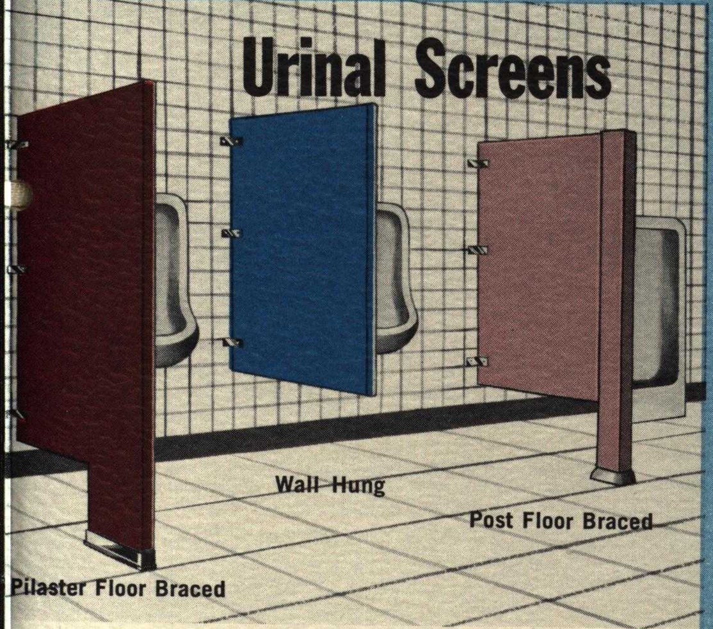
JUNIOR HEIGHT PARTITIONS are constructed of our Type FT-700 compartments. Partitions and doors are set 12″ off the floor and 42″ or 48″ high, making an overall height of 54″ or 60″. These heights allow adult supervision.

Shower & Dressing Stalls



SHOWER & DRESSING STALLS are constructed of our Type FP-500 partitions. Dressing Stalls are available with doors or curtains. Seats may be had in enameled steel or varnished hardwood. Standard Dressing Stalls are from 30″ to 48″ wide by 36″ to 48″ deep. Special sizes and layouts are available without additional cost.

Urinal Screens



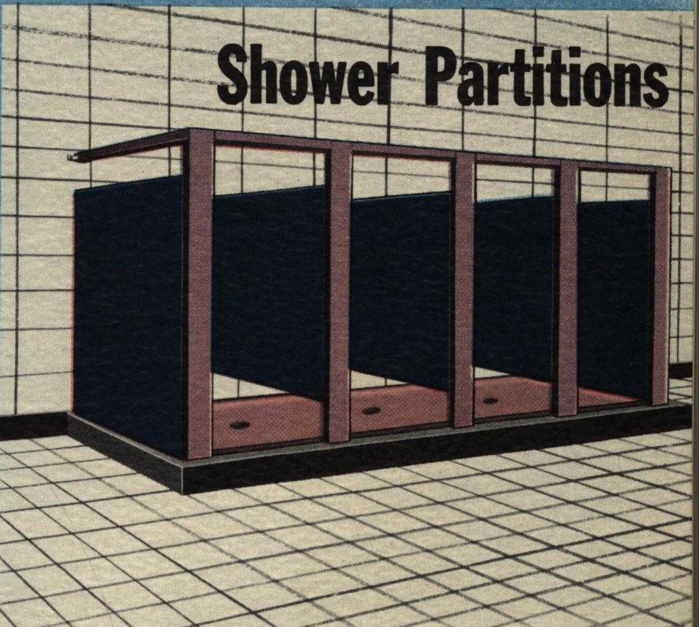
URINAL SCREENS are available in standard types, as illustrated, and in special designs and sizes.

Pilaster Floor Braced Screens are of Type FT-700 construction, 1¼″ thick, 30″ maximum width, set 12″ off floor and 58″ high.

Wall Hung Screens are 1″ thick, 28″ maximum width, height 36″ to 58″.

Post Floor Braced Screens are 1″ thick with 1¾″ square front post. Maximum width 30″, set 12″ off floor and 42″ to 58″ high.

Shower Partitions



SHOWER PARTITIONS are constructed of our Type FP-500, set on built-in tile curbs and fastened to tile walls. Available with curtains if desired. Sizes are furnished to suit job conditions or any variety of shower curb layouts.

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Roberts Equipment Co.
1820 6th Avenue So.

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816 Howard Avenue

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MINNESOTA, Minneapolis
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We reserve the right to revise specifications, details and design as may be required by Governmental Restrictions or availability of materials.

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Ryan & Pigeon
2826 Main Street

MONTANA, Butte
Construction Materials Co.
P.O. Box 198

NEW JERSEY, Newark
Marvin Metal Products Co.
825 Summer Avenue

NEW YORK, Jamestown
G. M. Kohlbacker
38 Linden Avenue

NEW YORK, New York
Metpar Steel Products Corp.
97 State Street

NEW YORK, Rennsselaer
Kelly Associates
312 Broadway

NORTH CAROLINA, Asheville
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Cincinatti

OKLAHOMA, Tulsa, 12
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Mason-Norton Company
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PENNSYLVANIA, Philadelphia
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W. F. Critchfield
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MILLS METAL TOILET COMPARTMENTS

Hospital Cubicles • Showers • Dressing Rooms

MILLS METAL COMPARTMENT CO.

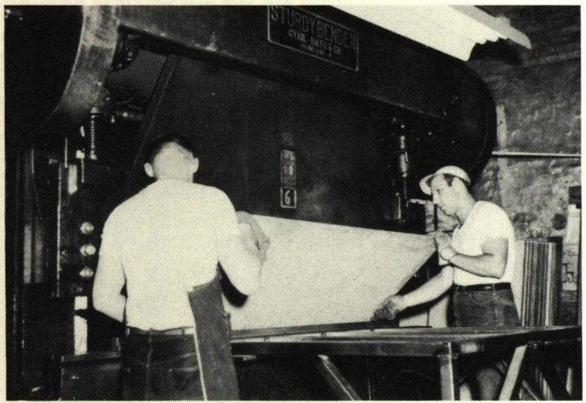
Division of The Mills Company
965 Wayside Road • Cleveland 10, Ohio

Mills background and facilities

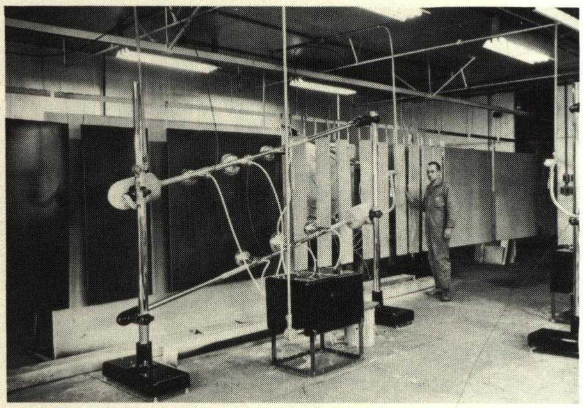
MILLS EXCLUSIVE POSITION IN THE INDUSTRY—Since its incorporation in 1921, The Mills Company has devoted itself solely to the design and manufacture of metal toilet compartments and movable office partitions. As the only full-line manufacturer of both types, Mills engineering skill, construction experience and craftsmanship have made it the focal point for fine quality in both fields. Only Mills can coordinate all partition requirements for a building.

COMPLETE ENGINEERING SERVICE—When you specify Mills Metal Toilet Compartments you get a complete, responsible service, including every requisite—initial layout, comprehensive detailed approved drawings, accurate fabrication and assembly and visual erection instructions—for final installation cooordinated with your building or remodeling schedule.

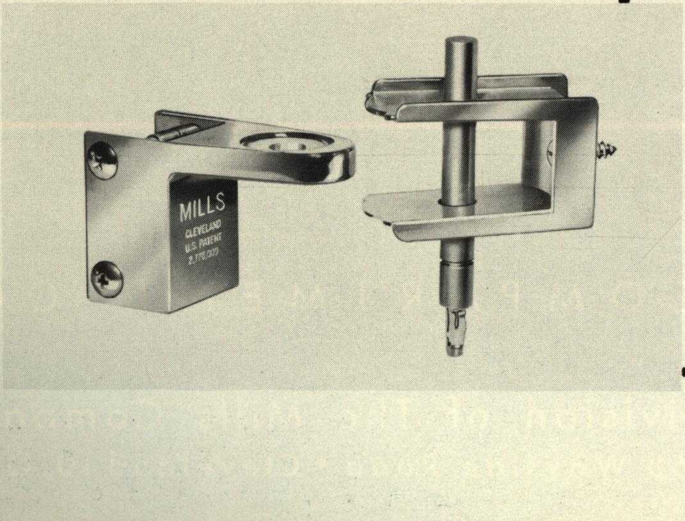
MANUFACTURING FACILITIES—With the increased demand for Mills Metal Toilet Compartments and allied lines, The Mills Company, in 1953, transferred their entire production facilities for these products to a newly-acquired plant in Upper Sandusky, Ohio. This plant has since been enlarged four times. The newest, modern, mechanized manufacturing processes are employed, increasing production and efficiency and raising Mills already high standards of quality.



Modern steel forming equipment accurately and quickly shapes Mills patented door units.



New, completely automatic, electro-static spray finishing equipment provides the finest uniform finish.



the mills name on each installation is a symbol of experienced engineering, fine craftsmanship and progressive development.

AFFILIATED WITH THE AMERICAN INSTITUTE OF ARCHITECTS
THE PRODUCERS' COUNCIL INCORPORATED
MEMBER

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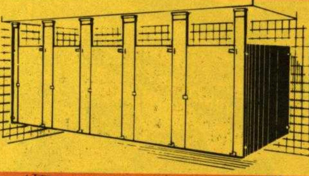
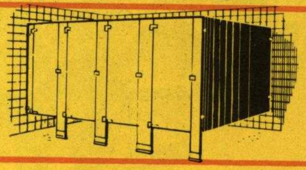
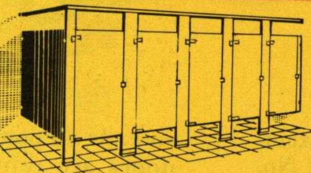
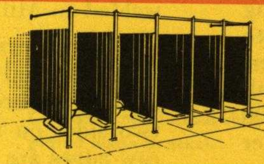
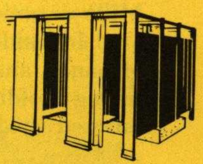
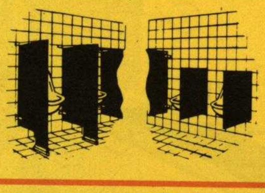
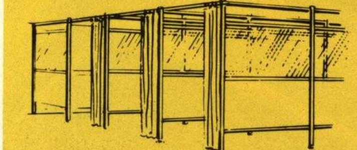
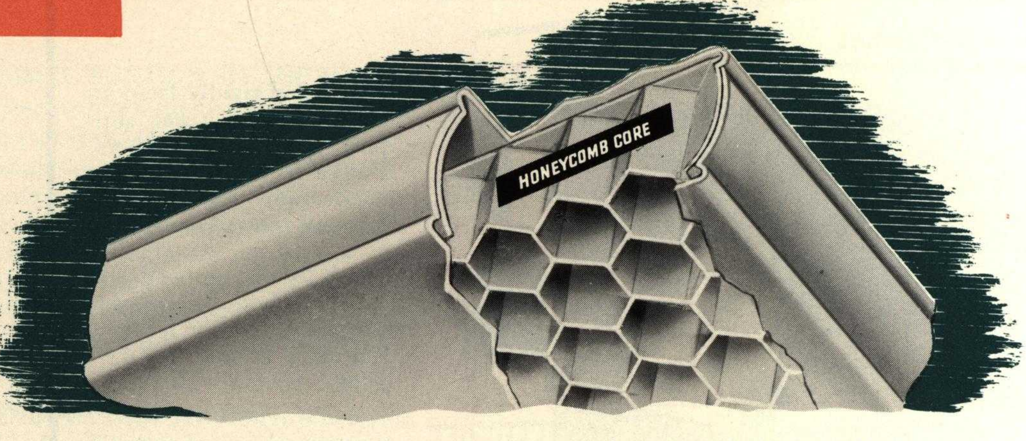
The Mills Co.

MILLS index

features of mills design		Patented Panel Design. . 4 Door Hardware. . . . . 5 Important Features. 6	**4-6**
colors and finishes			**7-9**
marblmetal ceiling hung		Supported rigidly from an overhead structural support, installed by others. For all benefits of no floor connection construction, use wall type closet bowls.	**10-11**
marblmetal floor braced **junior height**		Flush fronts, no head rail. Floor should be suitable for use of Anchor bolts. Standard Height—12-13 Junior Height—20	**12-13** **20**
sentinel		Continuous overhead brace provides rigidity in installations subject to heavy use. Can be installed rigidly on any floor.	**14-15**
metal flush		Headrail braced with flush panels, one inch thick.	**16-17**
shower and dressing rooms unit showers		Attractive — durable — long lasting. Easy to clean and keep clean.	**18-19**
urinal screens		Made in two styles—provide maximum privacy, durability and easy cleaning.	**19**
hospital cubicles		Effectively control ward space. Clean — sanitary. Quickly rearranged. (Made in three styles)	**20**
standard hardware		A complete line.	**21**
layouts		Suggested arrangements for toilet and shower rooms.	**22-23**
sales representatives			**24**

panels and doors

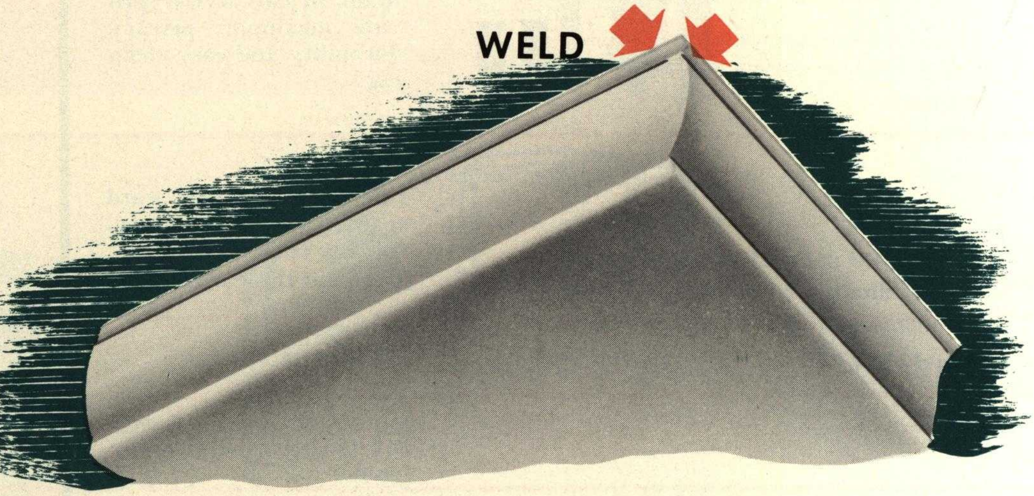


INTEGRAL INTERLOCKING DESIGN—This exclusive Mills feature is protected by U.S. Patent No. 2776029. As illustrated above, the two facing sheets of all Mills panels and doors are formed to interlock integrally around the entire perimeter. This provides a smooth permanent edge on all four ends. On a standard-sized panel over 400 square inches of steel are forced together under pressure in direct surface contact to create a permanent, high-tension interlock, producing units that are more hygenic, rigid and durable.

On panels and doors this structural assembly of twenty-gauge steel is internally bonded with moisture-proof aircraft adhesive to a honeycomb core. At all points where hinges are to be mounted, doors are reinforced with heavy-gauge steel, welded to Mills extra-heavy door sheets.

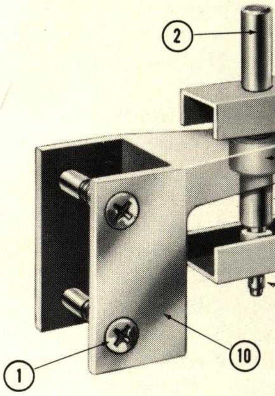
The four corners of Mills panels and doors are neatly welded and finished. Precision shearing and forming assures a trim, curved-in meeting of the two sides on the tops, bottoms and ends, and no raw edges are exposed.

Mills organic design minimizes maintenance created by undesirable extra lines around perimeters of panels and doors and eliminates separate loose-fitting moldings and wracking of doors caused by mitered weld failures.

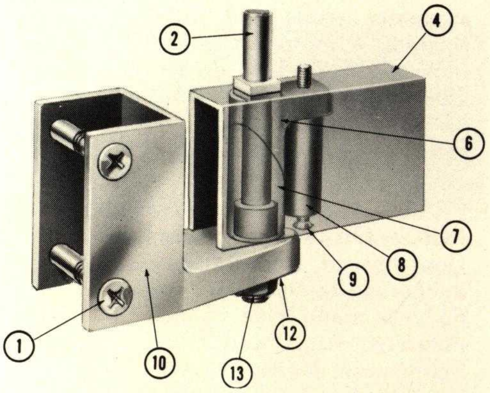


new T-100 AND T-200 series hinges

TOP HINGE—MULTIPLE SUPPORT FOR MULTIPLE LIFE—Mills top hinge pivot, mounted in a cutout near the top of the door, is a sturdy stainless steel pintle, rigidly supported at three points and locked to a channel reinforcement, welded to the inside of the door. Suspension arm of the hinge bracket rides on this shaft, protected by a pressure-fitted life-time Molybdenum Nylon bushing.

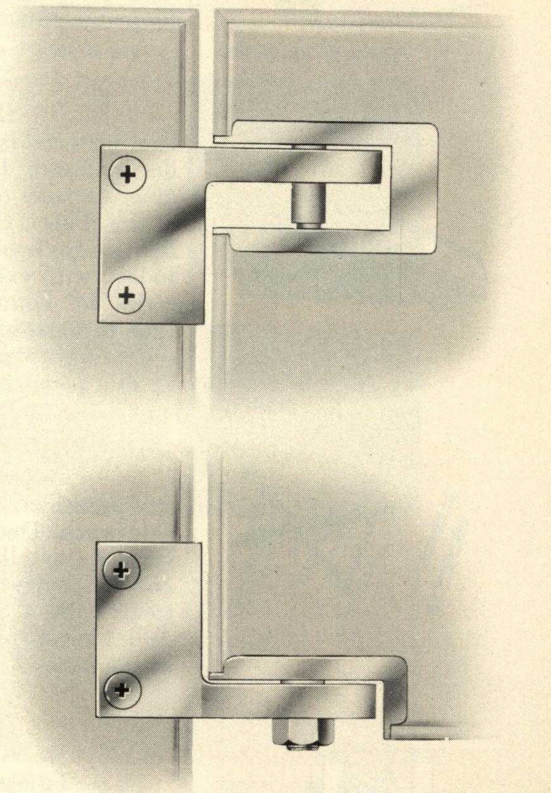


1. Through bolted studs and Phillips head sex nuts.
2. Stainless steel pintle.
3. 16 gauge welded reinforcement.
4. 14 gauge welded reinforcement.
5. Molybdenum Nylon bushing.
6. Molybdenum Nylon follower.
7. Nylon bottom cam.
8. Spacer screw.
9. Machine screw.
10. Cast alloy non-ferrous chrome plated hinge bracket.
11. Tubular snap clip.
12. Lock washer.
13. Adjusting nut.



LOWER HINGE — CONCEALED CAM AND FOLLOWER—Mills lower hinge is true gravity-type, adjustable, factory-installed and concealed within the door. Top follower is square-locked and secured to a welded steel reinforcement. Lower cam is molded to a knurled, hardened stainless steel shaft that axially aligns the cam and follower. The lower cam is firmly held by an adjusting nut to the lower hinge bracket, allowing door position at rest to be set at any point within the door arc. Both top follower and bottom cam are naturally-lubricated, life-time Molybdenum Nylon.

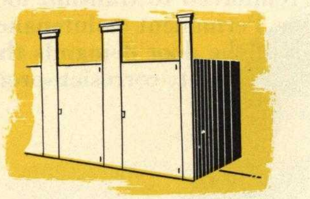
THE ESSENTIALS FOR A PERMANENT INSTALLATION—More than any other component of a metal compartment, the door and its hardware are normally subjected to the greatest abuse. Permanent alignment of the door requires that hinges be designed and installed to withstand eccentric forces and that the door be reinforced to transmit local strain over a broad area. Permanent maintenance-free, smooth operation of the door demands that hinges be strong, wear resistant, corrosion-proof, and adjustable.



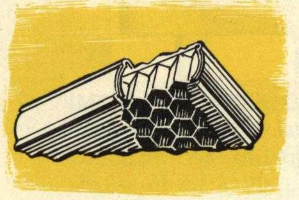
QUALITY FEATURES—All exposed parts of Mills top and bottom hinges are either stainless steel or non-ferrous, polished chrome plated. All working parts are stainless steel or corrosion-proof Nylon. Dupont Nylon, heat resistant and low in frictional coefficience, is now specified for thousands of commercial and industrial products, including gears and friction bearing surfaces of all types. Mills application of Nylon to a cam-to-follower true gravity hinge eliminates miniature metal cams, rollers and bearings, and springs that have a tendency to set, lose their tension and require periodic adjustment. The Mills hinge with nylon bearings has been test-run for over 300,000 cycles without measurable indication of wear.

important information

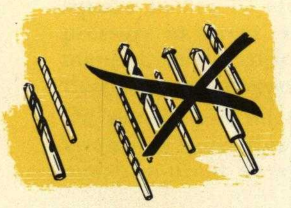
mills services and features of mills compartments



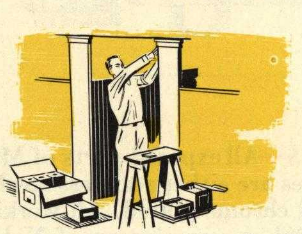
1. FLUSH CONSTRUCTION Mills discontinued the manufacture of inferior single sheet panel compartments over fifteen years ago, and has been the leader in furnishing flush, insulated-type compartments, exclusively.



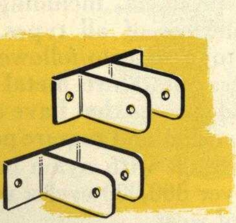
2. HONEYCOMB CORE INSULATION— Honeycomb core material is bonded under pressure between the inner surfaces of each panel facing. This is the strongest, lightweight insulation in use today, with excellent properties for sound attentuation, thermal insulation and resistance to moisture and vermin penetration.



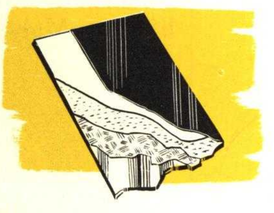
3. THOROUGH FABRICATION— Compartment fronts are predrilled to minimize field work. Door hinges are factory installed. Fittings and fastenings are standardized, with a minimum of drill changes required during installation.



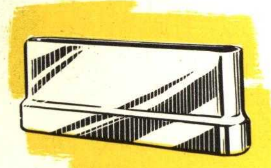
4. PACKAGED HARDWARE & ERECTION INSTRUCTIONS— To speed erection and minimize losses, Mills packages hardware and includes complete, visual erection instructions with each installation. Fittings and fastenings are illustrated to save erection time.



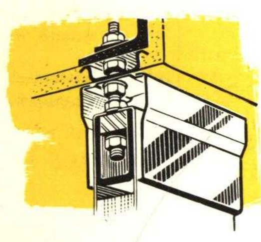
5. NON-FERROUS FITTINGS —Major components of all compartments are assembled and connected to the wall with polished, non-ferrous fittings. This guarantees extended life to the installation, eliminates costly maintenance and ensures lasting beauty. (Chrome plated, per government specifications.)



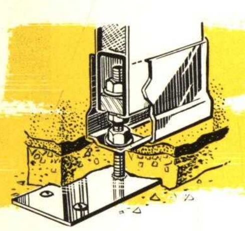
6. GALVANIZING AND BONDERIZING— Mills furnishes only galvanized-bonderized sheet steel exclusively for baked-on enamel installations. Mills steel is heavier. Compare it with others. G. B. Steel is Standard. No additional cost.



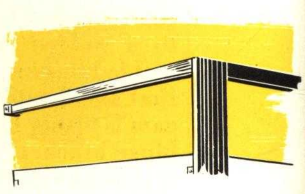
7. STAINLESS STEEL SHOE TRIM— For all compartment fronts, Mills provides a .031 gauge, 3″ stainless steel shoe (Type 302, polished) that snaps rigidly into place, held by concealed retainer clips. Surface damage to fronts caused by old-type one-piece shoes is eliminated.



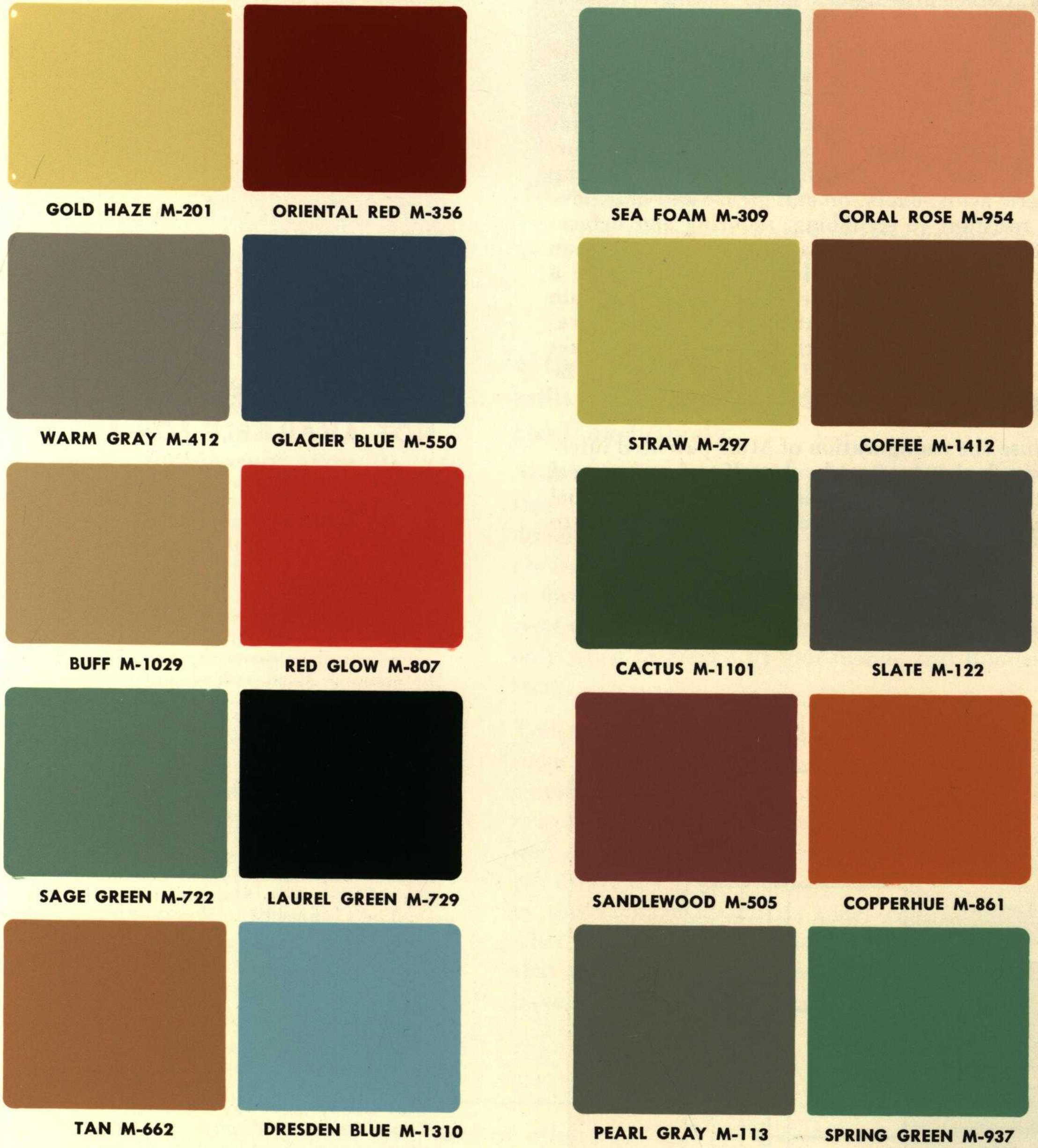
8. CEILING-HUNG SUPPORT— On ceiling hung installations, Mills fronts are securely anchored to structural channels with 3/8 inch diameter studs and nuts, forming a foolproof micro-adjustable leveling device. Plaster key channels furnished without charge on request.



9. FLOOR-BRACED SUPPORT— On Marblmetal floor-braced installations, anchorage to solid concrete floors is made with 3/8 inch diameter studs and nuts. Screw-jack device provides positive close leveling. Floor plates, when needed are furnished at no extra charge.



10. FINEST, MOST RIGID HEADRAIL— Mills headrail is a 1″ x 1¾″ rolled section. Its 18 gauge steel is heaviest in the industry. Sentinel headrail is threaded through top of compartment front and bears on 16 gauge concealed reinforcement channel.


GOLD HAZE M-201
ORIENTAL RED M-356
WARM GRAY M-412
GLACIER BLUE M-550
BUFF M-1029
RED GLOW M-807
SAGE GREEN M-722
LAUREL GREEN M-729
TAN M-662
DRESDEN BLUE M-1310
SEA FOAM M-309
CORAL ROSE M-954
STRAW M-297
COFFEE M-1412
CACTUS M-1101
SLATE M-122
SANDLEWOOD M-505
COPPERHUE M-861
PEARL GRAY M-113
SPRING GREEN M-937

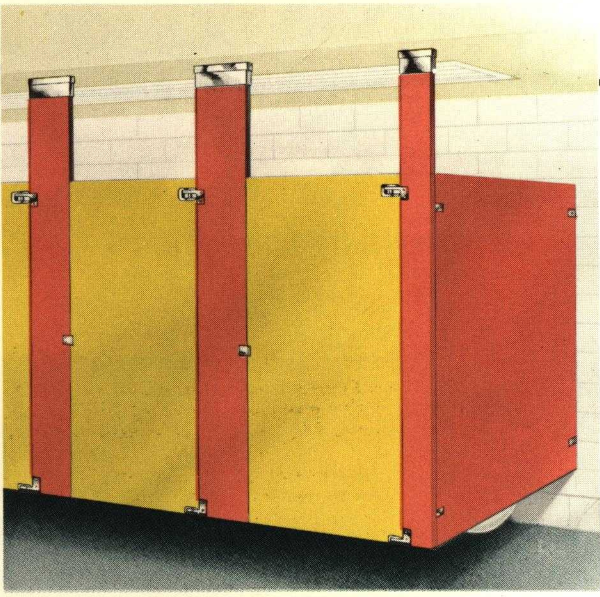
NOTE: Matching a color in porcelain enamel with the same color in baked-on synthetic enamel gives a noticeable contrast because the porcelain enamel has a greater depth and brilliance than the color of baked-on synthetic enamel.

Choice of a standard color speeds delivery. Because responsible manufacturers of synthetic enamels and porcelain frit retain the privilege of reasonable color variation, we cannot, therefore guarantee the exact matching of colors.

When ordering black or white specify Black No. M-250, White No. M-750. (Extra charge involved.)

Two colors, per order, may be chosen from this chart at no extra charge. Three or more colors require special pricing.

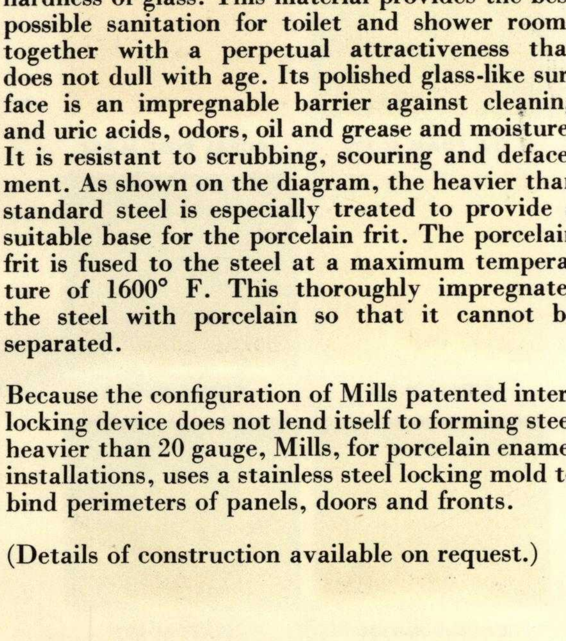
porcelain enamel



Mills Porcelain Enamel finish effectively combines the desirable qualities of the inherent structural strength of steel with the polished flint-like hardness of glass. This material provides the best possible sanitation for toilet and shower rooms together with a perpetual attractiveness that does not dull with age. Its polished glass-like surface is an impregnable barrier against cleaning and uric acids, odors, oil and grease and moisture. It is resistant to scrubbing, scouring and defacement. As shown on the diagram, the heavier than standard steel is especially treated to provide a suitable base for the porcelain frit. The porcelain frit is fused to the steel at a maximum temperature of 1600° F. This thoroughly impregnates the steel with porcelain so that it cannot be separated.

Because the configuration of Mills patented interlocking device does not lend itself to forming steel heavier than 20 gauge, Mills, for porcelain enamel installations, uses a stainless steel locking mold to bind perimeters of panels, doors and fronts.

(Details of construction available on request.)



Specifications

(Specify whether MARBLMETAL CEILING HUNG, MARBLMETAL FLOOR BRACED, or SENTINEL).

NOT AVAILABLE FOR METAL FLUSH.

1. **ALL METAL COMPARTMENTS** — for toilet, shower and dressing rooms shall be Mills (specify type) (vitreous porcelain enamel on steel in accordance with Porcelain Enamel Institute standards for architectural porcelain enamel), as manufactured by Mills Metal Compartment Company, Upper Sandusky, Ohio. Panels, fronts and doors shall be flush construction.

2. **STEEL SPECIFICATIONS** — All panels and doors shall be 18 gauge porcelain enameling iron. Fronts shall be 16 gauge porcelain enameling iron. Edge locking mold shall be stainless steel, welded and finish-ground at corners. Headrail shall be 1″ x $1\frac{3}{4}$″ 18 gauge stainless steel. Structural steel for support of ceiling hung installations shall be provided (fabricated for compartment attachment) and installed by others.

3. **PANELS, DOORS AND FRONTS**—shall be made of two edgeformed steel sheets, spaced and insulated with honeycomb core, cemented under pressure to the inner surfaces with waterproof adhesives. Edges shall be bound and interlocked with stainless steel moldings, welded and finish-ground at corners. Finished thickness of doors and panels shall be 1″; finished thickness of fronts shall be $1\frac{1}{4}$″.

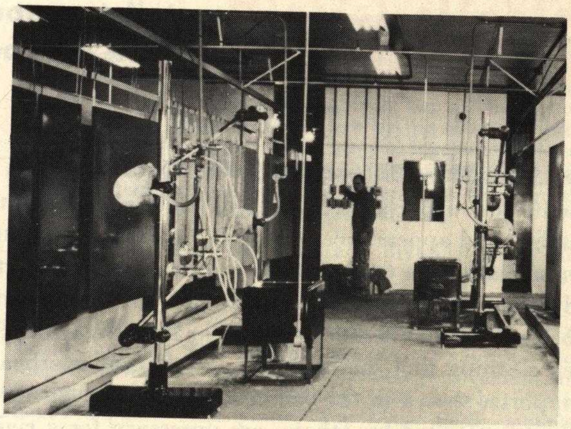
4. **HARDWARE AND FITTINGS** — Doors shall be hung on Mills standard gravity hinges. Lower hinge shall be concealed within the door; upper hinge shall provide three-point support and be mounted in cutout near top of door. Doors shall be fitted with slide bar latch, combination keeper and bumper and rubber-tipped combination coat hook and bumper, all to be non-ferrous chrome-plated. Latches and coat hooks shall be attached with Phillips-head screws (one-way fastenings provided on request). Two-piece shoe and cap trim for fronts shall be .031 gauge stainless steel, 3 inches high. (Type 302, polished)

5. **FINISH**—Interior and exterior surfaces of panels, doors and fronts shall be vitreous porcelain enamel. In addition, all exposed surfaces shall be given a finish coat of vitreous porcelain enamel in one of 22 colors, chosen from Mills standard color chart.

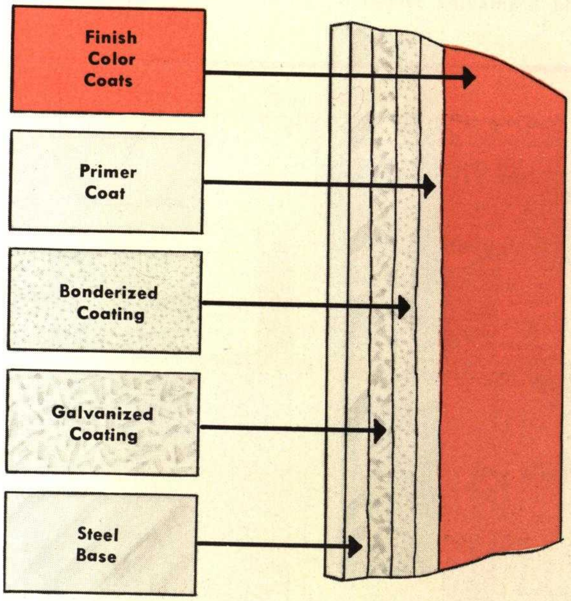
baked-on enamel

MILLS BAKED-ON ENAMEL—Mills produces the finest synthetic-enameled toilet compartments, with smooth, colorful, long-lasting finishes, at one-half to one-third the initial cost of any porcelain enamel installation.

Employing an automatic, conveyorized electrostatic spraying system of the latest design, Mills applies two coats of top-grade synthetic enamel over stretcher - leveled galvanized - Bonderized steel. This is the most modern coating system available and assures absolute uniformity of primer and finished color coats. The results: smooth, even surfaces and uniform oven baking for finishes surpassed only by porcelain enamel in appearance and longevity.



New conveyorized electro-static spray finishing equipment applies synthetic enamels to uniform thickness and bakes them to a hard marproof surface.



of the leading national manufacturers, only mills uses galvanized-bonderized sheet steel exclusively.

Mills has always furnished galvanized-Bonderized steel for unit showers and built-up shower and dressing enclosures. These compartment products are installed in areas of high humidity, and water is directly applied to their surfaces. Cold rolled steel can best withstand these adverse conditions only when protected by galvanizing and Bonderizing.

Toilet compartments are often erected in shower room areas, and these conditions apply to some extent in any compartment installation. For this reason, Mills has considered galvanized-Bonderized steel so important a feature that it established, in 1953, a policy of using steel sheets treated in this manner for all its toilet compartments, whether specifications called for it or not. Since that time Mills records prove that finish failures have been virtually eliminated.

compare the gauges of mills steel with that of others

For baked-on enamel compartments, Mills uses steel of these gauges:

	Marblmetal			
	Ceiling Hung	Floor Braced	Sentinel	Metal Flush
Panels	20 gauge	20 gauge	20 gauge	20 gauge
Fronts	16 gauge	16 gauge	18 gauge	18 gauge—1¾″ posts
Doors	20 gauge	20 gauge	20 gauge	20 gauge
Headrail	. . . .	. . . .	18 gauge	18 gauge

marblmetal

ceiling hung

toilet compartments with no floor contact

MILLS MARBLMETAL—CEILING HUNG Compartments are expressly engineered for use where fine quality and appearance must be combined with minimum costs. They are designed to be rigidly supported from the ceiling. There are no connections or obstructions at the floor. The clear floor area simplifies cleaning and maintenance. Structural overhead supports, shown in the construction details, furnished and installed by others, are necessary for a rigid satisfactory installation.

engineered value features

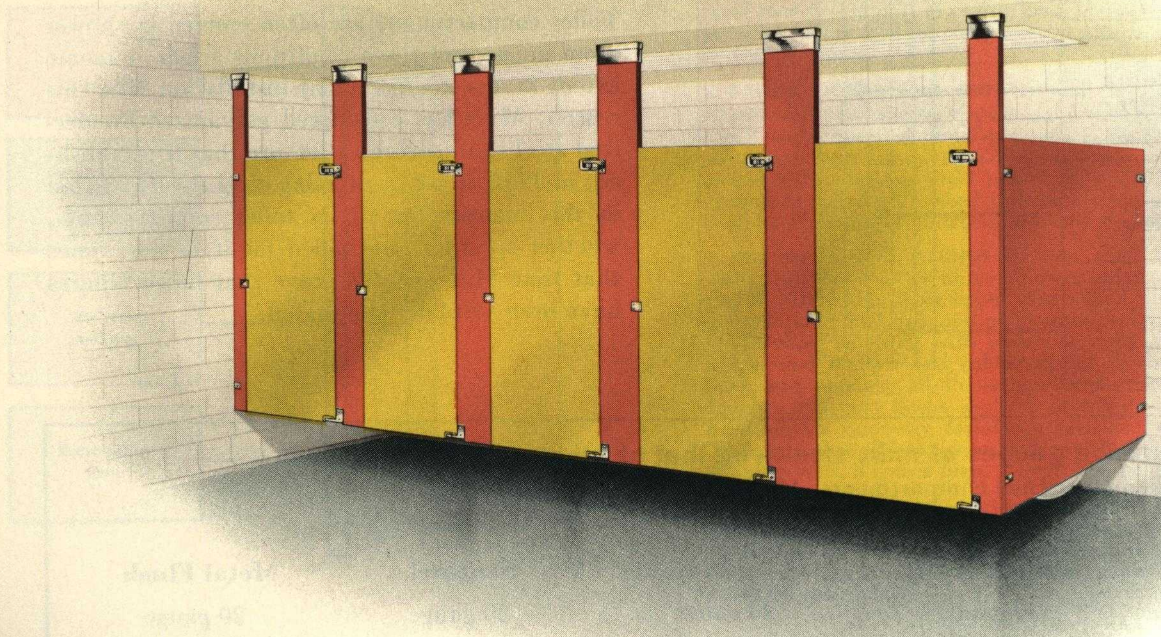
The smooth flush surfaces of ***MILLS MARBLMETAL CEILING HUNG*** Toilet Compartments are easy to clean. Moldings and hard to clean corners have been eliminated. Dividing panels hang clear of the wall. Each compartment weighs approximately 300 pounds. To achieve the full benefits of ceiling hung construction, the use of wall type closet bowls is recommended. Ceiling Hung Compartments are manufactured in a number of standard sizes. See Page 23.

materials and construction

The finest quality furniture steel, galvanized-Bonderized or porcelain enamel steel is used in the construction of ***MILLS MARBLMETAL—CEILING HUNG*** Toilet Compartments. All panels and doors are constructed with two sheets of steel permanently bonded to an insulating core and incorporating Mills exclusive integral interlocking design (Pat. No. 2776029), welded at the corners. Door hardware is non-ferrous, heavily chrome plated. For all fastenings see specifications on opposite page.

available in two finishes—many colors

For details see pages 7 to 9.



Specifications

GENERAL The Toilet compartments shall be ***MARBLMETAL—CEILING HUNG*** with no floor connections—bottom of fronts and doors flush as manufactured by The Mills Metal Compartment Co., Upper Sandusky, Ohio.

DIVIDING PANELS—Shall be flush, 1″ thick made of two sheets of 20 gauge furniture steel, spaced and insulated with honeycomb cemented under pressure to inner surface with waterproof binder. Edges of panel sheets shall be formed to interlock with each other, forming a sturdy, two-piece unit (Pat. No. 2776029), welded at the corners. Dividing panels to be anchored to fronts by "U" brackets.

DOORS Where shown on plans shall be flush 1″ thick and of same design and construction as specified for dividing partitions, and shall be rigid, free from distortion and reinforced for hardware.

FRONTS—Shall be flush 1¼″ thick, made of two sheets of 16 gauge steel, spaced and insulated with honeycomb filler cemented under pressure to the inner surfaces for 24 hours with a waterproof binder. The sides and bottom edges shall be bound and interlocked with 18 gauge rolled steel molding welded at bottom corners. The top edge shall be prepared for ceiling connections and be reinforced with 12 guage channel securely arc welded to a leveling cross bar ½″ by ⅞″.

CEILING CONNECTIONS—Suitable provision for supporting these stalls is to be incorporated in the ceiling design by the general contractor. Recommended floor to finished ceiling height over these stalls to be 7′6″. The front stiles shall be anchored to ceiling support with a device, integrally welded near the ceiling line, and designed to transmit strain of lateral thrust to ceiling support through two ⅜″ diameter galvanized bolts with lock nuts and washers which penetrate down through the finish plaster from ceiling support. These ⅜″ diameter bolts to project down to form a screw leveling device to which is attached the ½″ x ⅞″ leveling cross bar at the top of the stile, which in turn is held in place by use of a lock nut over ceiling anchoring device after proper leveling. The ceiling anchoring device shall be covered with a 3″ high polished stainless steel cap and shall be fastened to the top of the front stile to give a finished appearance.

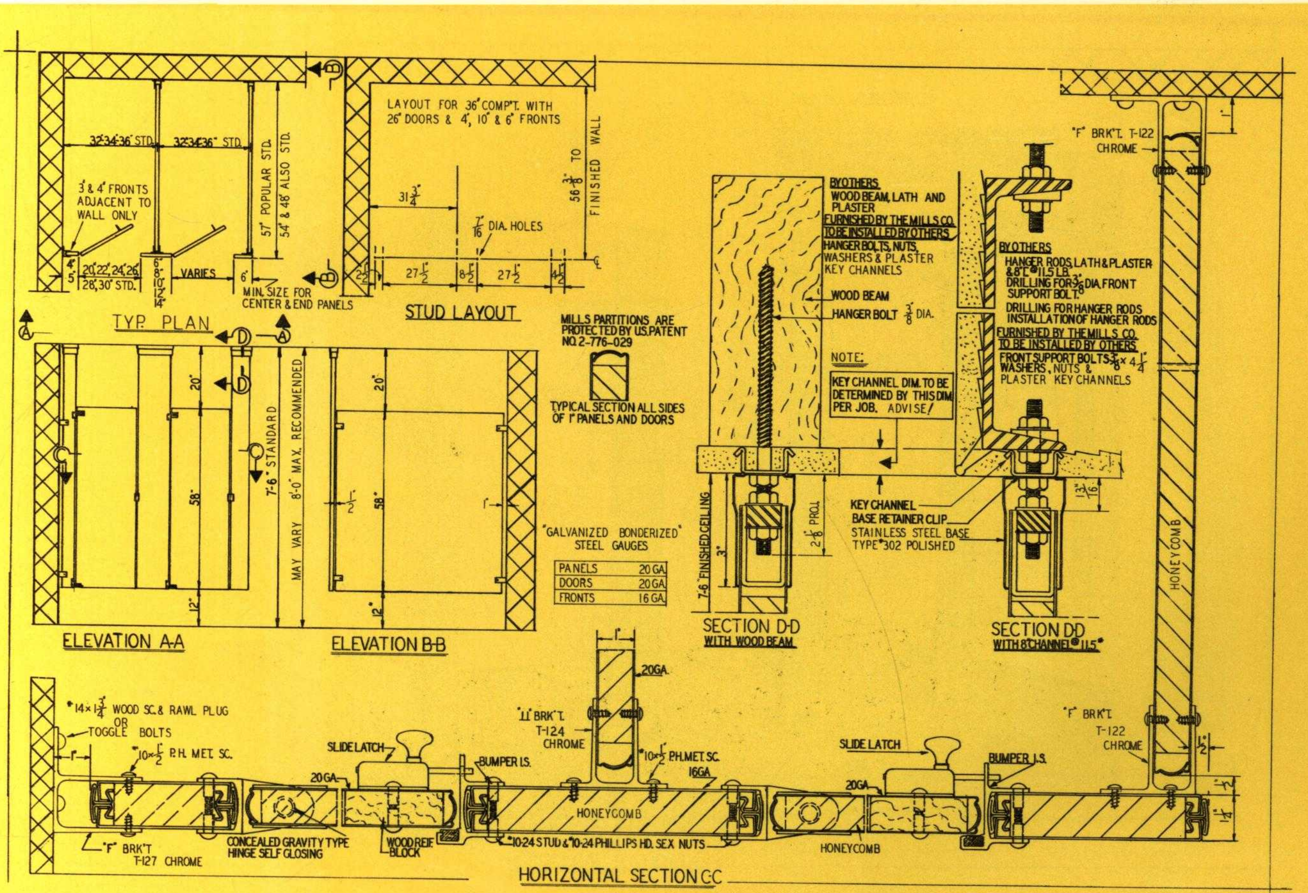
WALL CONNECTIONS—All front and dividing panels shall be fastened to masonry walls with wall "U" brackets to hold panel away from wall approximately 1″.

DOOR HARDWARE—Non-ferrous heavily chrome plated. Doors shall be hung on Mills standard gravity-type hinges. Bottom hinge shall have Nylon cam and follower construction, and be concealed within the door, both matched parts be aligned by heavy stainless steel pintle. Top hinge to be mounted in cutout near top of door and operating on stainless steel pintle within a Nylon bushing. Each door to be equipped with Mills standard slide latch, keeper and bumper, and combination coat hook and bumper.

FASTENINGS—Hinges, keeper and latch to be applied with Phillips head sex nuts and studs. (One way fastenings available when specified). Combination coat hook and bumper applied with one way metal screws.

FINISH—All material to be completely finished. Material shall be galvanized-Bonderized furniture steel, given a prime coat and a finish coat of high grade synthetic enamel and oven-baked to produce a highly mar-resistent surface.

For porcelain enamel finish see page 8.


32"34"36" STD.
32"34"36" STD.
3" & 4" FRONTS ADJACENT TO WALL ONLY
57" POPULAR STD.
54" & 48" ALSO STD.
4" 5"
20", 22", 24", 26"
28", 30" STD.
6" 8" 10" 12" 14"
VARIES
6"
MIN. SIZE FOR CENTER & END PANELS
TYP. PLAN
LAYOUT FOR 36" COMP'T. WITH 26" DOORS & 4", 10" & 6" FRONTS
31¾"
7/16" DIA. HOLES
56⅜" TO FINISHED WALL
2½"
27½"
8½"
27½"
4½"
STUD LAYOUT
A
B
C
D
20"
58"
12"
7'-6" STANDARD
8'-0" MAX. RECOMMENDED
MAY VARY
½"
1"
ELEVATION A-A
ELEVATION B-B
MILLS PARTITIONS ARE PROTECTED BY U.S. PATENT NO. 2-776-029
TYPICAL SECTION ALL SIDES OF 1" PANELS AND DOORS
"GALVANIZED BONDERIZED" STEEL GAUGES
PANELS 20 GA.
DOORS 20 GA.
FRONTS 16 GA.
BY OTHERS
WOOD BEAM, LATH AND PLASTER
FURNISHED BY THE MILLS CO. TO BE INSTALLED BY OTHERS
HANGER BOLTS, NUTS, WASHERS & PLASTER KEY CHANNELS
WOOD BEAM
HANGER BOLT ⅜" DIA.
NOTE:
KEY CHANNEL DIM. TO BE DETERMINED BY THIS DIM. PER JOB. ADVISE!
KEY CHANNEL
BASE RETAINER CLIP
STAINLESS STEEL BASE TYPE #302 POLISHED
7'-6" FINISHED CEILING
3"
2⅛" PROJ.
13/16"
SECTION D-D WITH WOOD BEAM
BY OTHERS
HANGER RODS, LATH & PLASTER & 8" [@ 11.5 LB.
DRILLING FOR ⅜" DIA. FRONT SUPPORT BOLT.
DRILLING FOR HANGER RODS
INSTALLATION OF HANGER RODS
FURNISHED BY THE MILLS CO. TO BE INSTALLED BY OTHERS
FRONT SUPPORT BOLTS ⅜" × 4¼"
WASHERS, NUTS & PLASTER KEY CHANNELS
SECTION D-D WITH 8" CHANNEL @ 11.5#
"F" BRK'T. T-122 CHROME
1"
HONEYCOMB
#14 × 1¾" WOOD SC. & RAWL PLUG OR TOGGLE BOLTS
1"
#10 × ½" P.H. MET. SC.
SLIDE LATCH
20 GA.
BUMPER I.S.
"LL" BRK'T. T-124 CHROME
20 GA.
1"
#10 × ½" P.H. MET. SC.
16 GA.
HONEYCOMB
"F" BRK'T T-127 CHROME
CONCEALED GRAVITY TYPE HINGE SELF CLOSING
WOOD REIF. BLOCK
#10-24 STUD & #10-24 PHILLIPS HD. SEX NUTS
SLIDE LATCH
20 GA.
BUMPER I.S.
HONEYCOMB
"F" BRK'T. T-122 CHROME
½"
1¼"
HORIZONTAL SECTION C-C

marblmetal

floor braced

the finest quality toilet compartment

Smoothly streamlined, in keeping with the best in modern architecture and interior design, **MILLS MARBLMETAL FLOOR BRACED** Toilet Compartment are ideally suited for apartment buildings, office buildings, clubs, etc. All unnecessary lines are eliminated, no overhead bracing is required. The result is a simplified design that is both attractive and sanitary.

engineered value features

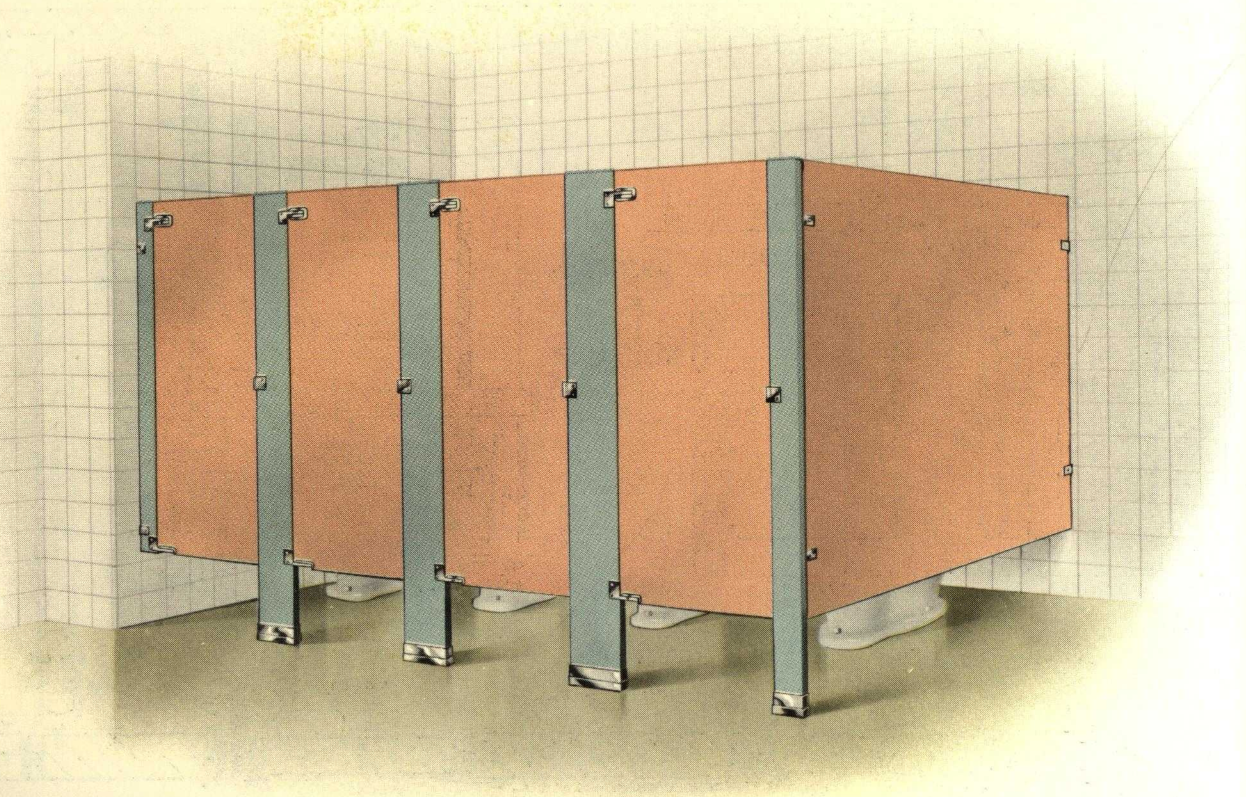
MILLS MARBLMETAL—FLOOR BRACED Toilet Compartments can be easily and speedily erected. They are secured to the floor with 3/8 in. diameter anchor bolts having at least 2 in. penetration into the floor slab. Floor connections are concealed by an attractive pilaster trim 3 in. high. Panels, doors and fronts are available in a number of standard sizes. For list of standard sizes, see Page 23.

materials and construction

MARBLMETAL — FLOOR BRACED Toilet Compartments are constructed of the finest quality galvanized-Bonderized furniture steel, or porcelain enamel steel. Panel and door sheets are permanently bonded to a honeycomb core and incorporate Mills exclusive integral interlocking design (Pat. No. 2776029), welded at corners. All hardware is nonforrous, heavily chrome plated. For fastenings see specifications on opposite page.

available in two finishes—many colors

For details, see pages 7 to 9.



Specifications

GENERAL The toilet compartments shall be ***MARBLMETAL—FLOOR BRACED***—with top of doors and fronts flush and no overhead bracing, as manufactured by The Mills Metal Compartment Co., Upper Sandusky, Ohio.

DIVIDING PANELS—Shall be flush, 1″ thick made of two sheets of 20 gauge furniture steel, spaced and insulated with honeycomb core, cemented under pressure to inner surface with waterproof rust inhibiting binder. Edges of panel sheets shall be formed to interlock with each other, forming a sturdy, two-piece unit (Pat. No. 2776029), welded at the corners. Dividing panels to be anchored to fronts by "U" brackets.

DOORS—Where shown on plans shall be flush 1″ thick and of same design and construction as specified for dividing partitions, and shall be rigid, free from distortion and reinforced for hardware.

FRONTS—Shall be flush 1¼″ thick, made of two sheets of 16 guage steel, spaced and insulated with honeycomb core cemented under pressure to the inner surfaces for 24 hours with a water proof binder. The sides and top edge shall be bound and interlocked with 18 gauge rolled steel moldings welded at top corners. The bottom edge shall be prepared for floor connections and be reinforced with 12 gauge channels securely arc welded to a leveling cross bar of ½″ x ⅞″. Bottom edge of front adjacent to wall shall be flush with bottom of door, recommended width not to exceed 7″.

FLOOR CONNECTIONS—The fronts shall be fastened with an anchoring device, integrally welded near floor line, and designed to transmit strain of lateral thrust to floor construction through two ⅜″ diameter galvanized bolts with expansion shields having at least 2″ penetration into the floor slab.

These ⅜″ diameter bolts to project up from floor to form a jack screw leveling device on which set the ½″ x ⅛″ leveling cross bar of the bottom of the stile, which in turn is held in place by use of a lock nut over floor anchor projections for proper leveling. The bottom of the floor anchoring device shall be covered with a 3″ high polished stainless steel base (that will act as a mop strip) and shall be fastened to bottom of the fronts to give a finished appearance.

When dry fill floor construction is used in place of solid concrete, specify: sub floor plate anchors, furnished by the partition contractor, installed by others on concrete slab BEFORE fill and finished floors are applied.

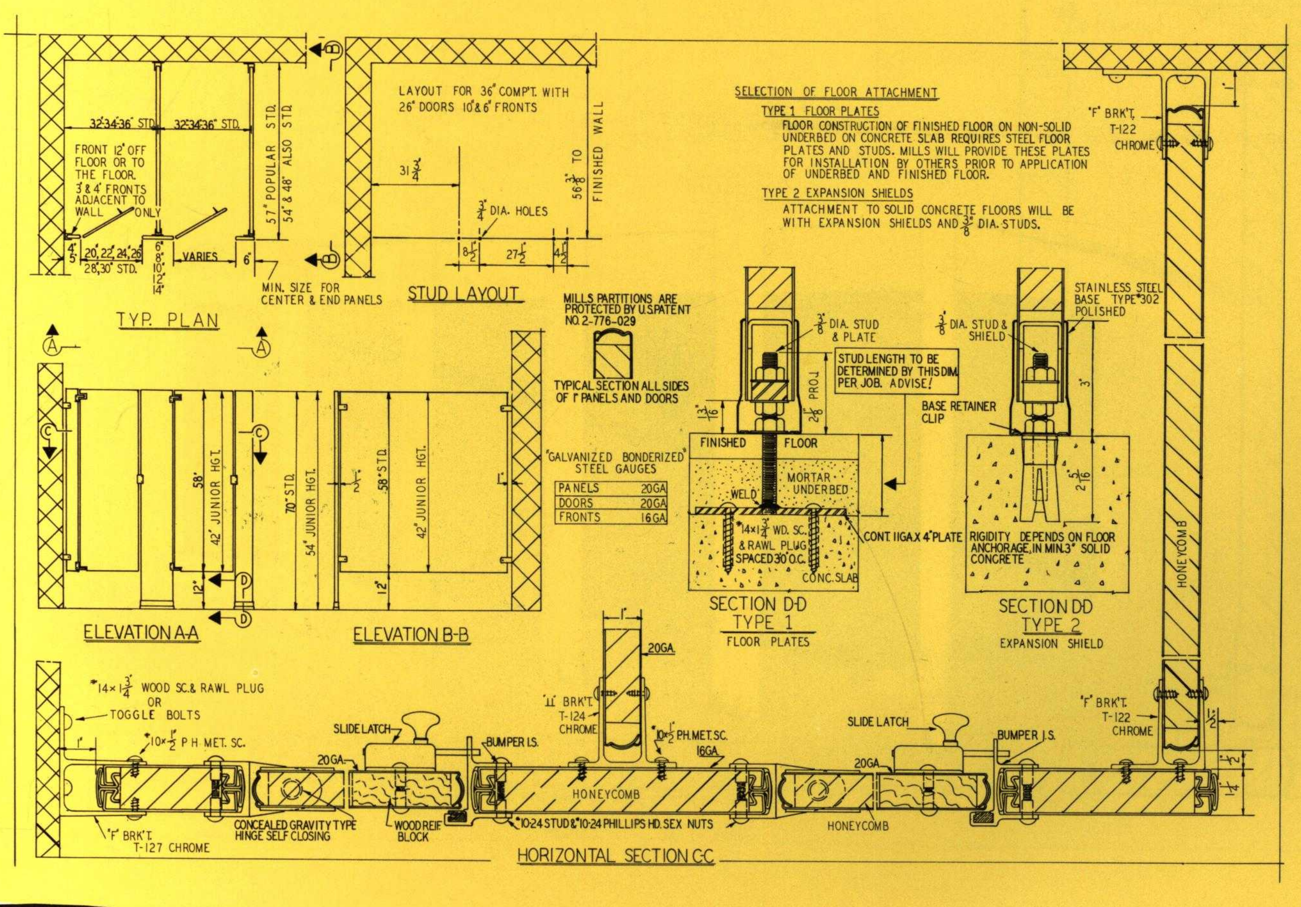
WALL CONNECTIONS—All front and dividing panels shall be fastened to masonry walls with wall "U" brackets to hold panel away from wall approximately 1″.

DOOR HARDWARE—Non-ferrous heavily chrome plated. Doors shall be hung on Mills standard gravity-type hinges. Bottom hinge shall have Nylon cam and follower construction, and be concealed within the door, both matched parts to be aligned by heavy stainless steel pintle. Top hinge to be mounted in cutout near top of door and operating on stainless steel pintle within a Nylon bushing, Each door to be equipped with Mills standard slide latch, keeper and bumper, and combination coat hook and bumper.

FASTENINGS—Hinges, keeper and latch to be applied with Phillips head sex nuts and studs. (One way fastenings available when specified). Combination coat hook and bumper applied with one way metal screws.

FINISH—All material to be completely finished. Material shall be galvanized-Bonderized furniture steel, given a prime coat and a finish coat of high grade synthetic enamel and oven-baked to produce a highly mar-resistant surface.

For porcelain enamel finish see page 8.


LAYOUT FOR 36" COMP'T. WITH 26" DOORS 10"& 6" FRONTS
32"-34"-36" STD.
32"-34"-36" STD.
FRONT 12" OFF FLOOR OR TO THE FLOOR.
3" & 4" FRONTS ADJACENT TO WALL ONLY
4" 5"
20", 22", 24", 26" 28", 30" STD.
6" 8" 10" 12" 14"
VARIES
6"
MIN. SIZE FOR CENTER & END PANELS
57" POPULAR STD. 54" & 48" ALSO STD.
31 3/4
3/4" DIA. HOLES
8 1/2"
27 1/2"
4 1/2"
56 3/8" TO FINISHED WALL
TYP. PLAN
STUD LAYOUT
A
B
C
D
MILLS PARTITIONS ARE PROTECTED BY U.S.PATENT NO. 2-776-029
TYPICAL SECTION ALL SIDES OF 1" PANELS AND DOORS
58"
42" JUNIOR HGT.
70" STD.
54" JUNIOR HGT.
12"
1/2"
58" STD.
42" JUNIOR HGT.
1"
12"
ELEVATION A-A
ELEVATION B-B
"GALVANIZED BONDERIZED" STEEL GAUGES
PANELS 20GA
DOORS 20GA
FRONTS 16GA
3/8" DIA. STUD & PLATE
STUD LENGTH TO BE DETERMINED BY THIS DIM. PER JOB. ADVISE!
13/16"
2 1/8" PROJ.
FINISHED FLOOR
MORTAR UNDERBED
WELD
*14×1 3/4" WD. SC. & RAWL PLUG SPACED 30" O.C.
CONC. SLAB
CONT. 11GA.X 4" PLATE
SECTION D-D TYPE 1 FLOOR PLATES
3/8" DIA. STUD & SHIELD
STAINLESS STEEL BASE TYPE #302 POLISHED
BASE RETAINER CLIP
3"
2 5/16"
RIGIDITY DEPENDS ON FLOOR ANCHORAGE, IN MIN. 3" SOLID CONCRETE
SECTION D-D TYPE 2 EXPANSION SHIELD
"F" BRK'T. T-122 CHROME
1"
HONEYCOMB
*14×1 3/4" WOOD SC. & RAWL PLUG OR TOGGLE BOLTS
1"
*10×1/2" P.H. MET. SC.
"F" BRK'T. T-127 CHROME
CONCEALED GRAVITY TYPE HINGE SELF CLOSING
20GA.
SLIDE LATCH
WOOD REIF. BLOCK
BUMPER I.S.
"LL" BRK'T. T-124 CHROME
1"
20GA.
*10×1/2" PH. MET. SC.
16GA.
HONEYCOMB
*10-24 STUD & *10-24 PHILLIPS HD. SEX NUTS
SLIDE LATCH
20GA.
HONEYCOMB
BUMPER I.S.
"F" BRK'T. T-122 CHROME
1/2"
1/2"
1 1/4"
HORIZONTAL SECTION C-C

SELECTION OF FLOOR ATTACHMENT

TYPE 1 FLOOR PLATES

FLOOR CONSTRUCTION OF FINISHED FLOOR ON NON-SOLID UNDERBED ON CONCRETE SLAB REQUIRES STEEL FLOOR PLATES AND STUDS. MILLS WILL PROVIDE THESE PLATES FOR INSTALLATION BY OTHERS PRIOR TO APPLICATION OF UNDERBED AND FINISHED FLOOR.

TYPE 2 EXPANSION SHIELDS

ATTACHMENT TO SOLID CONCRETE FLOORS WILL BE WITH EXPANSION SHIELDS AND ⅜" DIA. STUDS.

sentinel

overhead braced

a quality compartment for many uses

MILLS SENTINEL Toilet Compartments are designed for use in public buildings, department stores, office buildings, clubs, hotels and schools where a strong compartment, able to withstand heavy usage is needed. Their general appearance is similar to **Mills Marblemetal Floor Braced** Compartments except that the pilasters extend approximately 12″ above the door tops to a continuous overhead brace. This provides a rigid installation on thin floors or where sub floor cannot hold the compartments rigid. Use of overhead braced construction is good engineering practice for permanent rigidity for entrance screens, alcove toilet stalls, etc.

engineered value features

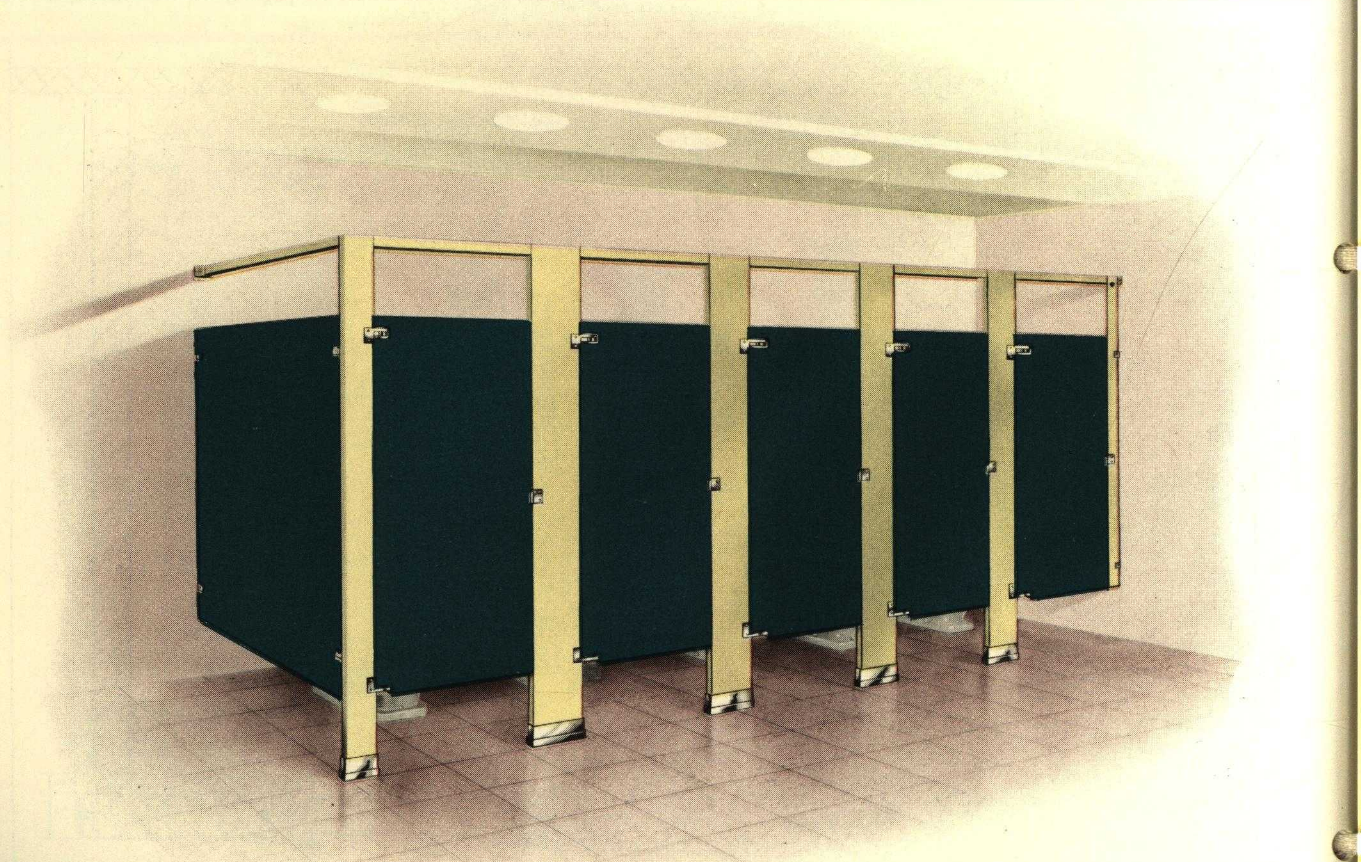
MILLS SENTINEL Compartments feature simple, prefabricated construction with self alignment features that make installation easy and economical. Their smooth flush surfaces are easy to clean, do not accumulate dust since all surfaces are flat without crevices. Panel, doors and fronts are manufactured in many standard sizes. See page 23.

materials and construction

MILLS SENTINEL — Compartments are constructed of the finest galvanized-Bonderized furniture steel or porcelain enamel steel. Sheets are permanently bonded to a honeycomb core and incorporate Mills exclusive integral, interlocking design (Pat. No. 2776029), welded at corners. The floor and headrail connections are concealed to enhance the streamlined appearance. All hardware is non-ferrous heavily chrome plated. For fastenings see specifications on opposite page.

available in two finishes—many colors

For details see pages 7 to 9.



specifications:

GENERAL—All Partitions, doors, entrance screens and dressing rooms shall be Mills **SENTINEL** as manufactured by Mills Metal Compartment Co., Upper Sandusky, Ohio.

DIVIDING PANELS—Shall be flush, 1″ thick made of two sheets of 20 gauge furniture steel, spaced and insulated with honeycomb core, cemented under pressure to inner surface with waterproof rust-inhibiting binder. Edges of panel sheets shall be formed to interlock with each other, forming a sturdy, two-piece unit (Pat. No. 2776029), welded at the corners. Dividing panels to be anchored to fronts by "U" brackets.

DOORS—Where shown on plans shall be flush 1″ thick and of same design and construction as specified for dividing partitions, and shall be rigid, free from distortion and reinforced for hardware.

FRONTS—Shall be flush 1¼″ thick made of two sheets of 18 gauge furniture steel, spaced and insulated with honeycomb core cemented under pressure with waterproof, rust-inhibiting binder. Edges of panel sheets are formed to interlock with each other forming a sturdy two piece unit (Pat. No. 2776029), welded at the corners. Botton edge of fronts adjacent to wall shall be flush with bottom of door, recommended width not to exceed 7″.

FLOOR CONNECTIONS—The fronts shall be fastened to the floor by fitting over a 16 gauge internal floor channel. This channel shall be fastened to the floor with two connections and permit the fronts to have vertical adjustment for uneven floors. The floor channel and bottom of front shall be covered with a 3″ high polished stainless steel base (which will act as a mop strip) and shall be fastened to the bottom of the fronts to give a finished appearance.

TOP BRACING—Rectangular headrail, 18 gauge, 1″ x 1¾″ shall thread through top of all fronts and fasten by means of sheet metal screws.

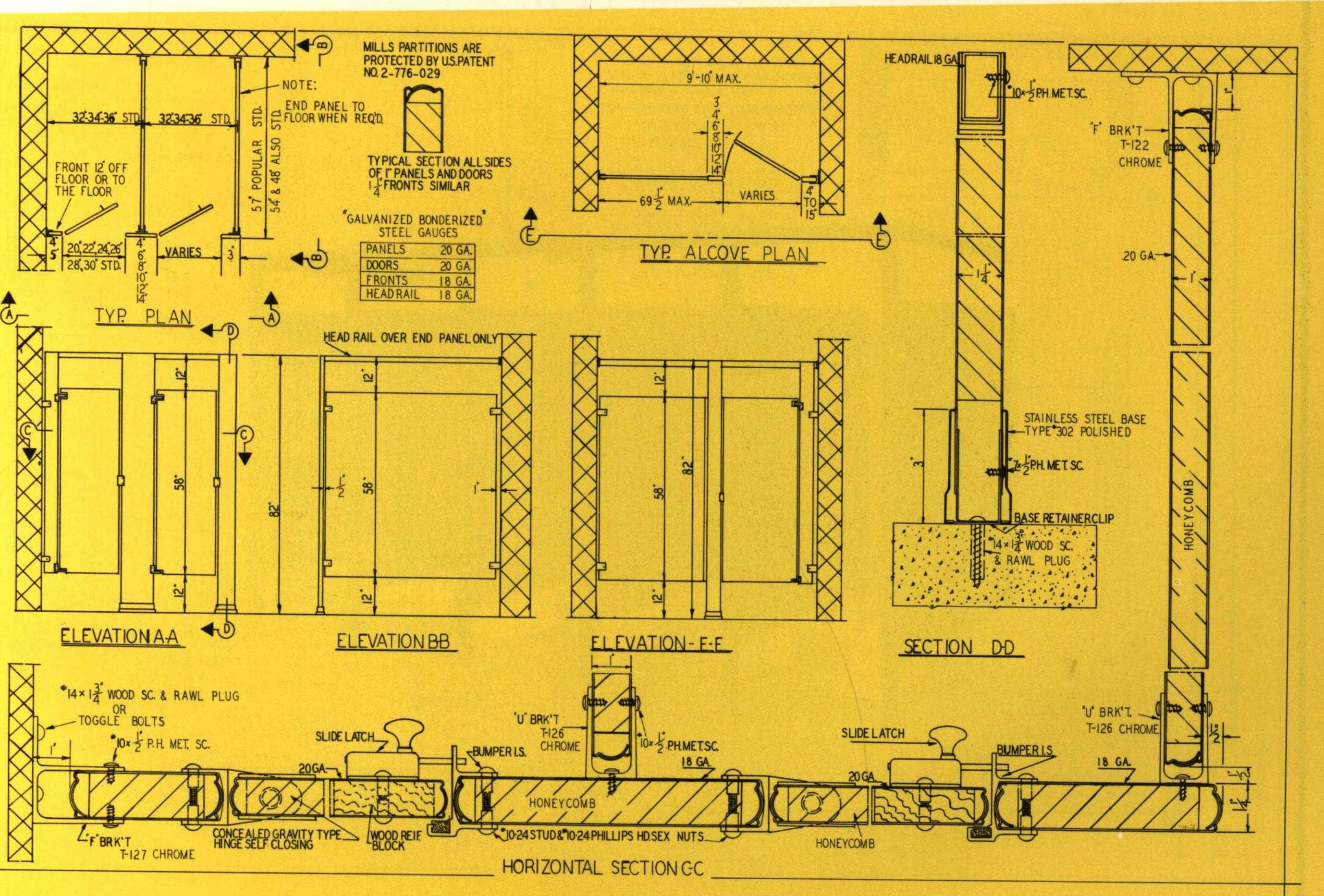
WALL CONNECTIONS—All front and dividing panels shall be fastened to masonry walls with wall "U" brackets to hold panel away from wall approximately 1″.

DOOR HARDWARE—Non-ferrous heavily chrome plated. Doors shall be hung on Mills standard gravity-type hinges. Bottom hinge shall have Nylon cam and follower construction, and be concealed within the door, both matched parts to be aligned by heavy stainless steel pintle. Top hinge to be mounted in cutout near top of door and operating on stainless steel pintle within a Nylon bushing. Each door to be equipped with Mills standard slide latch, keeper and bumper, and combination coat hook and bumper.

FASTENINGS—Hinges, keeper and latch to be applied with Phillips head sex nuts and studs. (One way fastenings available when specified). Combination coat hook and bumper applied with one way metal screws.

FINISH—All material to be completely finished. Material shall be galvanized-Bonderized furniture steel, given a prime coat and a finish coat of high grade synthetic enamel and oven-baked to produce a highly mar-resistant surface.

For porcelain enamel finish see page 8.


MILLS PARTITIONS ARE PROTECTED BY U.S. PATENT NO. 2-776-029
NOTE: END PANEL TO FLOOR WHEN REQ'D.
32″ 34″ 36″ STD.
32″ 34″ 36″ STD.
57″ POPULAR STD.
54″ & 48″ ALSO STD.
FRONT 12″ OFF FLOOR OR TO THE FLOOR
4″ 5″
20″, 22″, 24″, 26″ 28″, 30″ STD.
4″ 6″ 8″ 10″ 12″ 14″
VARIES
3″
TYPICAL SECTION ALL SIDES OF 1″ PANELS AND DOORS 1¼″ FRONTS SIMILAR
TYP. PLAN
9′-10″ MAX.
3″ 4″ 6″ 8″ 10″ 12″ 14″
69½″ MAX.
VARIES
4″ TO 15″
TYP. ALCOVE PLAN
HEAD RAIL OVER END PANEL ONLY
12″
58″
82″
1″
ELEVATION A-A
ELEVATION B-B
ELEVATION-E-E
HEADRAIL 18 GA.
#10 × ½″ P.H. MET. SC.
1¼″
STAINLESS STEEL BASE TYPE #302 POLISHED
#7 × ½″ P.H. MET. SC.
BASE RETAINER CLIP
#14 × 1¾″ WOOD SC. & RAWL PLUG
SECTION D-D
"F" BRK'T T-122 CHROME
20 GA.
HONEYCOMB
#14 × 1¾″ WOOD SC. & RAWL PLUG OR TOGGLE BOLTS
#10 × ½″ P.H. MET. SC.
"F" BRK'T T-127 CHROME
CONCEALED GRAVITY TYPE HINGE SELF CLOSING
WOOD REIF. BLOCK
SLIDE LATCH
20 GA.
BUMPER I.S.
"U" BRK'T T-126 CHROME
#10 × ½″ P.H. MET. SC.
18 GA.
#10-24 STUD & #10-24 PHILLIPS HD. SEX NUTS
"U" BRK'T. T-126 CHROME
½″
HORIZONTAL SECTION C-C
A B C D E

"GALVANIZED BONDERIZED" STEEL GAUGES

PANELS	20 GA.
DOORS	20 GA.
FRONTS	18 GA.
HEADRAIL	18 GA.

metal flush

overhead braced

the 1″ thick toilet compartment

Designed for use as toilet compartments, cubicles and dressing rooms, **MILLS METAL FLUSH** Compartments are identified by their one inch thick panels and doors and Mills exclusive internal shoe floor mountings. Metal Flush can be used in any type of building.

engineered value features

METAL FLUSH panels are rigidly anchored to the floor by Mills exclusive internal rust proof shoe. The post fits down snugly over this shoe. There is no external shoe top and crevice to collect water. Easy to clean, the smooth, flush, baked-on enamel surfaces of Metal Flush compartments stay clean longer. This means materially lower maintenance.

METAL FLUSH doors can be used with marble partitions and their use modernizes the appearance of old toilet compartments and gives the added value of the sanitation and durability of metal.

METAL FLUSH panel and door units are available in many standard sizes, see page 23.

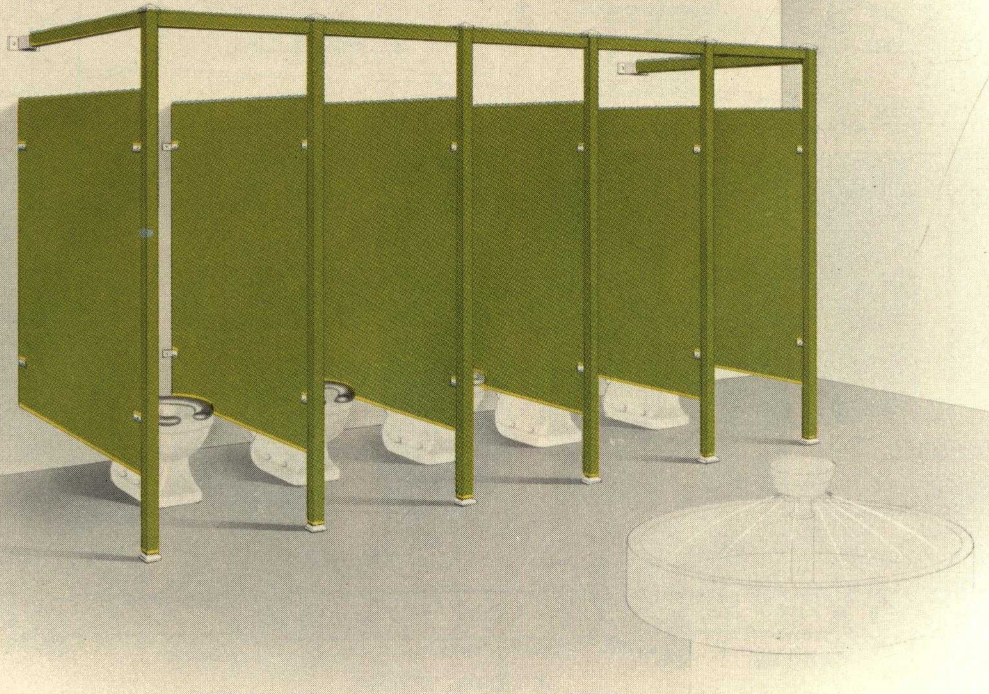
materials and construction

The finest quality galvanized-Bonderized furniture steel is used in the construction of **MILLS METAL FLUSH** compartments. All units are constructed of two sheets of steel permanently bonded in an insulating core and incorporating Mills exclusive integral interlocking design (Pat. No. 2776029), welded at the corners. Headrail threads through top of all posts and locks them in position by means of an ornamental post cap. **MILLS METAL FLUSH** hardware is heavy brass, chrome plated. For fastenings see specifications on opposite page.

baked-on enamel finish—many colors

For details, see pages 7 and 9.

(NOT AVAILABLE IN PORCELAIN FINISH)



metal flush

specifications:

GENERAL—All partitions, doors, entrance screens and dressing rooms shall be Mills **METAL FLUSH** as manufactured by Mills Metal Compartment Co., Upper Sandusky, Ohio.

PANELS AND POSTS—All panels shall be 1″ thick made of two sheets of 20 gauge furniture steel, spaced and insulated with a honeycomb core, cemented to the inside of the panel sheets with a rust-inhibiting binder. Edges of panel sheets shall be formed to interlock with each other, forming a sturdy two-piece unit (Pat. No. 2776029), welded at the corners. Panels shall be anchored to the posts by means of "U" brackets. Posts shall be 18 gauge, 1¾″ square of a sanitary design.

DOORS—Doors, where shown on plans, shall be 1″ thick and of the same design and construction as specified above for partition panels. Doors shall be rigid, free from distortion and reinforced for hardware. Maximum door width for compartments—32″.

TOP BRACING—Rectangular headrail, 18 gauge, 1″ x 1¾″ shall thread through the top of all posts and lock them in fixed position by means of a universal ornamental post cap.

FLOOR ATTACHMENT—Shall be by means of an **INTERNAL** rustproof shoe designed to permit adjustment for uneven floors and tightly fastened to the floor with concealed fastenings.

WALL CONNECTIONS—Shall be wall "U" brackets attached to the wall.

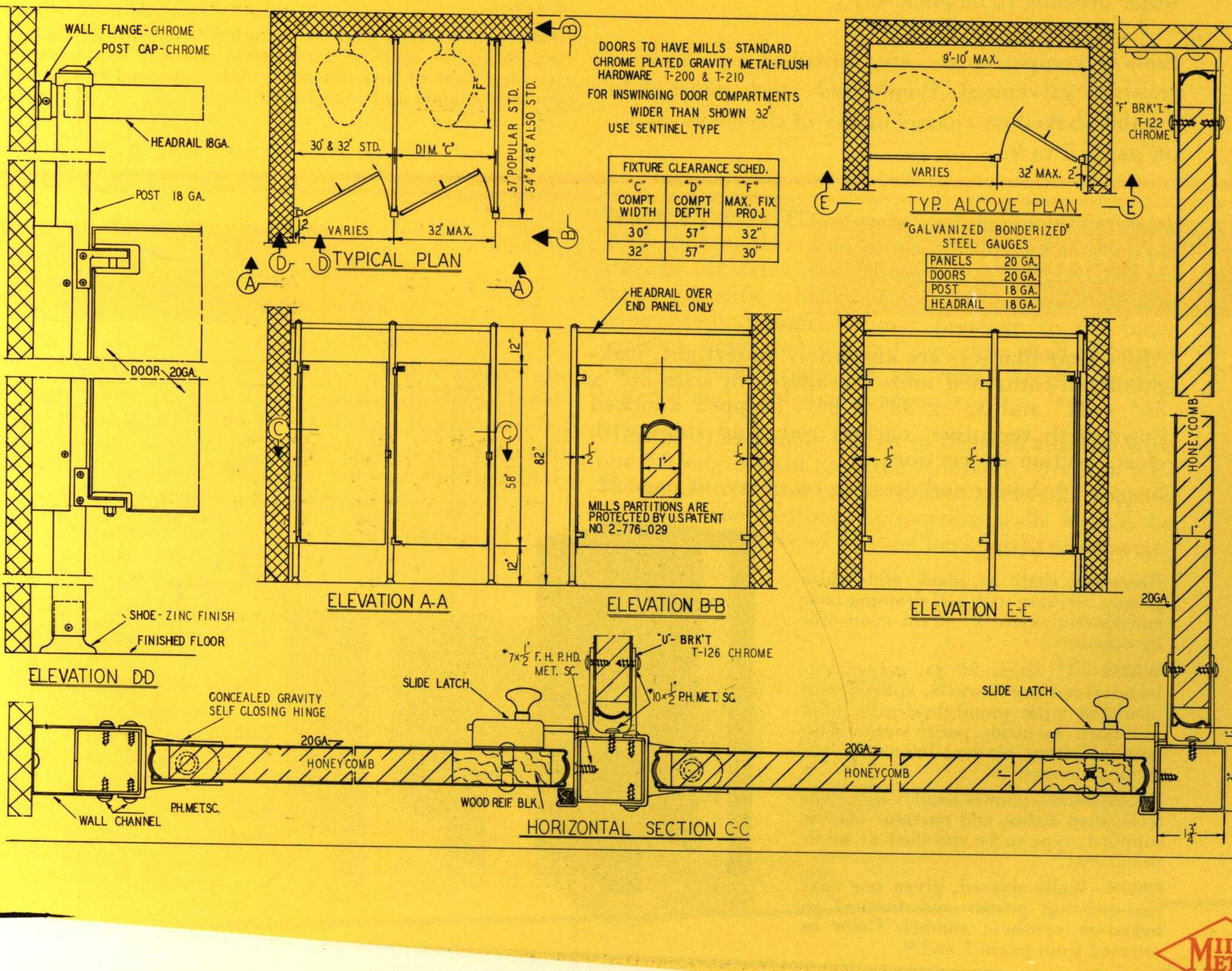
DOOR HARDWARE—Non-ferrous heavily chrome plated. Doors shall be hung on Mills standard gravity-type hinges. Bottom hinge shall have Nylon cam and follower construction, and be concealed within the door, both matched parts to be aligned by heavy stainless steel pintle. Top hinge to be mounted in cutout near top of door and operating on stainless steel pintle within a Nylon bushing. Each door to be equipped with Mills standard slide latch, keeper and bumper, and combination coat hook and bumper.

FASTENINGS—Hinges and keeper to be applied with Phillips head metal screws. Latch to be applied with Phillips head sex nuts and stud. (One way fastenings available when specified.) Combination coat hook and bumper applied with one way metal screws.

BACKS AND UTILITY SPACE—Backs against walls, enclosures for utility corridors or vent space shall be of single sheet construction. Vent tops and utility doors shall be of single sheet construction properly reinforced.

FINISH—All material to be completely finished. Material shall be galvanized-Bonderized furniture steel, given a prime coat and a finish coat of high grade synthetic enamel and oven-baked to produce a highly mar-resistant surface.

(NOT AVAILABLE IN PORCELAIN FINISH)


WALL FLANGE-CHROME
POST CAP-CHROME
HEADRAIL 18GA.
POST 18 GA.
DOOR 20GA.
SHOE-ZINC FINISH
FINISHED FLOOR
ELEVATION D-D
30" & 32" STD.
DIM. "C"
"F"
57" POPULAR STD.
54" & 48" ALSO STD.
VARIES
32" MAX.
TYPICAL PLAN
A
B
C
D
E
DOORS TO HAVE MILLS STANDARD CHROME PLATED GRAVITY METAL-FLUSH HARDWARE T-200 & T-210
FOR INSWINGING DOOR COMPARTMENTS WIDER THAN SHOWN 32" USE SENTINEL TYPE
9'-10" MAX.
VARIES
32" MAX.
TYP. ALCOVE PLAN
"F" BRK'T. T-122 CHROME
HEADRAIL OVER END PANEL ONLY
12"
58"
82"
MILLS PARTITIONS ARE PROTECTED BY U.S. PATENT NO. 2-776-029
ELEVATION A-A
ELEVATION B-B
ELEVATION E-E
HONEYCOMB
20GA.
"U"-BRK'T T-126 CHROME
7×½ F. H. P. HD. MET. SC.
10×½ P.H. MET. SC.
SLIDE LATCH
CONCEALED GRAVITY SELF CLOSING HINGE
WALL CHANNEL
PH. MET. SC.
WOOD REIF. BLK.
HORIZONTAL SECTION C-C
1¾"

FIXTURE CLEARANCE SCHED.

"C" COMPT WIDTH	"D" COMPT DEPTH	"F" MAX. FIX. PROJ.
30"	57"	32"
32"	57"	30"

"GALVANIZED BONDERIZED" STEEL GAUGES

PANELS	20 GA.
DOORS	20 GA.
POST	18 GA.
HEADRAIL	18 GA.

shower and dressing rooms

Careful choice of material for multiple shower unit and dressing room facilities for schools, swimming pools, motels, factories and similar buildings is important for many reasons. Appearance, cleanliness and good taste are important for public goodwill and employee morale. Durability and ease of maintenance have a definite effect on the overall year to year cost of the installation.

Meeting all the requirements of this type installation, **MILLS METAL FLUSH** material, forming a battery of shower stalls, with or without dressing rooms, is the finest material available. Mills exclusive internal rust-proof shoe floor connection gives an important advantage since these compartments are exposed to considerable amounts of water and steam and this Mills exclusive feature eliminates the usual pocket at top of shoe that accumulates water and increases the chances of corrosion.

SENTINEL fronts, as illustrated, may be used for the outer dressing room enclosure.

Shower compartments are furnished in corrosion resistant galvanized, Bonderized steel, finished in durable, baked-on-enamel in any of the colors shown on pages 7 to 9.

specifications:

GENERAL—All panels, and doors, if required, shall be Mills ***METAL FLUSH*** as manufactured by the Mills Metal Compartment Co., Upper Sandusky, Ohio. Shower basin, curb of terrazzo or concrete shall be furnished by others. Curb dimensions as suggested in adjacent detail.

PANELS AND POSTS—All panels shall be 1" thick made of two sheets of 20 gauge furniture steel, galvanized-Bonderized, spaced and insulated with a fibre filler cemented to the inside of the panels with a rust resisting binder. Edges of panel sheets are formed to interlock with each other forming a sturdy two piece unit, (Pat. No. 2776029), welded at the corners. Posts shall be 18 gauge, 1¾" square.

TOP BRACING—Rectangular headrail, 18 gauge, 1" x 1¾" shall thread through top of all posts and lock them in fixed position by means of a universal ornamental post cap.

FLOOR AND CURB ATTACHMENTS—Shall be by means of Mills exclusive INTERNAL rustproof connectors designed to permit adjustment for uneven floors and tightly fastened to the floor and curb with concealed fastenings.

WALL CONNECTIONS—Shall be stirrup brackets attached to the wall with bolts properly spaced to prevent breaking out.

FASTENINGS—All fastenings shall be Phillips head screws or one way when specified.

DOORS—Where required, doors shall be 1" thick and of the same design and construction as specified for panels.

**ACCESSORIES — **Shower heads, valve controls, soap dishes, curtains and seats to be supplied by others unless otherwise specified.

FINISH—All material shall be completely finished at the factory. Material shall be thoroughly cleaned, free from oil, given one coat of rust resistant primer, sprayed evenly with synthetic enamel and oven baked.

unit showers

Mills Unit Showers are absolutely watertight, leakproof self-contained units. Available in sizes 36" x 36" x 84" and 32" x 32" x 84". Shipped knocked down with receptors, curtain rods and rings with clear erection instructions.

Suggested shower and dressing room layout page 22.

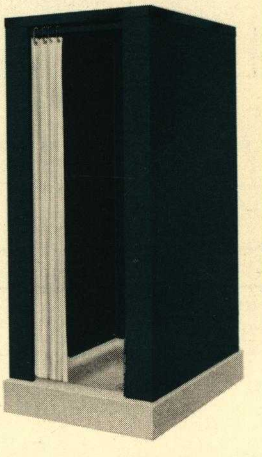
specifications:

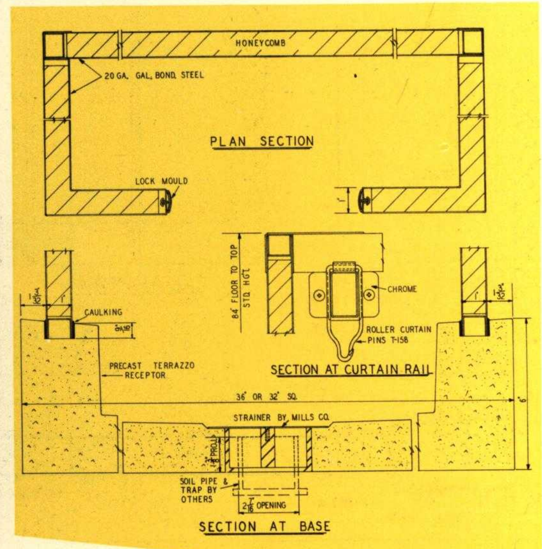
Receptors shall be black and white precast terrazzo with self-draining base and cast-in drain. 2" drain connector by others.

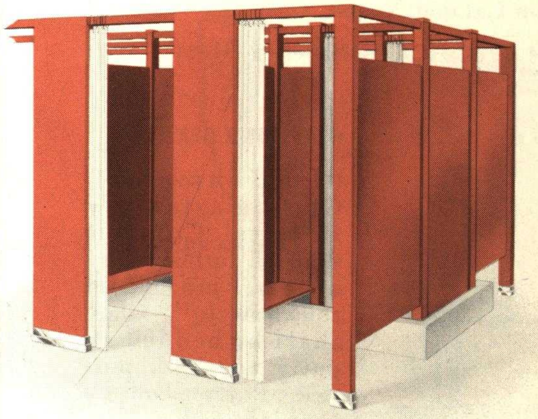
WALLS—1" thick 20 ga. galvanized-bonderized steel walls, spaced and insulated with sound-deadening filler cemented to inside panel sheets with rust-inhibiting binder. Braced at top by angle frame.

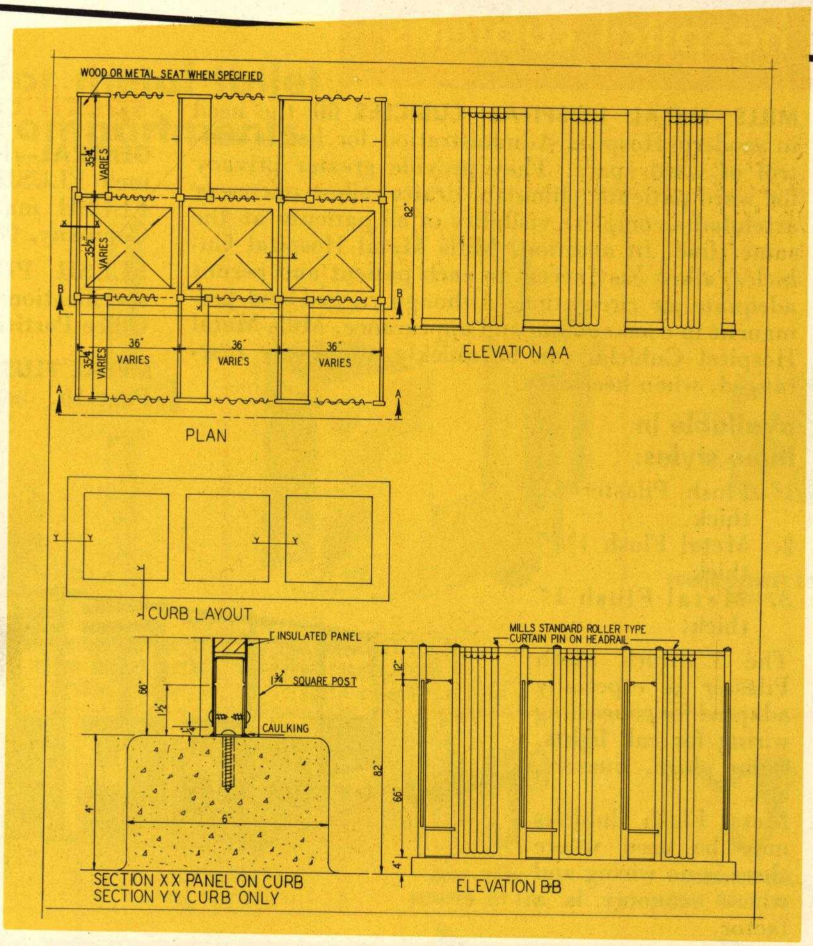
ACCESSORIES—Shower head, valve, controls, soap dishes and curtains can be supplied, type to be specified at additional cost.

FINISH—Walls cleaned, given one coat rust-resisting primer and finished in baked-on synthetc enamel. Color as selected from pages 7 and 9.







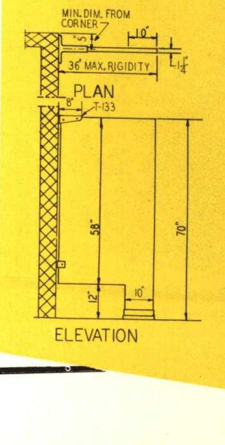

WOOD OR METAL SEAT WHEN SPECIFIED
35¼" VARIES
35½" VARIES
35¼" VARIES
36" VARIES
36" VARIES
36" VARIES
X X
B B
A A
PLAN
82"
ELEVATION AA
Y Y
CURB LAYOUT
INSULATED PANEL
1¾" SQUARE POST
66"
1½"
¼"
CAULKING
4"
6"
SECTION XX PANEL ON CURB
SECTION YY CURB ONLY
MILLS STANDARD ROLLER TYPE CURTAIN PIN ON HEADRAIL
12"
82"
66"
4"
ELEVATION B-B

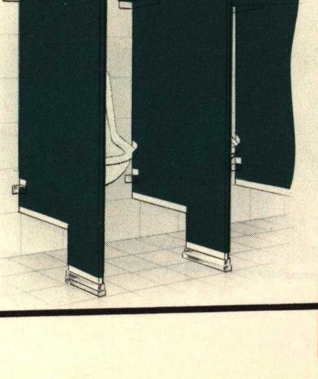
urinal screens

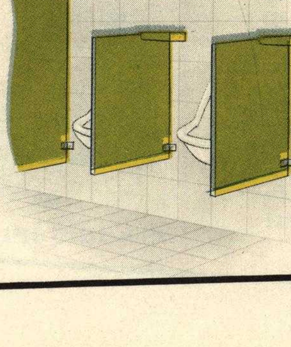
FLOOR BRACED — This screen provides maximum privacy. Construction details similar to Mills Marblmetal Floor Braced (See pages 12-13). Recommended where depth exceeds 24″ or where stud walls are not reinforced (See reinforcement data at right). Maximum depth of screen not to exceed 47″.

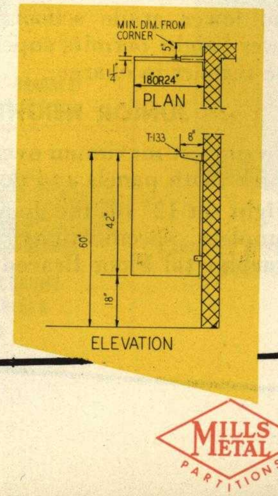
WALL SUPPORTED—Screen shall be flush 1¼″ thick made of two sheets of 20 ga. galvanized bonderized steel or (at extra cost) Stainless steel type 18-8 #4 finish (specify which), spaced and insulated with honeycomb cemented under pressure to the inner surfaces. Sides, bottom and top edges shall be bound and interlocked with 18 ga. rolled steel moulding mitered and welded at corners.

Method of attaching screen to the wall shall be with one 8″ length steel (painted to match) bracket #T-133 at the top and one non ferrous chrome bracket T-129 at the bottom. Supporting walls should be reinforced with wood or steel backing by others.


MIN. DIM. FROM CORNER
5"
10"
36" MAX. RIGIDITY
1¼"
PLAN
8"
T-133
58"
70"
12"
10"
ELEVATION






MIN. DIM. FROM CORNER
5"
¼"
18" OR 24"
PLAN
T-133
8"
60"
42"
18"
ELEVATION

hospital cubicles

MILLS METAL HOSPITAL CUBICLES fill the need in modern Hospital Administration for better control of ward space. They provide greater privacy for ward patients, eliminate drafts, allow nurses or attendants complete visibility of all patients at the same time. In addition, Mills Metal Hospital Cubicles, allow easy access to each patient and permit adequate air circulation. Although rugged and permanent in construction and appearance, Mills Metal Hospital Cubicles can be quickly and easily rearranged, when necessary.

available in three styles:

1. Flush Pilaster 3″ thick.
2. Metal Flush 1¾″ thick
3. Metal Flush 1″ thick.

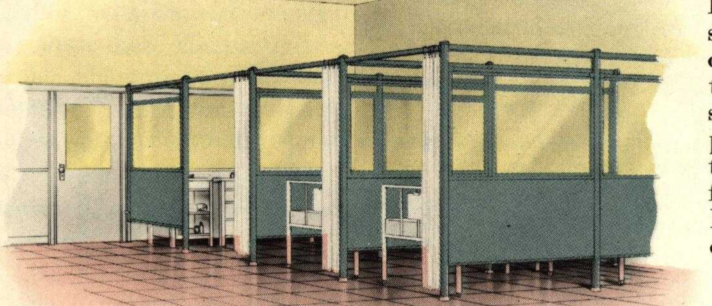
The 3″ thick Flush Pilaster is especially adapted for concealing wiring for call lights, radio plugs, buzzers, etc.
Metal Flush Cubicles may be used where there is no wiring and where economy is a factor.

specifications:

GENERAL—Hospital Cubicles shall be Mills three inch FLUSH PILASTER or 1″ or 1¾″ METAL FLUSH material as manufactured by The Mills Company, 965 Wayside Road, Cleveland 10, Ohio.

FLUSH PILASTER CUBICLES, for complete specifications see Flush Pilaster material in Mills Office Partition Catalog No. 58.

METAL FLUSH SPECIFICATIONS—See Metal Flush Page 16.



GLASS AND GLAZING—

(Omit if not required). Glass glazing for Hospital Cubicles shall be furnished by others, maximum thickness ¼″. Glass shall be bedded in putty and back puttied. Putty shall be furnished by The Mills Co. to match color of cubicle.

junior height

marblmetal

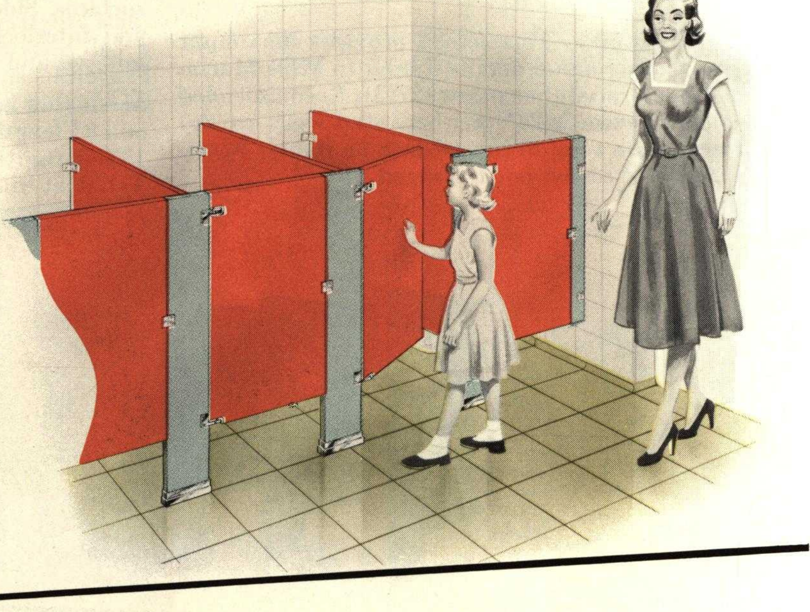
floor braced toilet compartment

MILLS JUNIOR COMPARTMENTS

Similar in construction to Mills Marblmetal Floor Braced, these compartments are in keeping with junior-size lavatories and washroom fittings being furnished by principal plumbing manufacturers. They afford privacy for the kindergarten and lower grade school child but lower height permits supervision by the teacher in charge.

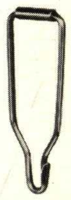
JUNIOR HEIGHT

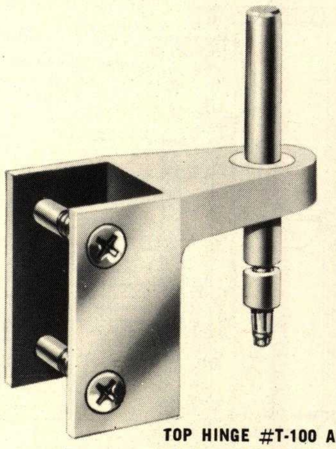
We suggest maximum overall height of 54″ with panels and doors of 42″ height set 12″ off the floor. . . . For complete specifications see Mills Marblmetal Floor Braced, page 13.

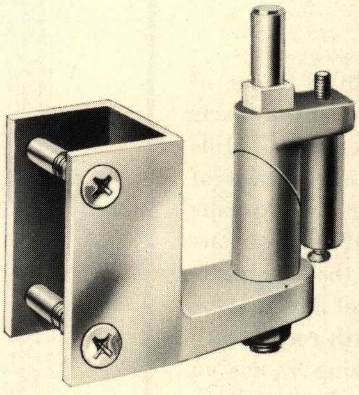


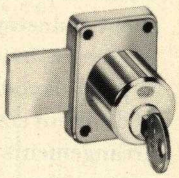
standard hardware

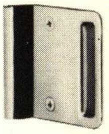
for metal toilet compartments

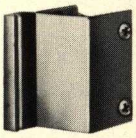

CURTAIN PIN #T-158

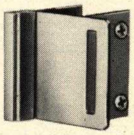

TOP HINGE #T-100 ALL TYPES EXCEPT METAL FLUSH #T-200

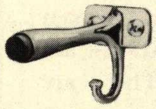

BOTTOM HINGE #T-110 ALL TYPES EXCEPT METAL FLUSH #T-210

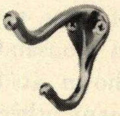

CORBIN CABINET LOCK #0764-L

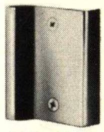

M.F. (I.S.) BUMPER #T-186

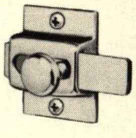

(O.S.) BUMPER 1¼" #T-177

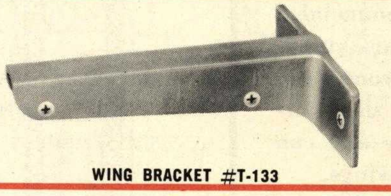

(I.S.) BUMPER 1¼" #T-176

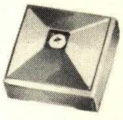

COAT-HOOK BUMPER #T-175

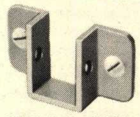

DRESSING STALL COAT HOOK #T-174

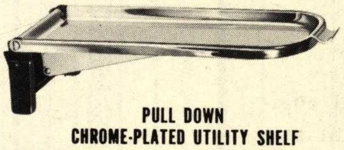

M.F. (O.S.) BUMPER #T-187

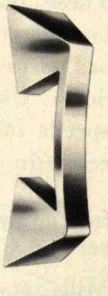

SLIDE LATCH #T-160

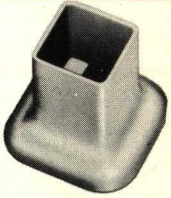

WING BRACKET #T-133

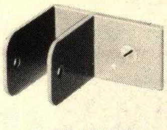

M.F. POST CAP #T-181

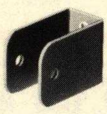

HEAD RAIL FLANGE #T-121

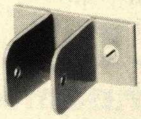

PULL DOWN CHROME-PLATED UTILITY SHELF

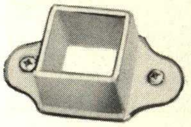

CHROME DOOR PULL #T-120

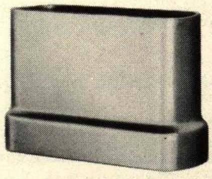

M.F. INTERNAL SHOE #T-142

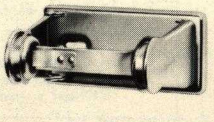

"F" BRACKET T-122-1"—T-127-1¼"

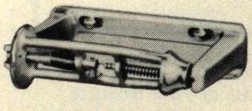

"U" BRACKET T-126-1"

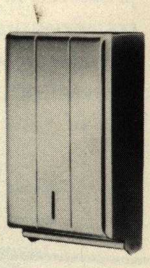

WALL "U" BRACKET T-124-1"—T-129-1¼"


M.F. CEILING FLANGE #T-184


FRONT BASE 3-4-6-8-10-12 & 14


ROLL PAPER HOLDER #R-200


PALMER ECONOMY PAPER HOLDER #202


CABINET PAPER HOLDER #795 CR.

typical layouts for metal shower and bath compartments

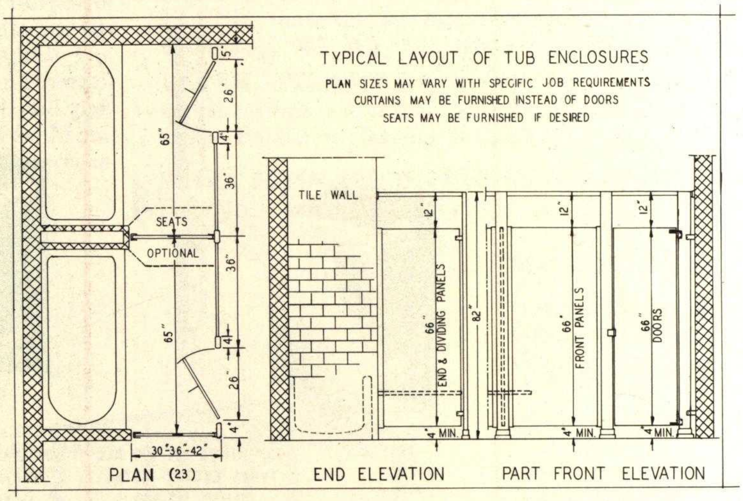
The Mills Company's years of leadership in the Toilet Compartment Industry have enabled Mills engineers to develop a series of typical layouts for toilet rooms of different sizes and using various arrangements of the compartments also, typical layouts for shower and tub bath rooms with and without dressing rooms in combination. These layouts have been engineered to make the best use of materials and space without sacrificing appearance. A few of these typical layouts, proven in thousands of installations, are shown at the right. There are many others to fit any size rooms and building conditions.

These and similar recommended layouts are designed to use standard sizes of panels, fronts and doors. Use of standard size units speeds fabricating time and can result in substantial savings.

free engineering service

Mills' staff of experienced engineers is at your service, at any time, to help with your layout problems in Toilet rooms, showers, dressing rooms and hospital cubicles. Consult Mills nearest representative or send us an outline of your needs.

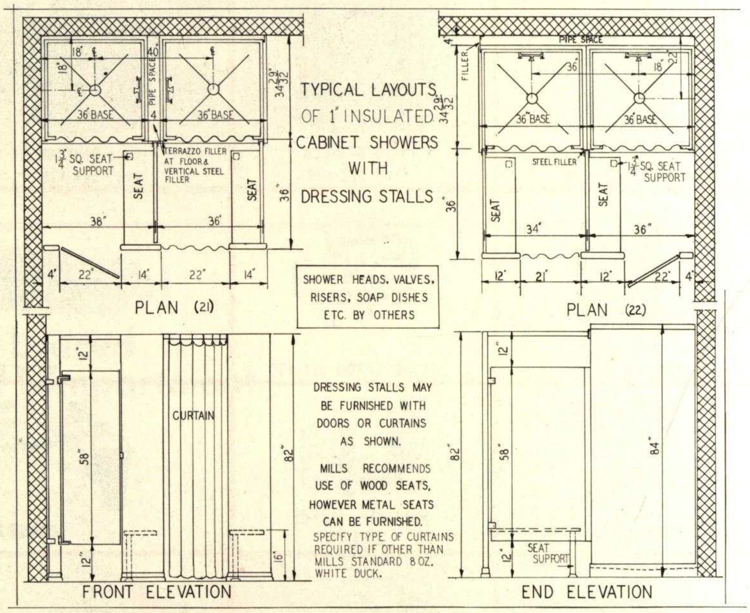
Right is reserved to revise design and specifications and substitute material without notice.



TYPICAL LAYOUT OF TUB ENCLOSURES

PLAN SIZES MAY VARY WITH SPECIFIC JOB REQUIREMENTS
CURTAINS MAY BE FURNISHED INSTEAD OF DOORS
SEATS MAY BE FURNISHED IF DESIRED

5"
26"
65"
4"
36"
SEATS
OPTIONAL
36"
65"
4"
26"
4"
30"-36"-42"
PLAN (23)
TILE WALL
12"
66" END & DIVIDING PANELS
82"
4" MIN.
12"
66" FRONT PANELS
4" MIN.
12"
66" DOORS
4" MIN.
END ELEVATION
PART FRONT ELEVATION



TYPICAL LAYOUTS OF 1" INSULATED CABINET SHOWERS WITH DRESSING STALLS

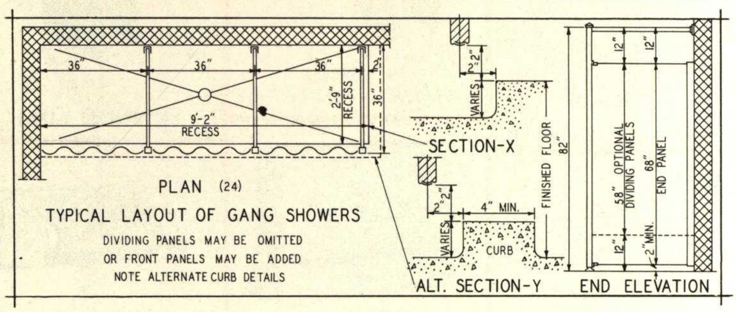
SHOWER HEADS, VALVES, RISERS, SOAP DISHES ETC. BY OTHERS

DRESSING STALLS MAY BE FURNISHED WITH DOORS OR CURTAINS AS SHOWN.

MILLS RECOMMENDS USE OF WOOD SEATS, HOWEVER METAL SEATS CAN BE FURNISHED.

SPECIFY TYPE OF CURTAINS REQUIRED IF OTHER THAN MILLS STANDARD 8 OZ. WHITE DUCK.

18"
18"
40
PIPE SPACE
36" BASE
4
36" BASE
34 29/32
1 3/4 SQ. SEAT SUPPORT
TERRAZZO FILLER AT FLOOR & VERTICAL STEEL FILLER
SEAT
SEAT
36"
38"
36"
4"
22"
14"
22"
14"
PLAN (21)
4"
PIPE SPACE
FILLER
36"
18"
22"
36" BASE
36" BASE
34 29/32
STEEL FILLER
1 3/4 SQ. SEAT SUPPORT
SEAT
SEAT
36"
34"
36"
12"
21"
12"
22"
4"
PLAN (22)
12"
58"
12"
CURTAIN
16"
82"
FRONT ELEVATION
82"
12"
58"
12"
SEAT SUPPORT
84"
END ELEVATION

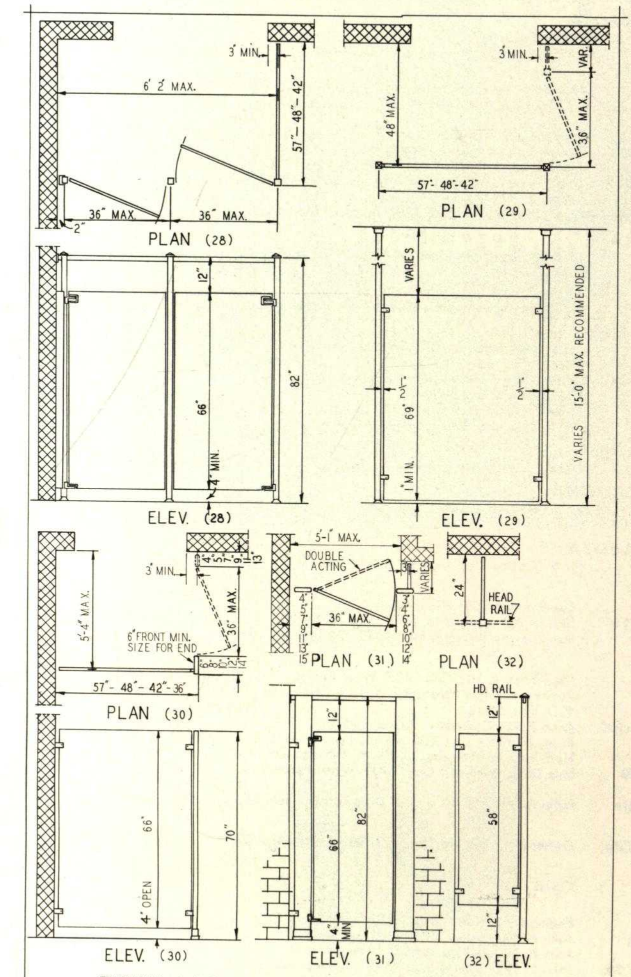


TYPICAL LAYOUT OF GANG SHOWERS

DIVIDING PANELS MAY BE OMITTED
OR FRONT PANELS MAY BE ADDED
NOTE ALTERNATE CURB DETAILS

36"
36"
36"
2"
2'-9" RECESS
36"
9'-2" RECESS
PLAN (24)
2"-2"
VARIES
SECTION-X
2"-2"
4" MIN.
VARIES
CURB
ALT. SECTION-Y
FINISHED FLOOR
82"
12"
12"
58" OPTIONAL DIVIDING PANELS
68" END PANEL
12"
2" MIN.
END ELEVATION

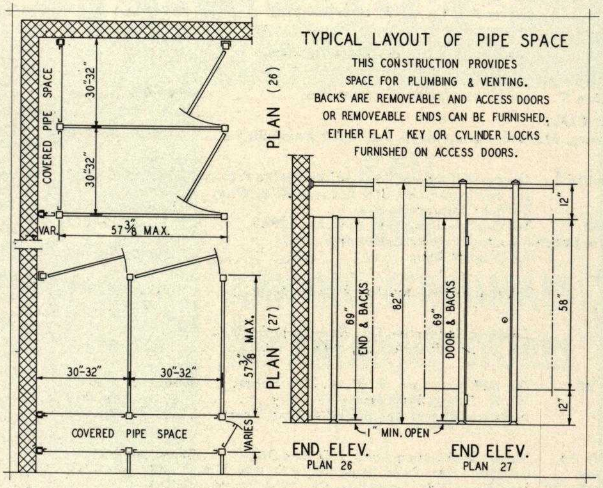
for toilet room entrances


3" MIN.
6' 2" MAX.
57"–48"–42"
36" MAX.
36" MAX.
2"
PLAN (28)
3" MIN.
VAR.
48" MAX.
36" MAX.
57"-48"-42"
PLAN (29)
12"
66"
82"
4" MIN.
ELEV. (28)
VARIES
69"
1" MIN.
15'-0" MAX. RECOMMENDED
VARIES
ELEV. (29)
3" MIN.
5'-4" MAX.
6" FRONT MIN. SIZE FOR END
36" MAX.
57"-48"-42"-36"
PLAN (30)
5'-1" MAX.
DOUBLE ACTING
36" MAX.
VARIES
PLAN (31)
24"
HEAD RAIL
PLAN (32)
66"
70"
4" OPEN
ELEV. (30)
12"
66"
82"
4" MIN
ELEV. (31)
HD. RAIL
12"
58"
12"
(32) ELEV.

TYPICAL LAYOUTS OF ENTRANCE SCREENS

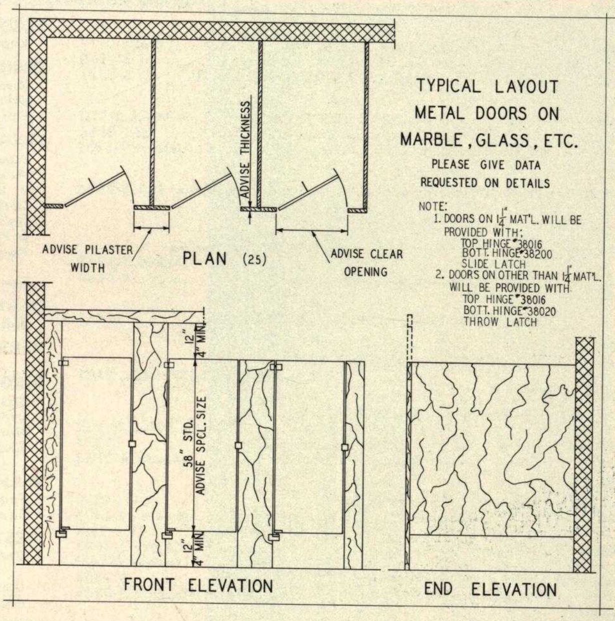
ENTRANCE SCREEN LAYOUTS (28 THRU 32) MAY BE VARIED TO SUIT JOB.
THEY CAN BE FURNISHED WITH OR WITHOUT DOORS SINGLE OR DOUBLE ACTING.
SEE PAGES 11,13,15,17 FOR GENERAL TYPES

for toilet stalls and pipe space


COVERED PIPE SPACE
30"-32"
30"-32"
PLAN (26)
VAR.
57 3/8" MAX.
30"-32"
30"-32"
57 3/8" MAX.
PLAN (27)
COVERED PIPE SPACE
VARIES
12"
69" END & BACKS
82"
69" DOOR & BACKS
58"
12"
1" MIN. OPEN
END ELEV. PLAN 26
END ELEV. PLAN 27

TYPICAL LAYOUT OF PIPE SPACE

THIS CONSTRUCTION PROVIDES SPACE FOR PLUMBING & VENTING. BACKS ARE REMOVEABLE AND ACCESS DOORS OR REMOVEABLE ENDS CAN BE FURNISHED. EITHER FLAT KEY OR CYLINDER LOCKS FURNISHED ON ACCESS DOORS.


ADVISE THICKNESS
ADVISE PILASTER WIDTH
PLAN (25)
ADVISE CLEAR OPENING
12"
4" MIN.
58" STD. ADVISE SPCL. SIZE
12"
4" MIN.
FRONT ELEVATION
END ELEVATION

TYPICAL LAYOUT METAL DOORS ON MARBLE, GLASS, ETC.

PLEASE GIVE DATA REQUESTED ON DETAILS

NOTE:
1. DOORS ON 1¼" MAT'L. WILL BE PROVIDED WITH:
    TOP HINGE #38016
    BOTT. HINGE #38200
    SLIDE LATCH
2. DOORS ON OTHER THAN 1¼" MAT'L. WILL BE PROVIDED WITH
    TOP HINGE #38016
    BOTT. HINGE #38020
    THROW LATCH

standard sizes of Mills units for toilet compartments

The use of standard units speeds fabrication time and reduces delivery time. It also frequently effects substantial savings in the cost of the completed job. Listed below are the Mills Standard sizes of all units making up Toilet Compartments.

Compartment Widths—30, 32, 34 and 36 in. center to center of dividing panels.

Wall to front of compartment—57 inches.

Other Standard panel depths are 48, 42, 36, 30 and 24 inches. These are used for screens, dressing stalls, urinals and toilet compartments.

Dividing panels and doors—58 in. high.
Floor to bottom of dividing panels—Ceiling hung 12 in., Floor braced, 12 in., Sentinel and Metal Flush 12 in.
Floor to bottom of doors, all types, 12 inches.
Top of doors to top of headrail—12 inches.
Finish floor to top of headrail—82 inches, overall height.
Fronts, standard widths—3, 4, 6, 8, 10, 12 and 14 inches.
Doors, standard widths, 22, 24, 26, 28, 30, 32 and 34 inches.

The foregoing dimensions comply with the modular system of dimensional coordination and are standard stock sizes for Panels, Doors and Fronts.

sales representatives

ALABAMA		
Birmingham 3	Wilson Door & Window Supply Co., 716 Eighth Court, W.	AL 1-4533
Montgomery	Shepard M. Stewart, 1262 Magnolia Curve	AMherst 2-0473
ARIZONA		
	Don J. Cummings Co., 7721 Apache Ave., N.E. Box 3103, Albuquerque, N. M.	92411
ARKANSAS		
Fort Smith	Felix Thompson Co., 423 N. 10th St., P. O. Box 13	SUnset 2-5067
CALIFORNIA		
Los Angeles 32	Builders Specialty Co., 5320 Valley Blvd.	CApital 1-2186
San Francisco 23	Coast Builders Specialties, 344 Harriet St.	
San Diego	See Builders Specialty Co., Los Angeles	CApital 1-2186
COLORADO		
Denver 16	Leever Post Co., 4350 N. Broadway	AMherst 6-2475
CONNECTICUT		
Hartford 5	The Reynolds Agency, 634 Asylum Ave.	JAckson 7-3151
DELAWARE		
Wilmington 5	Jandy, Inc., 3407 Lancaster Pike	Wyman, Del. 8-2244
DIST. OF COL.		
Bladensburg, Md.	John H. Hampshire, Inc., 4626 Annapolis Rd.	Union 4-0300
FLORIDA		
Jacksonville 3	George P. Coyle & Son, 2361 Dennis St., P. O. Box 2267	EL 6-4821
Miami	Joe Farrington, Inc., 300 Biscayne Blvd. Way, DuPont Center, Suite 414	FRanklin 4-1717
St. Pete 33	Building Specialties, Inc., P. O. Box 10969	54613
West Palm Beach	Manufacturers Representatives, Inc., 6205 South Dixie	JUstice 5-5545
GEORGIA		
Atlanta	J.R. Ulery Company, 565 Plum St., N. W.	JAckson 1-2299
IDAHO		
	Gerstner Specialties, Inc., 83 Navajo St., P. O. Box 336, Salt Lake City, Utah	EL 5-2993
ILLINOIS		
Chicago 10	The Mills Company, 2561 W. 79th Street	WAlbrook 5-9700
Peoria	W. W. Grote, 3208 North University	5-5612
Rockford	Architectural Iron Co., Inc., 904-22nd Street	3-8403
INDIANA		
Evansville 14	Somers Engineering Sales, P.O. Box 572	GReenleaf 6-2640
Fort Wayne	Irmscher Sales, 2920 Engle Rd., P.O. Box 324	HArrison 4242
Indianapolis 22	Stackhouse Bldg. Specialties Co., 1314 W. Washington	MElrose 2-8503
South Bend	See The Mills Company, Chicago, Ill.	WAlbrook 5-9700
IOWA		
Davenport	Plath Building Supply, P. O. Box 306	Dial 6-0177
Des Moines 8	Kurtz Hardware Co., 312-314 Walnut Street	AT 8-0148
Waterloo	Pinkerton Bldg. Supply, 302½ W. 4th St., Box 419	AD 3-3361
KANSAS		
Hutchinson	Supply Service, Inc., 528 S. Main Street	MOhawk 3-9111
Topeka	See B-D-R Engineering Corp. Kansas City, Mo.	JE 1-8366
Wichita	Supply Service, Inc., 1250 Mosley, Box 1678	AMherst 7-5831
KENTUCKY		
Lexington & Louisville	Faulkner Clark Material Sales, 234 N. Upper St., Box 295	5-2984
LOUISIANA		
New Orleans	Metal Bldg. Products Co., 1937 Lafeyette St., Box 83	JAckson 5-3242
Shreveport	Harold Lipper Company, 301 Spring St.	4-6686
MAINE		
Bangor	Acme Supply Company, 60 Summer Street	9443
MARYLAND		
Baltimore	Talbott & Degele, Inc., 328 E. 25th Street	HOpkins 7-5407, 5408, 5409
MASSACHUSETTS		
Boston 15	The Raymond H. Pierce Co., 126 Moss Ave.	COpely 7-1100, 7-1101
Pittsfield	Kenneth P. Ritchie, 21 North St., Room 205	5375
Worcester 8	Chester E. Peterson Co., 306 Main St.	PLeasant 4-0734
MICHIGAN		
Alpena	Wiltse Bros. Corp., P. O. Box 32	4300
Detroit 26	Building Accessories Co., 155 W. Congress St.	WOodward 1-4406
Flint 1	J. P. Burroughs & Son, Inc., 625 W. Second St.	CE 2-2181
Grand Rapids 7	Associated Material & Supply, 1222 Burton St., S.E.	CHerry 3-3653
Lansing 29	Young Bros. & Sales, Inc., 720 East Michigan	IVanhoe 4-5431
Muskegon Hts.	General Building Materials Co., 2523 Sixth St.	3-2258
Saginaw	Hugh Lee Iron Works, Inc., 925 S. Water Street	PLeasant 7-0338
MISSISSIPPI		
	Open	
MINNESOTA		
St. Paul	Pella Products, 929 Washington Ave., South	Federal 5-4137
MISSOURI		
Kansas City	B-D-R Engineering Corp., 4243 Pennsylvania Ave.	JEfferson 1-8366
St. Louis	Howard Willis Company P. O. Box 3818, Kirkwood Station	YOrktown 6-3555
MONTANA		
	Open	
NEBRASKA		
Omaha	Engineering Products Company, P.O. Box 1124	ATlantic 1776
NEVADA		
	Gerstner Specialties, Inc., 83 Navajo St., P.O. Box 336, Salt Lake City, Utah	EL 5-2993
NEW HAMPSHIRE		
	Chester E. Peterson Co., 306 Main St., Worcester Mass.	PLeasant 4-0734
NEW JERSEY		
	Mills Metal Partition Co., 640 Fifth Ave., New York 19, New York	JUdson 2-6844
NEW MEXICO		
Albuquerque	Don J. Cummings Co., 7721 Apache Ave., N.E., Box 3103	9-2411
NEW YORK		
Albany	Manufacturers' Architectural Representative Service P.O. Box 134, 3777 Wellington Road, Delmar, New York	9-4417
Buffalo	A. O. Stillwell Co., Inc., 991 Main St.	GRant 6506
Canaudaigua	James D. Reddick, P.O. Box 1	1718
New York 19	Mills Metal Partition Co., 640 Fifth Avenue	JUdson 2-6844
Syracuse	James D. Reddick, 500 Lafayette Bldg.	GRanite 1-9941
Rochester	James D. Reddick, 209 Powers Bldg.	LOcust 2-7331
NORTH CAROLINA		
Asheville	S. R. Goldman, Room 212, Haywood Building	ALpine 3-1151
Carrboro	S. H. Basnight & Sons, Drawer 547, Main St.	Chapel Hill 9-458
Charlotte 1	R. R. Robertson, 1409 Independence Bldg. Box 56	EDison 3-5561
NORTH DAKOTA		
	Pella Products, 929 Washington Ave., S. St. Paul, Minn.	FEderal 5-4137
OHIO		
Akron 10	Albert E. Hotard Company, 790 Thayer Street	FRanklin 6-7129
Cincinnati 2	Central Building Products Co., 626 Broadway	GArfield 1-0381, 0382
Cleveland 3	Mills Metal Partition Co., Inc., 7500 Euclid Ave.	EXpress 1-3726
Columbus 23	Alvan Tallmadge Co., 624 Harmon Ave.	CApitol 1-7858
Dayton 2	Andrew Plocher Sons Co., 424 East First St.	BAldwin 8-6128
Portsmouth	Earl C. Hayes Co., 1144 Eighth St., P.O. Box 509	ELmwood 3-4450
Toledo 7	Wm. C. Turnbull Co., P.O. Box 44, Sta. C.	CHerry 6-3437
Youngstown 4	L. D. Sheffield & Son, 4185 Belmont Ave. Ext.	RIverside 6-6323
OKLAHOMA		
Tulsa 1	Building Specialties Co., 4403 S. Peoria, Box 1211	RIverside 3-1376, 1377
OREGON		
Portland	Gamble-Hawkins Co., 1617 N. W. 14th Avenue	CApital 7-2546
PENNSYLVANIA		
Erie	Erie Steel Products Co., 1400 Irwin Drive	4-1528
Philadelphia 3	Victor C. Smith, 1717 Sansom St.	LOcust 7-5377, 7-5378
Pittsburgh 35	James Hood Miller, Inc., Verona & Mt. Carmel Roads, P.O. Box 10568	CHurchill 2-2580
Reading	John H. Millard, 4 South 20th Street	FRanklin 3-6450
Scranton	Fred R. Evans, 312 Madison Avenue	DIamond 7-9691
RHODE ISLAND		
Providence 7	Edcar Sales Company, 634 Broad Street	DExter 1-6123
SOUTH CAROLINA		
Greenville	J. Mac Rabb Co., 10 Pine Forest Drive, P.O. Box 144	CEdar 2-1303
SOUTH DAKOTA		
Rapid City	J. S. Kibben Co., Inc., 44 East Rapid St.	FIllmore 2-0144
TENNESSEE		
Knoxville	Lee Martin, 1801 Lake Ave.	2-1634
Memphis 11	Welch & Featherston, 580 South Greer St.	GLendale 8-6503
Nashville	Whittemore Products Inc., 4012 Hillsboro Road	CY 7-7509
TEXAS		
Amarillo	Ford Brick & Tile Co., 1707 West 8th St.	DRake 3-4822
Austin 31 P. O. Box	Ranney Builders Specialty, 5215 East First St., P.O. Box 5062	GReenwood 6-6328
Corpus Christi	Anco Sales Company, P.O.B. 7293	TE 5-6259
Dallas	R. M. Sedwick Co., 230 Mercantile Comm. Bldg.	RIverside 1-3519
El Paso	Neff-Buckner-Holt, Inc., 600 W. Paisano Dr., Box 7278	3-1405
Houston 19	Buie Bldg. Material Co., 7400 Washington Ave.	UNderwood 4-7781
San Antonio	Rufus A. Walker & Co., 401 Delgado St., Box 8357	PErshing 4-5139
UTAH		
Salt Lake City	Gerstner Specialties, Inc., 83 Navajo St., Box 336	EL 5-2993
VERMONT		
	Open	
VIRGINIA		
Bristol	Engineering Sales Corp., 2005 W. State St.	NOrth 3784
Lynchburg	John H. Hampshire, Inc., 2101 Winston Ave.	DIamond 4-5163
Norfolk 7	John H. Hampshire, Inc., 714 Front Street	MAdison 5-3697
Richmond 22	John H. Hampshire, Inc., 2513 Chamberlayne Ave.	ELgin 8-1561
WASHINGTON		
Seattle 15	Fryer Knowles, Inc., 6206 Roosevelt Way	LA 3-7700
Spokane 31	Dix Steel Company, Broadway & Fiske	KEystone 4-2633
WEST VIRGINIA		
Charleston 22	John H. Hampshire, Inc., 428 Lore Street, St. Albans, W. Va.	PArkway 7-9821
Clarksburg	Kyle & Co., Corner Court St. & Washington Ave.	MAin 4-5481
Huntington 17	James J. Weiler & Sons, Inc., 202-220 Elm St.	JAckson 5-8123
WISCONSIN		
Eau Claire	Lee Building Specialties Co., 218 Graham Ave.	TEmple 2-0932
Milwaukee 2	J. Linc Kern Co., 759 N. Milwaukee St.	BR 6-8480
WYOMING		
	J. S. Kibben Co., Inc., 44 East Rapid St. Rapid City, South Dakota	FIllmore 2-0144

FOREIGN REPRESENTATIVES

CUBA		
Havana	Suinsa Suministros Industriaels, Aparto de Correos P.O. Box 2736	Infanta 455
HAWAII		
Honolulu	Theo. H. Davies & Co., Ltd., 841 Bishop St.	56991
PUERTO RICO		
San Juan	Earl K. Burton, Inc., Fernandez Juncos Ave., 1400 Stop 20, P.O. Box 1367	2-4672 or 3-3168

Mills Metal Compartment Co.

Division of The Mills Company

GENERAL OFFICES
965 WAYSIDE ROAD
CLEVELAND, OHIO
FACTORY
UPPER SANDUSKY, OHIO

Litho in U.S.A.

NIK-O-LOK

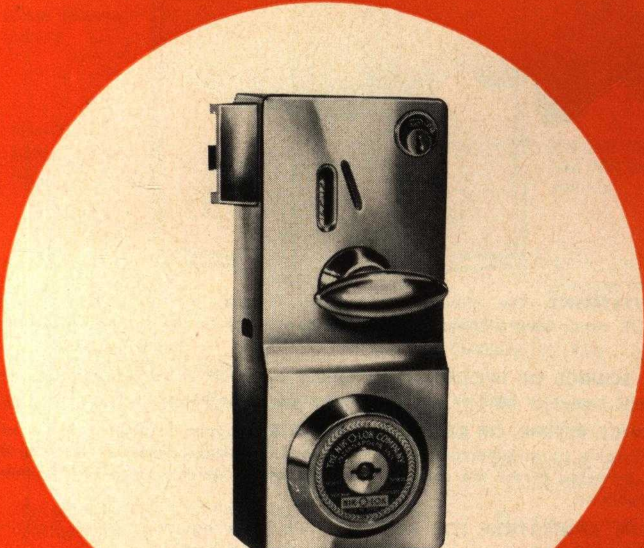
COIN OPERATED LOCKS

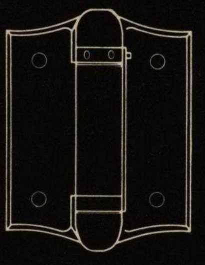
HINGES • PULLDOWN SHELVES

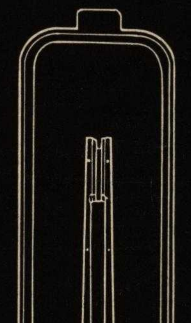
...for individual enclosures

RAIL
BUS
AIRLINE TERMINALS
DEPARTMENT STORES
HOTELS

22b
Nik





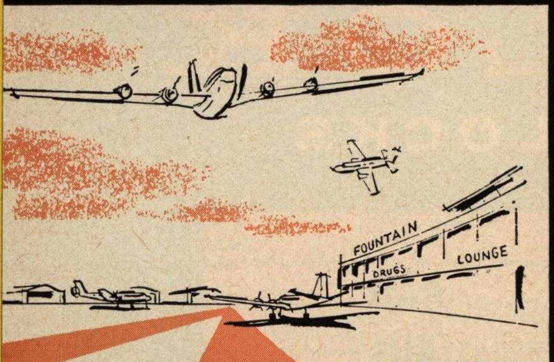


THE NIK-O-LOK COMPANY

422 EAST NEW YORK STREET • INDIANAPOLIS, INDIANA

NIK-O-LOK

REVENUE PRODUCING TOILET ENCLOSURE LOCK......



AIRPORTS

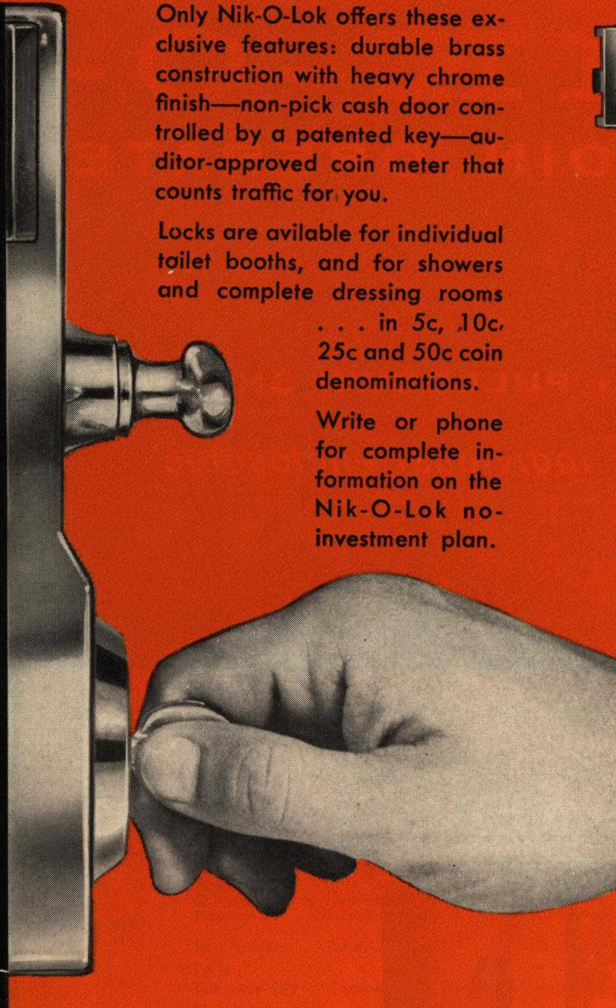
DEPARTMENT STORE

DEPARTMENT STORES

BUS TERMINALS

MARK II HOTEL

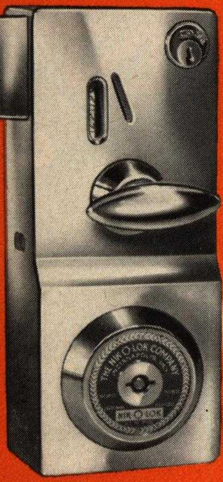
HOTELS



Only Nik-O-Lok offers these exclusive features: durable brass construction with heavy chrome finish—non-pick cash door controlled by a patented key—auditor-approved coin meter that counts traffic for you.

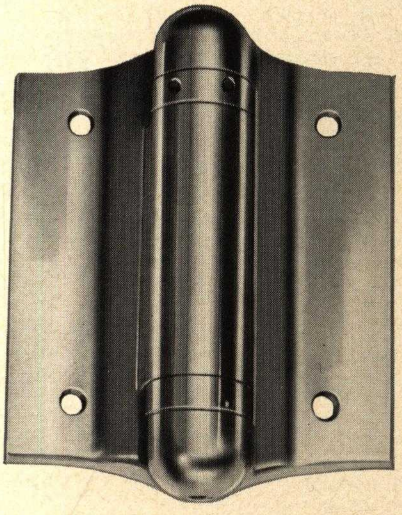
Locks are avilable for individual toilet booths, and for showers and complete dressing rooms . . . in 5c, 10c, 25c and 50c coin denominations.

Write or phone for complete information on the Nik-O-Lok no-investment plan.



- **NO INVESTMENT**—The Nik-O-Lok Company installs, services and maintains NIK-O-LOK equipment without expense or investment to the owner or location operator.
- **A NEW SOURCE OF INCOME**—Coin returns from Nik-O-Lok installations are shared with owner or location operator on an equitable basis.
- **NO SERVICE, REPAIR, OR REPLACEMENT COSTS**—Regular inspections are made by Nik-O-Lok's trained personnel. Over a thousand trained service people, located in branches across the country, are available to quickly solve your maintenance problems.
- **MAXIMUM SANITATION** FOR PATRONS—Nik-O-Lok equipped toilet facilities are guarded against misuse and reduce contamination hazards.
- **PREFERRED FACILITIES**—People prefer pay toilets. A recent survey disclosed that both men and women prefer the privacy and sanitation of a coin-operated, locked toilet.
- **NO BOOKKEEPING PROBLEM** FOR OWNER—Nik-O-Lok's coin meter counts traffic for you. This dependable meter meets with the approval of all auditing departments.
- **PERSONAL CONVENIENCE**—Pass keys are provided for use of authorized personnel.
- **YOU TAKE NO RISK**—Nik-O-Lok provides public liability insurance.
- **DOOR HARDWARE INCLUDED**—No additional hardware to provide. NIK-O-LOK furnishes complete installation of Nik-O-Lok surface spring hinges. See page 3.

MODERN SURFACE SPRING HINGES SUPPLIED WITH ALL NEW LOCK INSTALLATIONS



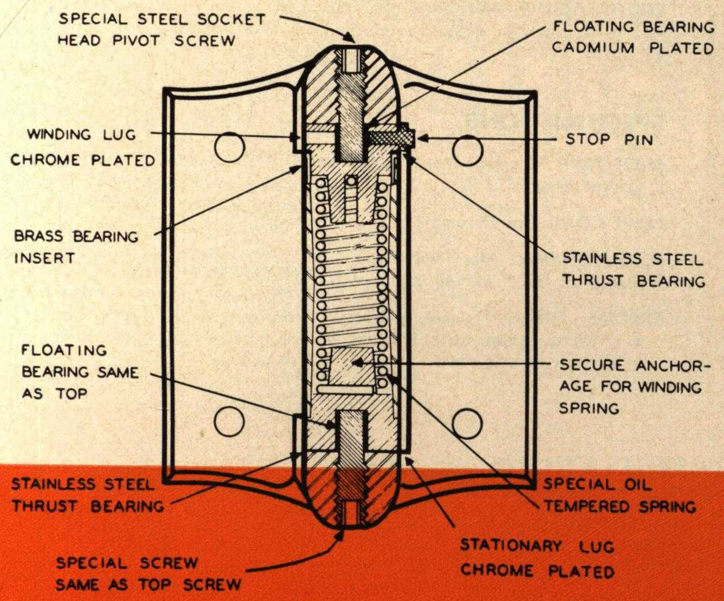
NIK-O-LOK, for almost half a century the leader in the field of coin-operated toilet locks, now makes available this sensational new aluminum alloy surface spring hinge to meet the need for a better method of suspending lavatory and other similar type doors.

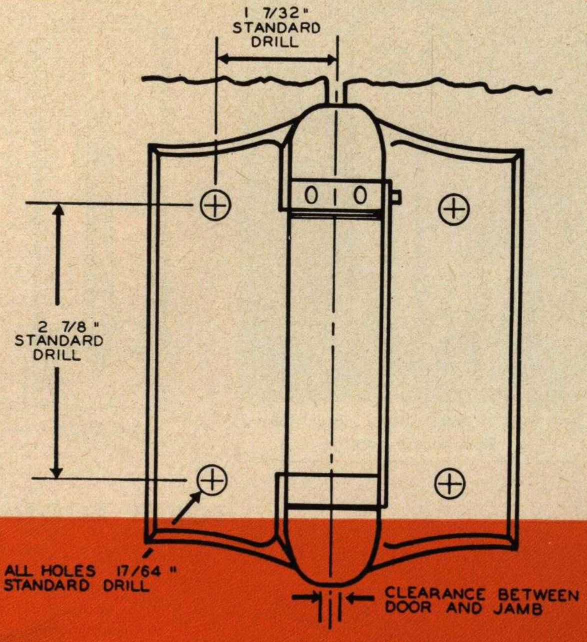
NIK-O-LOK'S exclusive design provides sensational advances in quality of material and performance—as well as in streamlined appearance. Embodying the finest principles of workmanship, the new hinge makes maintenance as easy as A, B, C.

NIK-O-LOK engineering turns a dream into a reality. Years and years of experimenting produced this miracle hinge of lightweight material, yet of the greatest strength and durability.

FASTENING FOR HOLLOW CORE DOORS—Special bushings are provided for this purpose.

SPECIFICATIONS


SPECIAL STEEL SOCKET HEAD PIVOT SCREW
FLOATING BEARING CADMIUM PLATED
WINDING LUG CHROME PLATED
STOP PIN
BRASS BEARING INSERT
STAINLESS STEEL THRUST BEARING
FLOATING BEARING SAME AS TOP
SECURE ANCHORAGE FOR WINDING SPRING
STAINLESS STEEL THRUST BEARING
SPECIAL OIL TEMPERED SPRING
STATIONARY LUG CHROME PLATED
SPECIAL SCREW SAME AS TOP SCREW


1 7/32" STANDARD DRILL
2 7/8" STANDARD DRILL
ALL HOLES 17/64" STANDARD DRILL
CLEARANCE BETWEEN DOOR AND JAMB

HINGE INSTALLATION INFORMATION

Hinges must be installed square and in line with jamb, with winding adjustment always at top.

Standard drilling template furnished if requested.

Standard equipment for mounting one pair hinges:

Eight ¼" x 20 Brass studs (will take up to 2⅛" door or jamb).

Sixteen Chrome plated acorn nuts.

Eight 11/16" washers.

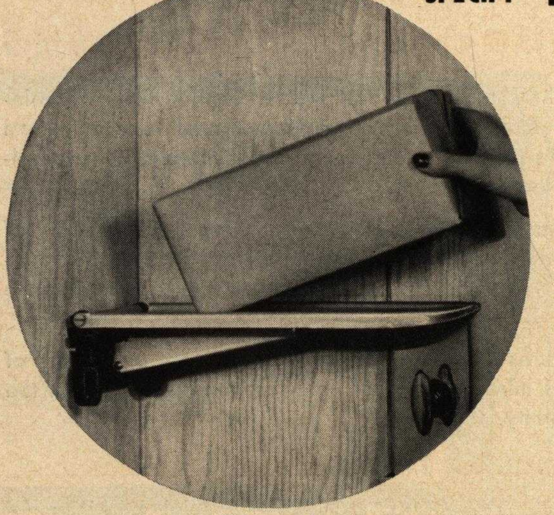
Eight lock washers.

1" x No. 14 round head sheet metal screws may be had when requested.

- Special aluminum alloy permits reduction in weight at no sacrifice in strength or wearing quality.
- Special aluminum alloy retains high luster and makes hinge easy to clean with ordinary cleaning compounds.
- Streamlined design adds that modern appearance, eliminates protruding parts that catch dirt and tear cleaning rags or clothing.
- Has tamper-proof mechanism—sealed in barrel with special socket head pivot screws that can't be removed except with special tools.
- Special oil-tempered spring permits greater resiliency, strength and durability.
- Tension spring operates freely and continuously without impairment because it has diametric ends securely anchored in slotted lugs at top and at bottom.
- Has floating bearings at top and at bottom assuring easy operation. Bearings will withstand maximum wear.
- Winding lug permits adjustment of tension to return door to closed position smoothly and with correct degree of force.

DESIGN GOODWILL INTO REST ROOM INSTALLATIONS

SPECIFY NIK-O-LOK PULLDOWN UTILITY SHELVES



Shows shelf in position for use.

The Nik-O-Lok Pulldown Utility Shelf is an attractive, rugged, folding shelf which is self-clearing. Installed on the side-wall of the booth, it provides a convenient place to lay parcels, purse and gloves, or to hang coats, hats and umbrellas.

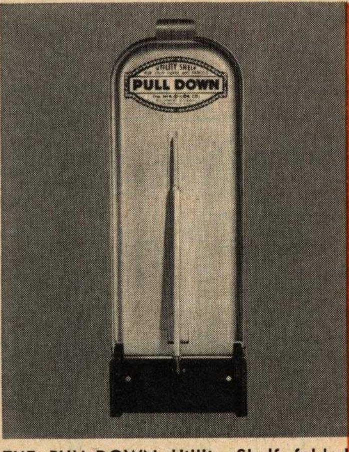
Made of 18 gauge steel, with baked enamel or chrome finish, the Pulldown Utility Shelf has rolled edges, rounded corners and cigarette holder. Although it weighs only about 2½ pounds, it will support over 150 pounds when mounted properly.

Easily installed, the Pulldown Utility Shelf requires no special fasteners. Only 2 holes need be drilled in the side-wall. Mounting studs with chrome plated acorn nuts and washers are provided with each unit.

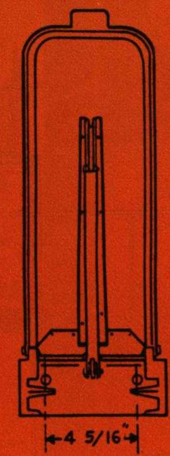
COMPLAINTS REDUCED—Nothing can be stolen from the shelf as it is always in full view of the occupant. Since the shelf must be closed before exit, it compels the removal of all articles and nothing can be forgotten.

DURABLE AND RUGGED—The shelf is designed for hard use but is neat, simple and attractive in design. It fits left or right hand doors. When not in use, a concealed spring holds the shelf in an upright position and out of the way. When open for service, it forms an ample storage tray.

SELF-CLEARING—After each use, the shelf is folded in an upright position to release the door. Therefore, each time the shelf is cleared of all articles.



THE PULL-DOWN Utility Shelf folded in a vacant booth.



SPECIFICATIONS

SHELF TRAY: 18 gauge No. 3 Bright Carbon Steel.

PRIME COAT: Zinc Chromate.

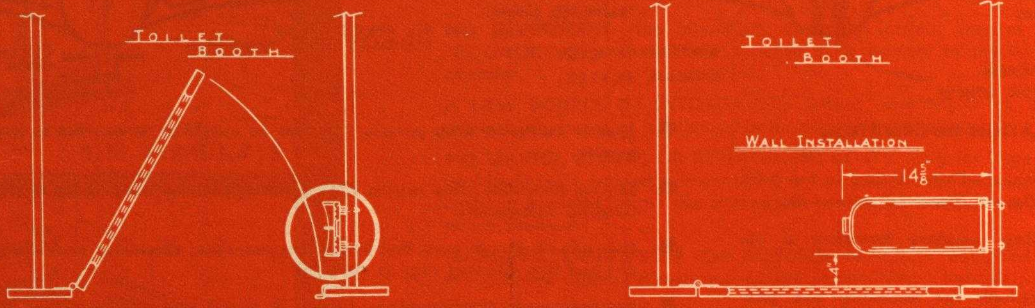
FINISH ENAMEL: No. 165 Gray, baked at 360° for 45 minutes.

CHROME FINISH: Nickel plated over heavy copper base, finished in lustrous chrome plate.

MOUNTING BRACKET: Heavy die-cast aluminum, finished in black wrinkle baked at 360° for 20 minutes.

INSTALLATION: Drill two $\frac{17}{64}$" holes $4\frac{5}{16}$" apart (center to center) at desired height from floor, at a suitable distance from door jamb (6" to 12").

TOILET BOOTH INSTALLATIONS (NO SCALE)



BRANCH OFFICES

Boston, Mass.
New York, N.Y.
Philadelphia, Pa.
Richmond, Va.
Jacksonville, Fla.
Cleveland, Ohio
Detroit, Mich.
Windsor, Ont.
Chicago, Ill.
St. Louis, Mo.
Dallas, Texas
Los Angeles, Calif.
San Francisco, Calif.
Spokane, Wash.
Seattle, Wash.
Denver, Colo.

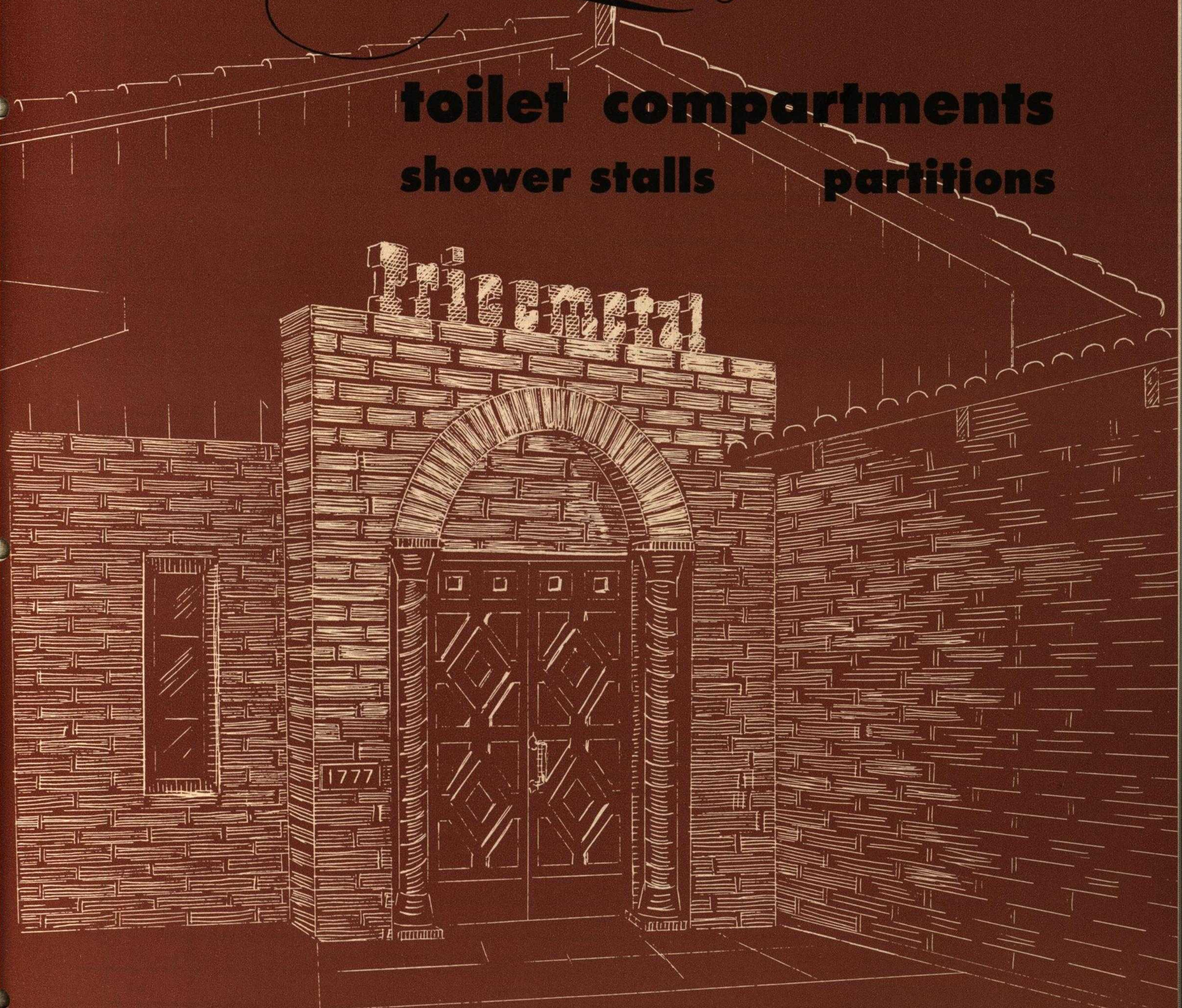
THE NIK-O-LOK COMPANY

422 EAST NEW YORK STREET • INDIANAPOLIS 2, INDIANA

PRINTED IN U.S.A.

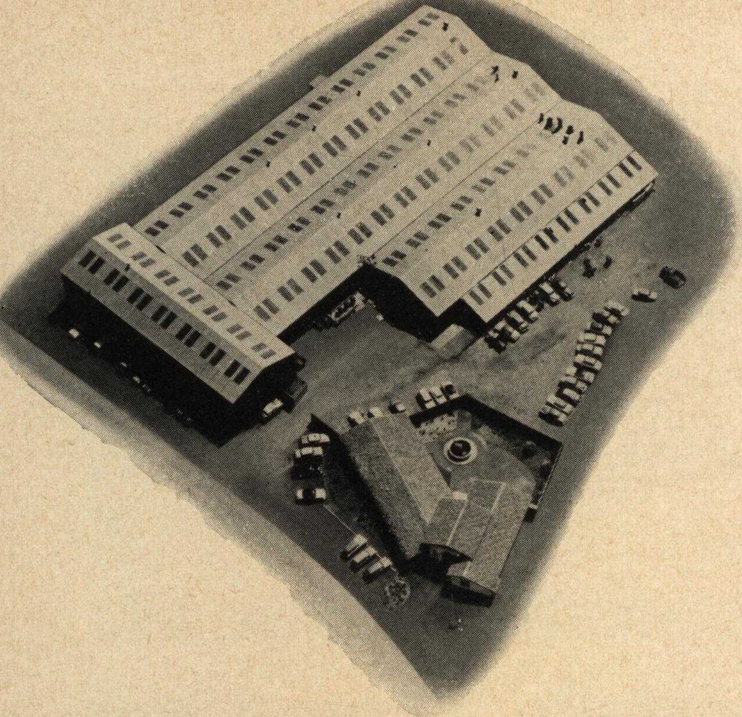
Pricemetal
CORPORATION ®

toilet compartments
shower stalls partitions



PRICEMETAL CORPORATION • 1777 Industrial Way, Belmont, California

QUALITY, INTEGRITY OVER HALF A CENTURY



Since 1900 the Pricemetal Corporation has been designing and constructing building specialty products. During this period numerous developments have been pioneered within the industry. Testing and research continue—your assurance of even better products.

To provide for fine craftsmanship, progressive engineering research, and mass production efficiency along with the half-century old standard of hand craftsmanship, a new manufacturing plant and warehouse consisting of more than 80,000 square feet of working space was built in Belmont, California. The office facade of early California mission style adobe construction, handcrafted tile roofs, cloister and patio, impress the visitor at first glance with an air of calm serenity. However, behind this facade is a highly modern office, production facility, and complete staff. Semi-autonomous machinery and conveyor systems produce unexcelled uniformity when coupled with rigid physical inspection of each and every part.

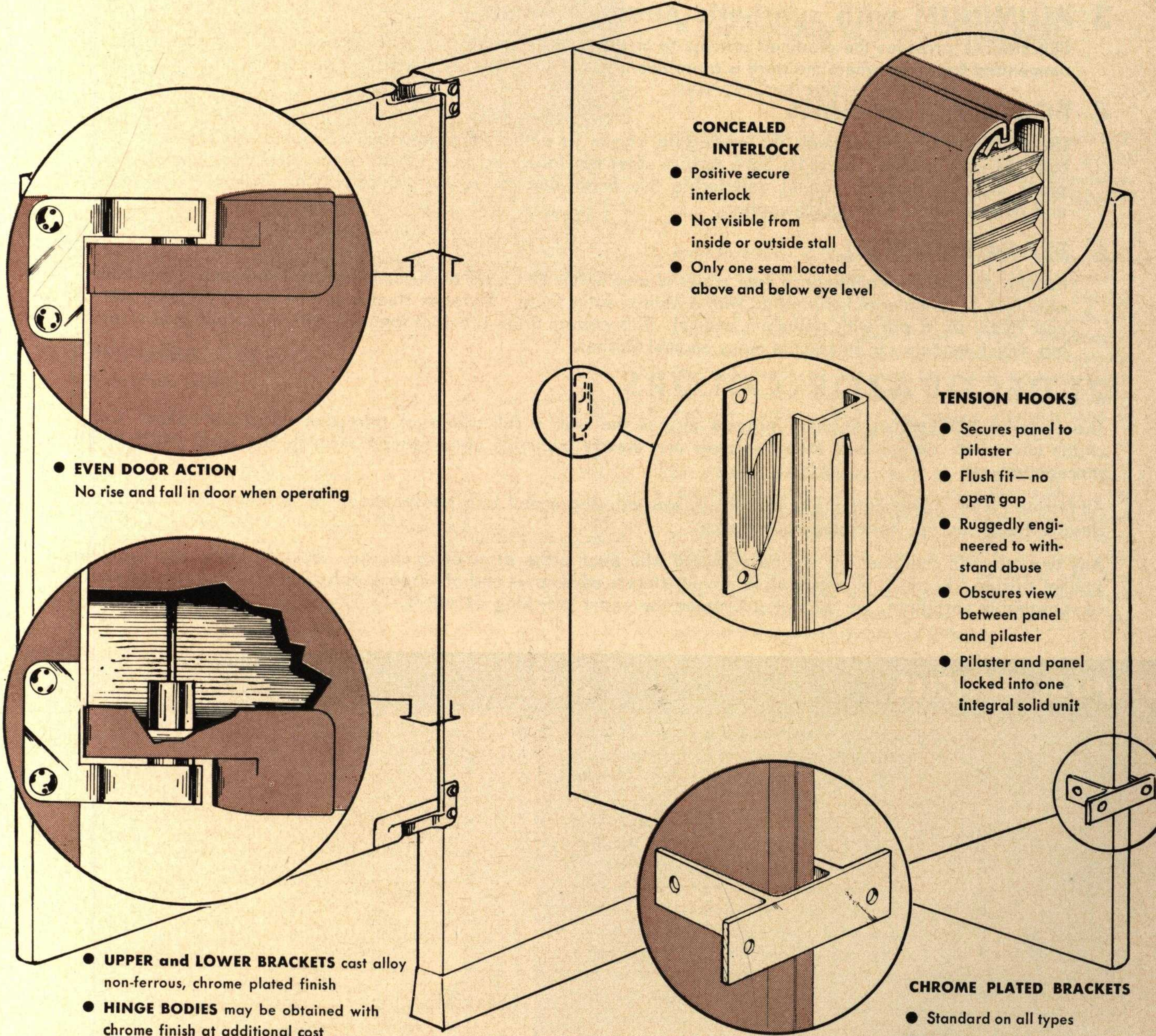
The Pricemetal registered trademark is your guarantee of engineering perfection and integrity.

ARCHITECTURAL SELECTION CHART and INDEX

contents	description	page
● **Features**	Outstanding features, standard on all types.	3
● **Materials and Finishes**	Five outstanding combinations, twenty-one decorator colors.	4
● **Hospital Cubicles**	Standard and custom lines available, satisfies all modern hospital requirements. Designed for ward, corridors and semi-private rooms to meet budget requirements. Readily rearranged.	4
● **Porcelain**	Pricemetal vitreous porcelain enamel coating of inert composition for superior resistance to organic solvents, abrasives and acids.	5
● **Guardian Type pilaster inset** Kindergarten and Lower Grades	Rigid 16 gauge pilasters solidly embedded in deep floor sleeves. Durable construction requires no overhead bracing, discourages gymnastics. Rugged, vandalproof compartments designed for modern elementary school environment. Constructed to withstand years of abuse. Easy supervision, smart low lines, economical design.	6
● **Ceiling Hung Type ceiling supported**	Supported entirely from ceiling and walls, independent of floor, producing fine quality and appearance. Engineered for the ultimate in partition design and sanitation. When used with wall hung bowls, ease of cleaning is guaranteed. Eliminates obstructions.	7
● **Delux Type floor braced**	Streamlined floor and wall supported with no overhead bracing required. Modern, simplified construction readily recommends it for offices, banks, and similar buildings. These attractive low lines harmonize with modern building architecture. Solid floors are required for secure anchorage.	8
● **Flush Pilaster Type overhead braced**	Entirely flush compartments supported by floor, walls and overhead bracing. A popular versatile partition adaptable to all types of installations and environments. Substantial flush construction, economy without apology for the budget minded.	9
● **Shower Stalls and Dressing Compartments**	Variety of layouts, materials and construction. Now available to meet progressive architectural requirements. Consult your Pricemetal representative or write to factory for assistance and suggestions in designing practical, modern layouts.	10
● **Screens**	Complete selection, maximum privacy and sanitation.	10
● **Residential Doors and Frames**	Labor saving, combining wood doors and metal frames.	11
● **Peerless Window Cleaner's Anchors**	Accident Commission approved.	11
● **Hardware and Fittings**	Modern design for appearance and longevity.	12
● **Sales Representatives**		12

PRICEMETAL features — PRECISION ENGINEERING—SYMMETRICAL DESIGN

- Smooth floating, silent action with finger tip control
- Simple installation with no maintenance
- No hinge projection above or below door line
- One moving part eliminates wear
- Concealed operating components mechanically perfect
- Simplicity in design provides strength, life-long service
- Simple, accurate, adjusting control locates door in any position



CONCEALED INTERLOCK

- Positive secure interlock
- Not visible from inside or outside stall
- Only one seam located above and below eye level

TENSION HOOKS

- Secures panel to pilaster
- Flush fit—no open gap
- Ruggedly engineered to withstand abuse
- Obscures view between panel and pilaster
- Pilaster and panel locked into one integral solid unit

- **EVEN DOOR ACTION**
  No rise and fall in door when operating

- **UPPER and LOWER BRACKETS** cast alloy non-ferrous, chrome plated finish
- **HINGE BODIES** may be obtained with chrome finish at additional cost

CHROME PLATED BRACKETS

- Standard on all types
- Rustproof non-ferrous
- Smart appearance
- Harmonizes with door hardware

TEST DATA:

DOOR OPENED AND CLOSED 500,000 TIMES WITH NO HINGE WEAR

5 COMBINATIONS (materials and finishes)

1 BONDERIZED, ZINC COATED STEEL with synthetic enamel finish

This galvanized superior corrosion resistant finish with an additional bonderized phosphatized coat and rust resisting primer adds dramatically to the service life. We strongly recommend it for all types of installation.

2 COLD ROLLED FURNITURE STEEL with synthetic enamel finish

Where economy is a factor PRICEMETAL Furniture Steel with our exclusive automatic conveyorized phosphatizing treatment coupled with the rust resisting primer and enameling process provides an excellent finish. This is not recommended for shower room areas or unusual conditions.

3 ALUMINUM with synthetic enamel finish

PRICEMETAL provides the alodined process to insure positive and lasting paint adherence. This material is recommended for areas where moisture is a problem. Aluminum is the ideal product for showers and shower areas.

4 PORCELAIN ENAMEL

The PRICEMETAL process seals the enameling iron in its entirety followed by outside porcelain enamel color coats of your choice. The glass hard surface does not fade, resists uric acid, alkali, and odor retention. Organic cleaning solvents cannot deteriorate this finish due to its inert composition. Deliberate vandalism and defacement is virtually eliminated.

5 STAINLESS STEEL

For the ultimate in maintenance free material and finish, PRICEMETAL recommends stainless steel. This is durable and 18-8 material is furnished with a natural satin finish. Stainless steel is a time tested material with a cost factor on a par with porcelain enamel. This natural finish provides long life with no chipping or scratching, which tendency is inherent in many enamel finishes.

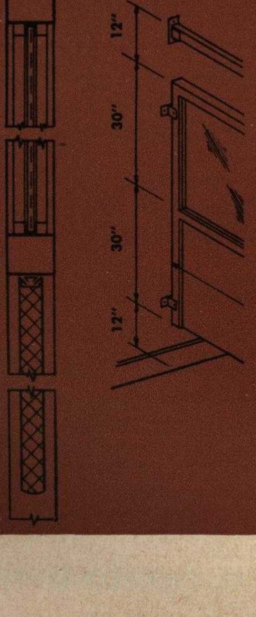
21 DECORATOR COLORS

The exclusive PRICEMETAL finishing process insures the user a full range of attractive decorator colors. Color charts along with design and layout services are always available upon request through our local PRICEMETAL representatives.

All ferrous metal components are automatically washed, degreased and phosphatized for positive paint adhesion, durable finish and eye appealing appearance.

Any two colors in combinations will be provided with each order at no extra charge—three or more colors require special pricing. Because all responsible manufacturers of enamel and of vitreous porcelain frit retain the privilege of reasonable variations, we cannot guarantee the exact matching of colors.

HOSPITAL CUBICLES

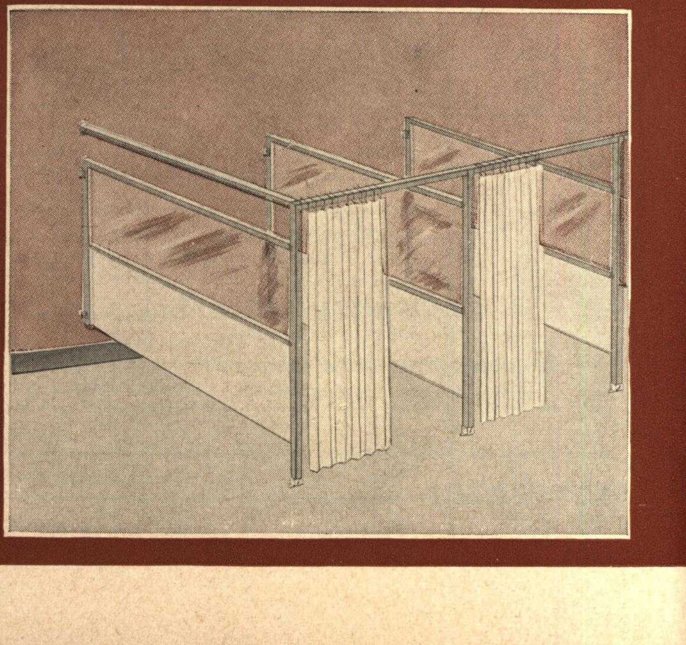


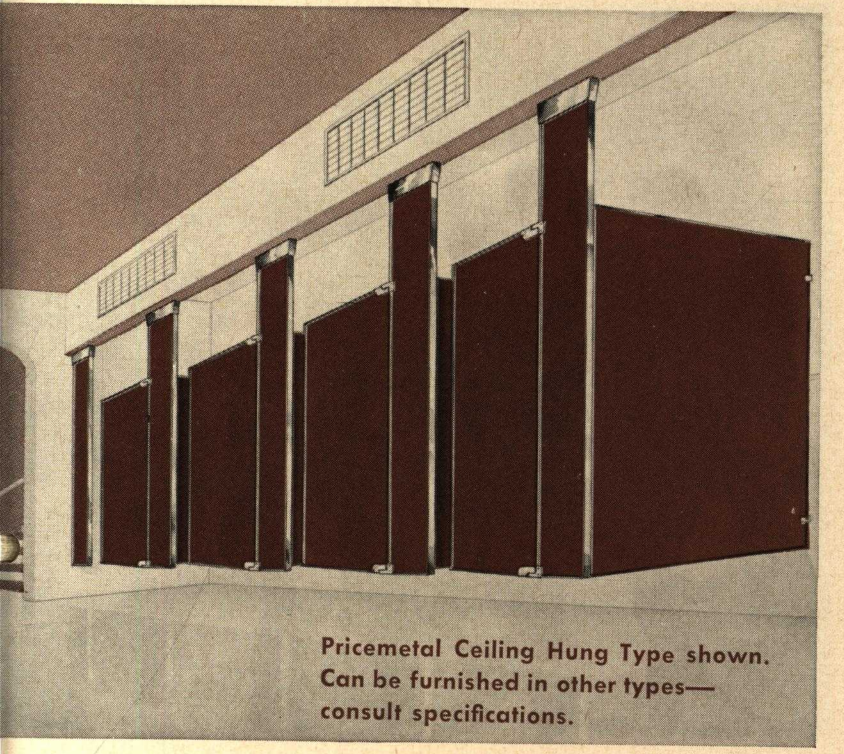
Dramatic savings in per bed costs of hospitals and institutions can be effected through the proper use of PRICEMETAL hospital cubicles.

PRICEMETAL hospital cubicles for adults, children and infants are created with simplicity of design yet provide adequate privacy and harmony with modern interior treatments. With our well planned glass observation areas, more bed space per nurse, complete patient supervision is accomplished.

PRICEMETAL partitions can be moved and relocated by hospital personnel for rapid ward rearrangement when necessary.

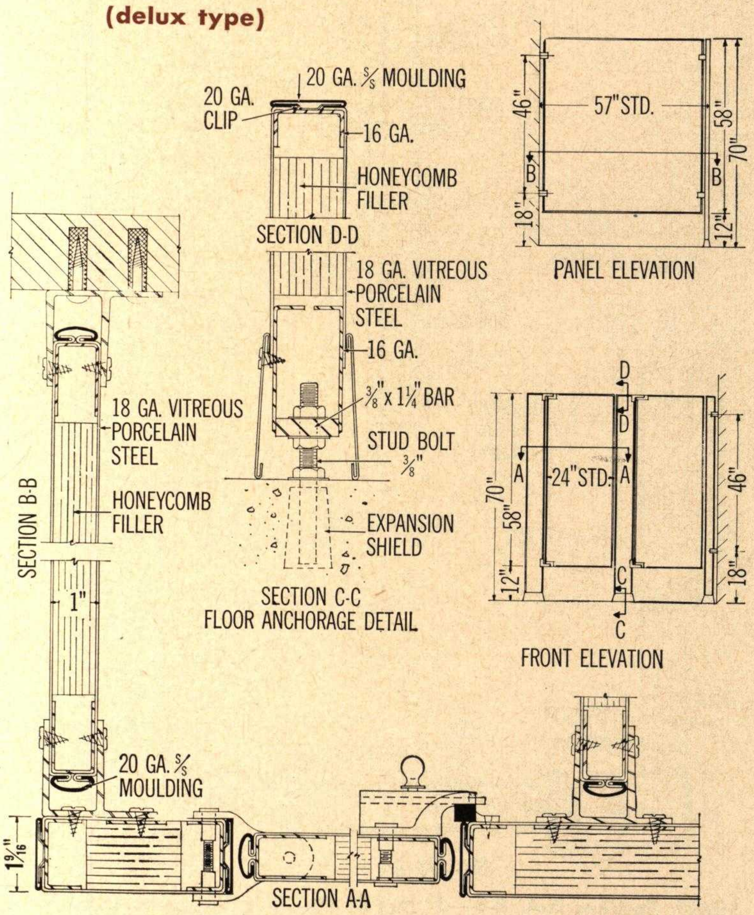
All cubicles are furnished completed (except for glass) including curtains and rings, adequate provision for wiring, oxygen pipe outlets and special requirements when requested. Architectural consultation is invited by our engineering staff.





Pricemetal Ceiling Hung Type shown. Can be furnished in other types—consult specifications.

construction details
(delux type)



20 GA. ⅝ MOULDING
20 GA. CLIP
16 GA.
HONEYCOMB FILLER
SECTION D-D
18 GA. VITREOUS PORCELAIN STEEL
16 GA.
⅜" x 1¼" BAR
STUD BOLT ⅜"
EXPANSION SHIELD
SECTION C-C
FLOOR ANCHORAGE DETAIL
18 GA. VITREOUS PORCELAIN STEEL
HONEYCOMB FILLER
SECTION B-B
1"
20 GA. ⅝ MOULDING
1 9/16"
SECTION A-A
46"
57" STD.
58"
70"
B
B
18"
12"
PANEL ELEVATION
D
D
A
24" STD.
A
70"
58"
46"
12"
C
C
18"
C
FRONT ELEVATION

SCALE: 3" = 1'0"

VITREOUS PORCELAIN ENAMEL

features

- freedom from rust
- shock proof
- abrasive resistance
- perpetual attractiveness
- impregnable to uric acid and odor

specifications

general—Furnish and install all metal partitions of PRICEMETAL vitreous porcelain enamel (Ceiling Hung, Delux or Flush Pilaster style, and shower or dressing rooms), material as manufactured by the PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California.

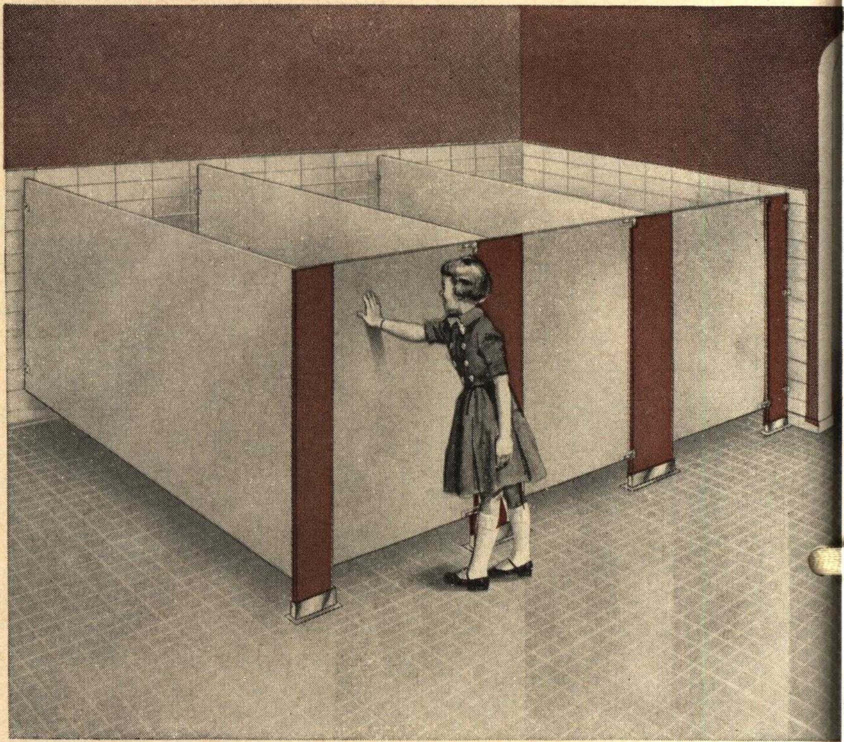
construction—Ceiling Hung, Delux or Flush Pilaster, doors, panels and pilasters shall be made of PRICEMETAL porcelain enameling iron completely sealed with vitreous porcelain enamel ground coat and color coat of PRICEMETAL colors, in accordance with the Porcelain Enamel Institute's standards for architectural porcelain enamel, assembled over a honeycomb filler, glued with a waterproof adhesive under pressure with closure strips for edge bindings of stainless steel compatible with the hardware finish. The applied moulding shall be welded, ground smooth and polished at the corners.

partitions and doors—Shall be approximately 1" thick, composed of two sheets of carefully selected PRICEMETAL enameling iron for minimum warpage during firing in the automatic continuous firing furnaces, spaced and insulated with sound deadening filler, cemented under pressure to the inner edges with waterproof adhesive. Edges shall be bound and interlocked with die-drawn stainless steel moulding under tension to the preformed panel faces mitered and welded at the corners with welds ground smooth and polished.

pilasters—Shall be approximately 1 9/16" thick, composed of two sheets of carefully selected PRICEMETAL enameling iron for minimum warpage during firing in the automatic continuous firing furnaces, spaced and insulated with sound deadening filler, cemented under pressure to the inner edges with waterproof adhesive. Pilaster reinforcing shall be of PRICEMETAL extra heavy duty contour. Edges shall be bound and interlocked with die-drawn stainless steel moulding under tension to the preformed panel faces mitered and welded at the corners with welds ground smooth and polished. Pilaster base shoes 3" high polished stainless steel. Other fittings alloy chrome plated.

hardware—Standard hardware sets consist of the PRICEMETAL CONCEALED TORSIONAMIC HINGE ASSEMBLY, the hinge house casting to conceal all mechanisms and cover the raw edge of the moulding strip with screw attachment to permit removal, combination latch and bumper, keeper, combination coat hook and bumper. All hardware and exposed fittings shall be rust proof alloy, highly polished chrome plated. Die drawn mouldings shall be of stainless steel polished finish to match hardware. Wall brackets shall be non-ferrous metal, polished chrome. Base shoes to be highly polished stainless steel 3" high.

GUARDIAN TYPE (pilaster inset)
Kindergarten and Lower Grades



features

- low, modern, rugged
- durable pilaster support
- no overhead bracing
- easy supervision
- rigid, lifetime floor anchoring

specifications

general—Furnish and install PRICEMETAL "Guardian" type partitions as manufactured by PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California.

construction—Flush DOORS, PARTITIONS and PILASTERS shall be assembled over a honeycomb filler and glued with a waterproof adhesive under pressure. The steel sheets shall be formed in such a way that they will interlock with one another without the use of applied mouldings resulting in only one seam. Pilaster seam to be located on the edge of the inside face and not visible from the outside. Panel and Door seam to be located on middle of edge radius* and not visible from inside or outside of stall. All corners shall be welded and ground smooth.

pilasters—Shall be 1⁹⁄₁₆" thick made of two sheets of 16 gauge bonderized, zinc-coated steel. Pilasters shall be set in floor sleeves with PorRok and mastic. Top of pilasters to be on the same plane as top of doors.

partitions and doors—Shall be 1" thick made of two sheets of bonderized, zinc-coated steel. (Partitions 20 gauge—Doors 22 gauge). Partitions shall be secured to pilasters with no less than three (3) concealed tension hooks. ***No visible clearance between pilaster and panel will be acceptable.*** See page 3.

base shoes and sleeves—Stainless steel base shoe shall be 3" high placed over stainless steel floor cover plate. Floor sleeves shall be 2½" wide, 14 gauge steel hot dip galvanized after fabrication. Sleeves may be obtained in stainless steel at additional cost. Floor sleeves to be supplied by PRICEMETAL and set by general contractor.

hardware and fittings—The standard hardware shall be used, consisting of PRICEMETAL CONCEALED TORSIONAMIC HINGE ASSEMBLY**, ***(no part of the hinge assembly shall extend either above or below the door line)***, combination latch and bumper, keeper, combination coat hook and bumper. All hardware and exposed fittings shall be rust proof alloy, high polish chrome plated, applied with PRICEMETAL fastenings throughout. ***Wall brackets shall be non-ferrous metal, chrome plated.*** Base shoes to be high polish, stainless steel 3" high. Hinge housing to match door finish.

finish—All material is cleaned, bonderized and given one coat of baked on primer followed by one or two coats (as specified) baked on enamel. (Each coat baked on separately at a temperature of 350°.) Colors as selected from manufacturer's twenty-one standards.

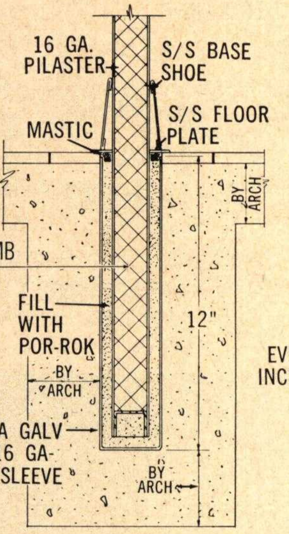
special material and finishes—Please specify if desired. ALUMINUM—with baked enamel finish. Same gauges and assembled with binding strips and filled with honeycomb filler glued with a waterproof adhesive under pressure.

STAINLESS STEEL—18-8 with natural finish. Same gauges and construction as outlined above.

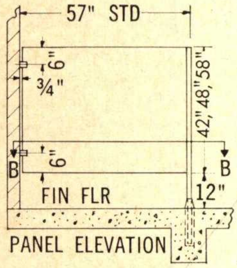
*Exclusive concealed interlock (patent applied for).

**See page 3 for TORSIONAMIC HINGE ASSEMBLY.

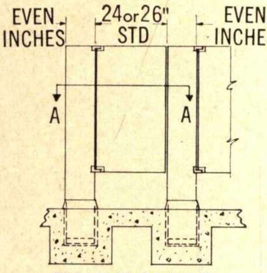
construction details



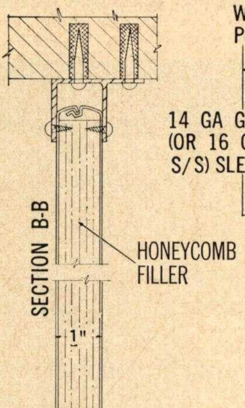
FLOOR SLEEVE DETAIL



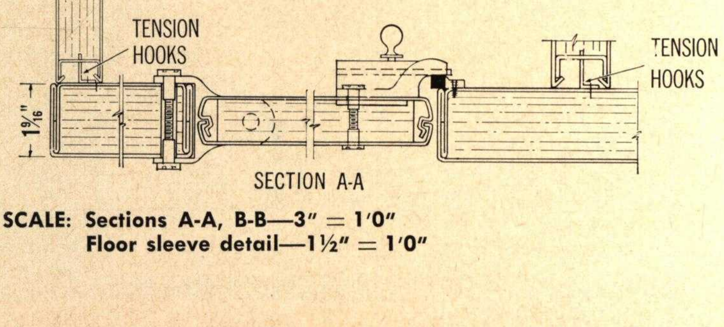
PANEL ELEVATION



FRONT ELEVATION

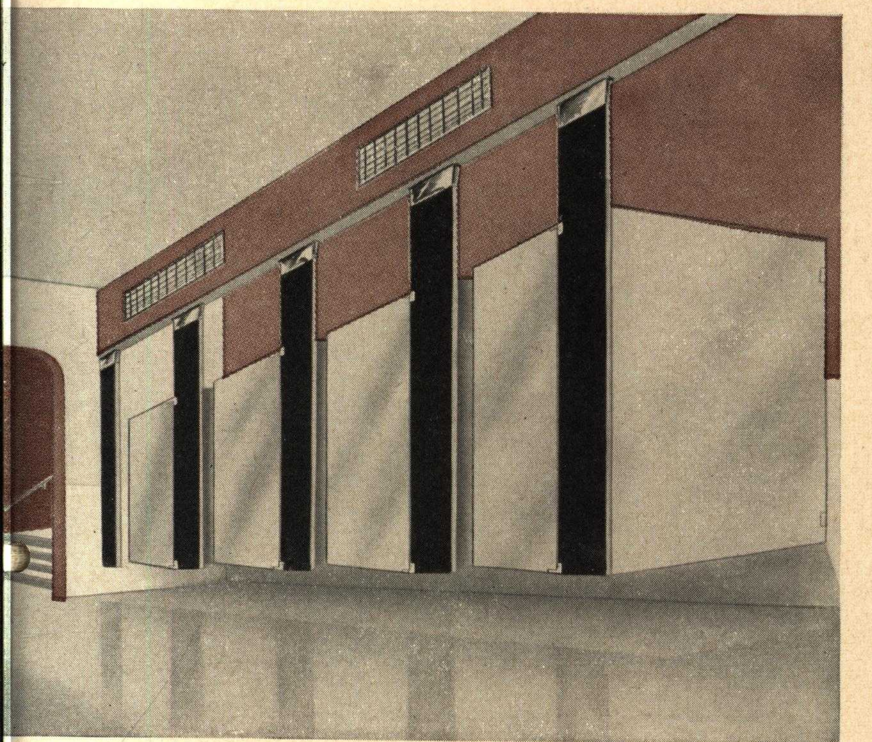


SECTION B-B

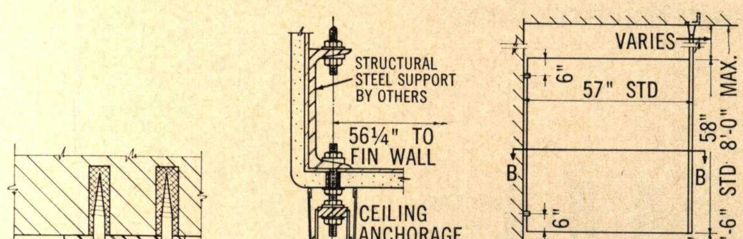


SECTION A-A

SCALE: Sections A-A, B-B—3" = 1'0"
Floor sleeve detail—1½" = 1'0"



construction details


STRUCTURAL STEEL SUPPORT BY OTHERS
56¼" TO FIN WALL
CEILING ANCHORAGE DETAIL
SECTION C-C
VARIES
6"
57" STD
58"
8'-0" MAX.
7'-6" STD
B
B
6"
12"
PANEL ELEVATION
HONEYCOMB FILLER
SECTION B-B
WOOD CARRYING MEMBER BY OTHERS
⅜" X 1¼" BAR
⅜" STUD BOLT
#12 GA
#16 GA
SECTION C-C (ALTERNATE)
C
C
24" STD
78" STD.
8'-0" MAX
7'-6" STD
46"
18"
A
A
FRONT ELEVATION
1"
TENSION HOOKS
1⁹⁄₁₆"
TENSION HOOKS
END PILASTER (7" to 8" MIN.)
SECTION A-A

SCALE: Sections A-A, B-B—3" = 1'0"
Sections C-C—1½" = 1'0"

CEILING HUNG (ceiling supported)

features

- **superior design**
- **finest quality**
- **simplified maintenance**
- **no floor obstructions**

specifications

general—Furnish and install PRICEMETAL "Ceiling Hung" type partitions as manufactured by PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California.

construction—Flush DOORS, PARTITIONS and PILASTERS shall be assembled over a honeycomb filler and glued with a waterproof adhesive under pressure. The steel sheets shall be formed in such a way that they will interlock with one another without the use of applied mouldings resulting in only one seam. Pilaster seam to be located on the edge of the inside face and not visible from the outside. Panel and Door seam to be located on middle of edge radius* and not visible from inside or outside of stall. ***(Where panel abuts edge of pilaster, single stall in recess, use Flush Pilaster type construction.)*** All corners shall be welded and ground smooth.

partitions and doors—Shall be 1" thick made of two sheets of bonderized zinc-coated steel. (Partitions 20 gauge—Doors 22 gauge). Partitions shall be secured to pilasters with ne less than three (3) concealed tension hooks. ***No visible clearance between pilaster and panel will be acceptable.*** See page 3.

pilaster—Shall be 1⁹⁄₁₆" thick made of two sheets of 16 gauge bonderized zinc-coated steel. They shall be supported entirely from the ceiling with concealed "built in" bar leveling device welded intregal to pilaster and secured with ⅜" bolts and nuts anchored to beam. The supporting member to be built into the ceiling shall be supplied and installed by others. This member must be rigid both vertically and horizontally.

hardware and fittings—The standard hardware shall be used, consisting of PRICEMETAL CONCEALED TORSIONAMIC HINGE ASSEMBLY**, ***(no part of the hinge assembly shall extend either above or below the door line)***, combination latch and bumper, keeper, combination coat hook and bumper. All hardware and exposed fittings shall be rust proof alloy, high polish chrome plated, applied with PRICEMETAL fastenings throughout. ***Wall brackets shall be non-ferrous metal, chrome plated.*** Base shoes to be high polish, stainless steel 3" high.

finish—All material is cleaned, bonderized and given one coat of baked on prime followed by one or two coats (as specified) baked on enamel. (Each coat baked on separately at a temperature of 350°.) Colors as selected from manufacturer's twenty-one standards.

special material and finishes—Specify if desired.

COLD ROLLED FURNITURE STEEL—with baked enamel finish. Same gauges and construction.

ALUMINUM—with baked enamel finish. Same gauges and assembled with binding strips and filled with honeycomb filler glued with a waterproof adhesive under pressure.

STAINLESS STEEL—18-8 with natural satin finish. Same gauges and construction as outlined above.

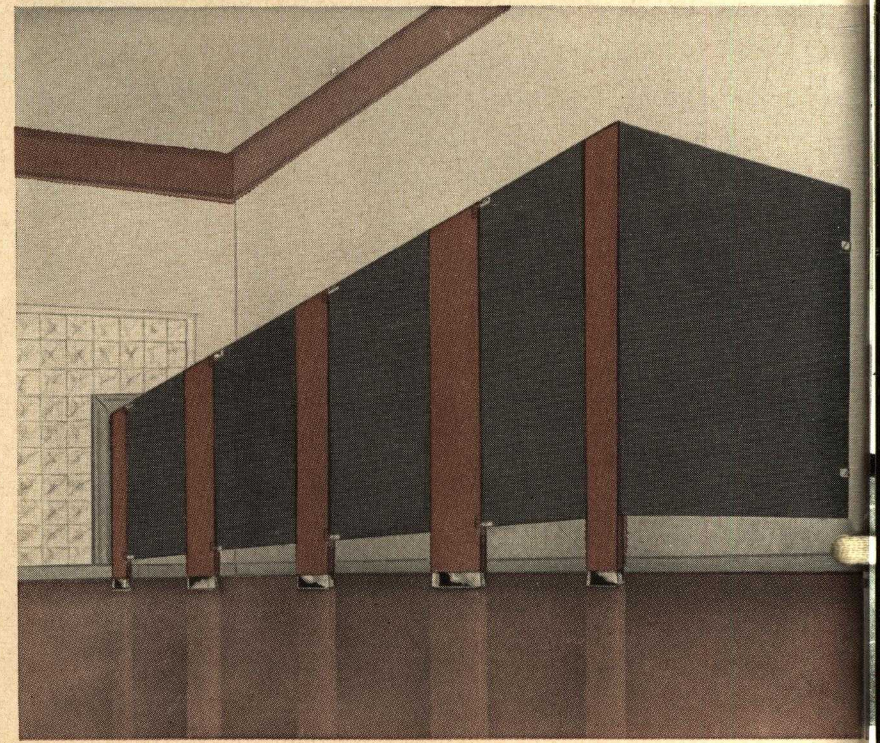
PORCELAIN ENAMEL FINISH—See page 5.

*Exclusive concealed interlock (patent applied for).
**See page 3 for TORSIONAMIC HINGE ASSEMBLY.

DELUX TYPE (floor braced)

features

- **streamlined styling**
- **complements modern architecture**
- **no headrail**
- **solid floor slabs required**



specifications

general—Furnish and install PRICEMETAL "Delux" type partitions as manufactured by PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California.

construction—Flush DOORS, PARTITIONS and PILASTERS shall be assembled over a honeycomb filler and glued with a waterproof adhesive under pressure. The steel sheets shall be formed in such a way that they will interlock with one another without the use of applied mouldings resulting in only one seam. Pilaster seam to be located on the edge of the inside face and not visible from the outside. Panel and Door seam to be located on middle of edge radius* and not visible from inside or outside of stall. ***(Where panel abuts edge of pilaster, single stall in recess, use Flush Pilaster type construction.)*** All corners shall be welded and ground smooth.

partitions and doors—Shall be 1" thick made of two sheets of bonderized zinc-coated steel. (Partitions 20 gauge—Doors 22 gauge). Partitions shall be secured to pilasters with no less than three (3) concealed tension hooks. ***No visible clearance between pilaster and panel will be acceptable.*** See page 3.

pilasters—Shall be 1⁹⁄₁₆" thick made of two sheets of 16 gauge bonderized zinc-coated steel. Pilasters shall extend from floor to the top of the doors. A concealed "built in" bar anchoring and leveling device shall be welded integral to pilaster and fastened to floor with ⅜" stud bolts anchored in expansion shields below finish floor (not recommended for wood floors—suggest use of Flush Pilaster type).

hardware and fittings—The standard hardware shall be used, consisting of PRICEMETAL CONCEALED TORSIONAMIC HINGE ASSEMBLY**, ***(no part of the hinge assembly shall extend either above or below the door line)***, combination latch and bumper, keeper, combination coat hook and bumper. All hardware and exposed fittings shall be rust proof alloy, high polish chrome plated, applied with PRICEMETAL fastenings throughout. ***Wall brackets shall be non-ferrous metal, chrome plated.*** Base shoes to be high polish, stainless steel 3" high.

finish—All material is cleaned, bonderized and given one coat of baked on prime followed by one or two coats (as specified) baked on enamel. (Each coat baked on separately at a temperature of 350°.) Colors as selected from manufacturer's twenty-one standards.

special material and finishes—Specify if desired.

COLD ROLLED FURNITURE STEEL—with baked enamel finish. Same gauges and construction.

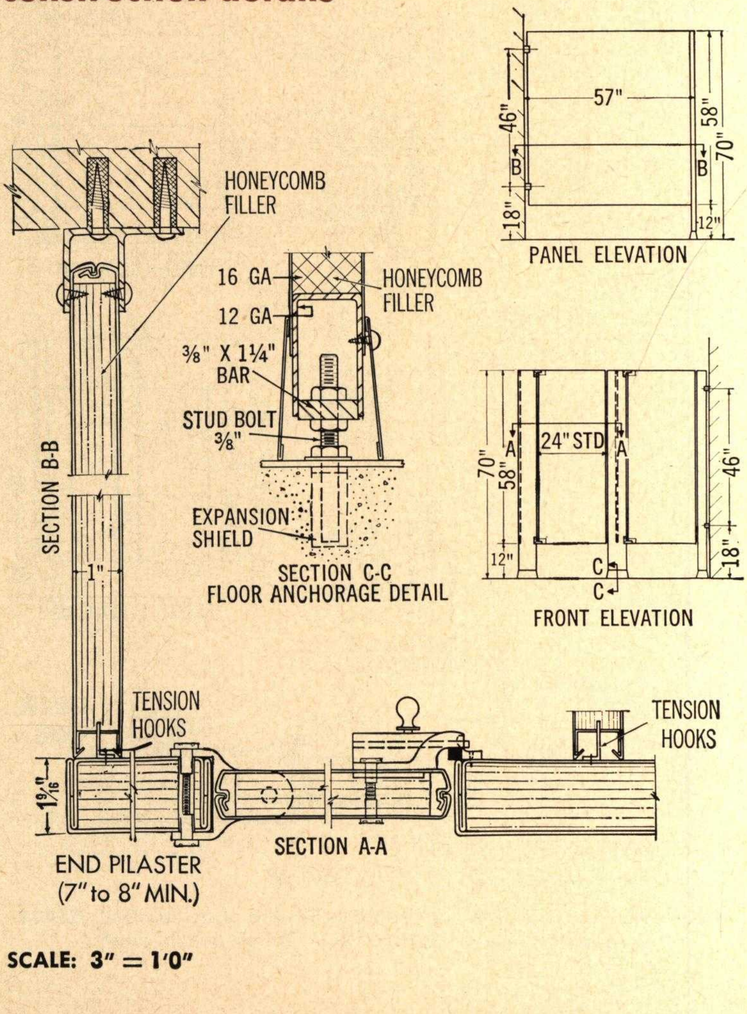
ALUMINUM—with baked enamel finish. Same gauges and assembled with binding strips and filled with honeycomb filler glued with a waterproof adhesive under pressure.

STAINLESS STEEL—18-8 with natural satin finish. Same gauges and construction as outlined above.

PORCELAIN ENAMEL FINISH—See page 5.

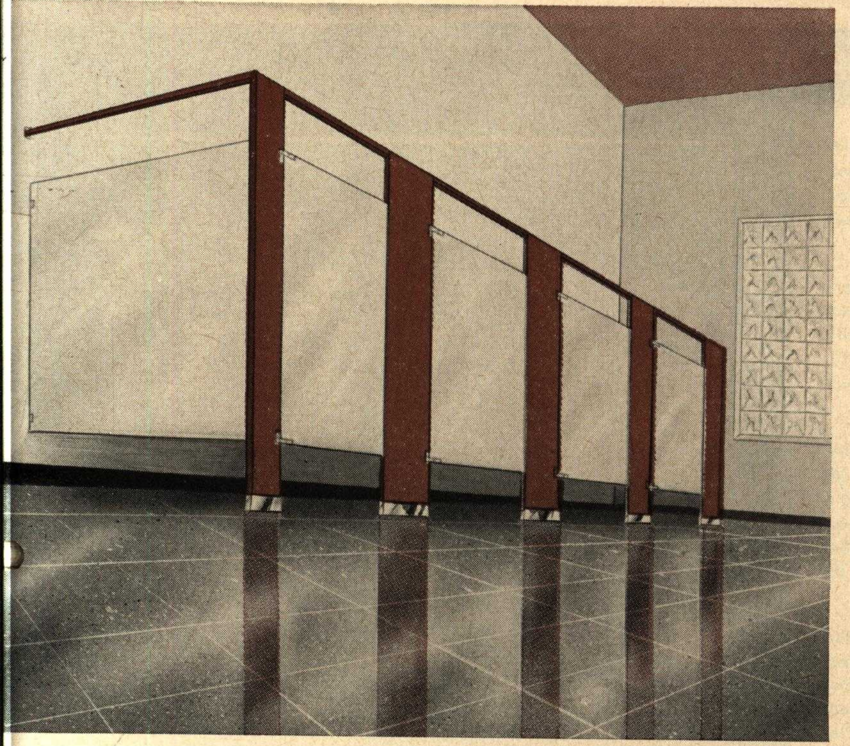
*Exclusive concealed interlock (patent applied for).
**See page 3 for TORSIONAMIC HINGE ASSEMBLY.

construction details



SCALE: 3" = 1'0"

FLUSH PILASTER TYPE (overhead braced)



features

- **completely flush**
- **smooth sanitary surfaces**
- **wide application**
- **rigid headrail support**

specifications

general—Furnish and install PRICEMETAL "Flush Pilaster" type partitions, as manufactured by PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California.

construction—Flush DOORS, PARTITIONS and PILASTERS shall be assembled over a honeycomb filler and glued with a waterproof adhesive under pressure. The steel sheets shall be formed in such a way that they will interlock with one another without the use of applied mouldings resulting in only one seam. Pilaster seam to be located on the edge of the inside face and not visible from the outside. Panel and Door seam to be located on middle of edge radius* and not visible from inside or outside of stall. All corners shall be welded and ground smooth.

partitions and doors—Shall be 1" thick made of two sheets of bonderized zinc-coated steel. (Partitions 20 gauge—Doors 22 gauge.) Partitions shall be secured to pilasters with no less than three (3) concealed tension hooks. ***No visible clearance between pilaster and panel will be acceptable.*** See page 3.

pilasters—Shall be $1\frac{9}{16}''$ thick made of two sheets of 20 gauge bonderized zinc-coated steel. Pilasters shall extend from the floor to 12" above the door height.

bracing—Bracing shall be done with a 1" x $1\frac{1}{2}''$ 16 gauge tubing, continuous through the top of the pilasters, which are notched to receive this headrail. This construction precludes the use of overlapping cover caps.

hardware and fittings—The standard hardware shall be used, consisting of PRICEMETAL CONCEALED TORSIONAMIC HINGE ASSEMBLY**, ***(no part of the hinge assembly shall extend either above or below the door line)***, combination latch and bumper, keeper, combination coat hook and bumper. All hardware and exposed fittings shall be rust proof alloy, high polish chrome plated, applied with PRICEMETAL fastenings throughout. ***Wall brackets shall be non-ferrous metal, chrome plated.*** Base shoes to be high polish, stainless steel 3" high. Hinge housing to match door finish.

finish—All material is cleaned, bonderized and given one coat of baked on primer followed by one or two coats (as specified) baked on enamel. (Each coat baked on separately at a temperature of 350°.) Colors as selected from manufacturer's twenty-one standards.

special material and finishes—Specify if desired.

COLD ROLLED FURNITURE STEEL—with baked enamel finish. Same gauges and construction.

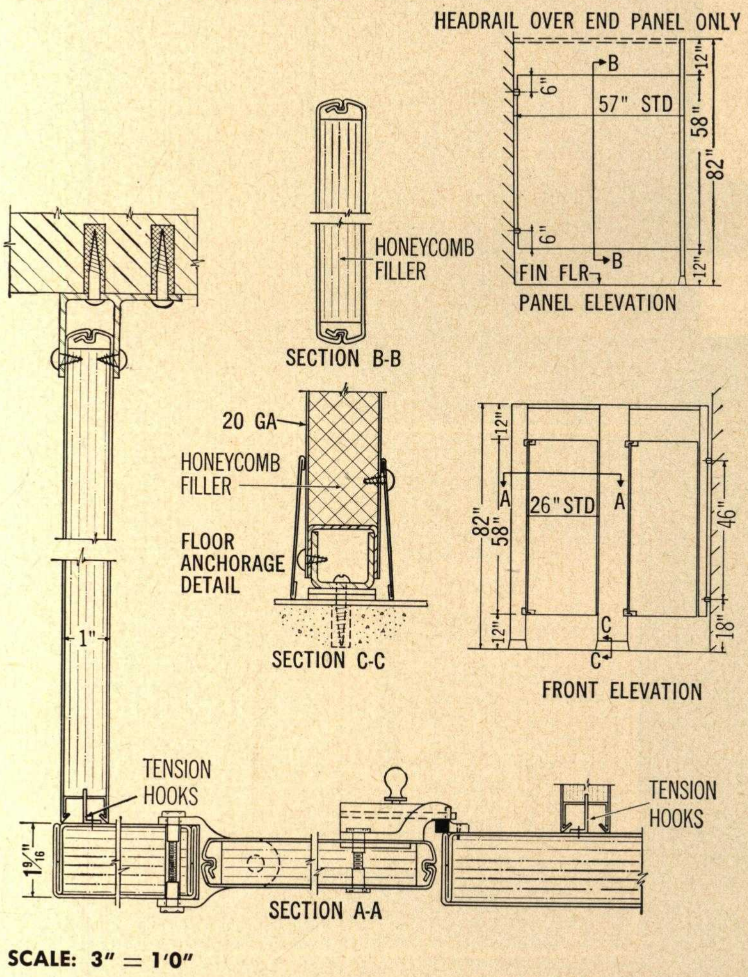
ALUMINUM—with baked enamel finish. Same gauges and assembled with binding strips and filled with honeycomb filler glued with a waterproof adhesive under pressure.

STAINLESS STEEL—18-8 with natural satin finish. Same gauges and construction as outlined above.

PORCELAIN ENAMEL FINISH—See page 5.

*Exclusive concealed interlock (patent applied for).
**See page 3 for TORSIONAMIC HINGE ASSEMBLY.

construction details



SCALE: 3" = 1'0"

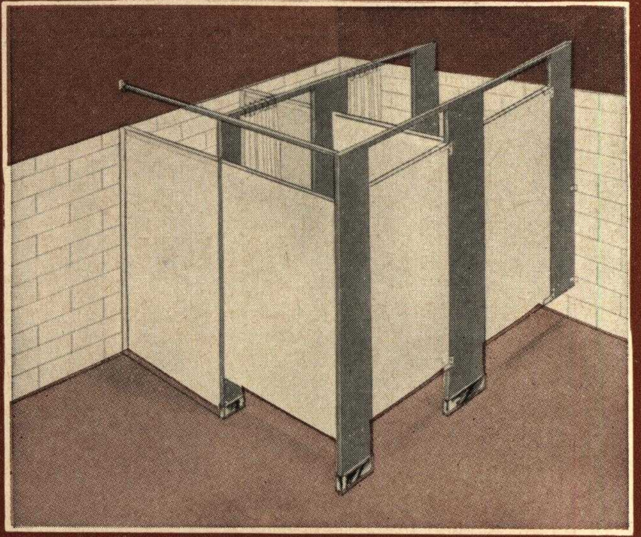
SHOWER STALLS and DRESSING COMPARTMENTS

PRICEMETAL Flush Pilaster type Dressing Compartments combined with Style-Line battery shower stalls are designed to accomplish economical, sturdy, and sanitary installations. This smart, functional construction provides the answer to all types of conditions, since it may be fabricated to meet every locker room requirement.

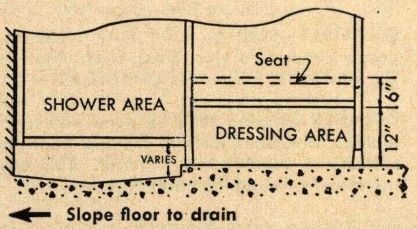
Dressing Compartments (Flush Pilaster type) may be provided in conjunction with Style-Line shower stalls or independently. These neat enclosures may be furnished with flush metal doors or curtains with roller rings. (Roller rings are provided to roll on standard headrail, thus eliminating special curtain rod.) Seats, either wood or metal, will be supplied to fit the various conditions.

Shower Stalls (Style-Line type) panels with "V" rail at top and bottom constructed from 16 gauge bonderized, zinc-coated steel, aluminum or stainless steel may also be obtained independent of Flush Pilaster type dressing compartments if so desired. These economical enclosures will be provided with plumbing space or prepared for necessary fixtures depending upon locker room layout. Stalls may be installed on curb or depressed slab as detailed.

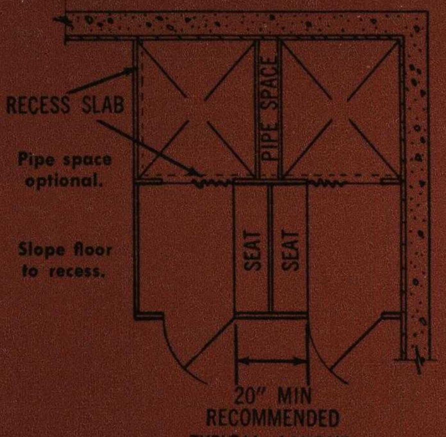
PRICEMETAL recommends that dressing room enclosures be fabricated in accordance with the specification on page 9 for Flush Pilaster type. Shower compartments should be specified with Style-Line dividing panels one sheet 16 gauge material. Materials should be bonderized, zinc coated steel, aluminum or stainless steel with natural finish. Finish for bonderized-galvanized or aluminum to be one coat of baked-on prime followed by two coats of synthetic baked enamel. (Each coat baked on separately at a temperature of 350°.) Colors as selected from manufacturer's twenty-one standards.



Lower Portion
Side Elevation



This basic design can be adapted to varied layouts. Ask your Pricemetal Representative.



TYPICAL LAYOUT

URINAL SCREENS

4 distinctive types to choose from . . .

- Type "A" (wall hung type) Off the floor—saves cleaning time.
- Type "B" (post surrounded) Attached to floor and wall—rugged.
- Type "C" (floor support) Attached to floor and wall—modern.
- Type "D" (post to ceiling) Attached to floor, wall and ceiling.

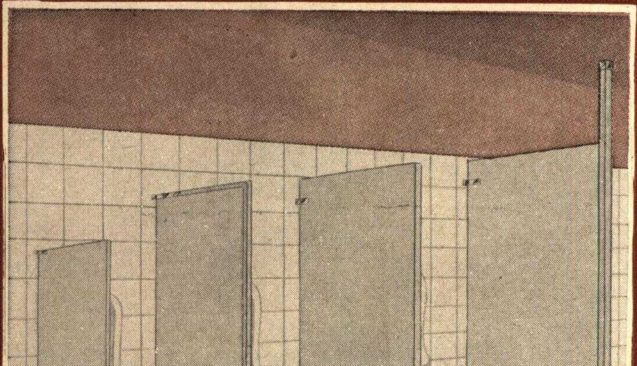
4 dependable materials and finishes available . . .

- Zinc coated, bonderized steel with primer and baked enamel finish.
- Aluminum with primer and baked enamel finish.
- Enameling steel with porcelain enamel finish.
- Stainless steel with natural satin finish.

sizes available

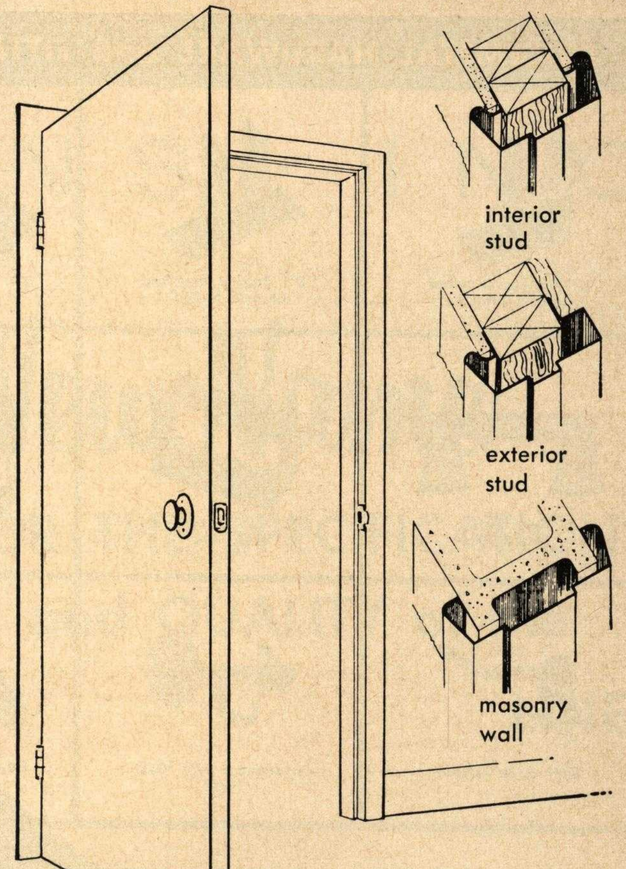
Type	Width	Panel Height	Off the Floor
A	18", 24"	42"	12", 18"
B	24", 30"	58"	12"
C	30", 36"	70"	0"
D	30", 36", 42", 48", 54", 57"	58"	12"

Note: Secure backing (by others) required for all types.



Wall Hung Type "A"   Post Surround Type "B"   Floor Support Type "C"   Post to Ceiling Type "D"

PRICEMETAL residential doors and frames



- saves labor—installed in 7 minutes
- modern streamlined casing
- no special backing or tools required
- recessed for sheetrock—eliminates taping

specifications

frames—18 gauge cold rolled steel with mitered corners and integral interlocking tabs for easy field assembly.

finish—Clean and phosphate coat to be followed by one coat light colored primer. Frames shipped knocked down with size indicated.

butts—Round cornered, steel brass plated, one pair 3½" x 3½" screwed to frame.

strike plate—Adjustable. Steel brass plated, with plain steel dust box.

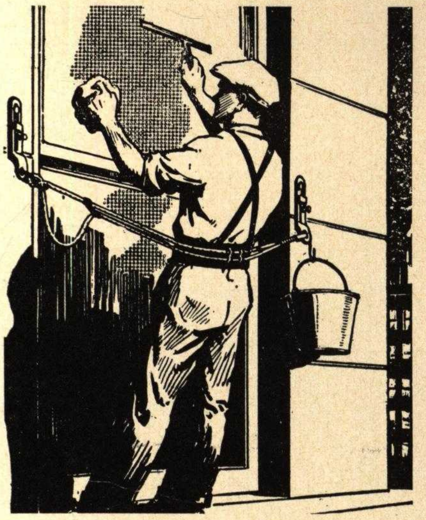
fastening—Frames punched for nail holes in jamb and head.

doors—Flush hollow core doors in Philippine mahogany, birch and other woods.

cores—Interlocked wood strips, precision cut and assembled to form 3½" modular center ventilated grid. Mortised for hardware.

stiles and rails—2½" wide kiln dried pine or Douglas fir, with suitable lock blocks.

"PEERLESS" WINDOW CLEANER'S SAFETY ANCHORS



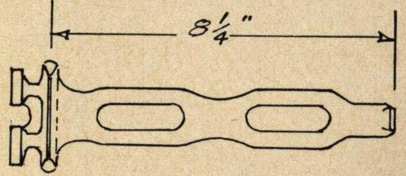
description

The safety rules in many states require the use of anchors at jambs and mullions of certain windows over 12 feet from grade. Peerless anchors are approved for use in many states, including California. They are forged from virgin Duronze III, an aluminum silicon alloy, which has a tensile strength of over 80,000 psi. Peerless anchors are made to satisfy any condition.

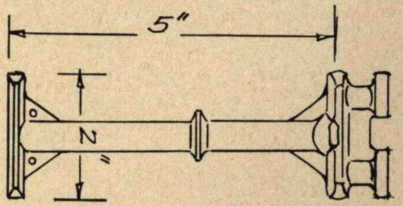
specifications

Window cleaner's safety anchors shall be "Peerless" as manufactured by PRICEMETAL Corporation, 1777 Industrial Way, Belmont, California. Anchors must meet all state regulations of safety, and cast anchors will not be allowed. See plans for types.

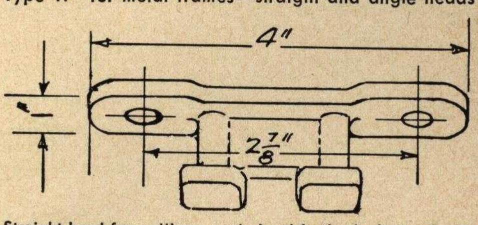
Type A—for brick walls



Type D—for new concrete



Type H—for metal frames—straight and angle heads

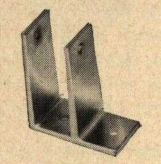


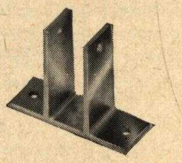
Straight head for mullions, angle head for jamb, fastened with two ⅜" 16 slotted R.H. Stainless Steel or Monel M.S. length of screws to suit conditions.

some representative installations

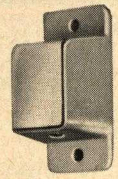
Metropolitan Park Merced Project
American Bank, San Francisco
Franklin Hospital, San Francisco
Southern Pacific Building, San Francisco
Bank of America, San Francisco
Highland Hospital, Oakland
Mercantile Building, Oakland
Cristie Hotel, Hollywood
Star News, Pasadena
Ambassador Apartments, Long Beach
National Biscuit Company, Los Angeles
Law Building, Los Angeles
Pacific Finance Building, Los Angeles
Builders Exchange, Los Angeles

PRICEMETAL HARDWARE and FITTINGS

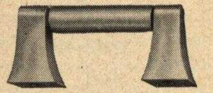

"L" Bracket Standard
Chrome plated


"U" Bracket Standard
Chrome Plated

Type "A" Screen Bracket

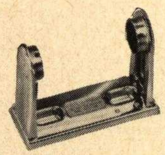

Head Rail Bracket
No. N-70

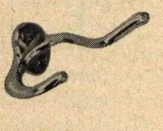
Chrome Plated Cabinet
Government No. 438
(baked enamel available)


Paper Roll
No. R-20

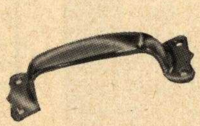
Roll Type Government
No. 434

Roll Type Government
No. 437

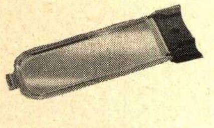

Roll Type Scott No. 964


Coat Hook (plain)

Government Type Coat Hook


Government Type Door Pull

Roller Curtain Hook


Nik-O-Lok Pull Down
Utility Shelf—5½x13¼"

OFFICES OR DISTRIBUTORS IN MOST PRINCIPAL CITIES

Consult your local telephone book yellow pages. Look for this trademark.

PRICEMETAL TOILET COMPARTMENTS
PARTITIONS - DOORS
ACCESSORIES FOR
TOILETS - SHOWERS -
DRESSING - PRIVACY
COMPARTMENTS
Pricemetal CORPORATION ®
Porcelain-Baked Enamel On Zinccoated Bonderized Steels, Also Aluminum & Stainless
Concealed "TORSIONAMIC" Hinges

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- Phoenix
- Tucson

ARKANSAS
- Little Rock
- Texarkana

CALIFORNIA
- Bakersfield
- Eureka
- Fresno
- Los Angeles
- Sacramento
- San Diego
- San Francisco
- Santa Barbara

COLORADO
- Boulder
- Denver
- Grand Junction
- Pueblo

FLORIDA
- Jacksonville
- Miami

IDAHO
- Boise
- Moscow
- Pocatello

ILLINOIS
- Chicago
- Springfield

INDIANA
- Evansville
- Fort Worth
- Hammond
- Indianapolis
- Richmond
- South Bend

IOWA
- Des Moines

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- Kansas City
- Topeka
- Wichita

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- Lincoln
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- Bismarck
- Fargo

OHIO
- Akron
- Canton
- Cincinnati
- Columbus
- Toledo

OREGON
- Medford
- Portland

TENNESSEE
- Knoxville
- Nashville

TEXAS
- Abilene
- Amarillo
- Austin
- Dallas
- Fort Worth
- Houston
- Lubbock
- Waco
- San Antonio

UTAH
- Ogden
- Salt Lake City

WASHINGTON
- Seattle
- Spokane

WEST VIRGINIA
- Charleston
- Huntington
- Wheeling

WISCONSIN
- Milwaukee

WYOMING
- Casper
- Cheyenne

No. 60-1

Printed in U.S.A.

Pricemetal
1777 Industrial Way, Belmont, California
Telephone LYtell 3-8481

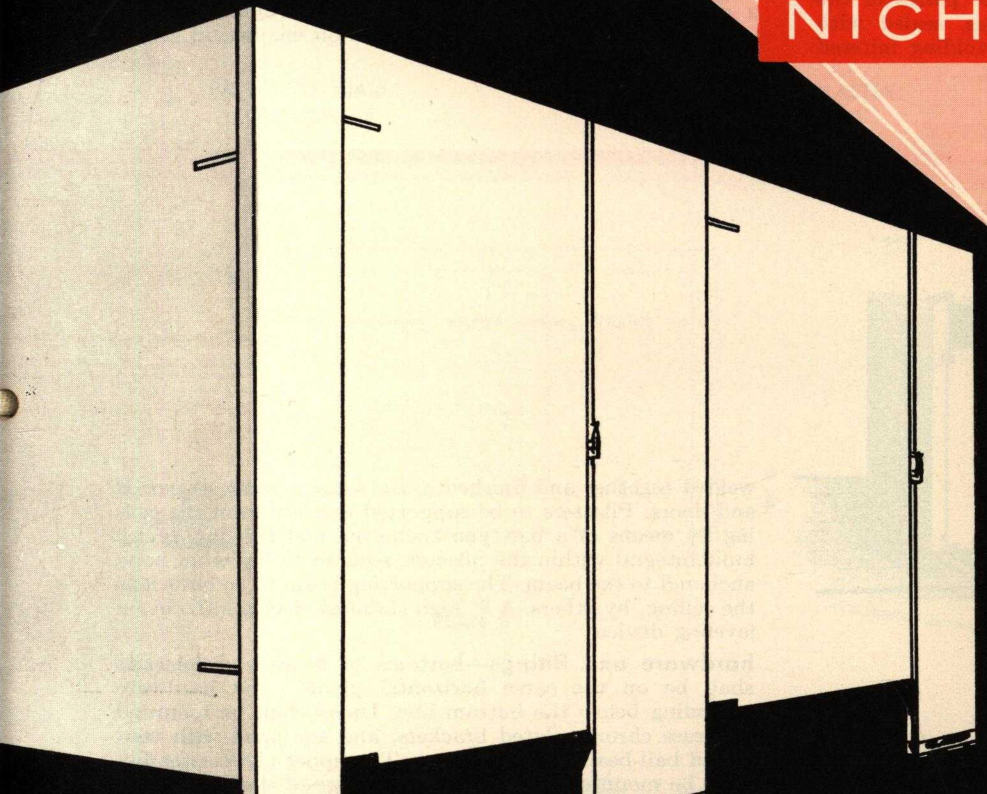
ROBART

22b
Ro

PARTITIONS · INC.

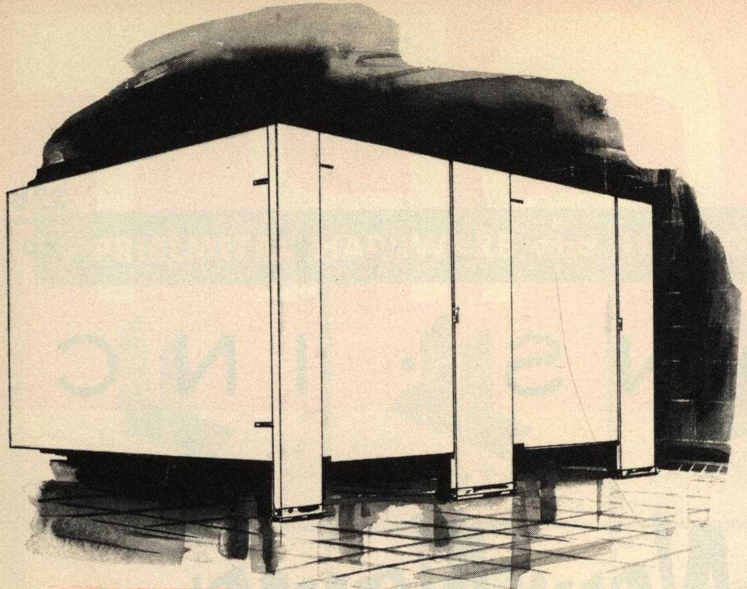
A New Name

FOR THE SPECIFICATIONS and QUALITY of the NICHOLSON LINE!



QUALITY · SERVICE · DELIVERY

Ruddle Street, Wilkes-Barre, Pa.



TYPE A FLOOR BRACED

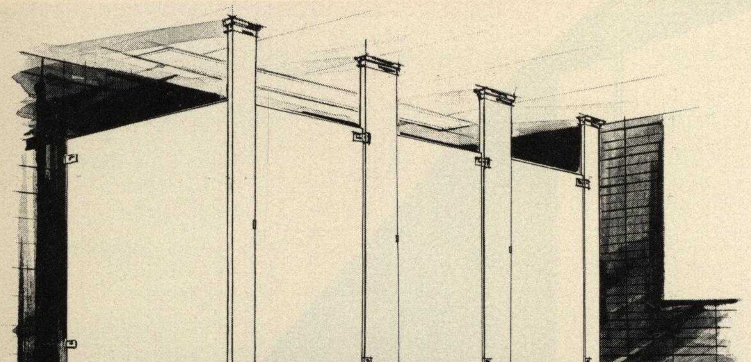
SPECIFICATIONS—general—All toilet compartments shall be Type "A" as manufactured by Robart Partitions, Inc.*

dividing panels and doors—panels and doors shall be 1″ thick, fabricated of two sheets of 20-gauge stretcher-leveled furniture steel,** assembled over and cemented under pressure to a honeycomb core insulation. Face plates of the panels and doors shall have formed edges, sealed with continuous oval crown locking molding. Molding mitered and welded at corners, then ground smooth.

pilasters—pilasters shall be independently mounted. 70″ in height, 1¼″ in thickness, fabricated of two sheets of 16-gauge steel welded together and finished in the same manner as panels and doors. Pilasters to be securely anchored to floor by means of a bar-type anchoring and leveling device built integral within the pilaster, secured by ⅜″ stud bolts anchored in expansion shields below the finished floor. A 3″ high stainless-steel floor plinth covers leveling device.

hardware and fittings—top of doors and pilasters shall be on the same horizontal plane. Doors shall be mounted on brass chrome-plated brackets, and equipped with concealed ball-bearing roller hinges. The upper pivot assembly shall be mounted in a recess in the edge of the door. Door shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber-tipped bumper. (Door pulls and two-prong coat hooks supplied with outswing doors.) Wall and panel brackets shall be manufactured of 12-gauge steel, enamelled to match partitions. Chrome-plated brackets optional.*** Latches, coat hooks and panel brackets supplied with chrome-plated theft-proof screws.

finish—all metal parts shall be thoroughly cleaned, leaving a phosphate deposit primed with zinc chromate primer, and finished with two coats of baked-on enamel, in colors of user's choice, baked at 420°F.



TYPE AC CEILING HUNG

SPECIFICATIONS—general—All toilet compartments shall be Type "AC" as manufactured by Robart Partitions, Inc.*

dividing panels and doors—panels and doors shall be 1″ thick, fabricated of two sheets of 20-gauge stretcher leveled furniture steel,** assembled over and cemented under pressure to a honeycomb core insulation. Face plates of the panels and doors shall have formed edges, sealed with continuous oval crown locking molding. Molding mitered and welded at corners, then ground smooth.

pilasters—pilasters shall be independently suspended. 1¼″ in thickness, fabricated of two sheets of 16-gauge steel welded together and finished in the same manner as panels and doors. Pilasters to be supported entirely from the ceiling by means of a bar-type anchoring and leveling device built integral within the pilaster, secured by ⅜″ stud bolts anchored to the beam. The supporting beam to be built into the ceiling, by others. A 3″ high stainless steel plinth covers leveling device.

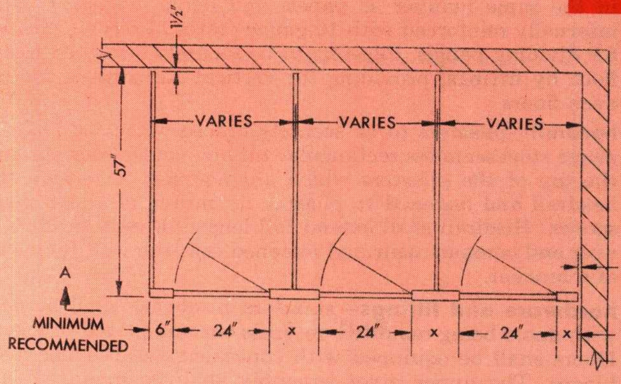
hardware and fittings—bottoms of doors and pilasters shall be on the same horizontal plane . . . no hardware extending below the bottom line. Doors shall be mounted on brass chrome-plated brackets, and equipped with concealed ball-bearing roller hinges. The upper pivot assembly shall be mounted in a recess in the edge of the door. Door shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber-tipped bumper. (Door pulls and two-pronged coat hooks supplied with outswing doors.) Wall and panel brackets shall be manufactured of 12-gauge steel, enamelled to match partitions. Chrome-plated brackets optional.*** Latches, coat hooks and panel brackets supplied with chrome-plated theft-proof screws.

finish—all metal parts shall be thoroughly cleaned, leaving a phosphate deposit, primed with zinc chromate primer, and finished with two coats of baked-on enamel, in colors of user's choice, baked at 420°F.

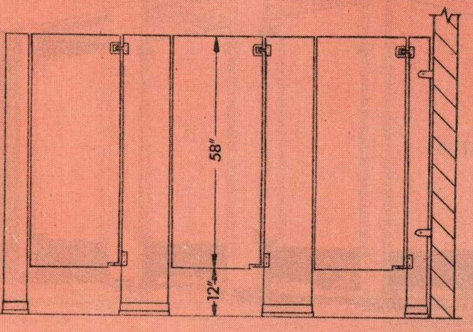
*As previously manufactured by W. H. Nicholson and Co.

**Galvanized bonderized steel, when specified.

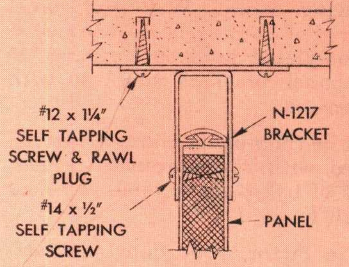
***Available at slight additional cost.


1½"
57"
VARIES
VARIES
VARIES
A
A
MINIMUM RECOMMENDED
6"
24"
x
24"
x
24"
x

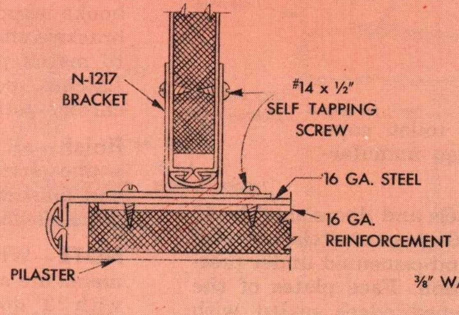
PLAN A



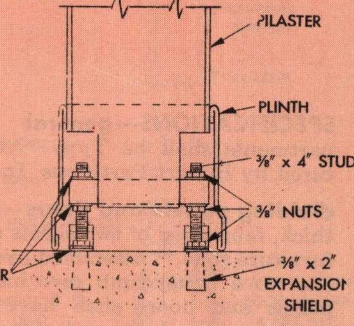
SECTION A-A


#12 x 1¼" SELF TAPPING SCREW & RAWL PLUG
N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
PANEL

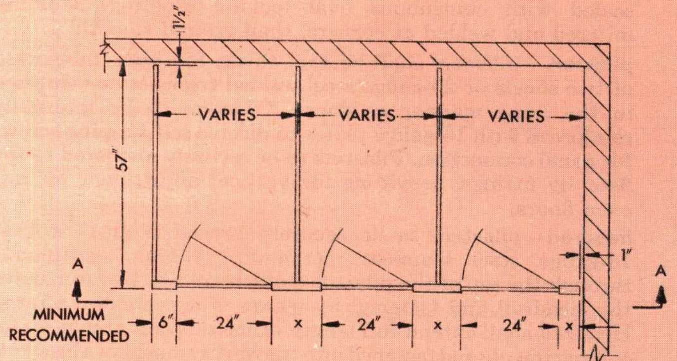
PANEL TO WALL CONNECTION


N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
16 GA. STEEL
16 GA. REINFORCEMENT
PILASTER

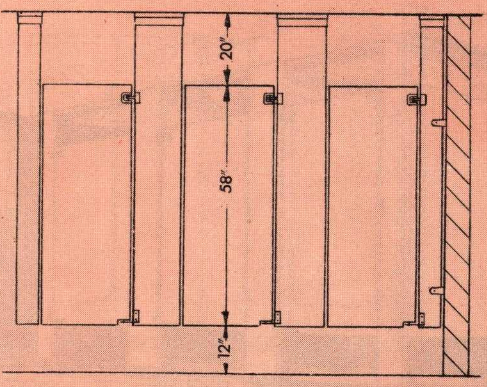
PANEL TO PILASTER CONNECTION


PILASTER
PLINTH
⅜" x 4" STUD
⅜" NUTS
⅜" WASHER
⅜" x 2" EXPANSION SHIELD

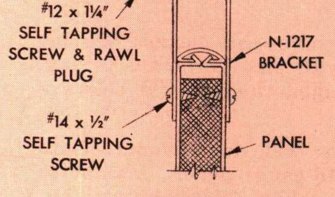
FLOOR CONNECTION


1½"
57"
VARIES
VARIES
VARIES
1"
A
A
MINIMUM RECOMMENDED
6"
24"
x
24"
x
24"
x

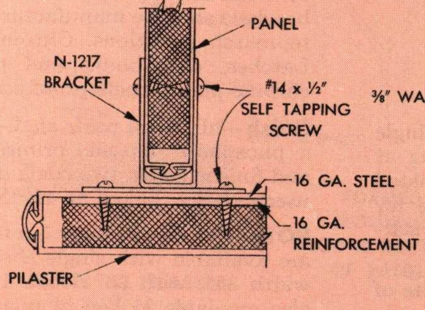
PLAN B



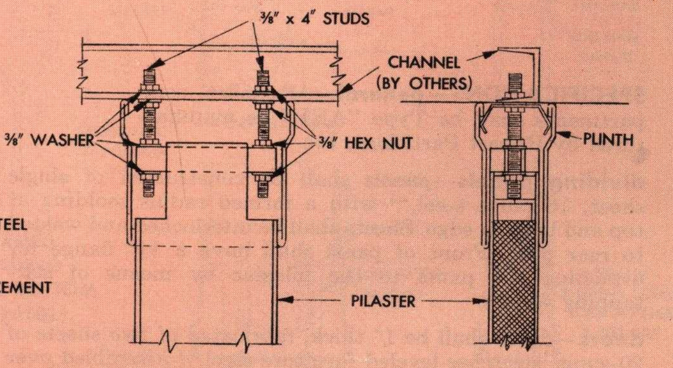
SECTION A-A


#12 x 1¼" SELF TAPPING SCREW & RAWL PLUG
N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
PANEL

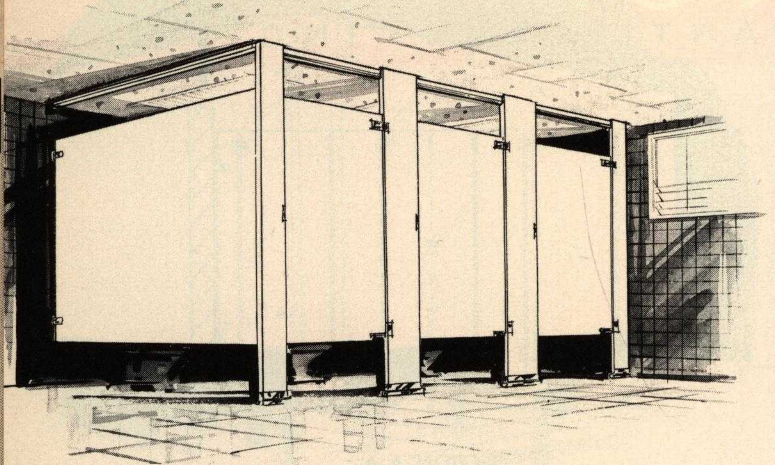
PANEL TO WALL CONNECTION


PANEL
N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
16 GA. STEEL
16 GA. REINFORCEMENT
PILASTER

PANEL TO PILASTER CONNECTION


⅜" x 4" STUDS
CHANNEL (BY OTHERS)
⅜" WASHER
⅜" HEX NUT
PLINTH
PILASTER

PILASTER TO CEILING CHANNEL CONNECTION



TYPE AR
OVERHEAD BRACED

SPECIFICATIONS—general All toilet compartments shall be Type "AR" as manufactured by Robart Partitions, Inc.*

dividing panels and doors—panels and doors shall be 1″ thick, fabricated of two sheets of 20-gauge stretcher-leveled furniture steel,** assembled over and cemented under pressure to a honeycomb core insulation. Face plates of the panels and doors shall have formed edges sealed with continuous oval crown locking molding. Molding mitered and welded at corners, then ground smooth.

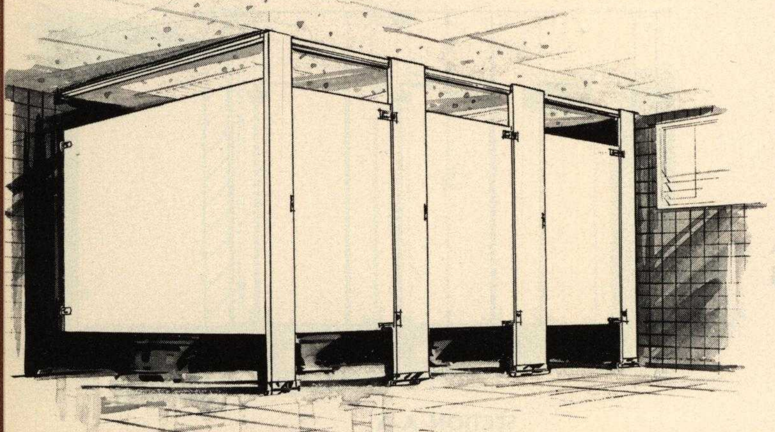
pilasters—pilasters shall be 1¼″ thick, 82″ high, fabricated of two sheets of 20-gauge steel welded together and finished in the same manner as panels and doors. Pilasters to be internally reinforced with 16-gauge plates to receive stirrups for dividing panels. Pilasters to be securely anchored to the floor by fittings, providing for vertical adjustment for uneven floors.

headrail—pilasters to be securely braced with 1″ x 1½″ 16-gauge steel seamless rectangular tubing, continuous through the top of the pilasters which are notched to receive this headrail and fastened to pilaster by means of sheet metal screws. Headrail shall extend full length of installation and over end compartment and fastened into the wall by means of a bracket.

hardware and fittings—standard hardware shall be used with doors being mounted on brass chrome-plated brackets. Doors shall be equipped with concealed ball-bearing roller hinges. The upper pivot assembly shall be mounted in a recess in the edge of the door. Door shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber-tipped bumper. (Door pulls and two-prong coat hooks supplied with outswing doors.) Wall and panel brackets shall be manufactured of 12-gauge steel, enamelled to match partitions. Chrome-plated brackets optional.*** Latches, coat hooks and panel brackets supplied with chrome-plated theft-proof screws.

finish—all metal parts shall be thoroughly cleaned, leaving a phosphate deposit, primed with zinc chromate primer, and finished with two coats of baked-on enamel, in colors of user's choice, baked at 420°F.

NOTE—Where economy is a factor, wide door compartments are available with flush panels. Maximum width 34″, with 32″ doors. 1¼″ x 1⅞″ 16-gauge posts are also available in lieu of pilasters. Construction, hardware, fittings and finish are same as specified above.



TYPE ARP
PANEL TYPE

SPECIFICATIONS—general—All toilet compartments shall be Type "ARP" as manufactured by Robart Partitions, Inc.*

dividing panels—panels shall be constructed of single sheet, 16-gauge steel,** with a formed radius molding at top and bottom edge. Sheets shall be interlocked and welded to rear post. Front of panel shall have a ⅝″ flange for attaching the panel to the pilaster by means of self-tapping screws.

doors—doors shall be 1″ thick, fabricated of two sheets of 20-gauge stretcher-leveled furniture steel,** assembled over and cemented under pressure to a honeycomb core insulation. Face plates of the doors shall have formed edges sealed with continuous oval locking molding. Molding mitered and welded at corners, then ground smooth.

pilasters—pilasters shall be 1¼″ thick, 82″ high, fabricated of two sheets of 20-gauge steel welded together and finished in the same manner as doors. Pilasters to be internally reinforced with 16-gauge plates to receive self-tapping screws for panel connection. Pilasters to be securely anchored to the floor by fittings, providing for vertical adjustment for uneven floors.

headrail—pilasters to be securely braced with 1″ x 1½″ 16-gauge steel seamless rectangular tubing, continuous through the top of the pilasters, which are notched to receive this headrail and fastened by means of sheet metal screws. Headrail shall extend full length of installation and over end compartments and fastened into the wall by means of a bracket.

hardware and fittings—standard hardware shall be used with doors being mounted on brass chrome-plated brackets. Doors shall be equipped with concealed ball-bearing roller hinges. The upper pivot assembly shall be mounted in a recess in the edge of the door. Door shall be fitted with a combination keeper and bumper, slide latch and coat hook with rubber-tipped bumper. (Door pulls and two-prong coat hooks supplied with outswing doors.) Wall and panel brackets shall be manufactured of 12-gauge steel, enamelled to match partitions. Chrome-plated brackets optional.*** Latches, coat hooks and panel brackets supplied with chrome-plated theft-proof screws.

finish—all metal parts shall be thoroughly cleaned, leaving a phosphate deposit, primed with zinc chromate primer, and finished with two coats of baked-on enamel, in colors of user's choice, baked at 420°F.

NOTE—Where economy is a factor, wide door compartments are available with single sheet 16-gauge panels. Maximum width 34″, with 32″ doors. 1¼″ x 1⅞″ 16-gauge posts are also available in lieu of pilasters. Construction, hardware, fittings and finish are same as specified above.

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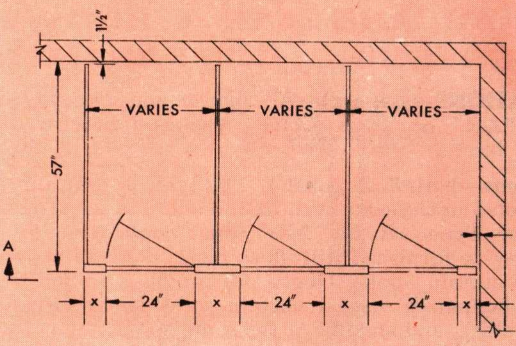
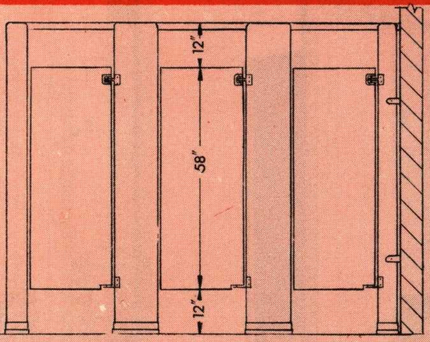
*As previously manufactured by W. H. Nicholson and Co.

**Galvanized bonderized steel, when specified.

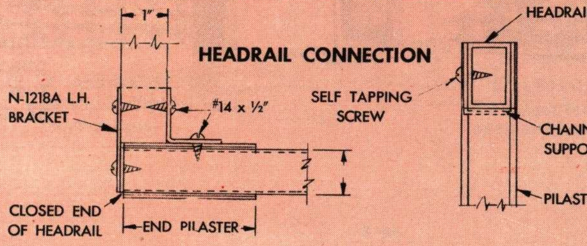
***Available at slight additional cost.


1½"
57"
VARIES
VARIES
VARIES
A
A
1"
x
24"
x
24"
x
24"
x

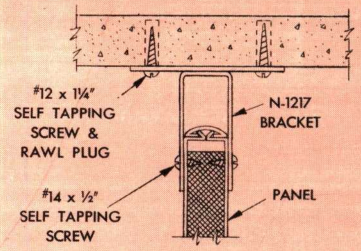
PLAN C

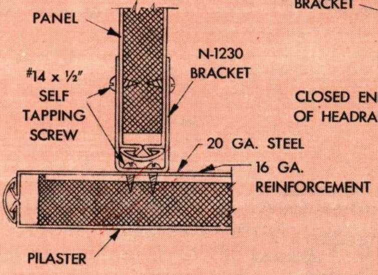


SECTION A-A


1"
N-1218A L.H. BRACKET
#14 x ½"
CLOSED END OF HEADRAIL
END PILASTER
HEADRAIL
SELF TAPPING SCREW
CHANNEL SUPPORT
PILASTER

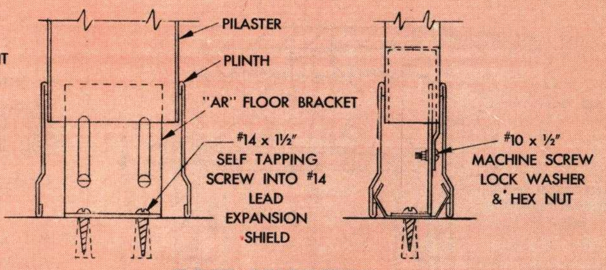
HEADRAIL CONNECTION


#12 x 1¼" SELF TAPPING SCREW & RAWL PLUG
N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
PANEL

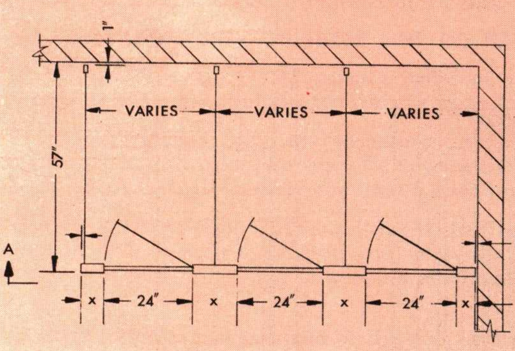

PANEL
N-1230 BRACKET
#14 x ½" SELF TAPPING SCREW
20 GA. STEEL
16 GA. REINFORCEMENT
PILASTER

PANEL TO WALL CONNECTION

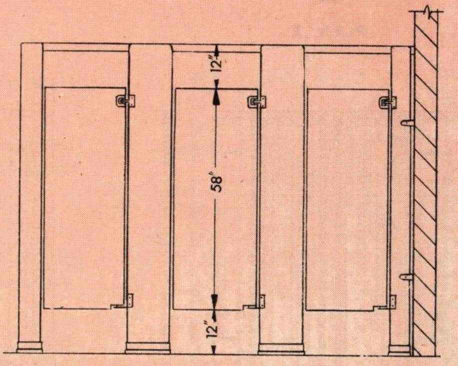
PANEL TO PILASTER CONNECTION


PILASTER
PLINTH
"AR" FLOOR BRACKET
#14 x 1½" SELF TAPPING SCREW INTO #14 LEAD EXPANSION SHIELD
#10 x ½" MACHINE SCREW LOCK WASHER & HEX NUT

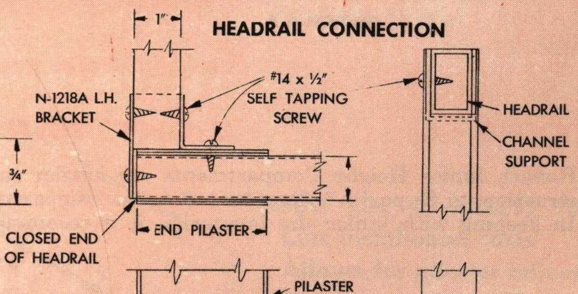
FLOOR CONNECTION


1"
57"
VARIES
VARIES
VARIES
A
A
1"
x
24"
x
24"
x
24"
x

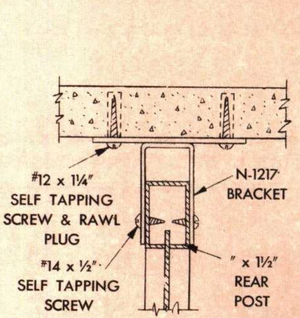
PLAN D

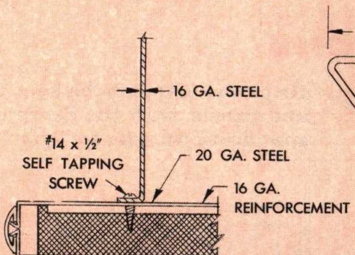


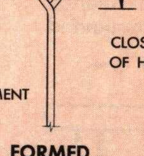
SECTION A-A


1"
N-1218A L.H. BRACKET
#14 x ½" SELF TAPPING SCREW
CLOSED END OF HEADRAIL
END PILASTER
HEADRAIL
CHANNEL SUPPORT

HEADRAIL CONNECTION


#12 x 1¼" SELF TAPPING SCREW & RAWL PLUG
N-1217 BRACKET
#14 x ½" SELF TAPPING SCREW
" x 1½" REAR POST

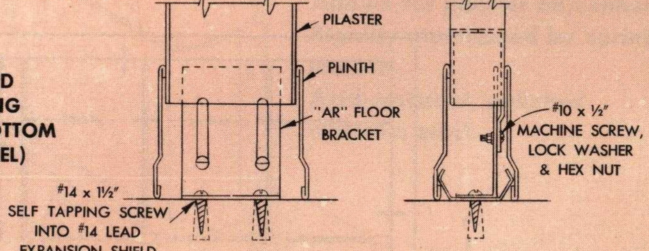

16 GA. STEEL
#14 x ½" SELF TAPPING SCREW
20 GA. STEEL
16 GA. REINFORCEMENT



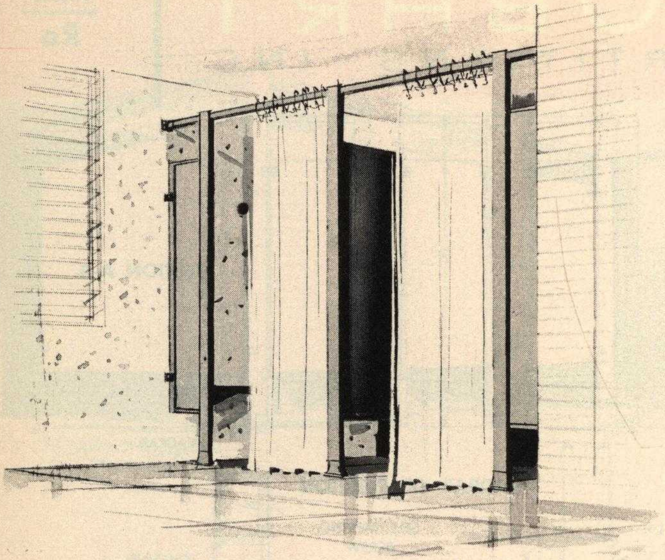
FORMED MOLDING (TOP & BOTTOM OF PANEL)

PANEL TO WALL CONNECTION

PANEL TO PILASTER CONNECTION


PILASTER
PLINTH
"AR" FLOOR BRACKET
#14 x 1½" SELF TAPPING SCREW INTO #14 LEAD EXPANSION SHIELD
#10 x ½" MACHINE SCREW, LOCK WASHER & HEX NUT

FLOOR CONNECTION



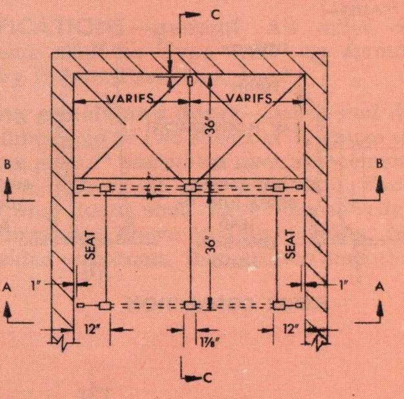
TYPE AR AND ARP • SHOWER AND DRESSING COMPARTMENTS

SPECIFICATIONS—general—All shower and dressing rooms shall be Type "AR" or Type "ARP" as manufactured by Robart Partitions, Inc.*

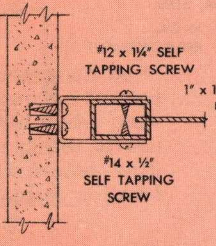
compartments—both flush panel and pilaster, or post and panel shall be constructed of the same type material and in the same manner as specified for Type AR and ARP toilet compartments. These enclosures may be furnished with flush metal doors or shower curtains with roller curtain hooks. Hooks are provided to roll on standard headrail, eliminating special curtain rods. Doors, when required, shall be 1" thick, and shall be of the same design and construction as specified for flush doors and panels. Metal or wood seats shall be supplied to fit the various conditions when specified. Compartments may be installed on curb or floor with concealed fastenings.

finish—all metal parts shall be thoroughly cleaned, leaving a phosphate deposit, primed with zinc chromate primer, and finished with two coats of baked-on enamel, in user's choice of colors, baked at 420°F.

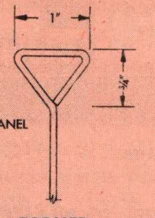
*As previously manufactured by W. H. Nicholson and Co.


C
VARIFS
VARIFS
36"
B
B
SEAT
36"
SEAT
A
1"
1"
A
12"
1⅞"
12"
C

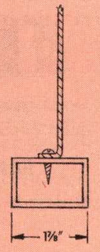
PLAN E


#12 x 1¼" SELF TAPPING SCREW
1" x 1½" PANEL POST
#14 x ½" SELF TAPPING SCREW

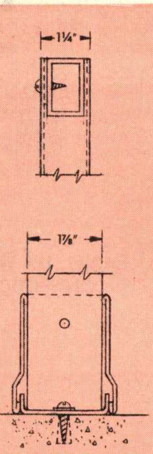
PANEL TO WALL CONNECTION



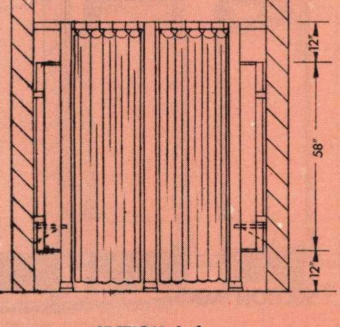
FORMED MOLDING (TOP & BOTTOM OF PANEL)



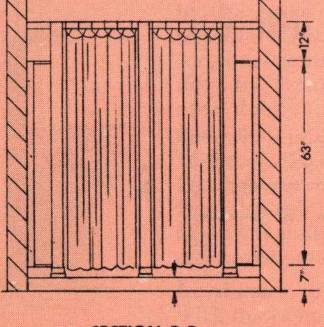
PANEL TO POST CONNECTION



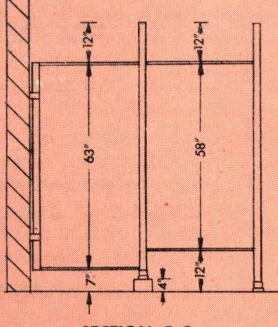
POST TO FLOOR CONNECTION



SECTION A-A



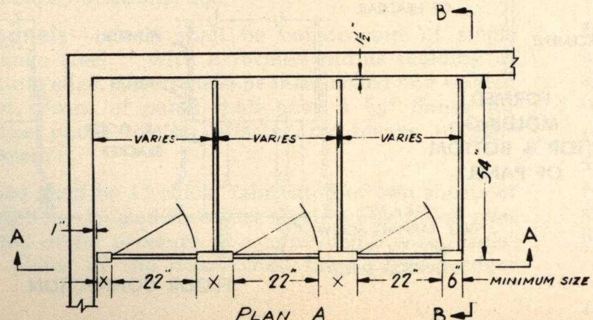
SECTION B-B


12"
63"
7"
4"
12"
58"
12"

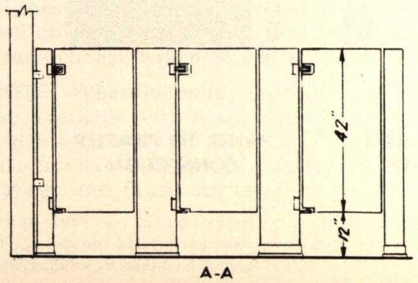
SECTION C-C

TYPE A • JR. HEIGHT PARTITIONS

Robart Junior Height Compartments are similar in construction to Type "A" floor braced toilet compartments. In keeping with junior size lavatories, it is recommended that compartments be kept to 54" in height, with 42" doors and panels, with the depth of stall to be 54". For complete specifications, refer to Type "A" floor braced compartments.

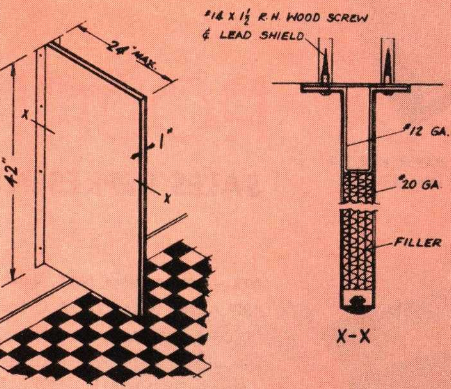

B
½"
VARIES
VARIES
VARIES
54"
A
1"
A
X
22"
X
22"
X
22"
6"
MINIMUM SIZE
B

PLAN A

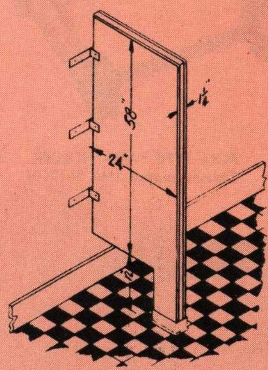


A-A

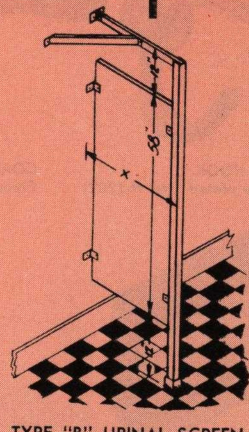
URINAL SCREENS


#14 x 1½ R.H. WOOD SCREW
& LEAD SHIELD
24" MAX.
1"
42"
X
X
#12 GA.
#20 GA.
FILLER
X-X

WALL MOUNTED SCREEN



TYPE "A" URINAL SCREEN
wall mounted and
floor braced



TYPE "B" URINAL SCREEN
floor supported and
overhead braced

CONCEALED GRAVITY HINGE FOR TOILET PARTITION DOORS

This all new gravity-type hinge is simple, positive, quiet, durable, and is standard on all compartment doors. Robart engineers tested this newly designed hinge by mounting one, picked at random from the production line, on a 1¼ inch pilaster and a flush-type toilet enclosure door. The door was opened quickly by an air-actuated cylinder and allowed to close smoothly and silently by the action of the gravity hinge.

After 380,000 cycles of this operation, or the equivalent of 20 times a day for more than 52 years, the hinge was removed, disassembled and carefully examined. All parts were in perfect condition, without any signs of wear or fatigue. On the basis of this test result, we feel safe to say that this new hinge in normal use will outlast the life of the toilet compartment. It has no springs to wear out, nor does it require added lubricants.

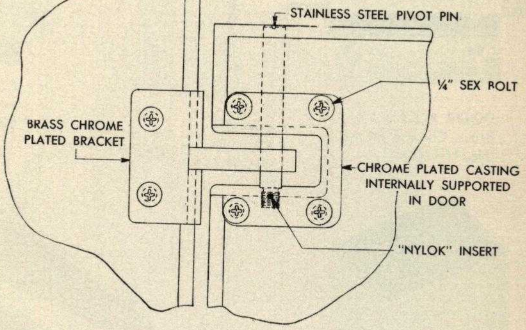
COMPARE A FEW OF THESE FINE FEATURES

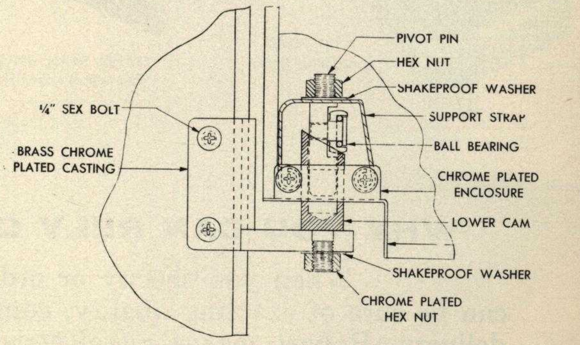
EASE OF INSTALLATION: Simply and quickly installed as a complete unit during erection at the site. No complicated directions to follow.

SIMPLICITY OF ADJUSTMENT: Only one adjustment to provide any desired position of the door when at rest. No cause for special tools or removal from the panel. Designed to indicate exactly the door's position of rest.

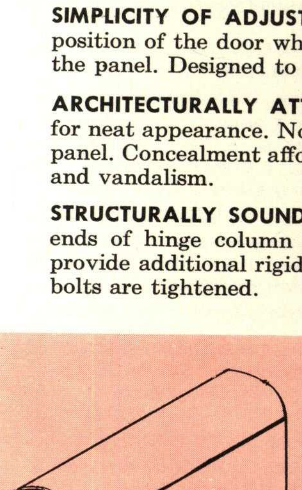
ARCHITECTURALLY ATTRACTIVE: Entire unit concealed inside the door panel for neat appearance. No projection of any parts below the bottom edge of the panel. Concealment affords protection to working parts against dust, moisture and vandalism.

STRUCTURALLY SOUND: An integral part of the door panel structure. Curled ends of hinge column strap butt solidly against the inside of the panel to provide additional rigidity. No possibility of panel bending inward when sex bolts are tightened.

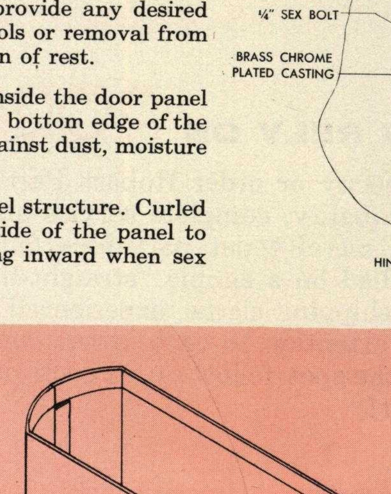

STAINLESS STEEL PIVOT PIN
¼" SEX BOLT
BRASS CHROME PLATED BRACKET
CHROME PLATED CASTING INTERNALLY SUPPORTED IN DOOR
"NYLOK" INSERT


PIVOT PIN
HEX NUT
SHAKEPROOF WASHER
SUPPORT STRAP
¼" SEX BOLT
BALL BEARING
BRASS CHROME PLATED CASTING
CHROME PLATED ENCLOSURE
LOWER CAM
SHAKEPROOF WASHER
CHROME PLATED HEX NUT

HINGE IS ADJUSTABLE TO RETURN DOOR TO ANY DESIRED POSITION

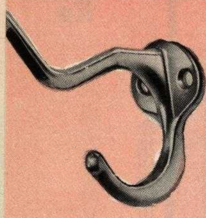


HONEYCOMB INSULATION
- **Added strength**
- **Light weight**
- **Sound deadening**
- **Perfect lamination**



"SNAP ON" STAINLESS PLINTH
- **Cuts installation costs**
- **Allows for pilaster adjustment**
- **Rigidity maintained by spring tension**
- **Acid-resistant, polished stainless steel**

HARDWARE


COAT HOOK
Chrome plated. (No. N-1207)

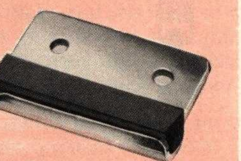
COAT HOOK and BUMPER
Chrome plated. (No. N-1209)

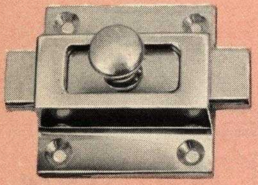
ROLL TYPE PAPER HOLDER
Chrome plated. (No. N-1210)

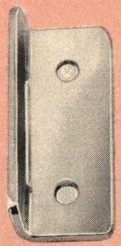
CABINET TYPE PAPER HOLDER
Chrome Plated. (No. N-1211)

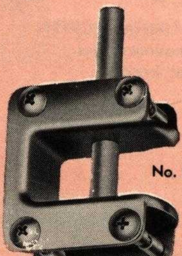
PILASTER PLINTH
Stainless Steel. (No. N-1212)

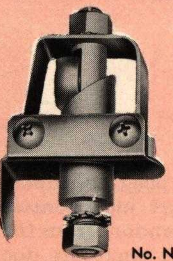
DOOR PULL
Aluminum. (No. N-1208)


DOOR STOP
Inswing door. Brass. Chrome plated. (No. N-1226)

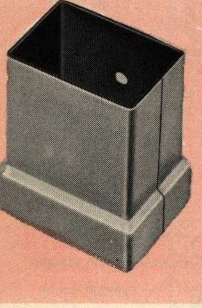

DOOR BOLT
Brass. Chrome plated.
(No. N-1206)

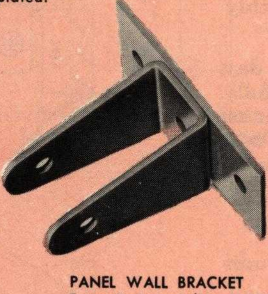

KEEPER
Brass. Chrome plated.
(No. N-1225)

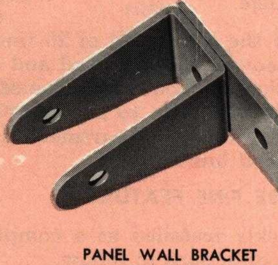

No. N-1240


No. N-1201

CONCEALED GRAVITY HINGE and RECESSED PIVOT
Chrome plated.


POST FOOT
Stainless Steel


PANEL WALL BRACKET
Enamelled steel. (No. N-1217)


PANEL WALL BRACKET
Enamelled steel. (No. N-1223)

ROBART
SALES REPRESENTATIVES

ARK.—J. H. Lammons, 500 E. Markham St., Little Rock
ARIZ.—Ralph Wilkens Co., P. O. Box 961, Phoenix
COLO.—Landes, Zachary & Peterson, 601 S. Jason, Denver
FLA.—Florida Distributors, P. O. Box 5026, Jacksonville 7
  Manufacturers Sales Co., 1826 N. Pace Blvd., Pensacola
  Metal Specialties Sales Corp., 46 N. E. 6th St., Miami
  Southeastern Wholesale Dist., 1505 Grand Central, Tampa 6
GA.—Neill H. Lassiter, Jr., 285 Hunnicutt St., NW, Atlanta 13
HAWAII—Lewers & Cooke, Ltd., P. O. Box 2930, Honolulu 2
ILL.—Sisco, Inc., 9106—31st St., Brookfield
IND.—Associated Metal Products Corp., 504 Washington St., La Porte
IOWA—Steel, Inc., 127 S. E. 7th St., Des Moines
KANSAS—Topeka Builders Supply, Inc., P. O. Box 826, Topeka
LA.—Bryner-Spranley, Inc., P. O. Box 12001, New Orleans 24
  Building Service Co., 1245 Texas Ave., Shreveport
  J. Paul Smith Building Specialties, 1604 Scenic Highway, Baton Rouge 2
  J. Paul Smith Building Specialties, 127 N. Buchanan St., Lafayette
ME.—Central Supply Co., Box 443, Augusta
MD.—The Steiner-Fulton Co., 1817 Pierce St., Baltimore 23
MASS.—Capitol Building Specialties Co., 44 School St., Boston 8
MICH.—Dover & Co., 651 Hall St., Flint 1
  B. F. Farnell Co., 435 W. Seven Mile Rd., Detroit 3
MINN.—Sisco of Minn., Inc., 3424 E. Lake St., Minneapolis
MO.—M.F.G. Associates, 34 N. Brentwood Blvd., St. Louis
NEBR.—Simpson-Goodwin Co., 4403 Florence Blvd., Omaha 10
N.J.—Carlin & Steinitz Co., 91 Newark Way, Maplewood
N.M.—Landes, Zachary & Peterson, P. O. Box 3245, Albuquerque
N.Y.—Bradco Products, Inc., 3815 Walden Ave., Lancaster
  Robert H. Link & Sons, 135 Spring St., Rochester 8
N.C.—Allied Associated Steel Prod. Inc., P. O. Box 3447, Charlotte 3
OHIO—Acacia Steel Products Co., 324 Salem Ave., Dayton 6
  Virgil H. Roush Co., P. O. Box 297, Zanesville
OKLA.—Remco, Inc., 1205 N. Penna. Ave., Oklahoma City 7
PENNA.—Thomas E. Bergen Co., 1612 Market St., Phila. 3
  Morris Black & Sons, Inc., Third & Union Sts., Allentown
  Harry Mason Co., P. O. Box 852, Harrisburg
  Seigel & Sweeney, 636 Center Ave., Pittsburgh
PUERTO RICO—American Agencies, Box 1216, San Juan 6
TENN.—Harwell & Rosselot, 1596 Madison Ave., Memphis
  Harwell & Rosselot, 1123 Church St., Nashville
  Harwell & Rosselot, 609 Brown Mt. Loop, Knoxville
TEXAS—Acme Building Specialties, Inc., 1500 California St., Houston
  W. G. Gower Co., P. O. Box 2095, Corpus Christi
  Landes, Zachary & Peterson, 2137 Mill St., El Paso
  McLaury Co., P. O. Box 13705, Dallas 24
  S. P. Gilbert Co., P. O. Box 651, San Antonio
UTAH—T. C. Stayner Co., 2985 S. 2nd St. West, Salt Lake City
VA.—Montague Betts Co., 1619 Wythe Rd., Lynchburg
  L. C. Tolson Co., 3122 Clay St., Richmond
  Withers Clay Utley, Inc., 424 21st St., Norfolk 10
WASH.—Foster-Bray Co., Inc., 174 Denny Way, Seattle 9
WISC.—Architectural Bldg. Prod. Inc., 4609 W. Woolworth Ave., Milwaukee 18

WHY YOU CAN RELY ON ROBART

When you specify or order Robart Partitions you can be sure of exacting quality, complete service and prompt delivery. Robart makes metal toilet partitions only. Orders and production are handled on a simple "straight-line" basis. From top executives to shipping clerks, experienced personnel give their full, personal attention to each order. Nearby sales representatives give on-the-spot follow-up to each detail. You can really rely on Robart!

ROBART
PARTITIONS · INC.

RUDDLE STREET
WILKES-BARRE, PA

CATALOG 97

1960 EDITION

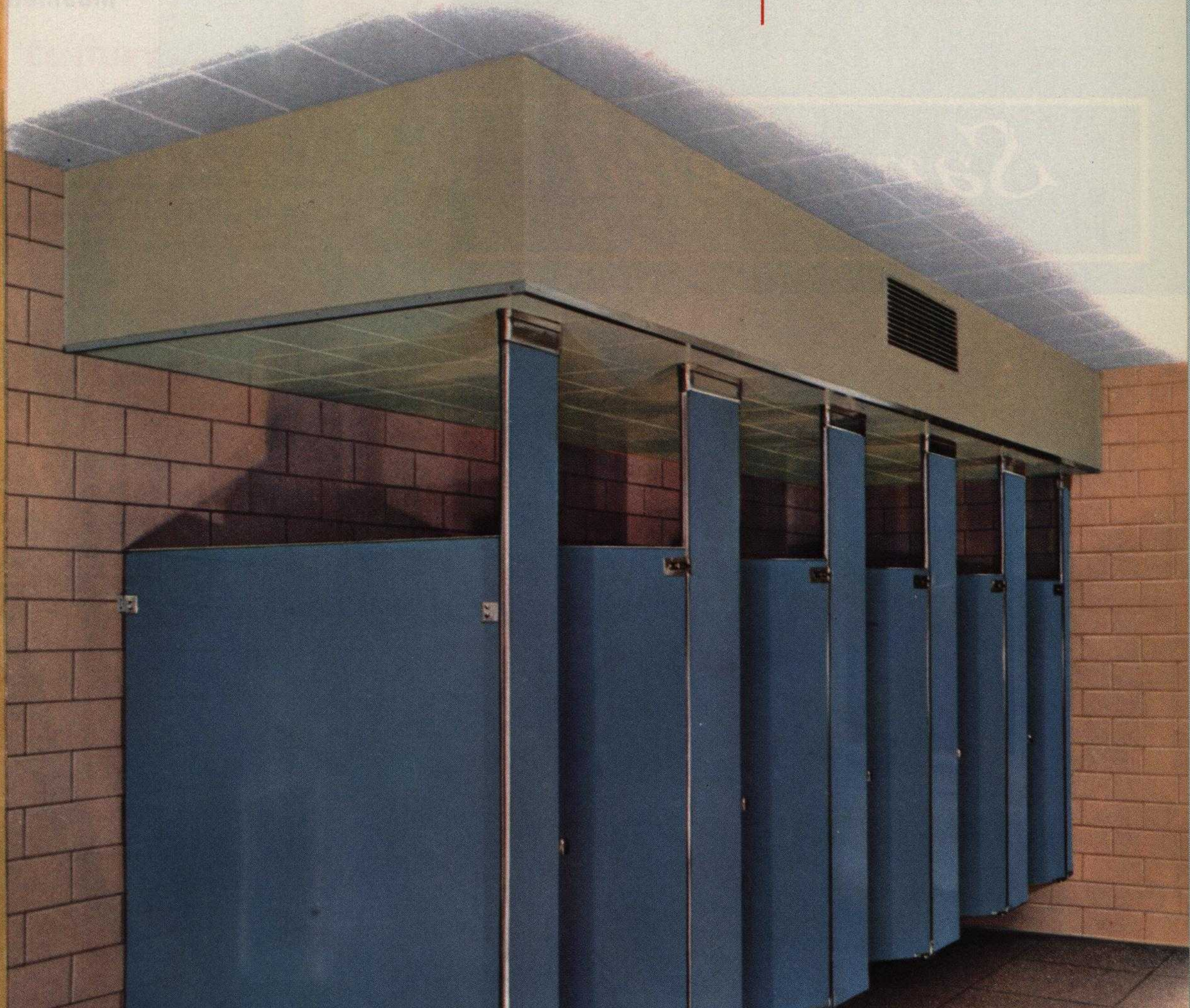


Illustration courtesy of Addressograph-Multigraph Corporation

Sanymetal®

TOILET COMPARTMENTS

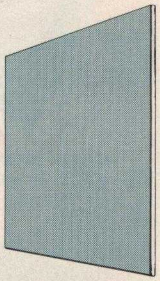
SHOWER STALLS

HOSPITAL CUBICLES

THE SANYMETAL PRODUCTS COMPANY, INC. • 1701 URBANA ROAD, CLEVELAND 12, OHIO

Quick Guide to DESIGNS and MATERIALS *offered by* Sanymetal®

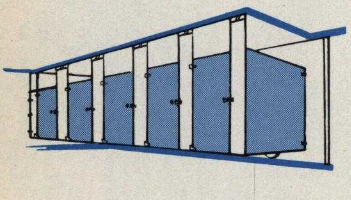
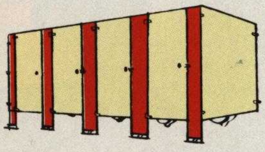
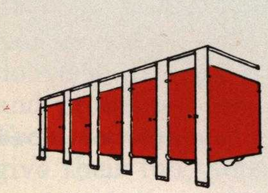
ALL FLUSH CONSTRUCTION



All Sanymetal Compartments are now made with *FLUSH* insulated partitions, doors, and flush pilasters. NOTE flush, integral door hinge brackets, and flush-mounted, concealed latches.

The doors and partitions are 1″ thick; pilasters are 1¼″ thick. Each insulated with sound-deadening BRIDGECORE.

STANDARD MATERIALS AVAILABLE

STYLES AVAILABLE	**PORCENA** Vitreous porcelain on steel	**SYNTHETIC ENAMEL** Baked-on over GALVANIZED Bonderized* Steel	**SYNTHETIC ENAMEL** Baked-on over REGULAR Furniture Finish Cold-Rolled Steel
 **CENTURY** An off-the-floor ceiling hung design for reduced floor maintenance.	✓	✓	
 **NORMANDIE** A floor-supported compartment with clean lines that accentuate ceiling height.	✓	✓	
 **ACADEMY** Overhead braced, it can be installed easily in buildings new or old.	✓	✓	✓

*(Treated with Bonderite, a product of Parker Rust Proof Co.)

Sanymetal® NOW OFFERS ALL OTHER MATERIALS AND FINISHES

Including:

VINYL COATED STEEL — the exciting new textured finish that creates utterly different decorative treatment of toilet rooms — see page 18.

STAINLESS STEEL

MYLAR COATED STEEL

MONEL METAL

HAMMERED SURFACE STEEL

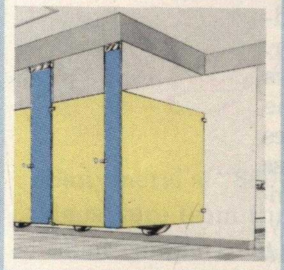
ALUMINUM

These can be furnished (as applicable) polished, natural finish, or colored, as you select for your installation.

Guide to information in this catalog

Due to design changes and availability of materials, and the development of new materials, the right is reserved to change materials, details of construction, and specifications.

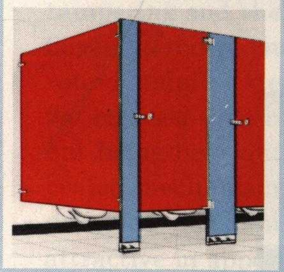
TOILET COMPARTMENTS



CENTURY type CEILING HUNG

Clear floor is easier to clean and maintain.

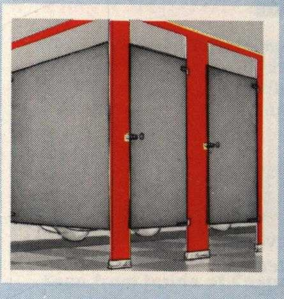
Illustration and details .... **page 6**
Specifications, Porcena & Baked Enamel .... **page 12**



NORMANDIE type FLOOR SUPPORTED

Appropriate if floor thickness permits installation of anchor bolts or concealed floor anchor plates.

Illustration and details .... **page 7**
Specifications, Porcena & Baked Enamel .... **page 13**



ACADEMY type OVERHEAD BRACED

Practical for any floor system.

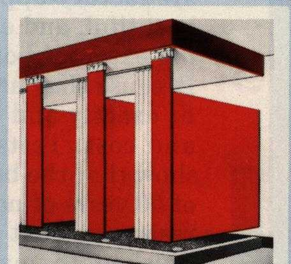
Illustration and details .... **page 8**
Specifications, Porcena & Baked Enamel .... **page 14**

JUNIOR HEIGHT PARTITIONS

Normandie design, scaled for children of elementary school age, permitting supervision.

Illustration and details .... **page 9**
Specifications, Porcena & Baked Enamel .... **page 13**

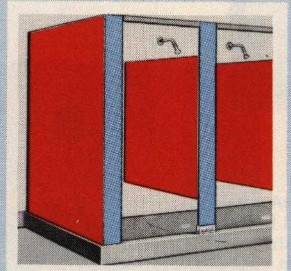
SHOWER COMPARTMENTS



CENTURY type CEILING HUNG

Suspended design reduces maintenance cost. (Base and curb to be furnished by others.)

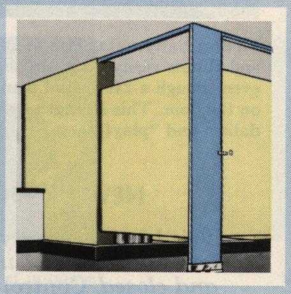
Illustration .... **page 27**
Construction details .... **page 6**
Specifications, Porcena & Baked Enamel .... **page 12**



ACADEMY type OVERHEAD BRACED

End panels and pilaster extend down to curb. (Curb to be furnished by others.)

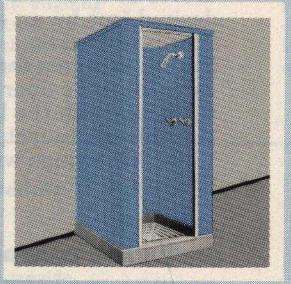
Illustration .... **page 27**
Construction details .... **page 8**
Specifications, Porcena & Baked Enamel .... **page 14**
Layout (SO88) .... **page 31**



ACADEMY type OVERHEAD BRACED
SHOWER AND DRESSING ROOM COMPARTMENTS

End shower panels extend down to curb. (Curb to be furnished by others.)

Illustration .... **page 27**
Construction details .... **page 8**
Specifications, Porcena & Baked Enamel .... **page 14**
Layout (ST88) .... **page 31**



SHOWERMASTER SHOWER CABINETS

NEW "PUSHBUTTON" ASSEMBLY makes Showermaster easy to install in closest quarters. For single or multiple units, each complete with back, sides, front, and receptor with integral drain.

Illustration, construction details & Specifications .... **page 26**
Layout (ST88) .... **page 31**

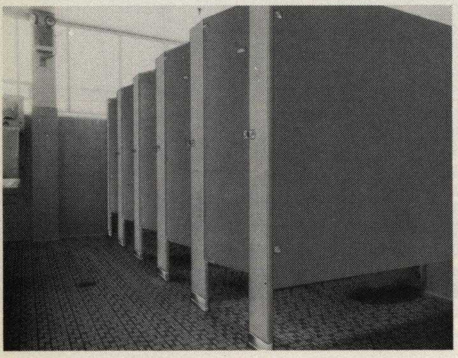
Other Contents

Page
URINAL SCREENS
Illustration & details 10
Specifications 16
HOSPITAL CUBICLES 28
OPEN SPECIFICATIONS 15
CHECKLIST OF CONSTRUCTION VALUE ESSENTIALS . . . 22
COLORS 20

Page
MATERIALS AND FINISHES . . 18
HARDWARE 21
CHECKLIST OF SANYMETAL EXCLUSIVE VALUES . . . 24
SANYMETAL ENGINEERING DETAILS 4, 19
HELPFUL SERVICES 29
LAYOUT DETAILS 30

(Copyright 1959, Sanymetal Products Co., Inc.)

New INTEGRAL FACTORY-APPLIED HINGE BRACKETS

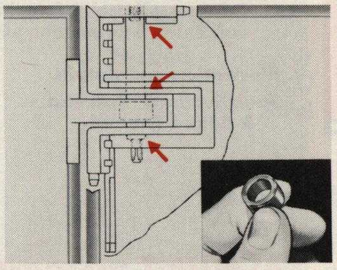


Beauty of Pilasters Increased by brackets which are integral, no hardware projects. Cleaning is easier, too.

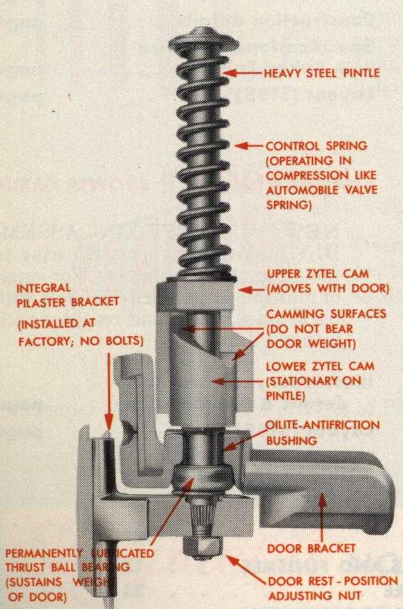
These new brackets are integral with the pilaster, and are factory-applied. They make compartments more beautiful, and easier to clean, by eliminating protruding external bolts and bracket parts on the pilaster. Because they are factory-applied, the brackets always fit exactly and they sharply reduce installation time and cost. Tests made by independent laboratories show that the brackets have a mechanical life in excess of 50 years of normal use. They are made of corrosion-resistant, heat treated high tensile aluminum alloy, finished to match the adjacent locking strip. *All Sanymetal Compartments are furnished with these new brackets.*

Quicker Installation because brackets are factory-applied. Alignment is always perfect, and there are no bolts to install.

Strong Sanymetal Hinge Brackets and Hinges easily maintain alignment even though a 240-pound man swings on the door. This strength defies vandalism and "playfulness."



Three-Point Support of top hinge (see arrows), develops the remarkable strength demonstrated at left. Hinge is bearingized and permanently lubricated.


HEAVY STEEL PINTLE
CONTROL SPRING (OPERATING IN COMPRESSION LIKE AUTOMOBILE VALVE SPRING)
UPPER ZYTEL CAM (MOVES WITH DOOR)
INTEGRAL PILASTER BRACKET (INSTALLED AT FACTORY; NO BOLTS)
CAMMING SURFACES (DO NOT BEAR DOOR WEIGHT)
LOWER ZYTEL CAM (STATIONARY ON PINTLE)
OILITE-ANTIFRICTION BUSHING
PERMANENTLY LUBRICATED THRUST BALL BEARING (SUSTAINS WEIGHT OF DOOR)
DOOR BRACKET
DOOR REST-POSITION ADJUSTING NUT

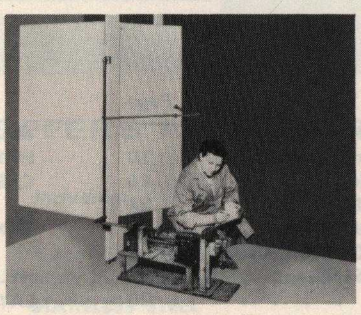
U. S. PAT. 2.876.874. CANAD. PAT. 581.353. OTHERS PEND.

INSIDE STORY *of "7950" Hinge shown in this picture with upper Zytel Cam and door bracket cutaway to show all moving parts.*

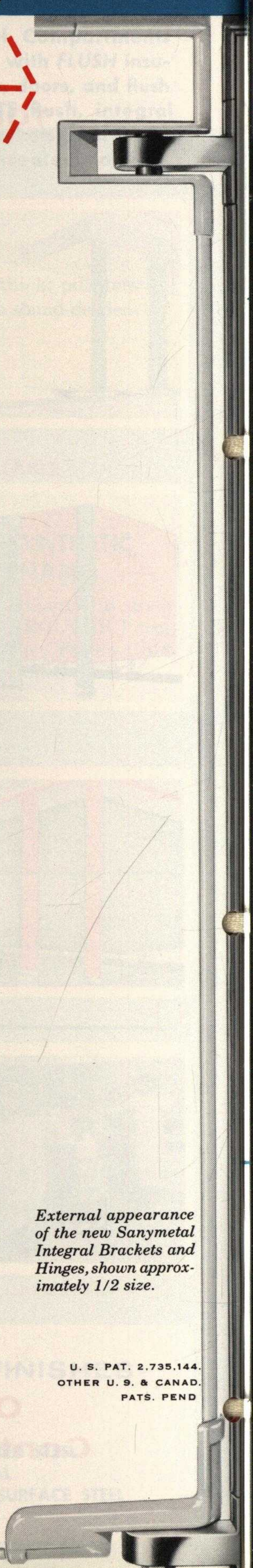
NEW "7950" CONCEALED BOTTOM HINGE

This hinge is wholly concealed in the door, and has the exclusive feature of *not causing the door to rise or lower when it is opened and closed.* Control is *not* dependent on door weight (a variable factor), but on a correctly designed spring, so the door always moves at a feather touch, always comes to rest at the point desired (set by an easy, quick adjustment). The weight of the door is carried on a thrust bearing, not on the control cams; this feature accounts for the long, trouble-free life of the unit. Zytel cams give the door the smoothest, quietest action, and endow the hinge with the longest life, obtainable from any material we have tested. In fact, this hinge has been tested on a door to over 1,000,000 swings without appreciable wear of any part! *Every Sanymetal Door is equipped with the Sanymetal "7950" Hinge.*

OPENED AND CLOSED OVER 1,000,000 TIMES – *no appreciable wear!*



To test the Sanymetal "7950" Hinge and new Integral Hinge Brackets, *an independent testing laboratory* chose a hinge at random from stock, mounted a standard Sanymetal door on the hinge in the regular way, and opened and closed the door over 1,000,000 times by mechanical means. (This is equal to 30 openings and closings per day for 91 years.) At the end of the test hinge and bracket parts were examined, and it was found that they had suffered no appreciable wear, and were in condition to continue functioning satisfactorily. The laboratory furnished affidavits to this effect.



External appearance of the new Sanymetal Integral Brackets and Hinges, shown approximately 1/2 size.

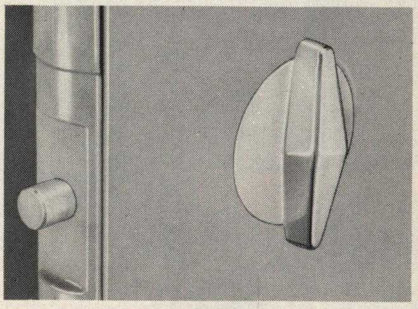
U. S. PAT. 2.735.144.
OTHER U. S. & CANAD. PATS. PEND

ENGINEERING ADVANCES...

The extra emphasis laid by Sanymetal on engineering, design, and selection of durable materials has resulted in a product unlike any other on the market. Note the greater beauty, lower installation cost, lower maintenance cost, and reduced long-run gross cost from Sanymetal compartments. These recent improvements are particularly important:

Sanymetal® "8800" Concealed Latch

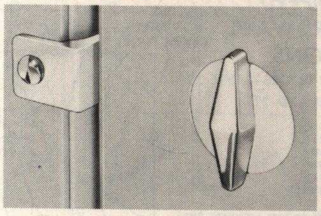
Sanymetal's "8800" Concealed Latch is a complete departure from the exposed slide-bolt hitherto used on toilet compartment doors. This new latch has no awkward external surfaces to collect grime. Its mechanism is completely concealed, making it fool-proof against tampering and theft. The smooth cam action works at finger-tip touch, and never requires lubrication. A heavy round stainless steel bolt is stronger than conventional flat exposed slide-bolts, to withstand terrific abuse without being bent out of line. Dirt can't get into the concealed mechanism to cause sticking. And like all well designed mechanisms, this latch and its keeper are attractive in appearance.



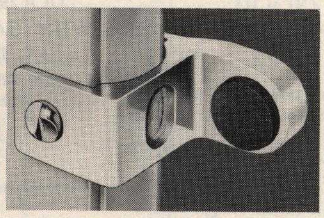
U. S. PAT. 2.876.873
CANAD. PAT. 581.354. OTHERS PEN

Concealed Latch Assembly — mechanism is concealed within the door, has mortised face plate, stainless steel bolt. Flush-mounted, finger-tip-control latch handle has back set of 2¾". Escutcheon and latch made forever theft-proof without the use of nuts or bolts.

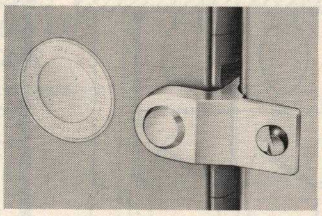
Every Sanymetal® door is fitted with the Sanymetal "8800" Latch.



Seen from Inside of Compartment —latch presents smooth flush lines and minimum projections. Latch handle operates with smooth cam action.



Keeper and Doorstop — of universal design, for in- or out-swinging, left or right doors. Keeper quickly applied with one theft-proof bolt, aligning positively without adjustment. Full ¾" rubber bumper held with concealed theft-proof device absorbs closing shock.



View from Outside of the Compartment — the attractive escutcheon plate is flush with the door. Exposed parts, made of strong non-ferrous castings heavily chrome-plated, will keep their beautiful lustre for the life of the compartment.

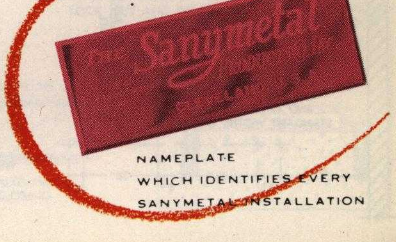
OTHER Sanymetal® ADVANCES in Engineering, Design, Materials

	Page
BRIDGECORE INSULATION adds to strength of doors, pilasters, panels, eliminates "lamination separation"	19
VINYL COATED STEEL brings new opportunities for warm, decorative effects	18
NEW COLORS in Sanymetal's palette of 22 colors for standard Porcelain Enamel and Baked Enamel finishes	20
"PORCENA" Porcelain Enamel pioneered by Sanymetal, and developed to offer the most in beauty, durability, economy	18
SANYMETAL Baked Enamel Finish, over Epon primer, to provide maximum durability in a synthetic enamel finish	18
DURABLE HARDWARE fabricated from 5 corrosion resistant, lasting materials	19
12 EXCLUSIVE FEATURES — a checklist of design refinements you get only from Sanymetal	24

IDENTIFIED QUALITY

The Sanymetal nameplate is a golden-hued label assuring you of Sanymetal quality.

LOOK FOR THIS

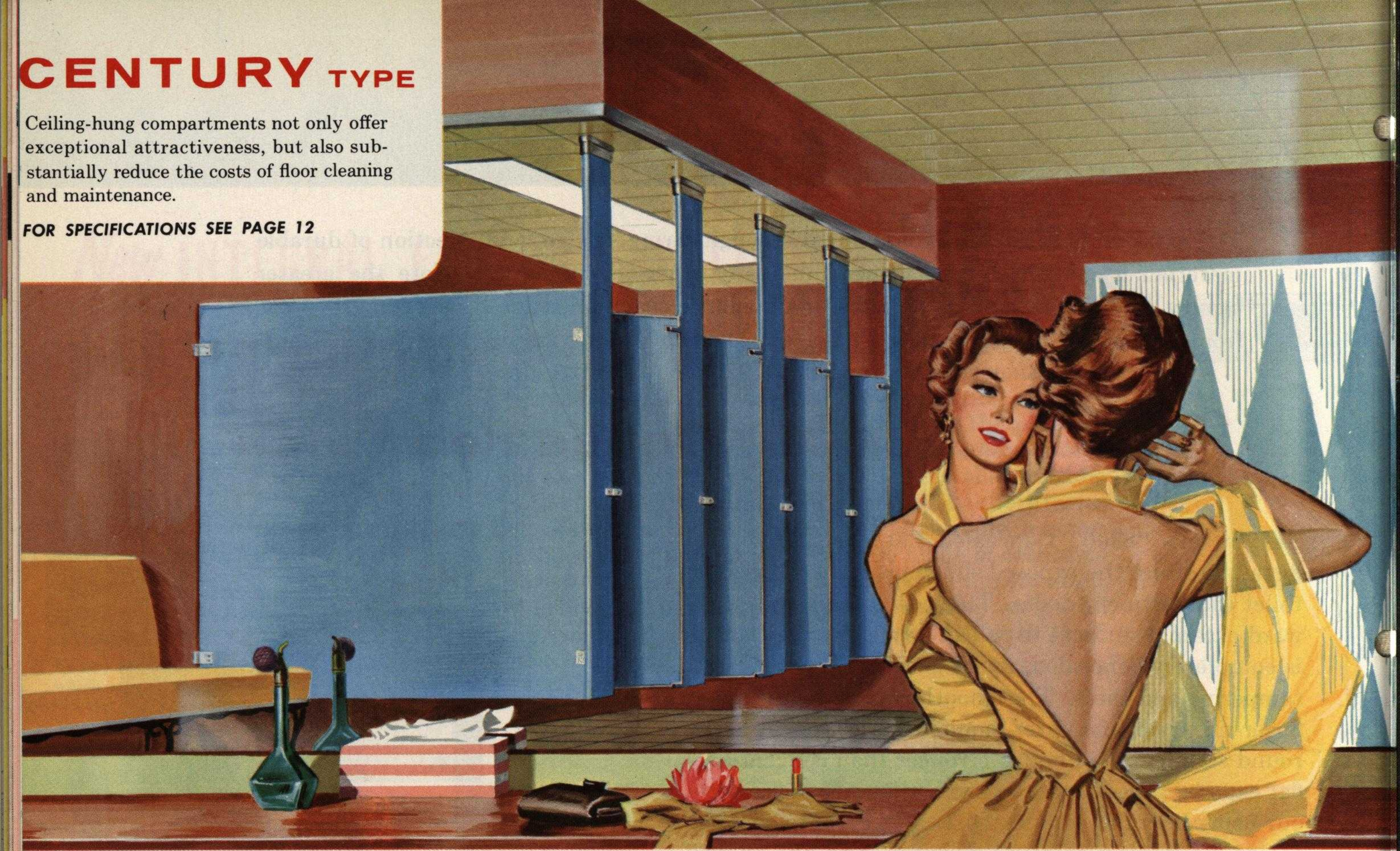


NAMEPLATE
WHICH IDENTIFIES EVERY
SANYMETAL INSTALLATION

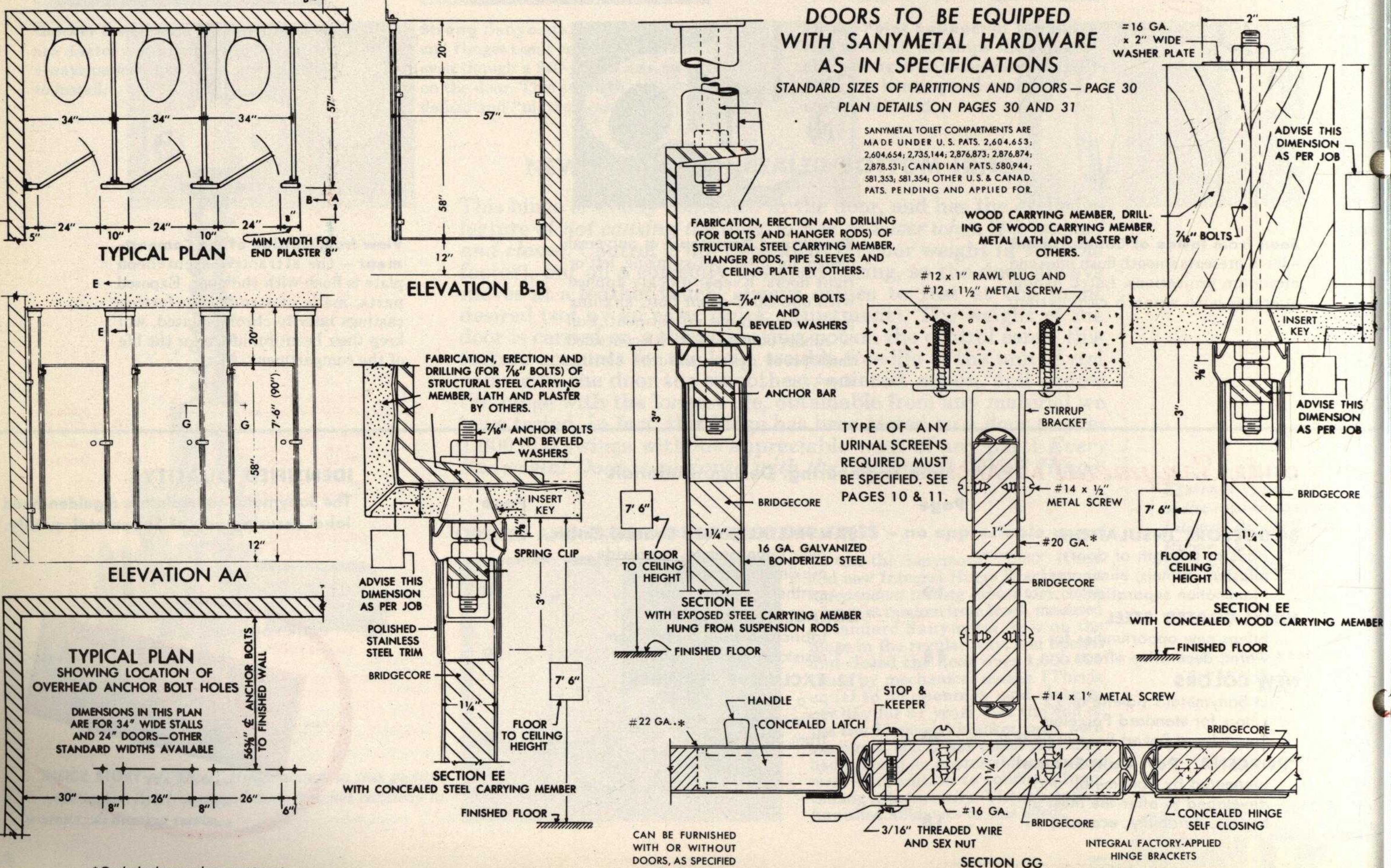
CENTURY TYPE

Ceiling-hung compartments not only offer exceptional attractiveness, but also substantially reduce the costs of floor cleaning and maintenance.

FOR SPECIFICATIONS SEE PAGE 12



Construction Details • Sanymetal Century Type (Ceiling Hung)


B
34″
34″
34″
57″
A
24″
10″
24″
10″
24″
8″
5″
MIN. WIDTH FOR END PLASTER 8″
TYPICAL PLAN
20″
57″
58″
12″
ELEVATION B-B
E
20″
7′-6″ (90″)
G
G
58″
12″
ELEVATION AA
TYPICAL PLAN
SHOWING LOCATION OF OVERHEAD ANCHOR BOLT HOLES
DIMENSIONS IN THIS PLAN ARE FOR 34″ WIDE STALLS AND 24″ DOORS—OTHER STANDARD WIDTHS AVAILABLE
56⅜″ ℄ ANCHOR BOLTS TO FINISHED WALL
30″
8″
26″
8″
26″
6″
FABRICATION, ERECTION AND DRILLING (FOR 7⁄16″ BOLTS) OF STRUCTURAL STEEL CARRYING MEMBER, LATH AND PLASTER BY OTHERS.
7⁄16″ ANCHOR BOLTS AND BEVELED WASHERS
INSERT KEY
⅜″
SPRING CLIP
ADVISE THIS DIMENSION AS PER JOB
3″
POLISHED STAINLESS STEEL TRIM
BRIDGECORE
7′ 6″
1¼″
FLOOR TO CEILING HEIGHT
SECTION EE
WITH CONCEALED STEEL CARRYING MEMBER
FINISHED FLOOR
FABRICATION, ERECTION AND DRILLING (FOR BOLTS AND HANGER RODS) OF STRUCTURAL STEEL CARRYING MEMBER, HANGER RODS, PIPE SLEEVES AND CEILING PLATE BY OTHERS.
7⁄16″ ANCHOR BOLTS AND BEVELED WASHERS
ANCHOR BAR
3″
7′ 6″
BRIDGECORE
1¼″
16 GA. GALVANIZED BONDERIZED STEEL
FLOOR TO CEILING HEIGHT
SECTION EE
WITH EXPOSED STEEL CARRYING MEMBER HUNG FROM SUSPENSION RODS
FINISHED FLOOR
#12 x 1″ RAWL PLUG AND #12 x 1½″ METAL SCREW
STIRRUP BRACKET
#14 x ½″ METAL SCREW
1″
#20 GA.*
BRIDGECORE
#16 GA.
x 2″ WIDE WASHER PLATE
2″
WOOD CARRYING MEMBER, DRILLING OF WOOD CARRYING MEMBER, METAL LATH AND PLASTER BY OTHERS.
ADVISE THIS DIMENSION AS PER JOB
7⁄16″ BOLTS
INSERT KEY
⅜″
3″
ADVISE THIS DIMENSION AS PER JOB
7′ 6″
BRIDGECORE
1¼″
FLOOR TO CEILING HEIGHT
SECTION EE
WITH CONCEALED WOOD CARRYING MEMBER
FINISHED FLOOR
HANDLE
STOP & KEEPER
#14 x 1″ METAL SCREW
#22 GA.*
CONCEALED LATCH
BRIDGECORE
1¼″
#16 GA.
3/16″ THREADED WIRE AND SEX NUT
BRIDGECORE
CONCEALED HINGE SELF CLOSING
INTEGRAL FACTORY-APPLIED HINGE BRACKETS
SECTION GG

DOORS TO BE EQUIPPED WITH SANYMETAL HARDWARE AS IN SPECIFICATIONS

STANDARD SIZES OF PARTITIONS AND DOORS — PAGE 30

PLAN DETAILS ON PAGES 30 AND 31

SANYMETAL TOILET COMPARTMENTS ARE MADE UNDER U. S. PATS. 2,604,653; 2,604,654; 2,735,144; 2,876,873; 2,876,874; 2,878,531; CANADIAN PATS. 580,944; 581,353; 581,354; OTHER U. S. & CANAD. PATS. PENDING AND APPLIED FOR.

TYPE OF ANY URINAL SCREENS REQUIRED MUST BE SPECIFIED. SEE PAGES 10 & 11.

CAN BE FURNISHED WITH OR WITHOUT DOORS, AS SPECIFIED

---

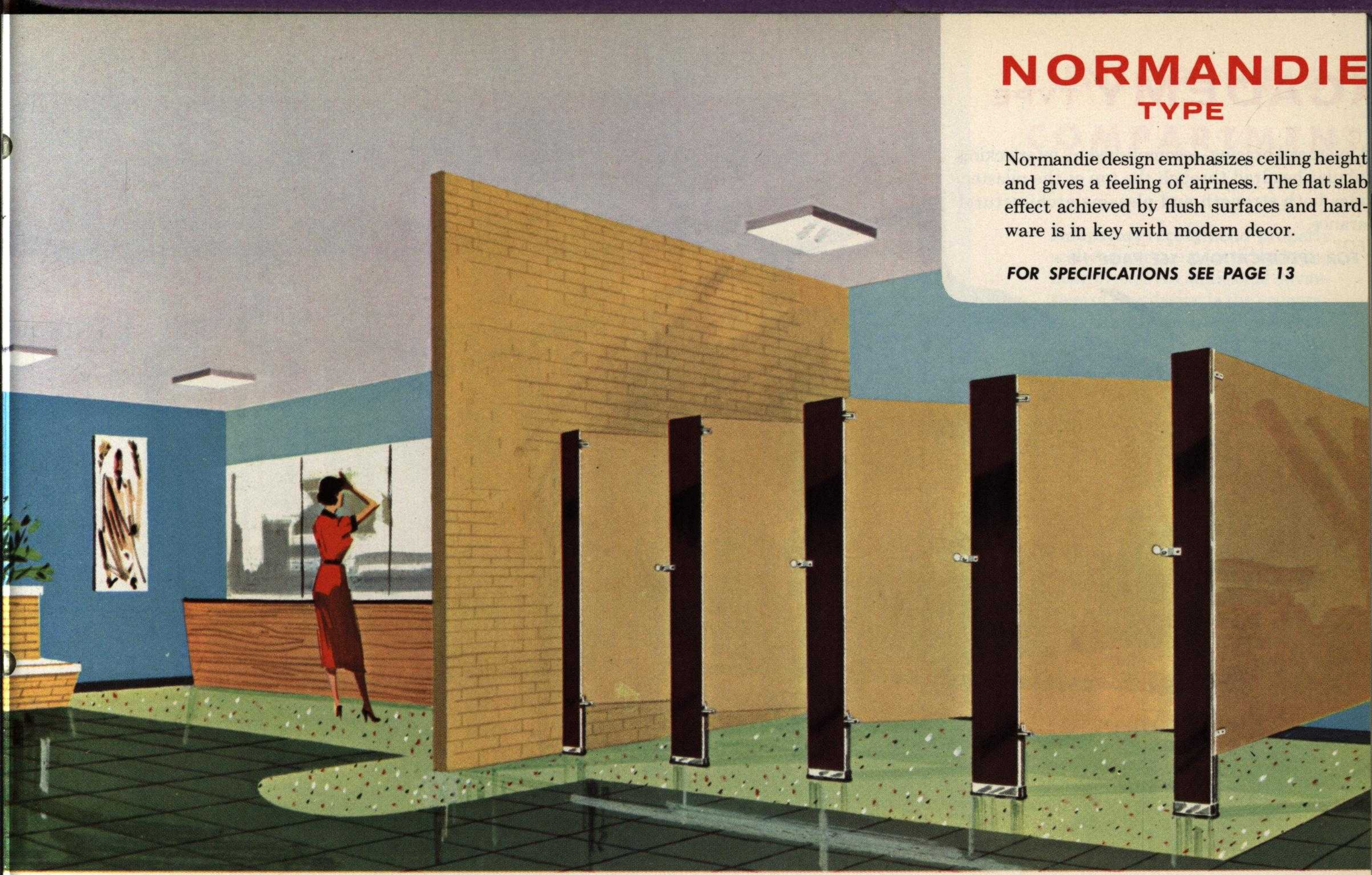
*On baked-enamel compartments

FOR SPECIFICATIONS SEE PAGE 12

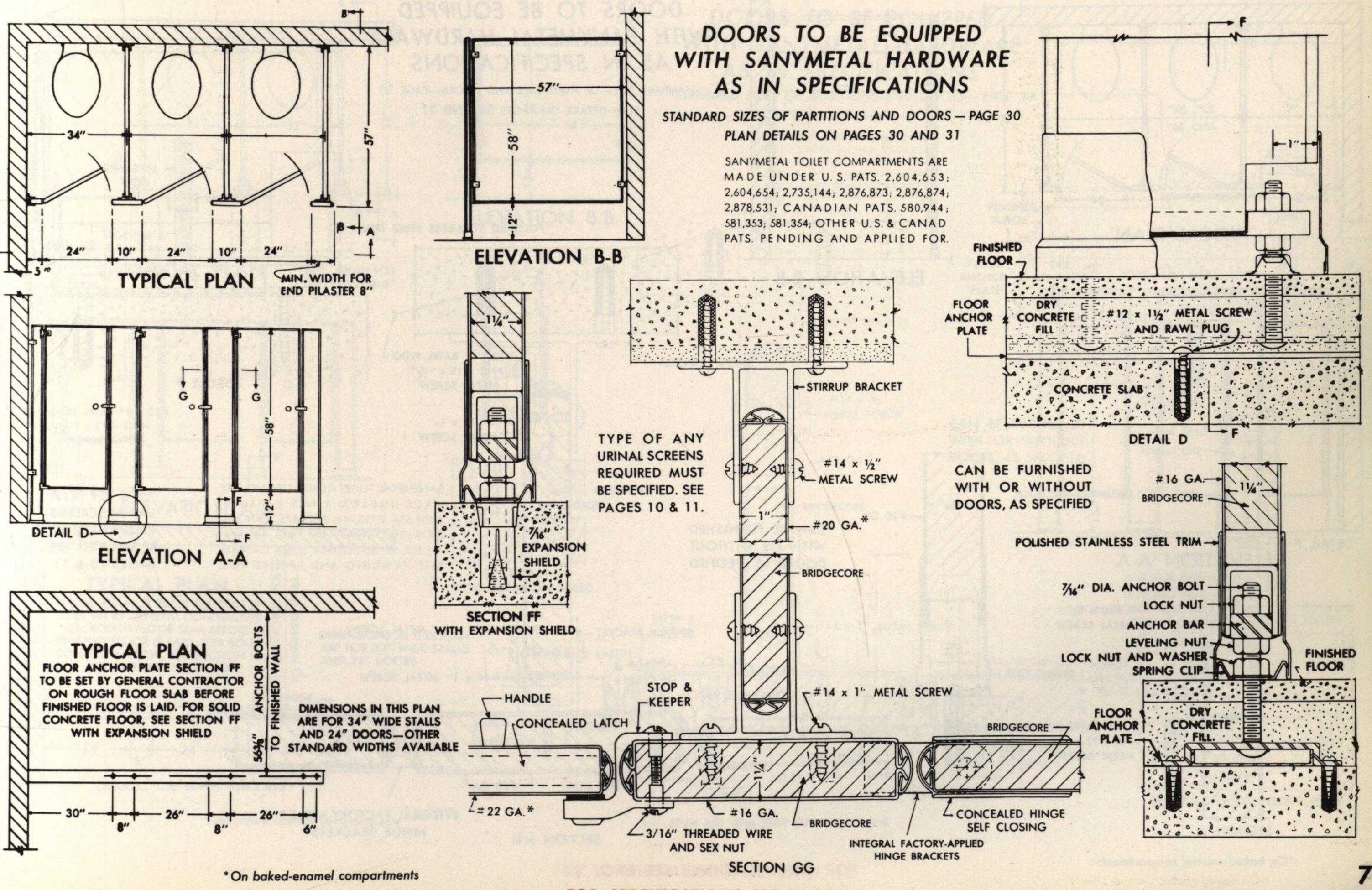
NORMANDIE
TYPE

Normandie design emphasizes ceiling height and gives a feeling of airiness. The flat slab effect achieved by flush surfaces and hardware is in key with modern decor.

FOR SPECIFICATIONS SEE PAGE 13



Construction Details • Sanymetal Normandie Type *(Floor Supported)*


B
34"
57"
24"
10"
24"
10"
24"
B
A
5"
MIN. WIDTH FOR END PILASTER 8"
57"
58"
12"
G
G
58"
12"
F
F
DETAIL D
1¼"
7/16" EXPANSION SHIELD
STIRRUP BRACKET
#14 x ½" METAL SCREW
1"
#20 GA.*
BRIDGECORE
HANDLE
CONCEALED LATCH
STOP & KEEPER
#14 x 1" METAL SCREW
BRIDGECORE
1¼"
#22 GA.*
#16 GA.
3/16" THREADED WIRE AND SEX NUT
BRIDGECORE
INTEGRAL FACTORY-APPLIED HINGE BRACKETS
CONCEALED HINGE SELF CLOSING
56⅜" ANCHOR BOLTS TO FINISHED WALL
30"
8"
26"
8"
26"
6"
F
1"
FINISHED FLOOR
FLOOR ANCHOR PLATE
DRY CONCRETE FILL
#12 x 1½" METAL SCREW AND RAWL PLUG
CONCRETE SLAB
F
#16 GA.
BRIDGECORE
1¼"
POLISHED STAINLESS STEEL TRIM
7/16" DIA. ANCHOR BOLT
LOCK NUT
ANCHOR BAR
LEVELING NUT
LOCK NUT AND WASHER
SPRING CLIP
FINISHED FLOOR
FLOOR ANCHOR PLATE
DRY CONCRETE FILL

TYPICAL PLAN

ELEVATION B-B

ELEVATION A-A

DOORS TO BE EQUIPPED WITH SANYMETAL HARDWARE AS IN SPECIFICATIONS

STANDARD SIZES OF PARTITIONS AND DOORS — PAGE 30
PLAN DETAILS ON PAGES 30 AND 31

SANYMETAL TOILET COMPARTMENTS ARE MADE UNDER U. S. PATS. 2,604,653; 2,604,654; 2,735,144; 2,876,873; 2,876,874; 2,878,531; CANADIAN PATS. 580,944; 581,353; 581,354; OTHER U.S. & CANAD PATS. PENDING AND APPLIED FOR.

TYPE OF ANY URINAL SCREENS REQUIRED MUST BE SPECIFIED. SEE PAGES 10 & 11.

SECTION FF
WITH EXPANSION SHIELD

DETAIL D

CAN BE FURNISHED WITH OR WITHOUT DOORS, AS SPECIFIED

TYPICAL PLAN
FLOOR ANCHOR PLATE SECTION FF TO BE SET BY GENERAL CONTRACTOR ON ROUGH FLOOR SLAB BEFORE FINISHED FLOOR IS LAID. FOR SOLID CONCRETE FLOOR, SEE SECTION FF WITH EXPANSION SHIELD

DIMENSIONS IN THIS PLAN ARE FOR 34" WIDE STALLS AND 24" DOORS—OTHER STANDARD WIDTHS AVAILABLE

SECTION GG

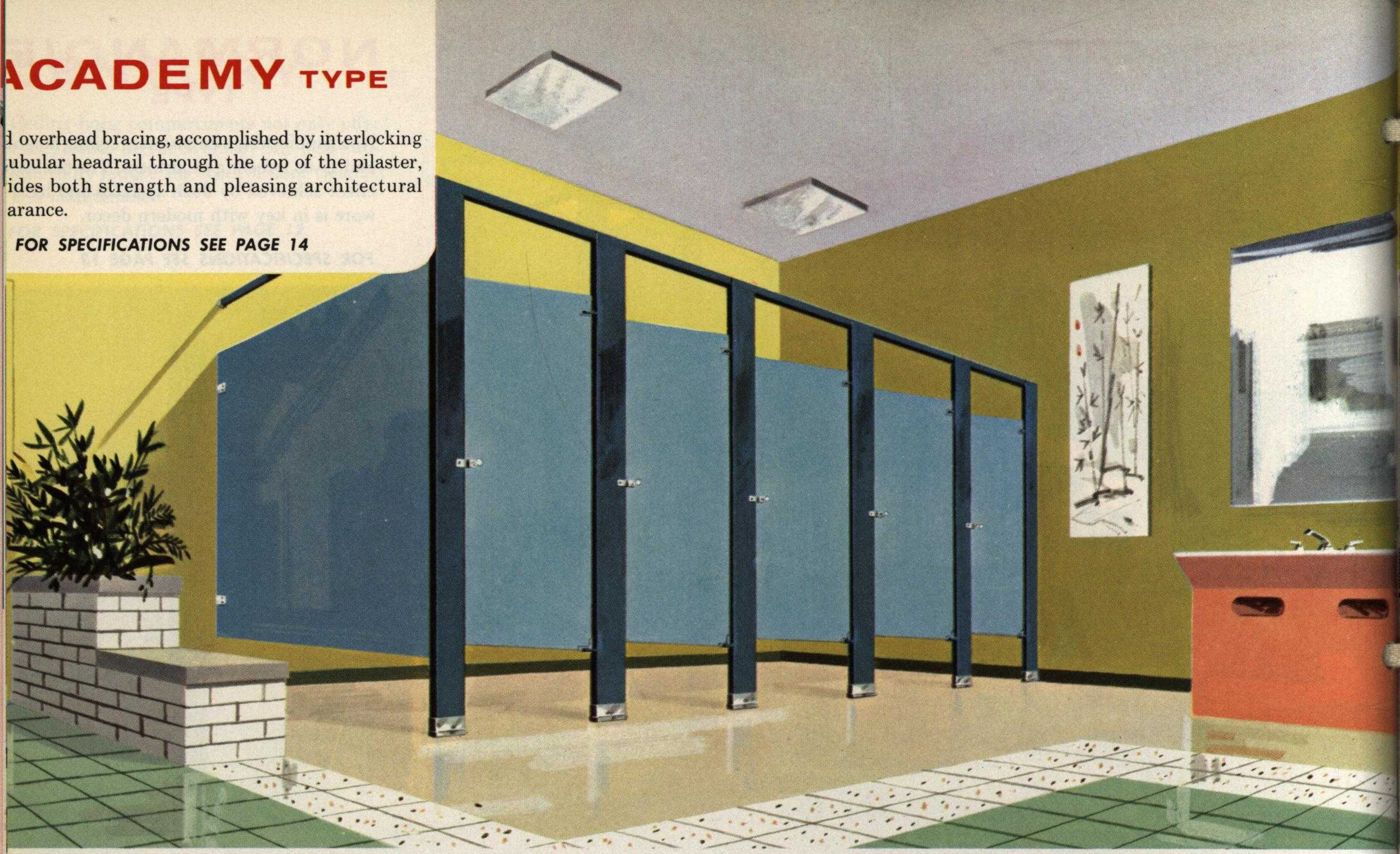
*On baked-enamel compartments

FOR SPECIFICATIONS SEE PAGE 13

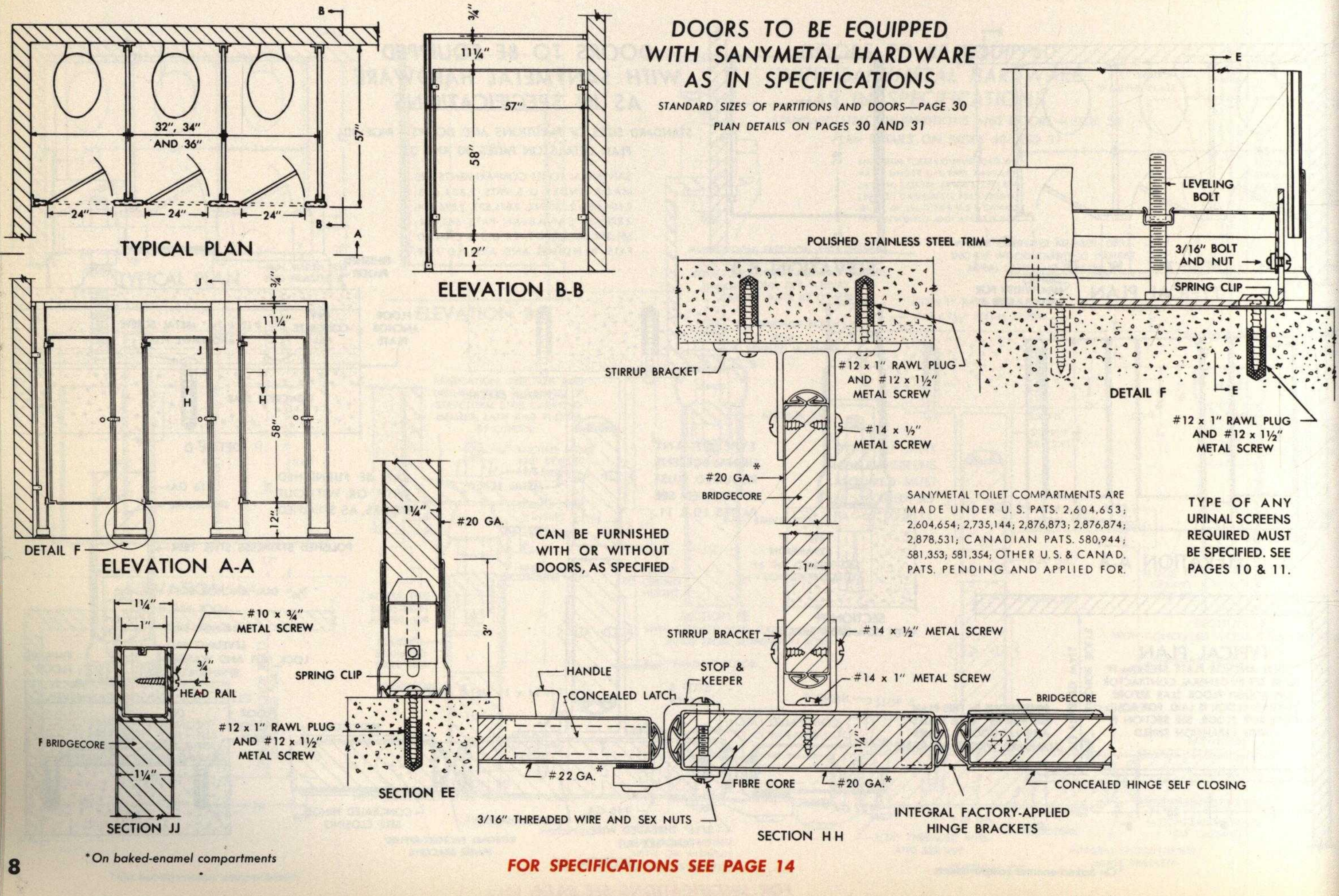
ACADEMY TYPE

d overhead bracing, accomplished by interlocking ubular headrail through the top of the pilaster, ides both strength and pleasing architectural arance.

FOR SPECIFICATIONS SEE PAGE 14



Construction Details • Sanymetal Academy Type (Overhead Braced)



B
32", 34" AND 36"
57"
24"
24"
24"
A
TYPICAL PLAN
¾"
11¼"
57"
58"
12"
ELEVATION B-B
J
¾"
11¼"
J
H
H
58"
12"
DETAIL F
ELEVATION A-A
1¼"
1"
#10 x ¾" METAL SCREW
¾"
HEAD RAIL
F BRIDGECORE
1¼"
SECTION JJ
1¼"
#20 GA.
3"
SPRING CLIP
#12 x 1" RAWL PLUG AND #12 x 1½" METAL SCREW
SECTION EE
HANDLE
CONCEALED LATCH
STOP & KEEPER
#22 GA.*
3/16" THREADED WIRE AND SEX NUTS
POLISHED STAINLESS STEEL TRIM
STIRRUP BRACKET
#12 x 1" RAWL PLUG AND #12 x 1½" METAL SCREW
#14 x ½" METAL SCREW
#20 GA.*
BRIDGECORE
1"
STIRRUP BRACKET
#14 x ½" METAL SCREW
#14 x 1" METAL SCREW
1¼"
FIBRE CORE
#20 GA.*
BRIDGECORE
CONCEALED HINGE SELF CLOSING
INTEGRAL FACTORY-APPLIED HINGE BRACKETS
SECTION HH
E
LEVELING BOLT
3/16" BOLT AND NUT
SPRING CLIP
E
DETAIL F
#12 x 1" RAWL PLUG AND #12 x 1½" METAL SCREW

DOORS TO BE EQUIPPED WITH SANYMETAL HARDWARE AS IN SPECIFICATIONS

STANDARD SIZES OF PARTITIONS AND DOORS—PAGE 30
PLAN DETAILS ON PAGES 30 AND 31

CAN BE FURNISHED WITH OR WITHOUT DOORS, AS SPECIFIED

SANYMETAL TOILET COMPARTMENTS ARE MADE UNDER U. S. PATS. 2,604,653; 2,604,654; 2,735,144; 2,876,873; 2,876,874; 2,878,531; CANADIAN PATS. 580,944; 581,353; 581,354; OTHER U.S. & CANAD. PATS. PENDING AND APPLIED FOR.

TYPE OF ANY URINAL SCREENS REQUIRED MUST BE SPECIFIED. SEE PAGES 10 & 11.

**On baked-enamel compartments*

FOR SPECIFICATIONS SEE PAGE 14

JUNIOR-HEIGH COMPARTMENT

Educators recommend properly scaled equipment for schools and institutions. An additional advantage of this design is the economy resulting from lower material, shipping, and handling costs, due to smaller size. Sanymetal Junior-Height Compartments are the same as the Normandie Type in quality and every other respect except dimensions. Panels and doors are at maximum 42″ high, set 12″ off the floor to produce a maximum overall height of 54″. These dimensions are in proportion to children up to the age of 12. Low overall height permits proper observation by supervisors, while affording child privacy from other children.

FOR SPECIFICATIONS SEE PAGE 13

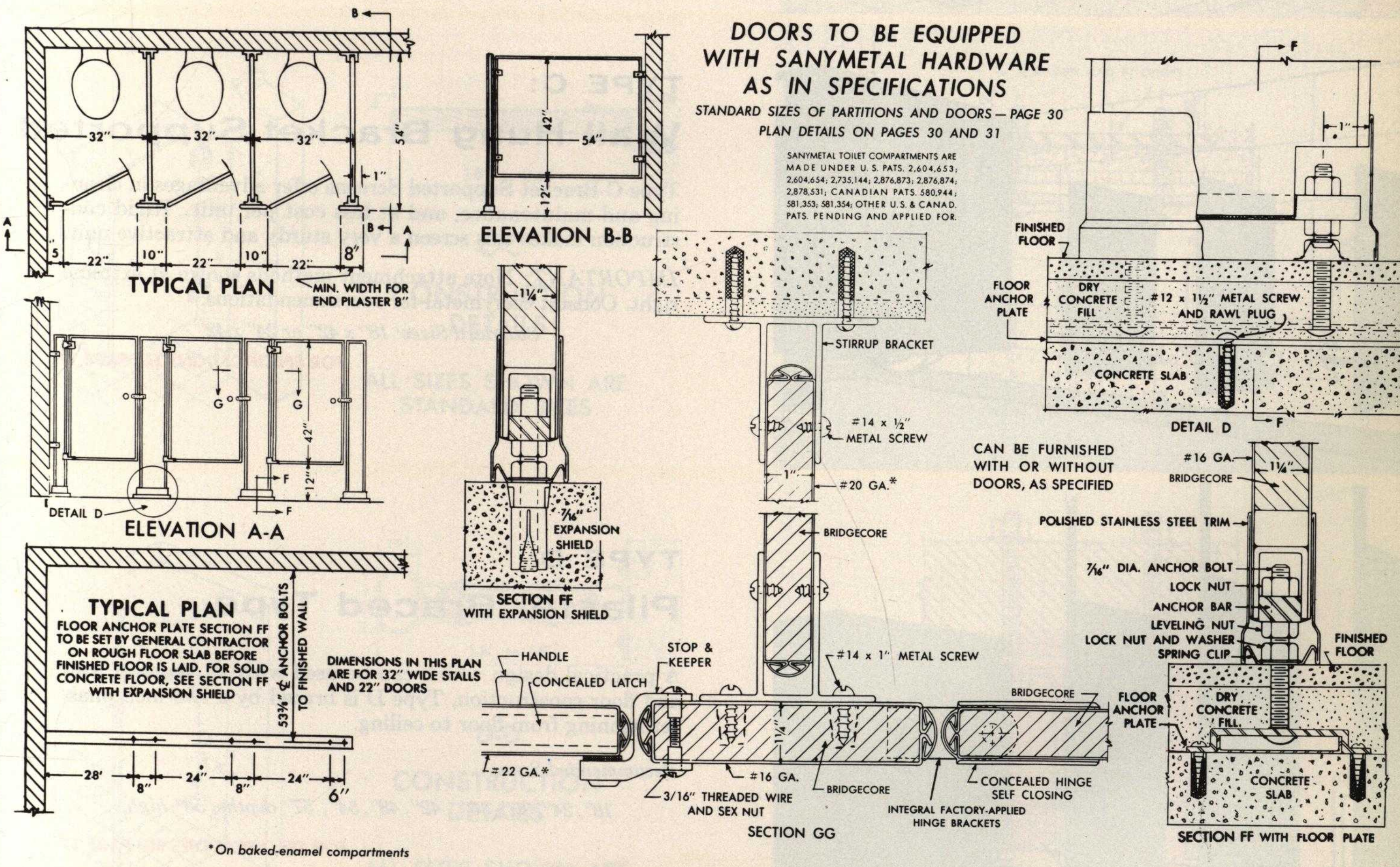
(Recommended sizes of stall: Width 32″. Overall height, 54″ with 42″ high panel 12″ off the floor. Depth, 54″. Door width, 22″)

Construction Details • Sanymetal Junior-Height Compartments

DOORS TO BE EQUIPPED WITH SANYMETAL HARDWARE AS IN SPECIFICATIONS

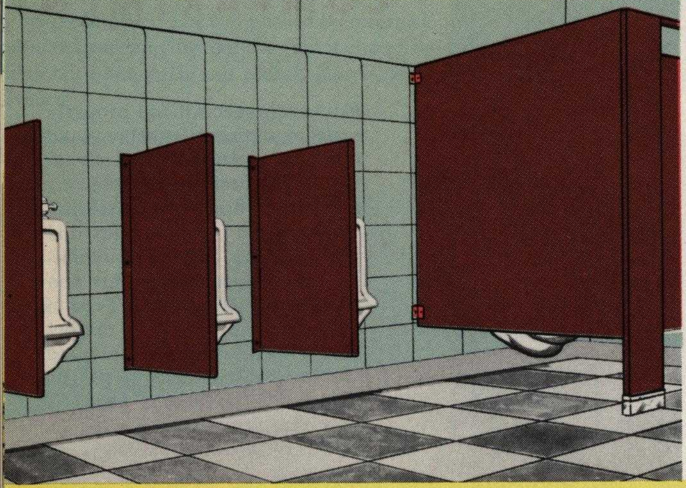
STANDARD SIZES OF PARTITIONS AND DOORS — PAGE 30
PLAN DETAILS ON PAGES 30 AND 31

SANYMETAL TOILET COMPARTMENTS ARE MADE UNDER U. S. PATS. 2,604,653; 2,604,654; 2,735,144; 2,876,873; 2,876,874; 2,878,531; CANADIAN PATS. 580,944; 581,353; 581,354; OTHER U.S. & CANAD. PATS. PENDING AND APPLIED FOR.


TYPICAL PLAN
B
A
32″
32″
32″
54″
1″
5
22″
10″
22″
10″
22″
8″
MIN. WIDTH FOR END PILASTER 8″
ELEVATION B-B
42″
54″
12″
ELEVATION A-A
G
G
42″
12″
F
F
DETAIL D
TYPICAL PLAN
FLOOR ANCHOR PLATE SECTION FF TO BE SET BY GENERAL CONTRACTOR ON ROUGH FLOOR SLAB BEFORE FINISHED FLOOR IS LAID. FOR SOLID CONCRETE FLOOR, SEE SECTION FF WITH EXPANSION SHIELD
53¾″ ℄ ANCHOR BOLTS TO FINISHED WALL
DIMENSIONS IN THIS PLAN ARE FOR 32″ WIDE STALLS AND 22″ DOORS
28′
8″
24″
8″
24″
6″
1¼″
7/16″
EXPANSION SHIELD
SECTION FF WITH EXPANSION SHIELD
STIRRUP BRACKET
#14 x ½″ METAL SCREW
1″
#20 GA.*
BRIDGECORE
#14 x 1″ METAL SCREW
HANDLE
CONCEALED LATCH
STOP & KEEPER
#22 GA.*
1¼″
#16 GA.
3/16″ THREADED WIRE AND SEX NUT
BRIDGECORE
BRIDGECORE
CONCEALED HINGE SELF CLOSING
INTEGRAL FACTORY-APPLIED HINGE BRACKETS
SECTION GG
CAN BE FURNISHED WITH OR WITHOUT DOORS, AS SPECIFIED
F
1″
FINISHED FLOOR
FLOOR ANCHOR PLATE
DRY CONCRETE FILL
#12 x 1½″ METAL SCREW AND RAWL PLUG
CONCRETE SLAB
DETAIL D
F
#16 GA.
BRIDGECORE
1¼″
POLISHED STAINLESS STEEL TRIM
7/16″ DIA. ANCHOR BOLT
LOCK NUT
ANCHOR BAR
LEVELING NUT
LOCK NUT AND WASHER
SPRING CLIP
FINISHED FLOOR
FLOOR ANCHOR PLATE
DRY CONCRETE FILL
CONCRETE SLAB
SECTION FF WITH FLOOR PLATE

*On baked-enamel compartments

FOR SPECIFICATIONS SEE PAGE 13



TYPE A:

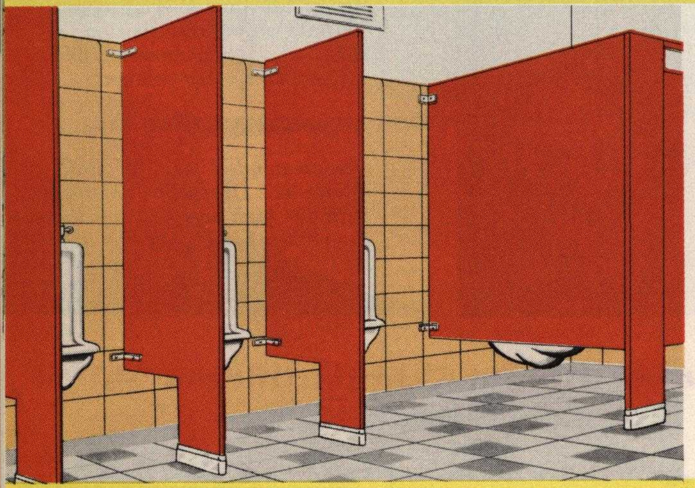
Wall Hung Flush Type

Sanymetal Wall Hung Urinal Screens are off the floor, saving time and expense for floor cleaning. They make thorough sanitation easier. For these reasons wall hung construction is always desirable, and *should be used* with off-the-floor compartments and fixtures. The flush panel, with integral flanges for attachment, is neat, simple, durable and attractive.

IMPORTANT: This screen must have secure anchorage to masonry wall, or to other types of walls adequately reinforced. See details at right. Consult Sanymetal for recommendations.

Standard Sizes: 18″ x 42″ or 24″ x 42″

FOR SPECIFICATIONS SEE PAGE 16



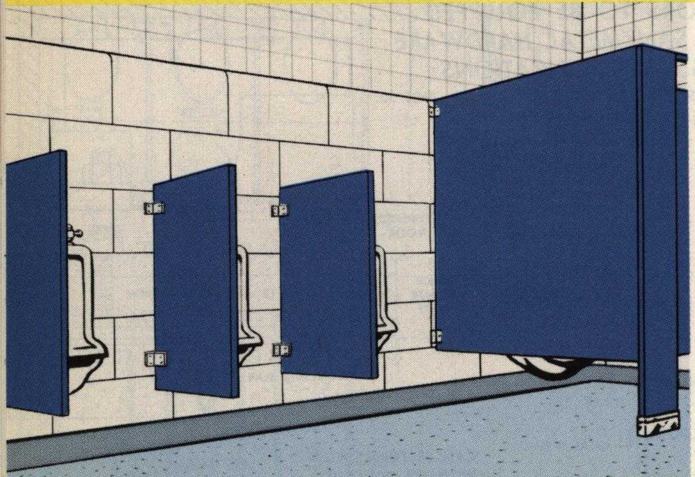
TYPE B:

Floor Supported Flush Type

Patterned to provide a "flat slab" appearance, with extra floor support to eliminate all overhead bracing. Heavy duty wall bracket attachments permit screen of maximum rigidity up to 36″ in depth.

IMPORTANT: This screen must have secure anchorage both to masonry wall and to floor, or with other types of construction adequate reinforcing must be provided to give secure anchorage. See details below. Consult Sanymetal for recommendations.

FOR SPECIFICATIONS SEE PAGE 16



TYPE C:

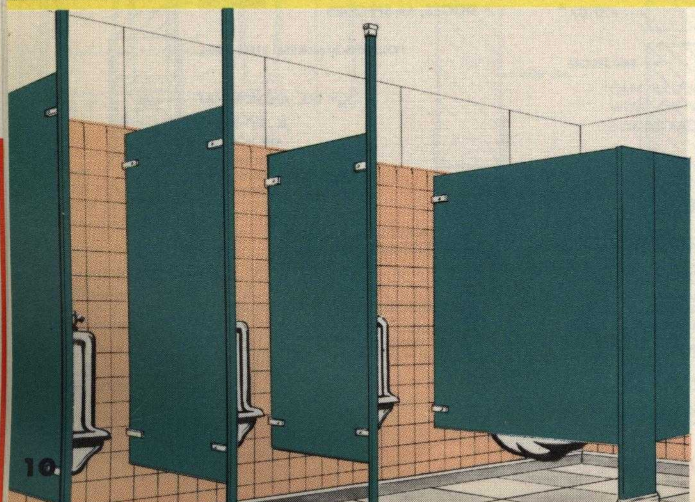
Wall Hung Bracket Supported

Type C Bracket Supported Screens offer advantages in cleaning and maintenance, and at less cost per unit. Rigid construction makes this screen a very sturdy and attractive unit.

IMPORTANT: Note attachment methods shown at extreme right. Consult Sanymetal for recommendations.

Standard Sizes: 18″ x 42″ or 24″ x 42″

FOR SPECIFICATIONS SEE PAGE 17



TYPE D:

Pilaster Braced Type

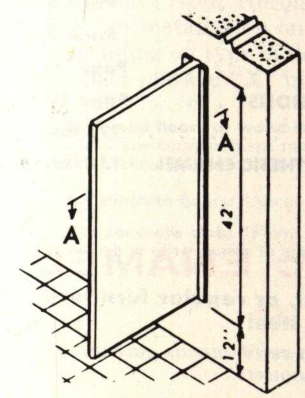
A practical design which can be used with all types of wall and floor construction, Type D is braced by a two-inch pilaster running from floor to ceiling.

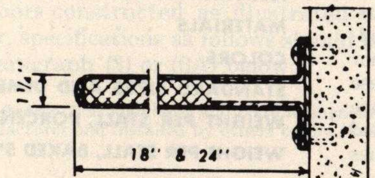
Recommended Sizes:

18″, 24″, 30″, 36″, 42″, 48″, 54″, 57″ depths; 58″ high.

FOR SPECIFICATIONS SEE PAGE 17

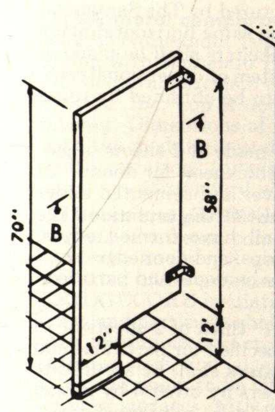
REQUIRED DETAILS FOR RIGID ATTACHMENT OF SCREENS TO VARIOUS TYPES OF WALLS

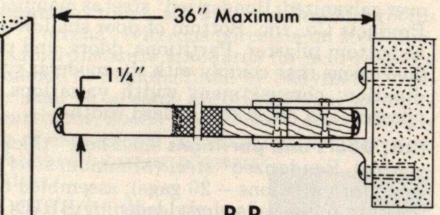




A-A CONSTRUCTION DETAILS

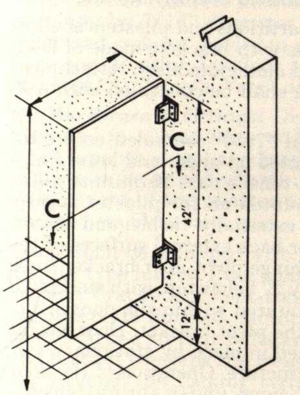
ALL SIZES SHOWN ARE STANDARD SIZES.

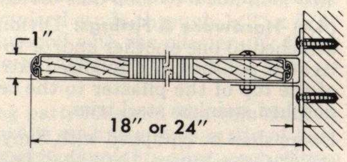

B
B
70"
58"
12"
12"


36" Maximum
1¼"

B-B CONSTRUCTION DETAILS

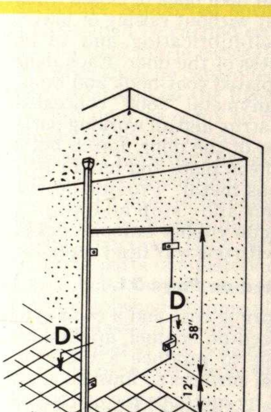
ALL SIZES SHOWN ARE STANDARD SIZES.

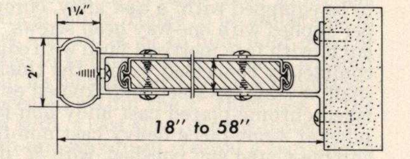




C-C CONSTRUCTION DETAILS

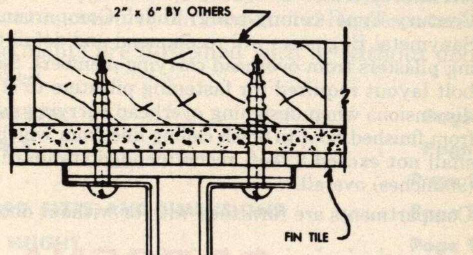
ALL SIZES SHOWN ARE STANDARD SIZES



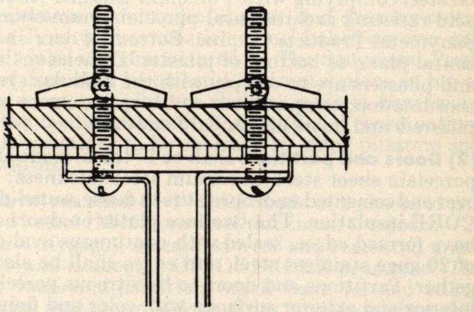


D-D CONSTRUCTION DETAILS

ALL SIZES SHOWN ARE STANDARD SIZES

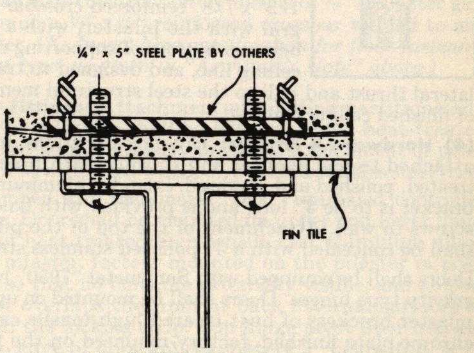

2" x 6" BY OTHERS
FIN TILE

2" x 6" WOOD BACKING
WITH #14 x 2½" R.H. WOOD SCREWS
WOOD REINFORCING FOR
STUD & PLASTER WALL

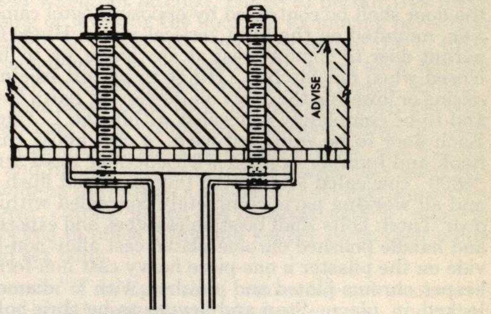


⅜"—#16 x 4" R.H. TOGGLE BOLTS

TOGGLE: FOR HOLLOW WALLS


¼" x 5" STEEL PLATE BY OTHERS
FIN TILE

¼" x 5" STEEL PLATE BACKING
WITH ⅜" #16 x 2" R.H. MACH. SCREWS
STEEL REINFORCING FOR
METAL LATH & PLASTER WALL



⅜"—#16 THREADED WIRE & CAP NUTS
ADVISE LENGTH OF THREADED WIRE REQUIRED

THRU-BOLTING METHOD

SPECIFICATIONS

CENTURY TYPE Ceiling Hung

Architect's Note: Overhead structural provisions for suspending pilasters of Century Type (ceiling-hung) Toilet Compartments are provided by others. Sanymetal Engineers will recommend and detail the proper means for suspending pilasters from overhead carrying members. Sanymetal furnishes the anchor bolt layout required for fastening pilasters to structural members. Use these dimensions when designing overhead carrying member construction: Distance from finished floor to finish ceiling line from which pilasters are to be suspended shall not exceed 8 feet; recommended standard dimension is 7 feet, 6 inches (90 inches) overall.

Compartments are furnished with or without doors, as specified.

ILLUSTRATION	**Page 6**
MATERIALS	**Page 2**
COLORS	**Page 20**
STANDARD SIZES AND DIMENSIONS	**Page 30**
WEIGHT PER STALL, PORCENA	**225 lbs.**
WEIGHT PER STALL, BAKED SYNTHETIC ENAMEL	**150 lbs.**

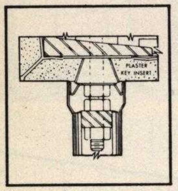
PORCENA

Vitreous Porcelain Enamel on Steel

SPECIFICATIONS

(1) All metal compartments for toilet, shower, and dressing rooms shall be Century Type (ceiling-hung) "Porcena" (vitreous porcelain on steel complying with Porcelain Enamel Institute standards for acid-resisting architectural porcelain enamel) as manufactured by Sanymetal Products Co., Inc. Bottom of door shall be on same horizontal plane as bottom of pilaster. Dimensions of partitions, doors, and pilasters are to comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters and doors of standard widths.

(2) Doors and partitions shall be 1″ thick, made of 2 sheets of vitreous porcelain sheet steel (minimum steel thickness: 18 gage) assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips of 20 gage stainless steel, and edges shall be electrically welded together. Partitions and doors to be vitreous porcelain enameled on all interior and exterior surfaces, with color and finish coats of porcelain on exterior surfaces only.



(3) Suspended pilasters shall be 1-1/4″ thick of 2 sheets of vitreous porcelain 18 gage sheet steel welded together. Pilasters shall be secured to overhead carrying member (overhead members by others) by 7/16″ diameter galvanized bolts through 1/2″ x 7/8″ reinforced crossbar welded to and integral with the pilaster, with a plaster key spacer between bottom of supporting member and finished ceiling line, and designed to transmit the strain of lateral thrust and pull to the steel structural members independently of finished ceiling material.

(4) Hardware & Fittings: Dividing partitions and pilasters shall be attached to one another and to walls with brackets made of heat-treated, polished and anodized, extruded aluminum alloy; each stirrup bracket is to be 3″ long and is provided with holes for 4 attachment screws to wall. Attachment of the top of the pilaster to the ceiling shall be concealed with a 3″ polished stainless steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Doors shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, chrome-plate finished, factory-mounted on the pilaster in position, and designed so that no bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door; all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screw; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, and all working parts completely concealed within thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

Hardware and Fittings illustrated on Page 21. End of Specifications for Century Porcena Compartment.

BAKED Synthetic ENAMEL

on Galvanized, Bonderized* Steel, or regular furniture finish cold-rolled steel

(Specify kind of steel desired. Sanymetal recommends galvanized, Bonderized steel for showers).*

SPECIFICATIONS

(1A) All metal compartments for toilet, shower, and dressing rooms shall be Century Type (ceiling-hung) with synthetic enamel baked-on over galvanized, Bonderized* steel as manufactured by The Sanymetal Products Co., Inc. Bottom of door shall be on same horizontal plane as bottom pilaster. Partitions, doors, and pilasters shall be made in dimensions that comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters and doors of standard widths.

(2A) Doors and partitions shall be 1″ thick made of 2 sheets of galvanized, Bonderized* steel (Minimum steel thickness: for doors — 22 gage; for partitions — 20 gage), assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips, and door edges shall be electrically welded together. Locking strips on doors and partitions to be mitred and welded at corners.

(3A) Suspended Pilasters shall be made 1¼″ thick of 2 sheets of 16 gage steel, welded together and finished as specified for partitions and doors, including locking strip details. Pilasters shall be secured to overhead carrying member (overhead members by others) by means of ⁷⁄₁₆″ diameter galvanized bolts through a ½″ x ⅞″ reinforced crossbar welded to and integral with pilaster, with a plaster key spacer between bottom of supporting member and finished ceiling line, and designed to transmit the strain of lateral thrust and pull to the steel structural members independently of finished ceiling material.

(4A) Hardware & Fittings: Dividing partitions and pilasters shall be attached to one another and/or to walls with brackets made of heat-treated, polished and anodized extruded aluminum alloy. Attachment of the top of the pilaster to the ceiling shall be concealed with a 3″ polished stainless steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Door shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, finished to match pilaster, factory-mounted on the pilaster in position, and designed so that no bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door, all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screws; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, and all working parts completely concealed within the thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

Hardware and Fittings illustrated on Page 21.

(5A) Finish shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel, applied by modern mechanical methods and baked-on to produce a uniform, smooth, lustrous, protective finish; all metal surfaces so finished shall have been sanded and thoroughly cleaned by methods recognized as good commercial finishing practice.

**Treated with Bonderite, a product of Parker Rust Proof Co.*

SPECIFICATIONS NORMANDIE TYPE Floor Supported

Architect's Note: Normandie (floor supported) Compartments are suitable for installation on floors constructed as illustrated on page 7. Depending on type of floor, specifications as follows should be inserted in space marked "X" in paragraph (3) or (3A) below:

For wood floors or wood sub-floors: "Through bolts and plate washers are to be furnished by the compartment manufacturer and installed by others before the underside of the floor construction is covered."

For concrete floors: "Anchorage to floor is to be by expansion shields and machine bolts."

For concrete slab: "Floor plate is to be supplied by compartment manufacturer and installed by others prior to applying fill and finished floor."

Before planning installations on other types of floor construction, consult your Sanymetal Representative.

Compartments are furnished with or without doors as specified.

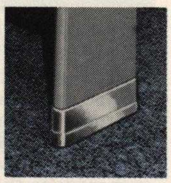
ILLUSTRATION . . . . **Page 7**
MATERIALS . . . . **Page 2**
COLORS . . . . **Page 20**
STANDARD SIZES AND DIMENSIONS . . . **Page 30**
JUNIOR HEIGHT . . . . **Page 10**

PORCENA

Vitreous Porcelain Enamel on Steel

SPECIFICATIONS

(1) All metal compartments for toilet, shower, and dressing rooms shall be Normandie Type "Porcena" (vitreous porcelain on steel complying with Porcelain Enamel Institute standards for acid-resisting architectural porcelain enamel) as manufactured by Sanymetal Products Co., Inc. Top of door shall be on same horizontal plane as top of pilaster. Dimensions of partitions, doors, and pilasters are to comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters and doors of standard widths.



(2) Doors and partitions shall be 1″ thick, made of 2 sheets of vitreous porcelain sheet steel (minimum steel thickness: 18 gage) assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips of 20 gage stainless steel, and edges shall be electrically welded together. Partitions and doors to be vitreous porcelain enameled on all interior and exterior surfaces, with color and finish coats of porcelain on exterior surfaces only.

(3) Pilasters shall be 1-1/4″ thick of 2 sheets of vitreous porcelain 18 gage sheet steel welded together. Pilasters when set in place shall be secured to concrete floor or concrete slab floor or wood floor construction by 7/16″ diameter galvanized studs through 1/2″ x 7/8″ reinforced crossbar welded to and integral with the pilaster. *(X: Insert here specification for floor fastening appropriate to floor type, as given in "Architect's Note" above.)*

(4) Hardware & Fittings: Dividing partitions and pilasters shall be attached to one another and to walls with brackets made of heat treated, polished and anodized, extruded aluminum alloy; each stirrup bracket to be provided with holes for 4 attachment screws to wall. Attachment of the pilaster to the floor shall be concealed with a 3″ polished stainless steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Door shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, chrome-plate finished, factory-mounted on the pilaster in position, and designed so that bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door, all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screws; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, all working parts completely concealed within the thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

End of Specifications for Normandie Porcena Compartment.

Hardware and Fittings illustrated on Page 21.

BAKED Synthetic ENAMEL

on Galvanized, Bonderized* Steel, or regular furniture finish cold-rolled steel

(Specify kind of steel desired. Sanymetal recommends galvanized, Bonderized steel for showers.)*

SPECIFICATIONS

(1A) All metal compartments for toilet, shower, and dressing rooms shall be Normandie Type with synthetic enamel baked-on over galvanized, Bonderized* steel as manufactured by The Sanymetal Products Co., Inc. Top of door shall be on same horizontal plane as top of pilaster. Partitions, doors, and pilasters shall be made in dimensions that comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters and doors of standard widths.

(2A) Doors and partitions shall be 1″ thick made of 2 sheets of galvanized, Bonderized* steel (Minimum steel thickness: for doors – 22 gage; for partitions – 20 gage), assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips, and door edges shall be electrically welded together. Locking strips on doors and partitions to be mitred and welded at corners.

(3A) Pilasters shall be made 1¼″ thick of 2 sheets of 16 gage steel, welded together and finished as specified for partitions and doors, including locking strip details. Pilasters shall be secured to concrete floor or concrete slab floor construction by means of 7/16″ diameter galvanized studs through a ½″ x ⅞″ reinforced crossbar welded to and integral with pilaster. *(X: Insert here specification for floor fastening appropriate to floor type, as given in "Architect's Note" above.)*

(4A) Hardware & Fittings: Attachment of dividing partitions and pilaster walls and/or pilasters shall be with extruded heat-treated polished and anodized aluminum alloy brackets. Attachment of pilasters to the floor shall be concealed with a 3″ polished stainles steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Door shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, finished to match pilaster, factory-mounted on the pilaster in position, and designed so that no bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door; all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screws; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, and all working parts completely concealed within the thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

(5A) Finish shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel, applied by modern mechanical methods and baked-on to produce a uniform, smooth, lustrous, protective finish; all metal surfaces so finished shall have been sanded and thoroughly cleaned by methods recognized as good commercial finishing practice.

SPECIFICATIONS ACADEMY TYPE Overhead Braced

ILLUSTRATION . . . . **Page 8**
COLORS . . . . **Page 20**
STANDARD SIZES AND DIMENSIONS . . . . . **Page 30**

PORCENA

Vitreous Porcelain Enamel on Steel

SPECIFICATIONS

(1) All metal compartments for toilet, shower, and dressing rooms shall be Academy Type (overhead-braced) "Porcena" (vitreous porcelain on steel complying with Porcelain Enamel Institute standards for acid-resisting architectural porcelain enamel) as manufactured by Sanymetal Products Co., Inc. Dimensions of partitions, doors, and pilasters are to comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters and doors of standard widths.

(2) Doors and partitions shall be 1″ thick, made of 2 sheets of vitreous porcelain sheet steel (Minimum steel thickness: 18 gage) assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips of 20 gage stainless steel, and edges shall be electrically welded together. Partitions and doors to be vitreous porcelain enameled on all interior and exterior surfaces, with color and finish coats of porcelain on exterior surfaces only.

(3) Pilasters shall be 1-1/4″ thick of 2 sheets of vitreous porcelain 18 gage sheet steel welded together. Pilasters are to extend in height from floor to headrail. Bottom of pilasters shall have a jack leveling-screw to carry the weight of the compartment, and to provide secure anchorage to the floor with fittings providing for vertical adjustment.

(4) Headrail: Partitions and pilasters, when set in place, shall be securely braced with continuous 1″ x 1-1/2″ tubular stainless steel overhead bracing attached through top of pilasters and bolted to the pilasters; this headrail shall extend full length of installation and over end compartment and be fastened into wall bracket. Exposed ends of headrail are to be capped.

(5) Hardware & Fittings: Dividing partitions and pilasters shall be attached to one another and to walls with brackets made of heat treated, polished and anodized extruded, aluminum alloy; each stirrup bracket is to be 3″ long and provided with holes for 4 attachment screws to wall. Attachment of the pilaster to the floor shall be concealed with a 3″ polished stainless steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Door shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, chrome-plate finished, factory-mounted on the pilaster in position, and designed so that no bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door; all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screws; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, and all working parts completely concealed within the thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

Hardware and Fittings illustrated on Page 21.

End of Specifications for Academy Porcena Compartment.

Compartments are furnished with or without doors as specified.

BAKED Synthetic ENAMEL

on Galvanized, Bonderized* Steel, or regular furniture finish cold-rolled steel

(Specify kind of steel desired. Sanymetal recommends galvanized, Bonderized steel for showers.)*

SPECIFICATIONS

(1A) All metal compartments for toilet, shower, and dressing rooms shall be Academy Type *(if galvanized, Bonderized* steel so specify; otherwise regular furniture finish cold rolled steel will be used)* as manufactured by The Sanymetal Products Co., Inc. Partitions, doors, and pilasters shall be made in dimensions that comply with the modular system of dimensional coordination; compartment width variations to be obtained by using pilasters of standard widths, and doors not to exceed 24″ in width.

(2A) Doors and partitions shall be 1″ thick made of 2 sheets of steel (minimum steel thickness: for doors — 22 gage; for partitions — 20 gage), assembled over and cemented under pressure to dense, sound-deadening BRIDGECORE insulation. The two face plates on doors and partitions shall have formed edges, sealed with continuous oval-crown locking strips, and door edges shall be electrically welded together. Locking strips on doors and partitions to be mitred and welded at corners.

(3A) Pilasters shall be made 1-1/4″ thick of 2 sheets of 20 gage steel, welded together and finished as specified for partitions and doors, including locking strip details. Pilasters are to extend in height from floor to headrail. Bottom of pilasters shall have a jack leveling-screw to carry the weight of the compartment, and to provide secure anchorage to the floor with fittings providing for vertical adjustment.

(4A) Headrail: Partitions and pilasters, when set in place, shall be securely braced with continuous 1″ x 1-1/2″ tubular steel overhead bracing, attached through top of pilasters and bolted to the pilasters, and finished in synthetic enamel baked-on; this headrail shall extend full length of installation and over end compartment and be fastened into wall bracket. Exposed ends of headrail are to be capped.

(5A) Hardware & Fittings: Dividing partitions and pilasters shall be attached to one another and to walls with brackets made of heat treated, polished and anodized, extruded aluminum alloy. Attachment of pilaster to the floor shall be concealed with a 3″ polished stainless steel trim.

Doors shall be equipped with Sanymetal "7950" concealed, controlled gravity type hinges. Door shall be mounted on upper and lower hinge pilaster brackets of heat-treated high-tensile cast aluminum alloy, finished to match pilaster, factory-mounted on the pilaster in position, and designed so that no bolts are externally visible, and no portion of the bracket overlaps the front or back external surfaces of the pilaster beyond the locking strip. Top hinge pivot door bracket to be recessed into edge of door approximately 2″ below top, with steel pivot pin, operating in an Oilite bearing, mounted within the door structure, supported both above and below the pivot bracket. Door weight shall be carried on a thrust bearing fixed in place by stationary vertical pintle concealed within the door structure. Operation of the door shall be controlled by opposing Zytel cams under spring tension, mounted on the fixed vertical pintle. Hinge to be adjustable to permit door to come to rest at any angle, or to hold door open or closed when not latched. Hinge to permit free movement without raising or lowering the door, all its moving parts to be self-lubricating, and to be completely concealed within the 1″ thickness of the door. Each door to be equipped with: a cast alloy, chrome-plated coat-hook and bumper applied with one-way head screws; a Sanymetal "8800" concealed latch, with face mortised flush with edging strip, and all working parts completely concealed within the thickness of the door. Latch bolts shall be stainless steel, and exposed escutcheon plate and handle polished chrome-plated cast alloy non-ferrous metal. Provide on the pilaster a one-piece heavy cast non-ferrous alloy stop and keeper, chrome-plated and polished, with ¾″ diameter rubber bumper locked in place. Stop and keeper to be thru-bolted with one-way head sex bolts.

Hardware and Fittings illustrated on Page 21.

(6A) Finish shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel, applied by modern mechanical methods and baked-on to produce a uniform, smooth, lustrous, protective finish; all metal surfaces so finished shall have been sanded and thoroughly cleaned by methods recognized as good commercial finishing practice.

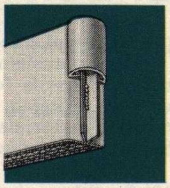
TYPICAL OPEN SPECIFICATIONS

CEILING HUNG

(Porcelain Enamel Finish)

(1) All metal compartments for toilets, showers and dressing rooms shall be Vitreous Porcelain Enamel Flush Type, Ceiling-Hung, with pilaster fronts.

(2) Partitions shall be 1″ thick made of two sheets of enameling iron assembled over and cemented under pressure to a dense sound-deadening BRIDGECORE mould of 20 gage polished stainless steel on all four sides with finished corners. Partitions sheets to be welded together at intervals around the edges prior to application of mould.



(3) Doors shall be same construction as panels but in addition, edges of face sheets to be welded at intervals to insure rigidity and prevent wind. Doors shall be approximately 24″ wide and swing into the compartment.

(4) Pilasters to be the same construction as the doors except that they will be 1-1/4″ thick, with reinforcement to receive dividing partition connection. The pilasters shall be anchored to the overhead carrying member by means of 7/16″ diameter galvanized studs through a 1/2″ x 1″ reinforced crossbar welded and made integral with top of the pilaster. Pilaster moulding on vertical edges and bottom edge to be polished stainless steel.

(5) Ceiling anchorage: Structural members to support toilet compartment shall be fabricated, installed and furnished under another section of the specifications. Pilasters shall be through-bolted to structural members by two 7/16″ stud bolts, except where pilasters are fastened to a wall, in which case only one stud bolt is required. Insert plaster keys shall be furnished by the toilet compartment manufacturer of a depth equal to the total distance from the structural supporting member to the finished plaster surface.

(6) Materials: All steel shall be enameling iron of the following gages:

Partitions - 18 gage minimum
Pilasters - 18 gage minimum
Doors - 18 gage minimum
Reinforcing Channels - 16 and 14 gage, galvanized-Bonderized* steel

(7) Hardware and Fittings: (7-A) *Brackets* — both wall and pilaster stirrup brackets to be non-ferrous, bright finish. **(7-B) *Pilasters Ceiling Trim*** — 3″ high stainless steel. **(7-C) *Hinges*** — Doors shall be hung on gravity hinges having roller bearings on cams, adjustable to permit doors to be set either self-closing, self-opening or ajar, and operating parts encased or contained within the door. Both upper and lower brackets of hinge are to consist of cast alloy non-ferrous metal with chrome-plated finish. Upper pivot guide pin shall be secured above and below the bearing point of door, with bearing concealed in top bracket that fits into a cut-out near the top of door. Compensation for travel of roller on cam shall be by vertical movement of door or by compressive spring action. Ball bearing rollers and cams shall be hardened steel. All moving parts shall operate in self-lubricating or self-contained ball thrust bearings. **(7-D) *Coat Hooks, Latches, Bumpers*** — Each door to be equipped with one cast alloy chrome-plated coat hook and bumper; one cast alloy chrome-plated slide bar latch; and, for each door, one heavy cast alloy, chrome-plated combination door stop and latch keeper to be securely attached to the pilaster at a point opposite the slide bar latch on the door.

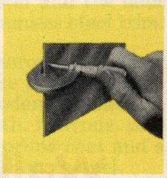
(8) Finish and Color: All doors, partitions and pilasters shall be acid resisting, vitreous porcelain on steel in accordance with Porcelain Enamel Institute standards for architectural porcelain enamel; vitreous porcelain shall be glass-like substance composed of inorganic mineral materials and produced by firing. Two colors to be selected from manufacturer's color chart.

(9) Manufacturer: The partitions to be Sanymetal "PORCENA", Century Flush Type as manufactured by The Sanymetal Products Company, Inc., 1705 Urbana Road, Cleveland 12, Ohio, or any other national distributed manufacturer of recognized quality, providing they are equal in the opinion of the architect to those specified.

HEAD RAIL BRACED

(Baked Enamel Finish)

(1) All metal compartments for toilets, shower and dressing rooms shall be flush type with pilaster fronts, headrail braced construction.



(2) Partitions: Shall be 1″ thick made of two sheets of stretcher leveled furniture steel assembled over and cemented under pressure to a dense sound-deadening insulating BRIDGECORE; the sheets to have edges formed to take a continuous oval shape crown locking mould on all four sides with corners mitred, welded and ground smooth.

(3) Doors: Shall be same construction as panels but in addition edges of face sheets to be welded at intervals to insure rigidity and prevent wind. Doors shall be approximately 24″ wide and swing into the compartment.

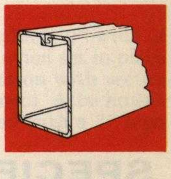
(4) Pilasters: To be the same construction as the doors except that they will be 1¼″ thick, with reinforcement to receive dividing partition connection and with mould on vertical edges only. Pilasters shall be anchored to the floor by means of a fitting providing for vertical adjustment by direct mechanical means and not depend upon friction to hold the vertical adjustment.

(5) Headrail: Pilasters shall be securely braced with continuous 1″ x 1½″ tubular steel overhead bracing (either lock seam or continuous welded) through the top of the pilasters. Headrail shall extend the full length of the installation and over any free standing end partition and be fastened into a cast alloy wall bracket.

(6) Materials: All steel shall be (galvanized-Bonderized*) stretcher leveled furniture steel of the following gages:

Partitions - 20 gage
Pilasters - 20 gage
Doors - 22 gage
Headrail - 20 gage
Reinforcing Channels - 16 and 14 gage

(7) Hardware and Fittings: (7-A) *Brackets*—both wall and pilaster stirrup brackets to be extruded or cast with polished finish. **(7-B) *Pilaster Floor Trim***—3″ high stainless steel. **(7-C) *Hinges***—Doors shall be hung on gravity hinges having roller bearings on cams, adjustable to permit doors to be set either self-closing, self-opening, or ajar, with operating parts encased or contained within the door. Upper pivot guide pin shall be secured above and below the bearing point of door, with bearing concealed in top bracket that fits into a cut-out near the top of door. Compensation for travel of roller on cam shall be by vertical movement of door or by compressive spring action. Ball bearing rollers and cams shall be hardened steel. All moving parts shall operate in self-lubricating, needle or self-contained ball thrust bearings. **(7-D) *Coat Hooks, Latches, Bumpers*** — Each door to be equipped with one cast alloy chrome-plated coat hook and bumper; one cast alloy concealed or exposed latch, with chrome-plated stop and keeper. Coat hook to be applied with screws having one-way heads. Balance of hardware to be applied with Phillip Head Screws.



(8) Finish and Color: All surfaces to be cleaned and sanded smooth, preparatory to application of synthetic enamel, applied in two coats, by modern mechanical methods, baked to a uniform, smooth, lustrous, protective finish. Two colors to be selected from manufacturer's color chart.

(9) Manufacturer: The partitions to be Sanymetal Academy Flush type, as manufactured by The Sanymetal Products Company, Inc., 1705 Urbana Road, Cleveland, Ohio, or any other national distributed manufacturer of recognized quality, providing they are equal in the opinion of the architect to those specified.

SPECIFICATIONS URINAL SCREENS

PORCENA

(Vitreous Porcelain on Steel)

TYPE A:

Wall Hung Flush Type

SPECIFICATIONS

(1) All urinal screens shall be Wall Hung Flush Type "Porcena" (vitreous porcelain on steel in accordance with Porcelain Enamel Institute standards for acid-resisting architectural porcelain; vitreous porcelain shall be a glass-like substance composed of inorganic mineral materials and produced by firing) as manufactured by The Sanymetal Products Co., Inc., Cleveland, Ohio.

(2) Partitions shall be 1¼ inches thick made of two sheets of No. 16 gage vitreous porcelain sheet steel, with edges formed, assembled over and cemented under pressure to a dense, sound-deadening BRIDGECORE insulation. The two face plates on partitions shall have formed edges and shall be electrically welded together and sealed with continuous oval-crown locking strips of No. 20 gage stainless steel. Partitions to be vitreous porcelain enameled on all interior and exterior surfaces only, with binding strips of No. 20 gage stainless steel. Partitions to be made in dimensions that comply with the modular system of dimensional coordination. Partitions to have integral, formed, reinforced mounting flanges.

TYPE B:

Floor supported Flush Type

Architect's Note: When fastening to a solid concrete floor, machine bolts and expansion shields are installed. On concrete slab having cinder fill greater than 1¼ inches thick, and finished floor construction, anchor plates furnished by Sanymetal are to be installed by the customer before fill and finished floor material are applied, in accordance with directions by Sanymetal. For installation on wood floors or wood subfloors, Sanymetal will furnish throughbolts and plate washers to be applied by customer before the underside of the floor construction is covered. Before planning installation on other types of floor construction, consult Sanymetal Representative.

SPECIFICATIONS

(1) All urinal screens shall be Floor Supported Flush Type "Porcena" (vitreous porcelain on steel in accordance with Porcelain Enamel Institute standards for acid-resisting architectural porcelain enamel; vitreous procelain shall be a glass-like substance composed of inorganic mineral materials and produced by firing) as manufactured by The Sanymetal Products Co., Inc., Cleveland, Ohio.

(2) Partitions shall be 1¼ inches thick, made of two sheets of No. 16 gage vitreous porcelain sheet steel, with edges formed, assembled over and cemented under pressure to a dense, sound-deadening BRIDGECORE insulation. The two face plates on Partitions shall have formed edges and shall be electrically welded together and sealed with continuous oval-crown locking strips of No. 20 gage stainless steel. Partitions to be vitrous porcelain enameled on all interior and exterior surfaces only, with binding strips of No. 20 gage stainless steel. Partitions to be made in dimensions that comply with the modular system of dimensional coordination.

(3) The leg extension to the floor shall be 1¼" thick, integral with and flush with panel above. Leg extensions, when set in place, shall be securely anchored by means of ⁷⁄₁₆" diameter galvanized studs through (⅛" x ⅞") reinforced cross bar, welded and made integral with pilaster. If anchored by use of floor plate, (see detail of construction) floor plate is to be furnished by screen manufacturer and to be installed by others prior to applying fill and finished floor.

(4) Hardware: Partitions shall be attached to wall with non-ferrous, chrome-plated stirrup brackets. The base of the pilaster and the floor anchorage shall be concealed by a 3-inch polished stainless steel trim.

End of specification for "PORCENA"

BAKED Synthetic ENAMEL

(Galvanized, Bonderized* Steel finished with Synthetic Enamel Baked-on)

TYPE A:

SPECIFICATIONS

(1) All urinal screens shall be Wall Hung Flush Type made from galvanized, Bonderized* steel finished with Synthetic Enamel Baked-on, as manufactured by The Sanymetal Products Co., Inc., Cleveland, Ohio.

(2) Partitions shall be 1¼ inches thick made of two sheets of No. 20 gage galvanized, Bonderized* steel, assembled over and cemented under pressure to a dense, sound-deadening BRIDGECORE insulation. The two face plates on partitions shall have formed edges and shall be electrically welded together and sealed with continuous oval-crown locking strips; interlocking strips on partitions mitred and welded at the corners. Partitions to be made in dimensions that comply with the modular system of dimensional coordination. Partitions to have integral, formed, reinforced mounting flanges.

TYPE B:

SPECIFICATIONS

(1) All urinal screens shall be Floor Supported Flush Type made from galvanized, Bonderized* steel finished with Synthetic Enamel Baked-on, as manufactured by The Sanymetal Products Co., Inc., Cleveland, Ohio.

(2) Partitions shall be 1¼ inches thick made of two sheets of No. 20 gage galvanized, Bonderized* steel, assembled over and cemented under pressure to a dense, sound-deadening BRIDGECORE insulation. The two face plates shall have formed edges and shall be electrically welded together and sealed with continuous oval-crown locking strips; interlocking strips on partitions mitred and welded at corners. Partitions to be made in dimensions that comply with the modular system of dimensional coordination.

ILLUSTRATIONS, DETAILS . . . . Page 10
MATERIALS . . . . Page 18
COLORS . . . . Page 20

TYPE A:

SPECIFICATIONS *(continued)*

(3) Finish: All metal surfaces shall be sanded and thoroughly cleaned by methods recognized as good commercial practice in preparation for synthetic enamels which are to be applied by modern mechanical methods and baked-on to provide a uniform, smooth, lustrous, protective finish, which shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel.

TYPE B:

SPECIFICATIONS *(continued)*

(3) Leg extensions to the floor shall be 1¼ inches thick, integral and flush with the panel above. Leg extensions, when set in place, shall be securely anchored by means of 7/16″ diameter galvanized studs through (½″ x ⅞″) reinforced cross bar, welded and made integral with pilaster. If anchored by use of floor plate, (see detail of construction) floor plate is to be furnished by screen manufacturer and to be installed by others prior to applying fill and finished floor.

(4) Hardware: Partitions shall be attached to wall with non-ferrous brackets enameled to match. The base of the pilaster and the floor anchorage shall be concealed by a 3-inch polished stainless steel trim.

(5) Finish: All metal surfaces shall be sanded and thoroughly cleaned by methods recognized as good commercial practice in preparation for synthetic enamels which are to be applied by modern mechanical methods and baked-on to provide a uniform, smooth, lustrous, protective finish, which shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel.

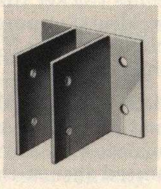
TYPE C:

Wall Hung Bracket Supported

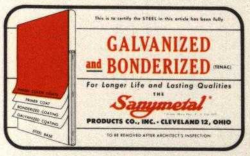
SPECIFICATIONS

(Galvanized, Bonderized* Steel finished with Synthetic Enamel Baked-on)

(1) All urinal screens shall be Wall-Hung Flush Type made of galvanized, Bonderized* steel, finished with synthetic enamel baked-on as manufactured by The Sanymetal Products Co., Inc. Cleveland, Ohio.



(2) Partitions shall be 1″ thick made of 2 sheets of #20 gauge galvanized, Bonderized* steel, assembled over and cemented under pressure to a dense sound-deadening Bridgecore insulation. The two face plates of the partitions shall have formed edges and shall be electrically welded together at approximately 18″ intervals and sealed with continuous oval-crown locking strips, with the locking strips mitred and welded and finished at the corners. Both vertical edges of the panel are to be supplied with additional reinforcement consisting of a wood core 4″ wide.


This is to certify the STEEL in this article has been fully
GALVANIZED
and BONDERIZED (TENAC)
For Longer Life and Lasting Qualities
THE
Sanymetal
PRODUCTS CO., INC. · CLEVELAND 12, OHIO
TO BE REMOVED AFTER ARCHITECT'S INSPECTION
PRIMER COAT
BONDERIZED COATING
GALVANIZED COATING
STEEL BASE

(3.) Fittings: Partitions shall be attached to the wall with 2 brackets made of heat-treated, polished and anodized extruded aluminum alloy. Each stirrup bracket shall be 3″ long and provided with 4 holes for attachment of screws to the wall and 2 thru-bolts through the partition.

(4.) Finish: All metal surfaces shall be sanded and thoroughly cleaned by methods recognized as good commercial practice in preparation for synthetic enamels which are to be applied by modern mechanical methods and baked-on to provide a uniform, smooth, lustrous protected finish, which shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel.

TYPE D:

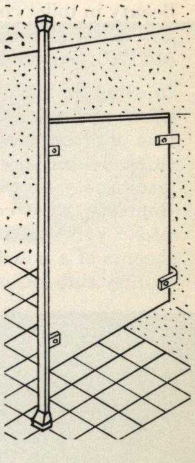
Pilaster Braced Type

SPECIFICATIONS

(Galvanized, Bonderized* Steel finished with Synthetic Enamel Baked-on)

(1.) All urinal screens shall be Flush Type with 2″ wide pilaster running from floor to finished ceiling, as manufactured by the Sanymetal Products Co., Inc.

(2.) Partitions shall be 1″ thick made of 2 sheets of galvanized, Bonderized* steel, 20 gauge, assembled over and cemented under pressure to dense, sound-deadening Bridgecore insulation. The two face plates of the partition shall have formed edges sealed with continuous oval-crown locking strip and shall be electrically welded together. Locking strip on partitions to be mitred and welded and finished at corners.



(3.) Floor to ceiling pilasters shall be made 1¼″ thick, 2″ wide of #18 gauge galvanized, Bonderized* steel. Pilasters when set in place shall be secured to the floor and ceiling construction with secure anchorage and fittings providing for vertical adjustment. Attachment of pilaster to the floor and ceiling shall be concealed with a 3″ high polished stainless steel trim.

(4.) Fittings: Partitions and pilasters shall be attached to one another and to the walls with brackets made of heat-treated, polished and anodized, extruded aluminum alloy. Brackets shall be 1¼″ long.

(5) Finish shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel applied by modern mechanical methods and baked-on to produce a uniform, smooth, lustrous and protected finish. All metal surfaces shall have been sanded and thoroughly cleaned by methods recognized as good commercial finishing practice.

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*(Treated with Bonderite, a product of Parker Rust Proof Co.)

Sanymetal® Offers You the Most in

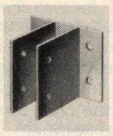
SANYMETAL PORCENA... Porcelain Enamel for Toilet Compartments Brought to Perfection by Experience

You can have confidence that Sanymetal PORCENA will give you all the advantages you expect from vitreous porcelain enamel on steel. Specifically, it assures you of these advantages:

1. Bright, true colors that will not fade.
2. A grade of porcelain unaffected by acids, cleaning compounds, oil and grease, and other agents encountered in normal use.
3. Design and handling are such that the porcelain gives full protection over every bit of the steel surface, both exposed and hidden, without breaks caused by drilling, overstress from fasteners, or other preventable factors.
4. Flat surfaces, without buckle or warp, on doors, partitions, and pilasters.
5. Hardware correctly designed to support the weight of porcelain enamel on steel.

Genuine
PORCELAIN ENAMEL
ACID RESISTING
PORCELAIN ENAMEL
TO CLEAN

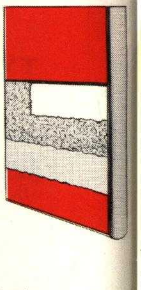
Porcelain Enamel Institute "Lifetime Finish" label carried by Porcena.



Brackets, hinges, and other hardware used with Sanymetal PORCENA are designed to carry the weight of porcelain enamel properly, without overstressing or failure.

Only from Sanymetal do you have the assurance of getting these advantages backed by 24 years of experience. Sanymetal has produced over 2,500 porcelain enamel toilet compartment installations since 1936, when Sanymetal pioneered this material for compartment construction. Not one Sanymetal installation has ever faded, failed, or required repair or replacement due to lack of durability. Every Sanymetal job today carries the Porcelain Enamel Institute "Lifetime Finish" label for acid-resisting porcelain enamel.

Select PORCENA and you will be sure of the everlasting beauty, the durability, the low cleaning cost and freedom from maintenance cost which you want. Its glass-hard, glass-smooth surface is impervious to odors, unaffected by moisture, cleaning compounds, uric acid, pencil marks, lipstick, ink. It reduces maintenance costs to a minimum because it never needs to be refinished, and because it is easily cleaned bright as new by soap and water.



Quality materials, quality methods make PORCENA top quality: (1) Genuine heavy gage enameling iron etched for ground coat; (2) Porcelain Enamel ground co over whole surfa (3) Porcelain Enam color coat on visible surfaces.

SANYVINYL-METAL Vinyl Coated Steel...

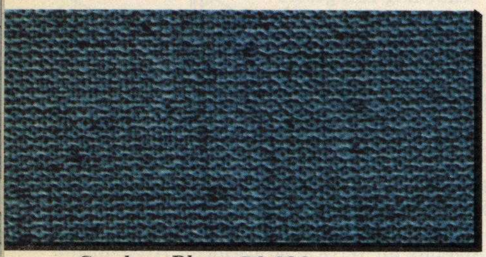
Opens Exciting New Possibilities for Toilet Room Design!

Beauty in toilet compartments, beyond the range of possibilities with any material before offered, is easily attained with SANYVINYL-METAL, Sanymetal's Vinyl Coated Steel.

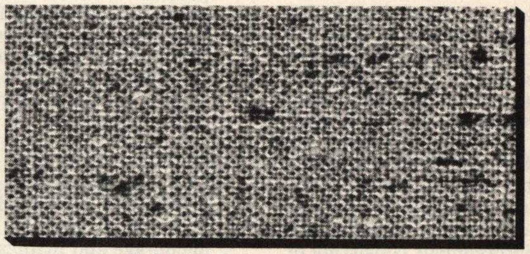
In using SANYVINYL-METAL you get *texture, color, decorative effect,* and above all, a feeling of warmth and softness. The luxurious impression made is appropriate for the finest installations in clubs, deluxe hotels, monumental public buildings and schools, fine restaurants, executive office suites, and other outstanding projects. Representative colors and textures shown below illustrate how SANYVINYL-METAL patterns may be chosen to blend with the accents of a powder room, or with the masculine atmosphere of a country club locker room.

Easy Maintenance, Low in Cost: In durability SANYVINYL-METAL stands midway between everlasting porcelain enamel, and baked synthetic enamel which requires regular, periodic refinishing. The tough, impervious VINYL plastic surface requires no regular maintenance other than washing with soap and water. It is not affected by moisture, common cleaning compounds, uric acid, greases, oils, lipstick, and it resists defacement by pencil marks, ink, etc. Because it is many times thicker than baked enamel, it is less likely to be damaged by accidental or intentional scratching with a sharp point. Under normal circumstances it should last many, many years with no care other than cleaning.

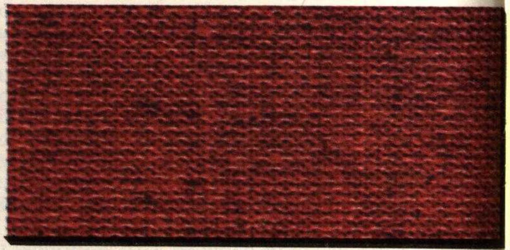
SANYVINYL-METAL is produced by a process which employs heat and pressure to achieve a permanent bond, making the heavy vinyl surface virtually an integral part of the steel. It is absolutely guaranteed against the separation blistering or flaking in normal service.



Cerulean Blue – **PC 404**



Salt and Pepper – **PC 402**



Flame Red – **PC 401**

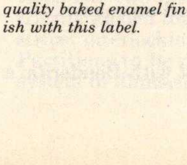
SANYMETAL SYNTHETIC ENAMEL...Baked-on over...

...Galvanized, Bonderized* Steel

A distinctive feature of Sanymetal Synthetic Enamel is the use of Epon synthetic resin primer, which greatly increases service life. In addition, galvanizing and Bonderizing* make the finish last 2 to 3 times longer than equivalent enamel over cold-rolled steel.

To produce the highest quality of finish, Sanymetal employs automatic, electrostatic spraying equipment. For maintenance of the hard, lustrous finish, just wash and wax. For repairs or refinishing, DuPont air-drying enamels in matching colors are available (see p. 20).

**Treated with Bonderite a product of Parker Rust Proof Co.*


GALVANIZED
and BONDERIZED
For Longer Life and Lasting Qualities
Sanymetal
PRODUCTS CO., INC. • CLEVELAND 12, OHIO

Sanymetal identifies top quality baked enamel finish with this label.

Furniture Finish Cold-Rolled Steel

For this finish, the Epon primer, top coat enamel, and equipment are the same as those used for the galvanized, Bonderized finish. Due, however, to the reduced protection to the base metal, this finish is not recommended for severe service, and any scratches or mars penetrating the protective enamel should be repaired at once.

"BRIDGECORE" another Sanymetal Engineering Innovation Makes Panel Structure STRONGER, LIGHTER, LONGER LASTING

More strength more rigidity are now built into every Sanymetal door, partition, and pilaster with a new type of fiber insulation, "BRIDGECORE".

Unlike ordinary corrugated board insulation (in which flutes run parallel to the outer surface metal sheets) BRIDGECORE has tubular cells which are at right angles to the metal. Thus each hexagonal cell forms a tubular truss from one metal to the other. There are over 6,000 such trusses in an average panel, cumulatively providing tremendous resistance to crushing, warp, and wind. As the illustration shows, the tubular form of the cells makes them so strong that BRIDGECORE easily supports the weight of a heavy man; in contrast, the foot of the same man can indent ordinary insulation material.

Also, each cell is flanged at the edge by a process developed by Sanymetal, and is sealed to the metal by bonding cement under pressure. This special flange both adds to structural strength, and assures an independent air cell, for maximum sound-deadening effect and resistance to moisture penetartion.

The structural principle applied is similar to that employed in modern 'honeycomb' aircraft wing construction which affords the greatest stiffness and strength/weight ratio.

. . . eliminates "LAMINATION SEPARATION"

OLD WAY: *With ordinary insulation, the longitudinal flutes are bonded either to the metal, or to a lining sheet which is in turn bonded to the metal. In either case, bond between the cells and the metal is limited to narrow lines or points, and it is a common experience that the bond fails, with a "lamination separation" in the core.*

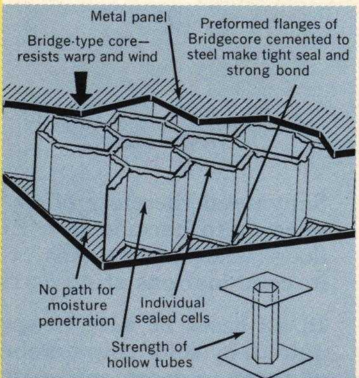
BRIDGECORE WAY: The BRIDGECORE method (see diagram at right) eliminates the liner sheet, and produces a positive, continuous bond sealing each cell to the metal. In Sanymetal's method of bonding, the surface bonded is increased by a factor of approximately 4 to assure utmost strength. This is accomplished by processing the BRIDGECORE so that *flanges* are preformed on the ends of each cell. These preformed flanges are cemented under pressure directly to the steel, producing an exclusive *compression bond.* This is what makes it a certainty that there is a tight, permanent, strong bond with BRIDGECORE.

Lightness of BRIDGECORE Cuts Costs

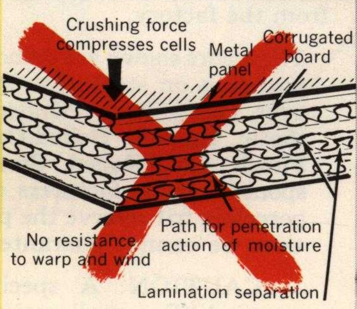
This advanced design principle provides an improvement in strength/weight ratio and decreases shipping weight, and lowers shipping and handling costs.

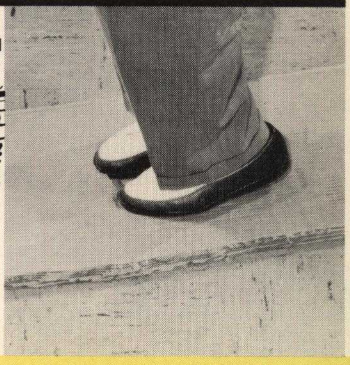
"BRIDGECORE WAY"

Cross-section of Sanymetal "BRIDGECORE" core insulation, showing the load-bearing tubular fiber cells which act as trusses to increase panel strength and stiffness.


Metal panel
Bridge-type core—resists warp and wind
Preformed flanges of Bridgecore cemented to steel make tight seal and strong bond
No path for moisture penetration
Individual sealed cells
Strength of hollow tubes

Tubular cells of BRIDGECORE easily support weight of heavy man, because tubular form is strong; (below) same man stands on ordinary insulation, indents it.


Crushing force compresses cells
Metal panel
Corrugated board
No resistance to warp and wind
Path for penetration action of moisture
Lamination separation



MATERIALS AND FINISHES FOR HARDWARE AND TRIM

STAINLESS STEEL, because it is beautiful, and lasts, is used for pilaster shoes, head rails and locking strip moldings on Porcena compartments, and the bolt of all Sanymetal "8800" Latches.

HEAVY POLISHED CHROME PLATE of high quality which endures is used to finish exposed hinge surfaces, latch handles and escutcheons, latch keepers, coat hooks and bumpers, etc.

ZYTEL is employed for the opposing cams of the new Sanymetal "7950" hinge, because it offers the best combination of anti-friction properties, wear-resistance, and durability.

HIGH STRENGTH ALUMINUM ALLOY, extruded, heat-treated, polished and anodized, is used for stirrup brackets, as a means of making permanently beautiful, exceptionally strong.

NON-FERROUS CAST ALLOY, for chrome-plated hardware parts, to produce a non-rusting base that results in long serivce life.

Sanymetal® COLOR STYLING

MODERN TASTES DEMAND COLOR

Sanymetal therefore offers you 22 carefully chosen colors, selected to harmonize with standard colors used in walls, floors, and fixtures. Any order may use two of these colors in combinations at no extra charge.

In all cases be sure to specify the color combination required, by color chip number, from this page. Combinations of three or more colors can be furnished at special price from the factory.

The colors shown are standard for "Porcena" (vitreous porcelain on steel), for Synthetic Enamel Baked-On over Galvanized, Bonderized* Steel, and for Synthetic Enamel Baked-On over Regular Furniture Finish Cold-Rolled Steel. However, because responsible manufacturers of synthetic enamel and of porcelain frit reserve the privilege of reasonable variation, we cannot guarantee exact matching of colors.

(CAUTION: A specified color of Sanymetal "Porcena" varies noticeably from the same color in synthetic enamel, because the "Porcena" vitreous porcelain makes the color deeper and more brilliant.)

AIR-DRYING ENAMELS: Air-drying enamels, for maintenance and repairs, can be obtained from Sanymetal, or in quantity from DuPont Finishes Division Industrial Sales offices. These color names and specification numbers should be used to get the color match required.

11508 — GREY
IBM 76

76386 — IVORY
IBM 92

76385 — CREAM
IBM 95

11172 — APRICOT
IBM 66

76387 — YELLOW
IBM 94

11216 — TAN
IBM 52

77074 — TAN
IBM 51

11492 — GREY
IBM 74

11480 — GREY
IBM 72

11532 — BLUE
IBM 21

11544 — BLUE
IBM 23

11564 — BLUE
IBM 25

76388 — GREEN
IBM 93

11716 — GREEN
IBM 34

77075 — GREEN
IBM 33

73689 — GREEN
IBM 91

11276 — BEIGE
IBM 57

11284 — RED
IBM 42

660 — RED
IBM 46

77076 — RED
IBM 43

When specifying black or white use the following numbers:

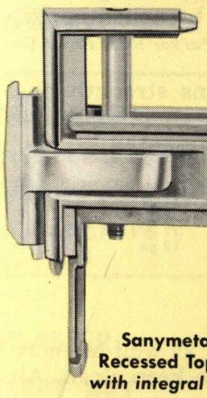
70103 — BLACK
IBM 85

10039 — WHITE
IBM 96

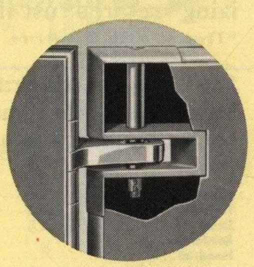
Sanymetal® HARDWARE

This hardware is *engineered* specifically for use on Sanymetal toilet and shower compartments. Unlike make-shift adaptations and quickly improvised imitations, Sanymetal Hardware is made to withstand the conditions of its use — the materials are corrosion-resistant, the finishes are heavy and lasting, and every item is strong enough to take normal use and considerable abuse.

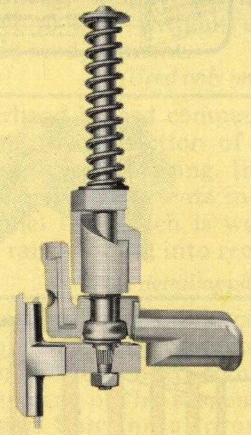
(SEE PATENT NOTICES, P. 6)



Sanymetal No.7950 Recessed Top Door Hinge *with integral hinge bracket*

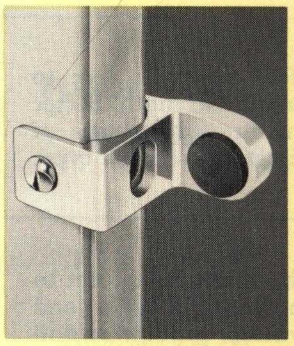


Three point support of top hinge pin provides more than ample strength to withstand extreme abuse, as from an adult swinging on door. Integral bracket (factory-applied to pilaster) eliminates bolting.

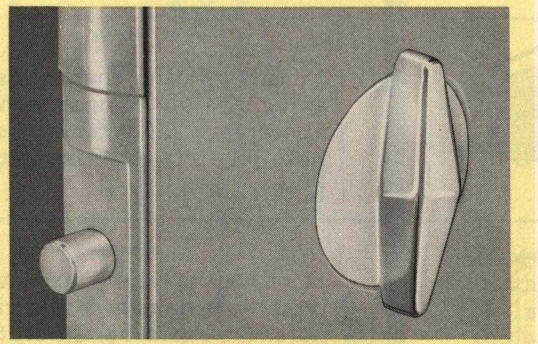


Sanymetal No. 7950 Concealed, Controlled Action Bottom Door Hinge *with integral hinge bracket*

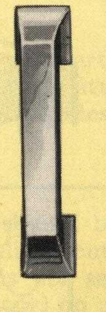
Fully adjustable for positioning door, and fully concealed within door panel, this hinge permits door to swing in one plane, without rising or lowering. Zytel cams give smoothest possible action.



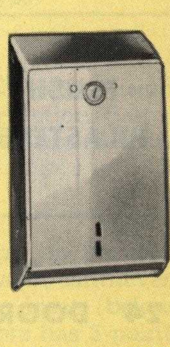
Sanymetal No. 8801 Combination Stop and Latch Keeper



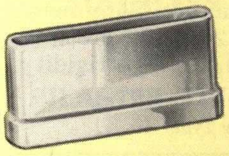
Sanymetal No. 8800 Concealed Latch Working-parts fully concealed within door.



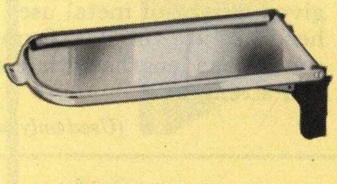
No. 7401 Door Pull



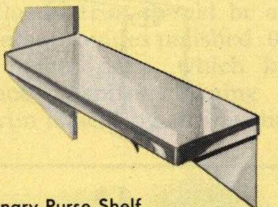
No. 331 Paper Holder, Cabinet Type



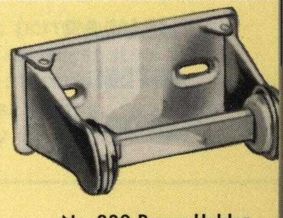
No. 3903 Stainless Steel Pilaster Trim (Specify width)



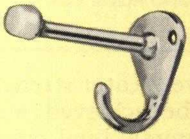
Utility Folding Purse Shelf (Actual Size 5½″ wide x 13¼″ long)



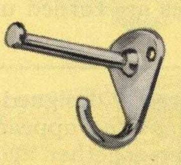
Stationary Purse Shelf (Dimensions as required)



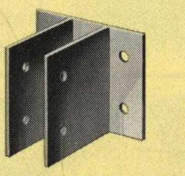
No. 330 Paper Holder, Roll Type



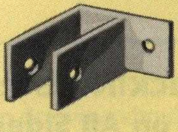
No. 6810 Combination Coat Hook and Bumper



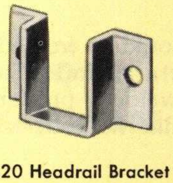
No. 6800 Coat Hook



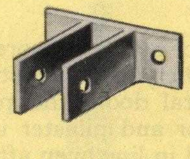
No. 4224 Wall Stirrup Intermediate Bracket for 1″ Porcelain Panel



No. 4031 Wall Stirrup Corner Brac for 1″ Panel

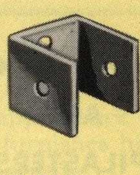


No. 620 Headrail Bracket



No. 4024 Wall Stirrup Intermediate Bracket for 1″ Panel

No. 4060 Wall Stirrup Pilaster Bracket for 1¼″ Pilaster



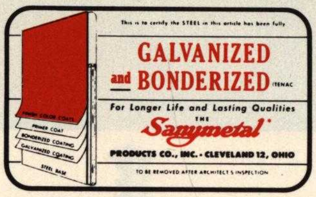
No. 4023 Pilaster to Panel Brack for 1″ Panel

CHECKLIST OF QUALITY CONSTRUCTION ESSENTIALS

ESSENTIAL

WHY THIS FEATURE IS ESSENTIAL, AND HOW SANYMETAL PROVIDES IT

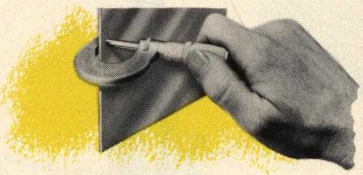
GALVANIZED BONDERIZED* FINISH Certified in Writing or on the Product


This is to certify the STEEL in this article has been fully
GALVANIZED
and BONDERIZED
ITENAC
For Longer Life and Lasting Qualities
THE
Sanymetal*
PRODUCTS CO., INC. - CLEVELAND 12, OHIO
TO BE REMOVED AFTER ARCHITECT'S INSPECTION
FINISH COLOR COATS
PRIMER COAT
BONDERIZED COATING
GALVANIZED COATING
STEEL BASE

Sanymetal affixes a label to certify the use of properly galvanized, Bonderized* steel, finished with 2 coats of baked-on synthetic enamel. This insures good adherence of the enamel, and galvanizing and Bonderizing* retards rust if enamel is breached in use.

**Treated with Bonderite, a product of Parker Rust Proof Co.*

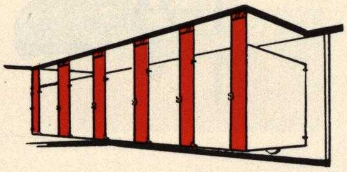
FULL GAUGE STEEL



Steel gauge (thickness) governs strength and durability. Sanymetal uses steel of these gauges for synthetic enamel finished compartments:

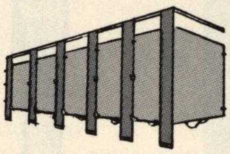
Part	Century and Normandie Types	Academy Type
Panels	20 ga.	20 ga.
Pilasters	16 ga:	20 ga.
Doors	22 ga.	22 ga.
Reinforcements	12 ga.	16 & 14 ga.
Headrail	......	20 ga.

FLUSH CONSTRUCTION



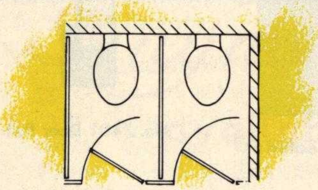
Flush construction is stronger, as well as more pleasing in appearance, and easier to keep clean. All Sanymetal types are entirely flush construction.

FLUSH PILASTERS



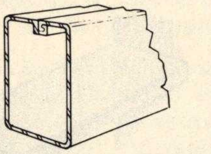
Pilasters, rather than posts, afford space for door to swing into the compartment. Greater strength, better appearance, and easier cleaning are advantages of flush pilasters. All Sanymetal pilasters are flush type.

24″ DOORS



Door widths (and pilaster widths) must be correct to permit inswinging doors, with no waste of space, and no strike against fixtures. Sanymetal provides a full range of standard door sizes, recommends 24″ width.

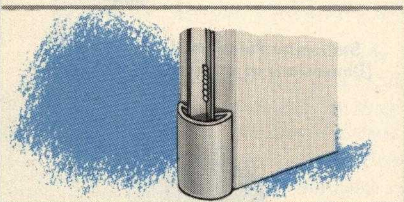
TUBULAR STEEL HEADRAIL



A tube offers the maximum rigidity and strength for a given weight of metal used in a structure. Sanymetal headrails are tubular, formed from 20 gauge steel, in continuous lengths with a lock seam, for high rigidity and strength.

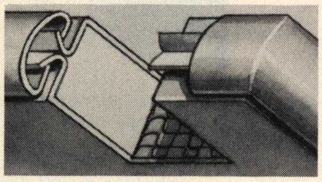
(Used only on Academy Type)

RAW EDGES CONCEALED



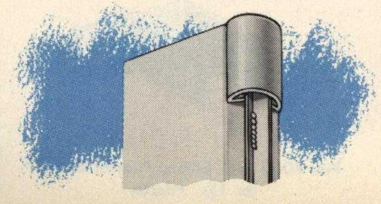
Exposed raw edges look shoddy, will provide a point for corrosion to start, and offer a sharp surface causing cuts or injuries. In Sanymetal construction all raw edges are turned under or covered.

LOCKING STRIPS on All Sides of Panels, Pilasters and Doors



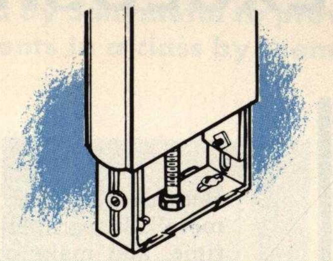
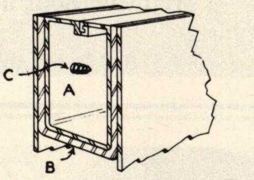
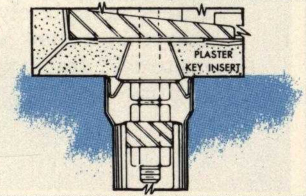
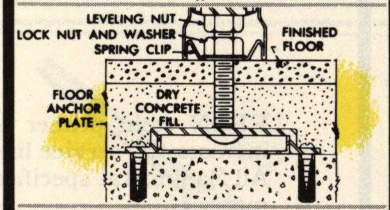
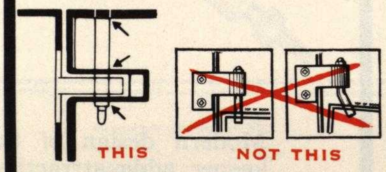
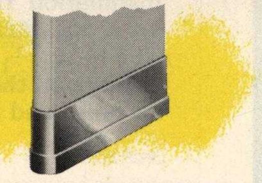
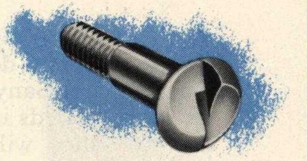
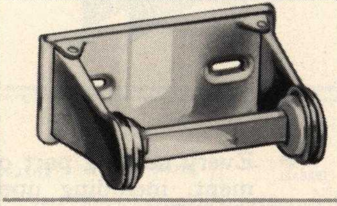
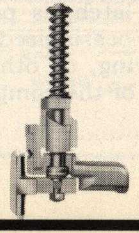
Correctly designed locking strips give greater strength and better appearance than can be achieved with "snap-together" construction. Sanymetal oval crown locking strips on all sides of panels, doors, pilasters, provide a positive seal and reinforcement. No raw edges are left exposed.

WELDED DOORS AND PILASTERS



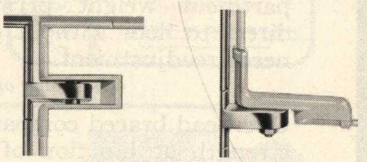
Face plates of doors and pilasters should be welded together, to create strong, rigid structural units. Sanymetal doors and pilasters are so welded, producing door and pilaster units that stay flat without wind, and in line even after severe abuse.

Check open specifications to be sure they cover these essentials. All these items are standard from Sanymetal® as well as available from other reputable manufacturers. By specifying the named items you set up a standard of durability, of value.

ESSENTIAL		WHY THIS FEATURE IS ESSENTIAL, AND HOW SANYMETAL PROVIDES IT
JACK-TYPE LEVELING SCREW		Built-in jackscrew saves field labor, provides permanent support to floor which cannot slip. Sanymetal jackscrew is adjustable with one hand, supports compartment weight permanently and mechanically direct to floor without depending on friction, never needs readjustment. *(Used only on Academy Type)*
HEADRAILS Reinforced and Positively Fastened to Pilasters		Overhead braced compartments should provide extra strength at junction of headrail to pilaster, to get strength from bracing. In Sanymetal construction the tubular rail (A) seats in a 14-gauge steel reinforcing channel (B) which is welded to pilaster face plates, and rail is locked into recess with metal screw (C). *(This detail applies to Academy Type)*
PLASTER INSERT KEY		On ceiling hung units, plaster around the suspension points should be protected against any bearing force from the suspended compartments, to prevent slight movement of the suspension bolts from cracking the plaster. Sanymetal provides this protection with a plaster insert key. *(This detail applies to Century Type)*
FLOOR PLATES Included	 LEVELING NUT LOCK NUT AND WASHER SPRING CLIP FINISHED FLOOR FLOOR ANCHOR PLATE DRY CONCRETE FILL	Floor-braced compartments must include provision for floor plates and fittings required in erection. Sanymetal always includes these items at no extra cost.
TOP HINGE PIVOT Anchored At Both Ends		Hinge pivot should be supported amply to prevent bending, misalignment, and excessive wear, cantilever pin support is not satisfactory. Hinge inset (below top edge of door) on all Sanymetal doors has 3-point support, strong to resist abuse. An adult can swing on a Sanymetal hinge without harming it.
STAINLESS STEEL PILASTER TRIM		Pilaster trim should be attractive, permanent. Sanymetal provides polished .031 gauge stainless steel trim, 3 inches deep, which keeps its attractive appearance despite cleaning materials, acids, scuffing. Trim is held by spring clips, not by exposed screws.
ONE-WAY SCREWS TO STOP PILFERAGE		Latches, keepers, coathooks, and paper holders may disappear if not protected by pilfer-proof screws. Sanymetal provides this important item to reduce maintenance cost.
PAPER HOLDERS		When paper holders are specified, shop drawing should show type and quantity for comparison. Sanymetal drawings do show this information.
DOOR HARDWARE		Door hardware, including minor items like keepers and coathooks, should be of good grade, with polished chrome plate which will retain a good appearance for the life of the installation. Sanymetal furnishes high grade chrome-plated hardware for this reason.

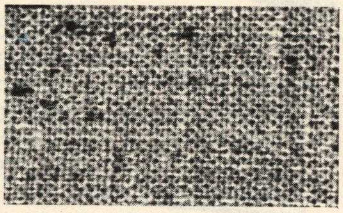
CHECKLIST OF Sanymetal® EXCLUSIVES...

***INTEGRAL HINGE BRACKETS**



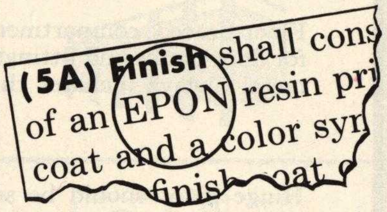
Because they are integral with pilaster, Sanymetal's Integral Hinge Brackets save installation time, and make certain that every door hangs right without adjustment.

VINYL COATED STEEL



Offers completely new decorative possibilities. Sanymetal has worked with and tested this material; this experience assures you of satisfactory results.

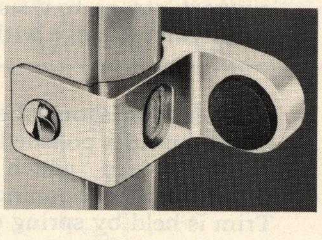
EPON PRIMER for Baked Synthetic Enamel Finishes



(5A) Finish shall cons
of an EPON resin pri
coat and a color syn
finish coat

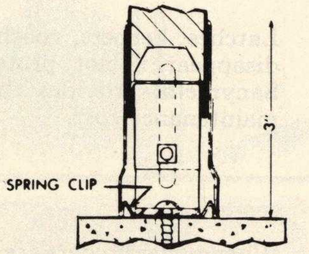
EPON resin primer is unique in its ability to increase the service life of baked enamel finishes. All Sanymetal specifications name this premium material.

***ONE-BOLT DOOR STOP AND KEEPER WITH ¾″ BUMPER**



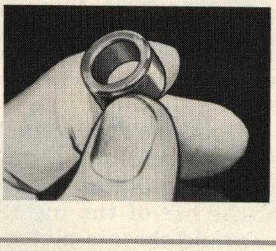
Modern design of Sanymetal door stop and keeper adds attractiveness, and also saves on installation time and cost, because it requires only one theft-proof bolt.
The heavy ¾″ rubber door stop bumper, locked in place on the combination stop keeper, absorbs all noise and shock of door closing.

***POSITIVE SNAP-DOWN PILASTER SHOE ASSEMBLY**



By use of a snap-down design to hold the pilaster shoe in place, Sanymetal eliminates an unsightly set screw, speeds installation, and makes certain that the shoe will be held correctly in place, under tension, so it always looks right.

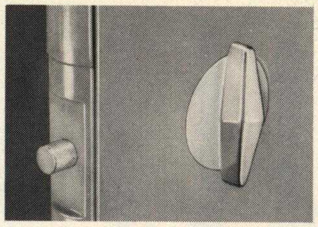
***FULLY BEARINGIZED PERMANENTLY LUBRICATED**



Every moving part of the Sanymetal Compartment, including upper and lower hinges and latch, is permanently lubricated and properly bearingized. There is no need for oiling, greasing, or other mechanical attention for the life of the compartment.

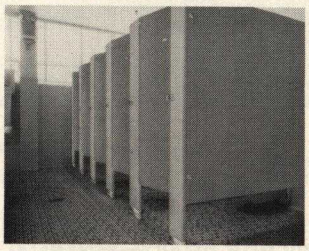
All the features shown on these two pages are furnished *only* by Sanymetal, and those marked with a star are on all types of Sanymetal Compartments. The latter are written right into Sanymetal specifications, and are not just "showcase" items furnished with one or two deluxe models. These features, developed or adopted by Sanymetal to provide necessary quality, put Sanymetal Compartments in a class by themselves.

*SANYMETAL "8800" FLUSH LATCH



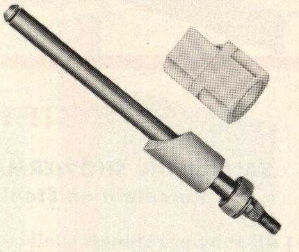
This is the only modern latch available on toilet compartment doors. Eliminates unsightly slide-bolt and throw-bolt assemblies which catch dirt and pinch fingers.

*FLUSH PILASTER SURFACES



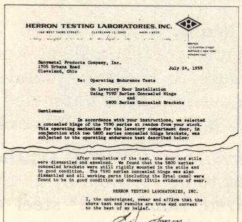
Quicker cleaning, lower maintenance cost, and much, much better appearance are benefits of keeping pilaster surfaces completely smooth, without interruption, bolts, screws, or hinge brackets.

*ZYTEL-CAMMED HINGE DESIGNED FOR ONE-LEVEL SWING



The Sanymetal "7950" Hinge is unlike any other in that it gives you both the mechanical advantage of Zytel cams, and the architectural advantage of having the door remain on one level when opened and closed, preserving the uniform architectural lines of the installation.

*HINGES TESTED TO MORE THAN 1,000,000 SWINGS *by an independent laboratory*



HERRON TESTING LABORATORIES, INC.

Sanymetal Products Company, Inc.
1705 Urbana Road
Cleveland, Ohio

July 24, 1959

Re: Operating Endurance Tests

On Lavatory Door Installation
Using 7590 Series Concealed Hinge
and
5800 Series Concealed Brackets

Gentlemen:

In accordance with your instructions, we selected a concealed hinge of the 7590 series at random from your stock. This operating mechanism for the lavatory compartment door, in conjunction with two 5800 series concealed hinge brackets, was subjected to the operating endurance test described below:

After completion of the test, the door and stile were dismantled and examined. We found that the 5800 series concealed brackets were still rigidly mounted in the stile and in good condition. The 7590 series concealed hinge was also dismantled and all working parts (including the Zytel cams) were found to be in good condition and showed little evidence of wear.

HERRON TESTING LABORATORIES, INC.

I, the undersigned, swear and affirm that the above test and results are true and correct to the best of my belief.

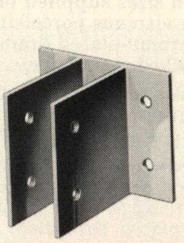
L. S. Johnson
L. S. Johnson

Sworn and subscribed to before me this 24th day of July, 1959.

Eleanor M. Cowell
Eleanor M. Cowell, Notary Public
My Commission Expires August 7, 1959

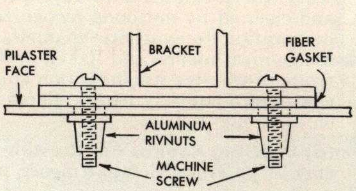
Sanymetal hinges are fully tested, *by using a complete door hung in the normal manner, in an independent testing laboratory.* You can rely on the results as indicative of objective, engineering facts.

PORCELAIN PROPERLY HANDLED

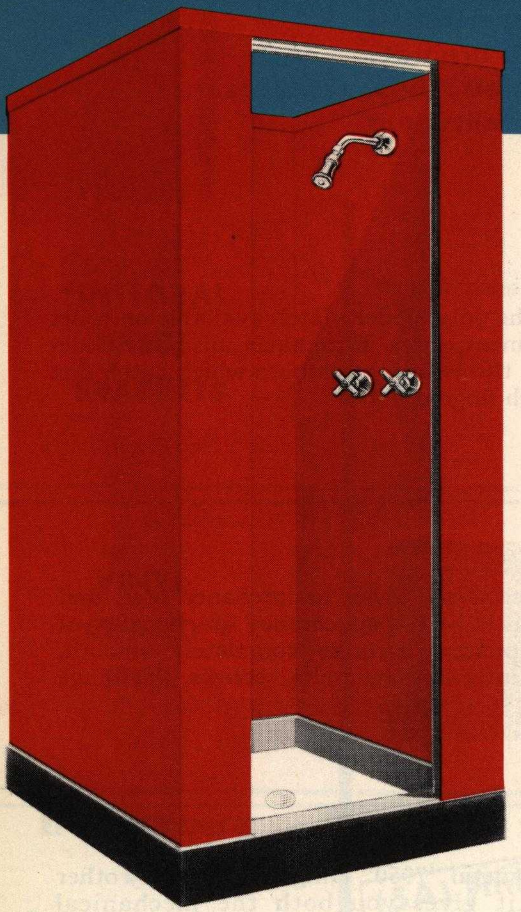


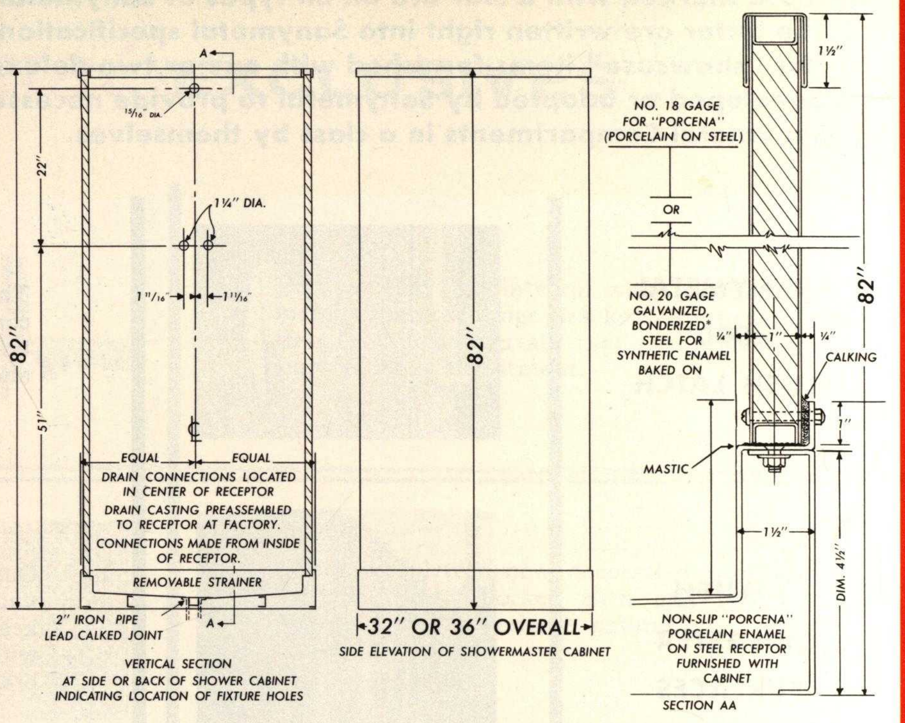
Sanymetal follows procedures and provides hardware suitable for maximum results from porcelain enamel. No holes or breaks are made in the enamel surface, at the factory. Sanymetal hardware has the extra strength required for satisfactory assembly and mounting of porcelain compartments.

*RIVNUTS, WITH FIBER GASKET ON PORCELAIN



To connect porcelain-finished pilasters to side partitions Sanymetal uses aluminum rivnuts with a fiber gasket. Rivnuts with machine screws engage 3 times as many threads as tapped plates, produce a stronger support, and also prevent chipping. The gasket cushions against cracking. Corrosion-resistant aluminum affords durability appropriate for porcelain installations.




A
15/16" DIA.
22"
1¼" DIA.
1 11/16"
1 11/16"
82"
51"
EQUAL
EQUAL
DRAIN CONNECTIONS LOCATED IN CENTER OF RECEPTOR
DRAIN CASTING PREASSEMBLED TO RECEPTOR AT FACTORY.
CONNECTIONS MADE FROM INSIDE OF RECEPTOR.
REMOVABLE STRAINER
2" IRON PIPE LEAD CALKED JOINT
A
82"
32" OR 36" OVERALL
1½"
NO. 18 GAGE FOR "PORCENA" (PORCELAIN ON STEEL)
OR
NO. 20 GAGE GALVANIZED, BONDERIZED* STEEL FOR SYNTHETIC ENAMEL BAKED ON
¼"
1"
¼"
CALKING
82"
1"
MASTIC
1½"
DIM. 4½"
NON-SLIP "PORCENA" PORCELAIN ENAMEL ON STEEL RECEPTOR FURNISHED WITH CABINET

VERTICAL SECTION AT SIDE OR BACK OF SHOWER CABINET INDICATING LOCATION OF FIXTURE HOLES

SIDE ELEVATION OF SHOWERMASTER CABINET

SECTION AA

CONSTRUCTION DETAILS—SANYMETAL SHOWERMASTER CABINET

PLAN DETAIL ST88, PAGE 31

Improved SHOWERMASTER

SHOWER CABINET

New design of the Showermaster makes these cabinets more handsome, much easier to install, and more practical for installation in close quarters and in batteries. Assembly is by a "push-button" locking device which permits easy handling of the job – just put the back wall in place, bring each of the two sides into position, depress the "push-button" on each side, and the major part of the installation is completed. The improved Showermaster can be installed *easily* in alcoves with as little as ¼" clearance on each side, and in multiple installations cabinets can be butted together.

With the new design the only seams are at the two rear corners, and these are drawn very tight by the "push-button" locking mechanism, so calking is easy and neat.

Available in Two Materials:

(1) Sanymetal "Porcena" (Vitreous Porcelain on Steel).

(2) Sanymetal Synthetic Enamel Baked-on over Galvanized, Bonderized* Steel.

All Showermasters furnished with Porcena vitreous porcelain-enamel-on-steel receptors. For colors see page 20 (one color only; 2-color combinations not available.)

Sanymetal Showermaster Cabinets feature 3-ply construction, consisting of two sheets of metal compressed to BRIDGECORE. (Walls of ordinary cabinets are made of a single sheet of steel, which, when struck, give off characteristic "sheet music.") A Showermaster is built to remain serviceable, sanitary, and attractive long after cabinets of single sheet construction have deteriorated.

The Showermaster assembly include 3 walls and entrance (flush type, fully insulated) and receptor of porcelain enamel with integral drain. Special finish of the porcelain enamel gives it a non-slip surface.

Showermasters are shipped disassembled. For multiple units, filler plates are available to allow any desired spacing.

Glass doors (furnished by others) are the appropriate closure for cabinets of this quality. Chrome-plated curtain rods are furnished.

Standard sizes: 32" x 32" x 82"; 36" x 36" x 82"

SPECIFICATIONS

SANYMETAL SHOWERMASTER "Porcena" (Vitreous Porcelain on Steel) SHOWER CABINETS

(1) All shower cabinets shall be Showermaster Flush Type as manufactured by The Sanymetal Products Co., Inc., Cleveland, Ohio.

(2) Walls: Walls to be 76" high by 1" thick, made of two sheets of 18 gauge porcelain sheet steel, assembled over and cemented under pressure to a dense, sound-deadening core insulation. Walls to be vitreous porcelain enameled on all surfaces, with color coats of vitreous porcelain on visible exterior surfaces only.

Alternate material: If synthetic enamel is desired, use the following: Walls to be 76" high by 1" thick, made of two sheets of 20 gage galvanized, Bonderized* steel cemented to a dense, sound-deadening core insulation.

(3) Receptors: Receptors shall be 32" by 32" (or 36" by 36") (other standard sizes supplied on special order) made of black and white Porcena vitreous porcelain enamel, with which shall be furnished a brass chrome-plated drain, with removable strainer, to receive a 2" inside calked waste pipe.

(If precast terrazzo receptor is required, specify ". . . made of black and white precast terrazzo material in which shall be cast a brass chrome-plated drain . . ." etc.)

(4) Hardware: (Specify walls to be drilled for valves and shower head.) Valves, shower head, soap dish, shower door or curtain, and similar fittings to be supplied by others. Curtain rod, 1/2" round, chrome-plated, furnished.

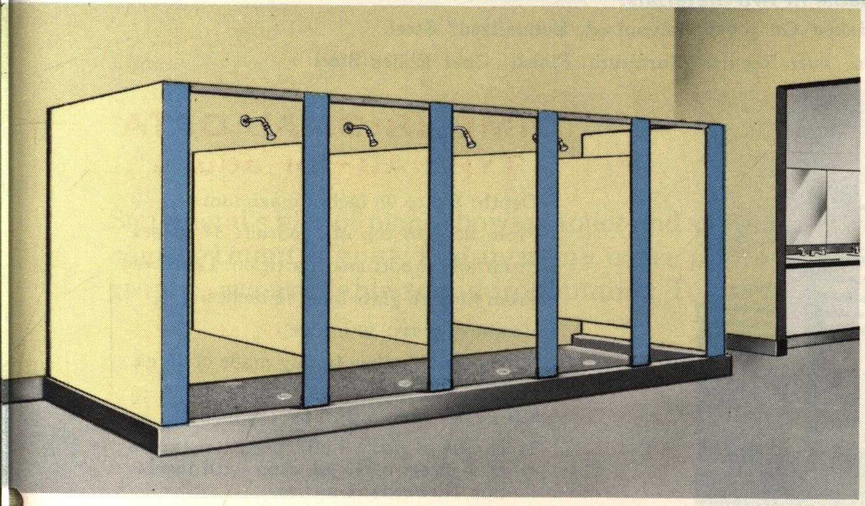
(5) Finish: Sanymetal "Porcena" (vitreous porcelain on steel) as described on page 18.

(If synthetic enamel is desired, specify: All metal surfaces to be sanded and cleaned by methods recognized as good commercial practice in preparation for synthetic enamels, which are to be applied by modern mechanical means and baked-on to provide a uniform, smooth, lustrous protective finish, which shall consist of an Epon resin prime coat and a color synthetic finish coat of high-temperature baked-on enamel.)

(6) Dressing Rooms: For dressing rooms use specifications for Academy Type Toilet Compartments, page 14.

IMPORTANT: Sanymetal Showermasters can be built into multiple-unit installations with dressing rooms. See Layout ST88, page 31.

SHOWER STALLS AND DRESSING ROOM COMPARTMENTS

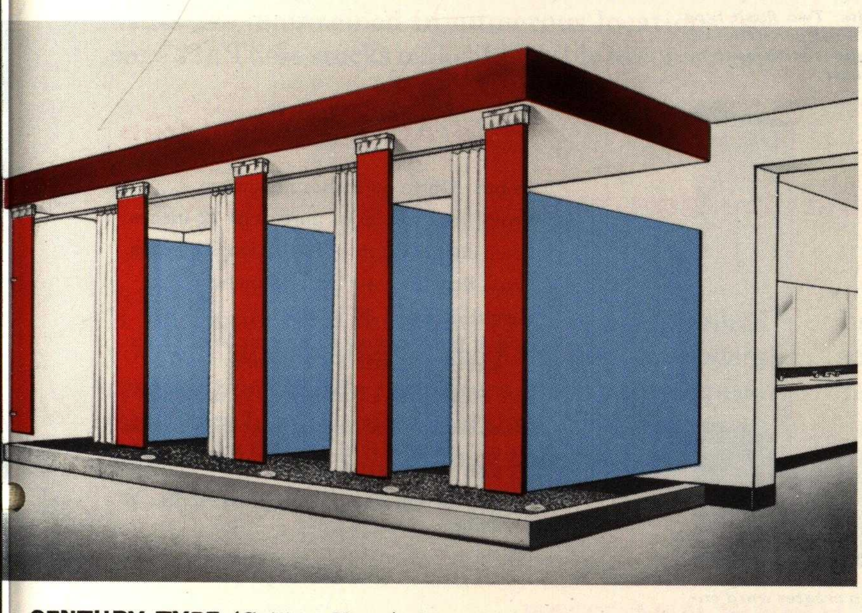


ACADEMY TYPE *Shower Stalls as installed in employee shower room of a large steel company.*

ACADEMY TYPE

Academy Type Shower Stalls are available in Sanymetal "Porcena" or Sanymetal Synthetic Enamel Baked-On over Galvanized, Bonderized* Steel. (Shower basin with curb to be constructed by others.) Consult your Sanymetal Representative or write to factory for details showing how end panels are fitted to curb of shower basin. Overhead bracing serves as curtain rods. Curtains furnished at extra cost.

SPECIFICATIONS . . . Page 14
LAYOUT SO 88 . . . Page 31

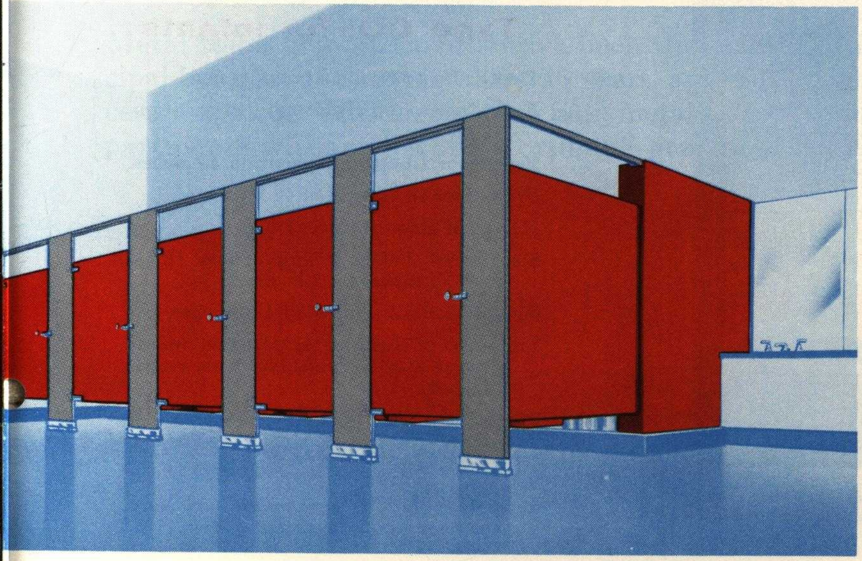


CENTURY TYPE *(Ceiling Hung) Shower Stalls, a type of construction which combines attractiveness with low cleaning maintenance cost.*

CENTURY TYPE

Century Type (Ceiling Hung) Shower Stalls are available in Sanymetal "Porcena" or Sanymetal Synthetic Enamel Baked-On over Galvanized, Bonderized* Steel. (Shower basin with curb to be constructed by others.) Refer to page 6 for detail and method of suspending stalls from overhead carrying member. (Carrying member to be constructed and installed by others.) Curtain rods and curtains to be furnished at extra cost.

SPECIFICATIONS . . . Page 12



ACADEMY TYPE *Shower and Dressing Room Compartments.*

ACADEMY TYPE
SHOWER AND DRESSING ROOMS

Academy Type Shower and Dressing Room Compartments are supplied either in Sanymetal "Porcena" or Sanymetal Synthetic Enamel Baked-On over Galvanized, Bonderized* Steel. (Shower basin and curb to be supplied by others.) Consult your Sanymetal Representative or write to factory for details showing how panels are fitted to curb of shower basin.

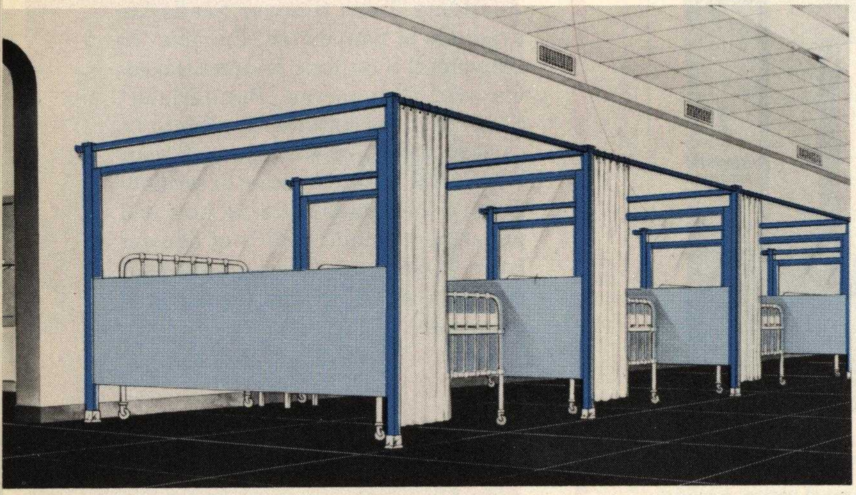
SPECIFICATIONS . . . Page 14
LAYOUT SH 88 . . . Page 31

Sanymetal® FLUSH TYPE HOSPITAL CUBICLES

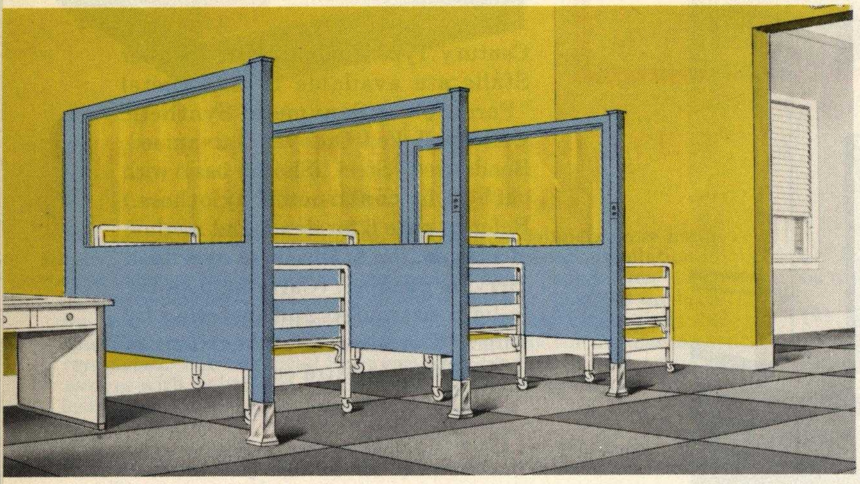
Available in two materials:

Synthetic Enamel Baked-On over Galvanized, Bonderized* Steel.

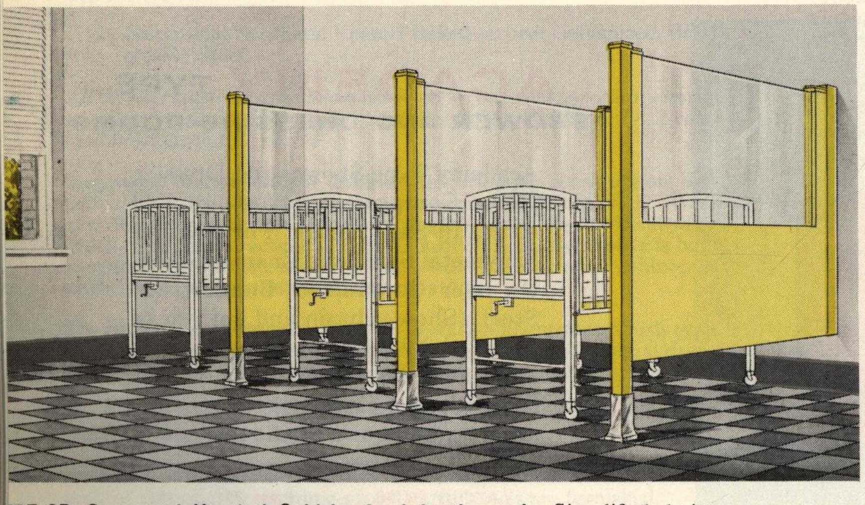
Synthetic Enamel Baked-On over Regular Furniture Finish Cold Rolled Steel.



PE AD: Sanymetal Hospital Cubicles for adult wards *consist of three units: Two flush type nd-deadened steel and glass partitions with headrail assembly—a strong sound construction oughout. Hollow posts provide means for enclosing wiring and oxygen pipes with outlets. rtains furnished at additional cost. Construction details available on request.*



PE ADS: Sanymetal Hospital Cubicles for children's wards. *Simplified design creates ward en- nment in harmony with modern interior treatments, providing adequate privacy for patients ile maintaining the effect of open area spaciousness. Hollow posts provide means for enclos- wire and oxygen pipes with outlets. Construction details available on request.*



PE CD: Sanymetal Hospital Cubicles for infant's wards. *Simplified design preserves open a spaciousness throughout ward area yet provides adequate privacy. Construction details ailable on request.*

DIMENSIONAL DATA
TYPE AD–for adults

Depth: Up to 96 inches maximum.

From floor to top of headrail: 84 inches.

From floor to bottom of partition: 12 inches.

From floor to glass line: 42 inches.

Height of glass: 30 inches.

Size of post (hollow tubing made of 16 ga. steel): 2 inches by 2 inches.

Size of headrail: 1 inch by 1½ inches.

Thickness of flush metal partition (made of 2 sheets of 20 ga. steel with insulation between): 2 inches.

Height of chrome-plated brass shoes: 1½ inches.

Type ADS–for children

Depth: Up to 60 inches maximum.

From floor to top of partition: 72 inches.

From floor to bottom of partition: 12 inches.

From floor to glass line: 42 inches.

Height of glass: 30 inches.

Size of post (hollow tubing made of 16 ga. steel): 2 inches by 2 inches.

Size of headrail: 1 inch by 1½ inches.

Thickness of flush metal partition (made of 2 sheets of 20 ga. steel with insulation between): 2 inches.

Height of chrome-plated brass shoes: 6 inches.

Type CD–for infants

Depth: Up to 54 inches maximum.

From floor to top of glass area in partition: 72 inches.

From floor to bottom of partition: 12 inches.

From floor to glass line: 42 inches.

Height of glass: 30 inches.

Size of post (hollow tubing made of 16 ga. steel): 2 inches by 2 inches.

Size of headrail: 1 inch by 1½ inches.

Thickness of flush metal partition (made of 20 ga. steel with insulation between): 2 inches.

Height of chrome-plated brass shoes: 6 inches.

For greater detail of construction, consult ***The Sanymetal Products Co., Inc.***

For colors see page 20.

AIDS TO ARCHITECTS, OWNERS, BUILDERS AND CONTRACTORS

PLANNING

Sanymetal's files of plans showing toilet and shower compartment layout, and in many cases photographs, are available to aid in planning. To draw on these files, consult your Sanymetal Representative, or describe your problem in detail in a letter directed to Sanymetal's Engineering Department.

STOCKS

Stocks of Sanymetal Toilet Compartment components are maintained in numerous locations (see page 32). These stocks make it possible to solve many problems involving quick delivery. (Note, however, that choice of types and colors from stock is necessarily limited.)

SEE-FOR-YOURSELF TOURS

If an important installation is being planned, you will be well advised to check *how Sanymetal installations made for others* meet your requirements for beauty and durability. Your Sanymetal Representative will arrange to take you to visit both new and old Sanymetal installations in your vicinity – you can see for yourself the quality features provided. Or, write for the list of thousands of Sanymetal Porcena installations, and check those which are nearby.

PART AND FINISH AVAILABILITY

Metal toilet compartments have been the principal business of Sanymetal for 45 years, and will continue to be. This means that Sanymetal Compartments will not become "orphan" brands – there is a reliable, continuing source of engineered parts. Note in particular the availability of correct air-drying enamels for maintenance of Baked Enamel Finishes. (See page 20).

REPRESENTATIVES EASY TO REACH

There are Sanymetal Representatives in more than 130 cities in the continental United States. This assures fast, convenient service near the site of any installation.

Sanymetal® TOILET AND SHOWER

Various toilet and shower compartment layouts are here illustrated to assist architects and engineers.

Sanymetal has a wide variety of other layouts on file. You may draw on these files by consulting your local Sanymetal Representative, or by describing your problem in detail by letter direct to Sanymetal's Engineering Department.

STANDARD SIZES OF COMPARTMENTS:

Width: 32, 34 and 36 inches; center to center of compartment
Depth: 57 inches
Heights of Partitions: 57½ inches; Doors: 58 inches
Distance from floor to bottom of Partitions: 12½ inches
Distance from floor to bottom of Door: 12 inches
Distance from floor to top of Partitions: 70 inches; to top of Doors: 70 inches
Distance from top of Doors to top of Headrail: 12 inches
Overall heights measured from top of floor to top of Headrail: 82 inches

STANDARD WIDTHS OF PILASTERS:

2, 3, 4, 5, 6, 7, 8, 9, 10, 12 and 14 inches

STANDARD WIDTHS OF DOORS:

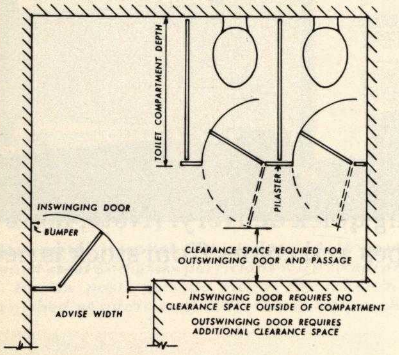
For Door openings: 22, 24, 26, 28, 30, 31, 33 inches wide

The foregoing dimensions comply with the modular system of dimensional coordination and are standard stock sizes for Partitions, Doors and Pilasters.

STANDARD SIZES FOR PARTITIONS, PILASTERS, AND DOORS:

You gain worth-while advantages by specifying standard size compartments wherever possible. Standard sizes permit you to use standard layouts. You also benefit from the fact that standard sizes are more quickly and economically fabricated, delivered, and installed.*

**Compartments also available in sizes larger or smaller than sizes shown.*


TOILET COMPARTMENT DEPTH
PILASTER
INSWINGING DOOR
BUMPER
CLEARANCE SPACE REQUIRED FOR OUTSWINGING DOOR AND PASSAGE
ADVISE WIDTH
INSWINGING DOOR REQUIRES NO CLEARANCE SPACE OUTSIDE OF COMPARTMENT
OUTSWINGING DOOR REQUIRES ADDITIONAL CLEARANCE SPACE

PLAN

Layout SM88

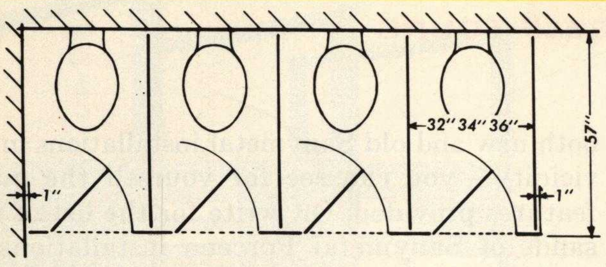
Advantages of Inswinging Doors Over Outswinging Doors

Sanymetal furnishes both inswinging and outswinging doors, but recommends use of inswinging doors.

For safety, corridors and aisles should be unobstructed at all times. Inswinging doors permit unobstructed passage space.

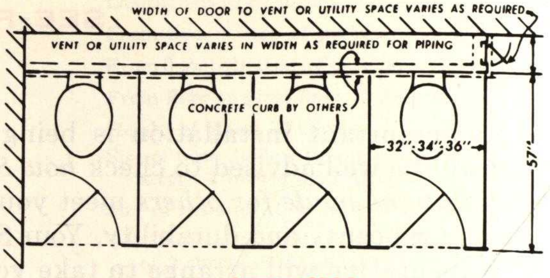
Inswinging doors require deeper compartments, but outswinging doors do not reduce essential compartment depth sufficiently to overcome the disadvantages they entail. Actually, the space required for the outswing of a door plus extra aisle clearance for persons to avert possible injury, requires more floor space than is necessary for an installation with doors which swing in.

Inswinging doors should be installed to stand open, thus indicating whether compartment is in use. Cleaning is more thorough when doors stand open, because cleaner can use both hands on the mop, not one on the door, one on the mop. So installed, inswinging doors are always latched when closed, thereby preventing danger of injury to individuals.


32" 34" 36"
57"
1"
1"

Layout SA88

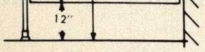
Back-To-Wall Toilets Without Vent


WIDTH OF DOOR TO VENT OR UTILITY SPACE VARIES AS REQUIRED
VENT OR UTILITY SPACE VARIES IN WIDTH AS REQUIRED FOR PIPING
CONCRETE CURB BY OTHERS
32" 34" 36"
57"

Layout SB88

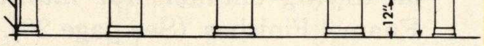
Back-To-Wall Toilets With Vent

PLAN—FURRED SPACE


HEADRAIL OVER END STALL EXTENDING FROM PILASTER TO WALL
¾"
11¼"
82"
58"
12"

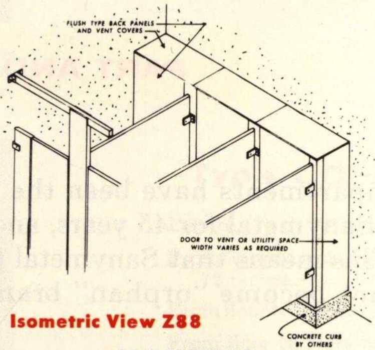
Layout SA88

END ELEVATION


¾"
11¼"
58"
82"
12"

Layout SA88—Front Elevation

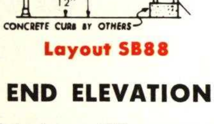
ELEVATION


FLUSH TYPE BACK PANELS AND VENT COVERS
DOOR TO VENT OR UTILITY SPACE WIDTH VARIES AS REQUIRED
CONCRETE CURB BY OTHERS

Isometric View Z88

ISOMETRIC

Showing flush type backs and vent covers enclosing vent space or utility compartment. Flush type backs and vent on utility compartment set on concrete curb to be constructed by others.


HEADRAIL OVER END STALL EXTENDING FROM PILASTER TO WALL
WIDTH OF DOOR TO VENT OR UTILITY SPACE VARIES AS REQUIRED
¾"
11¼"
82"
58"
57"
12"
CONCRETE CURB BY OTHERS

Layout SB88

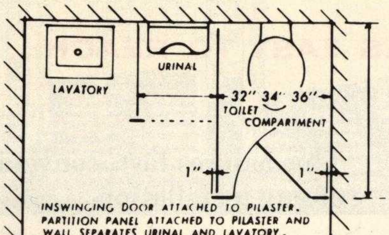
END ELEVATION

Note how utility compartment and metal backs are set on concrete curb to be constructed by others.

Layout SE88

Single Toilet Compartment with Urinal Stall and Lavatory

Note use of dividing Partition to separate urinal from lavatory.

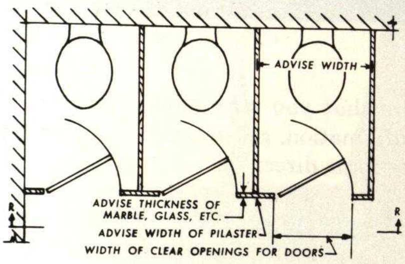

LAVATORY
URINAL
32" 34" 36"
TOILET COMPARTMENT
1"
1"
INSWINGING DOOR ATTACHED TO PILASTER.
PARTITION PANEL ATTACHED TO PILASTER AND WALL SEPARATES URINAL AND LAVATORY.
DEPTH SPECIFY AS REQUIRED.

Layout SB88

Back-To-Wall Toilets With Vent

Back-to-wall toilets with vent provide a vent or utility space of the same height as the dividing Partition panels. This utility space is between the rear of the compartment and the wall of the room. Utility space is usually covered at top and equipped with Door. Compartments have removable metal backs as illustrated in Isometric View Z88. Utility compartment and removable metal backs are set on concrete curb to be constructed by others. Removable metal backs provide freer access to concealed plumbing.

COMPARTMENT INSTALLATIONS...


ADVISE WIDTH
ADVISE THICKNESS OF MARBLE, GLASS, ETC.
ADVISE WIDTH OF PILASTER
WIDTH OF CLEAR OPENINGS FOR DOORS
R

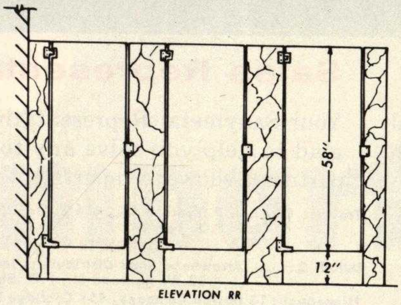
PLAN

Layout SK88

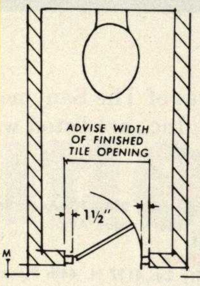
Metal Doors for Compartments of Marble, Glass, etc.

Layout SK88
Elevation RR88

Shows installation of metal doors on compartments of marble, glass, etc. (*Right or left swing furnished. Advise which is required.*)


58"
12"
ELEVATION RR

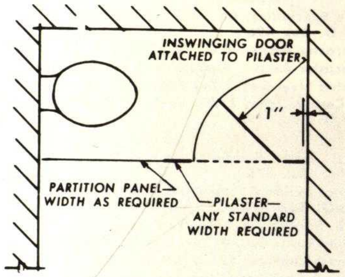
ELEVATION


ADVISE WIDTH OF FINISHED TILE OPENING
1½"
M
M

Layout SP88

Metal Door Installed on Masonry Entrance to Auxiliary Toilet or Shower Room

PLAN


INSWINGING DOOR ATTACHED TO PILASTER
1"
PARTITION PANEL WIDTH AS REQUIRED
PILASTER—ANY STANDARD WIDTH REQUIRED

Layout SR88

PLAN

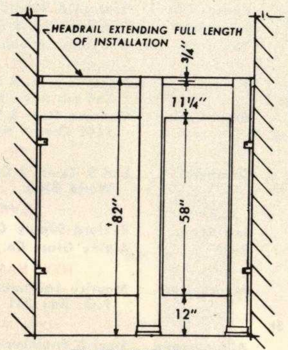
Layout SR88

Single Toilet Compartment in Alcove

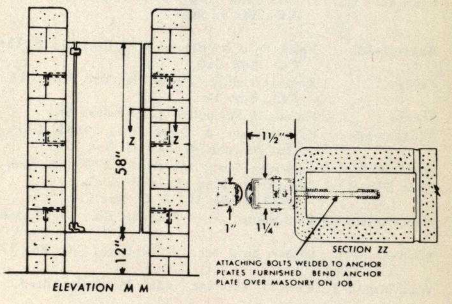
In this type of installation avoid use of Normandie Type (floor supported) and Century Type (ceiling hung). Academy Type (overhead braced) is required.

Elevation

Shows Partition panel attached to Pilaster, forming permanent enclosure for compartment with inswinging Door mounted on Pilaster, providing ready access.

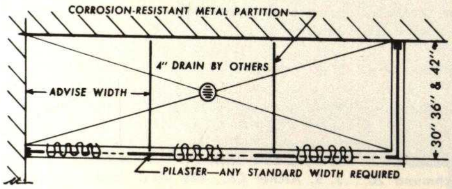

HEADRAIL EXTENDING FULL LENGTH OF INSTALLATION
¾"
11¼"
82"
58"
12"

ELEVATION


58"
12"
Z
Z
ELEVATION M M
1½"
1"
1¼"
SECTION ZZ
ATTACHING BOLTS WELDED TO ANCHOR PLATES FURNISHED BEND ANCHOR PLATE OVER MASONRY ON JOB

Layout SP88
Elevation MM88

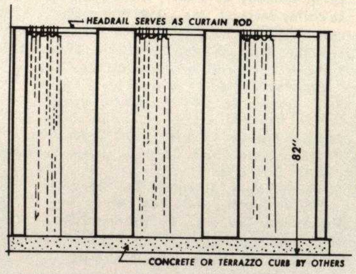
ELEVATION


CORROSION-RESISTANT METAL PARTITION
4" DRAIN BY OTHERS
ADVISE WIDTH
30" 36" & 42"
PILASTER—ANY STANDARD WIDTH REQUIRED

Layout SO88

Shower Stall Installation

PLAN

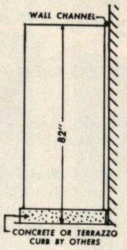

HEADRAIL SERVES AS CURTAIN ROD
82"
CONCRETE OR TERRAZZO CURB BY OTHERS

Note how overhead bracing serves as curtain rod.

ELEVATION

Layout SO88

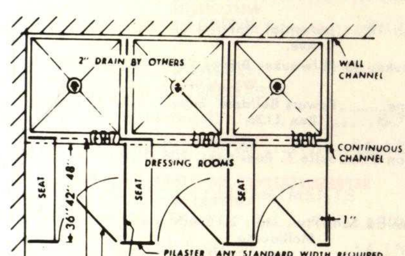
Front Elevation


WALL CHANNEL
82"
CONCRETE OR TERRAZZO CURB BY OTHERS

Layout SO88

Requires shower basin and concrete or terrazzo curb to be constructed by others.

END ELEVATION

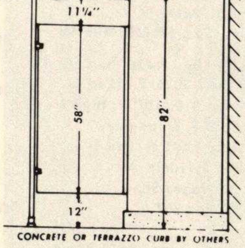

2" DRAIN BY OTHERS
WALL CHANNEL
CONTINUOUS CHANNEL
DRESSING ROOMS
SEAT
SEAT
SEAT
36" 42" 48"
1"
PILASTER ANY STANDARD WIDTH REQUIRED
CORROSION RESISTANT METAL PARTITION
INSWINGING DOOR ATTACHED TO PILASTER
HEADRAIL SERVES AS CURTAIN ROD

PLAN

Layout SH88

Shower and Dressing Room Compartments

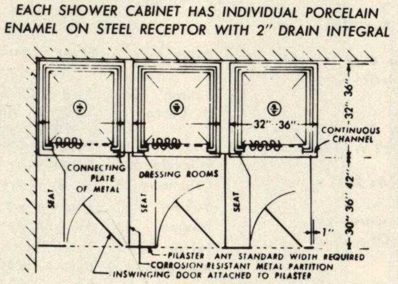
Shower and dressing room compartments installed on shower basin and concrete or terrazzo curb to be constructed by others as illustrated on End Elevation. Shower compartments are constructed of special shaped end panel set on curb and dividing Partitions attached to Pilasters. Dressing room compartments are constructed of Partitions, Pilasters and inswinging Doors with seats attached to Pilasters as illustrated on Page 27.


¾"
WALL CHANNEL
11¼"
58"
82"
12"
CONCRETE OR TERRAZZO CURB BY OTHERS

END ELEVATION

Layout SH88

Note end panel of full height for shower compartment in contrast with Partition for dressing room compartment with overhead bracing for consolidating dressing room and shower compartments into a complete installation. Illustrated on Page 27

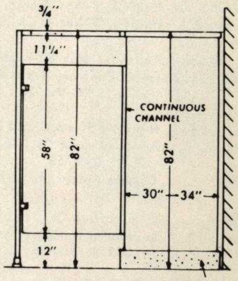

EACH SHOWER CABINET HAS INDIVIDUAL PORCELAIN ENAMEL ON STEEL RECEPTOR WITH 2" DRAIN INTEGRAL
32" 36"
32"·36"
CONTINUOUS CHANNEL
CONNECTING PLATE OF METAL
DRESSING ROOMS
SEAT
SEAT
SEAT
30" 36" 42"
1"
PILASTER ANY STANDARD WIDTH REQUIRED
CORROSION RESISTANT METAL PARTITION
INSWINGING DOOR ATTACHED TO PILASTER

PLAN

Layout ST88

Showermaster Cabinet Showers and Dressing Room Compartments

This shows a permanent installation of individual Sanymetal Showermaster Shower Cabinets with dressing room compartments attached to each shower unit. Dressing rooms are separated from shower by curtains. Sanymetal Showermaster Cabinets are illustrated on page 26. Dressing rooms are constructed of partitions, pilasters, and inswinging doors. Showermaster includes receptor, made of Porcena porcelain enamel on steel (with non-slip surface) having integral drain. For shower cabinet sizes, see page 26.


¾"
11¼"
CONTINUOUS CHANNEL
58"
82"
82"
30"
34"
12"

PORCELAIN ENAMEL ON STEEL (SPECIAL NON-SLIP SURFACE) RECEPTOR WITH SHOWER CABINET.

END ELEVATION

Layout ST88

Shows placement of Showermaster Shower Cabinet with precast receptor and dressing room compartment overhead braced. Note that in this case overhead bracing extends over top of shower cabinet and is attached to wall.

Sanymetal®

TOILET COMPARTMENTS

SHOWER COMPARTMENTS • HOSPITAL CUBICLES

Sales Representatives

Sales Representatives of The Sanymetal Products Company, Inc., are listed with their addresses below. Your Sanymetal Representative will be glad to help you solve any toilet compartment, shower compartment, or cubicle problem that you may have. For complete information, get in touch with him, or write to us direct.

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Mobile...Elmer Ezell, Inc., 166 Morgan Ave., P.O. Box 6231

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*Augusta...Products, Inc., 640 11th St.
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Wheeling...W. E. Britt & Co., 404 Board of Trade Bldg.

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WEIS compartments

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HENRY WEIS MFG. CO., INC. Elkhart, Indiana

84 years designing and manufacturing

WEIS

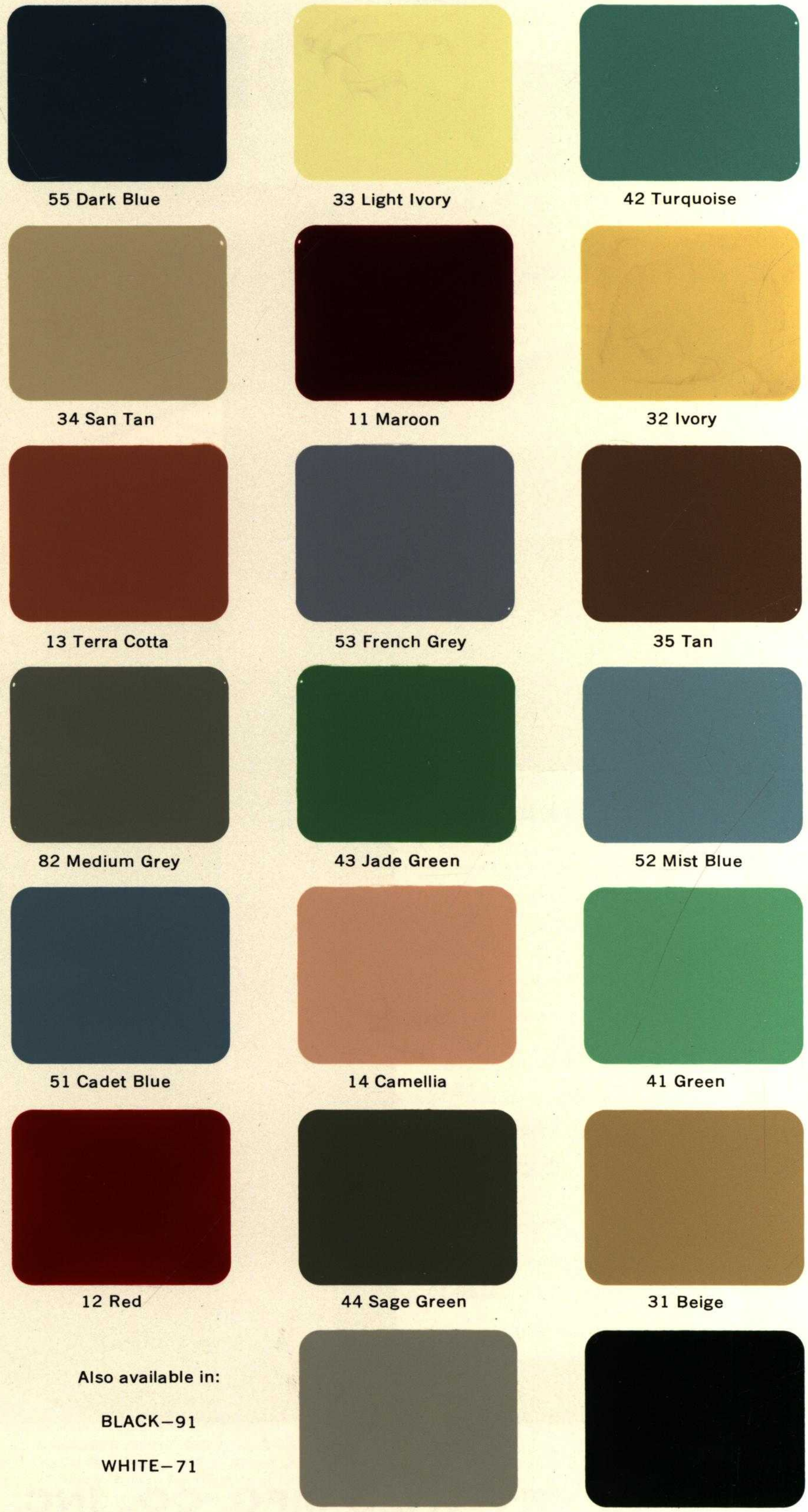
originated
the
metal
toilet
compartment

Because of the many variable and uncontrollable factors that affect the baking or firing process, and because responsible manufacturers of baking enamel and porcelain frit retain the privilege of a reasonable color variation, we are consequently unable to guarantee the exact matching of colors.

Any two colors may be selected on Vitre-Steel orders. Additional colors slight extra charge.

22 beautiful colors

for every need in
single or combination color planning



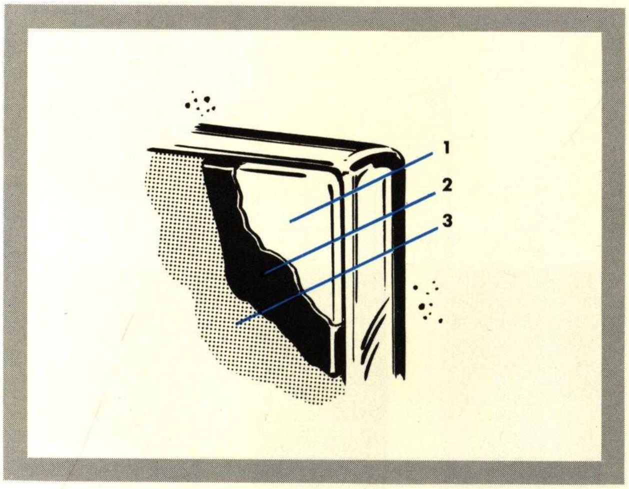
55 Dark Blue
33 Light Ivory
42 Turquoise
34 San Tan
11 Maroon
32 Ivory
13 Terra Cotta
53 French Grey
35 Tan
82 Medium Grey
43 Jade Green
52 Mist Blue
51 Cadet Blue
14 Camellia
41 Green
12 Red
44 Sage Green
31 Beige
81 Light Grey
45 Dark Green

Also available in:

BLACK—91

WHITE—71

WEIS FINISHES



VITRE-STEEL

porcelain enamel

1. ***Enameling iron***
2. ***Ground coat (porcelain enamel)***
3. ***Cover coat (porcelain enamel)***

Vitre-Steel finish may be specified for Ceiling Hung, Floor Braced and Hi-Stile compartments. The enameling iron is completely sealed with porcelain enamel, fired (not baked) inside and outside the double-wall partitions, stiles and doors. Surfaces are then refired in your choice of Vitre-Steel colors. Glass-hard Vitre-Steel finishes withstand not only normal every day usages, but the attacks of acids, cleaning compounds and resist defacement.

BAKED ENAMEL

on bonderized galvanized steel

Years of lasting beauty . . . that's the service promise assured by the Weis label:

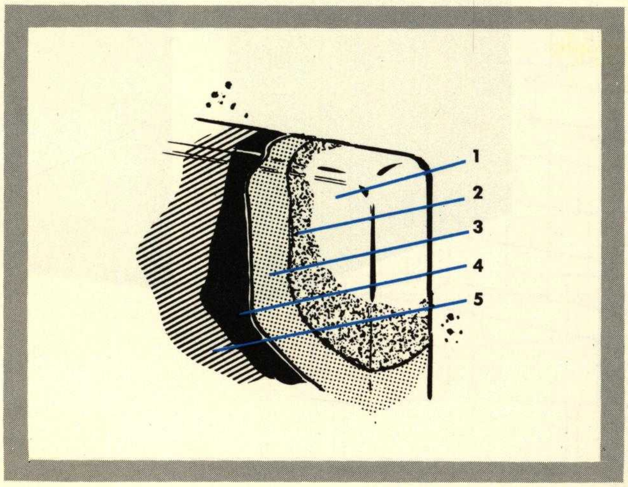
1. Cold rolled steel.

2. Galvanized, surface smoothness equivalent to furniture steel, affords resistance to corrosion.

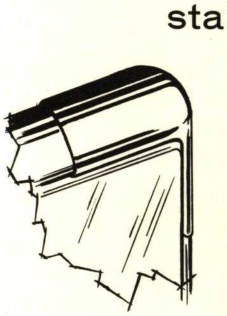
3. Bonderized, additional corrosion resistance and positive adhesion of enamel to metal.

4. Synthetic primer.

5. Enamel—combines highly protective surface coating with lustrous beauty in a wide range of colors.

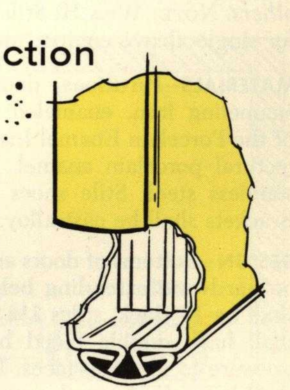


stainless steel corners



The new Weis stainless steel corner reinforcement is applied on all partitions and doors and does not disturb the bonderizing or galvanizing. Furthermore, the corners are completely covered by type 302 stainless steel. Corners finished by conventional welding and grinding lose their galvanized and bonderized coating.

flush type construction

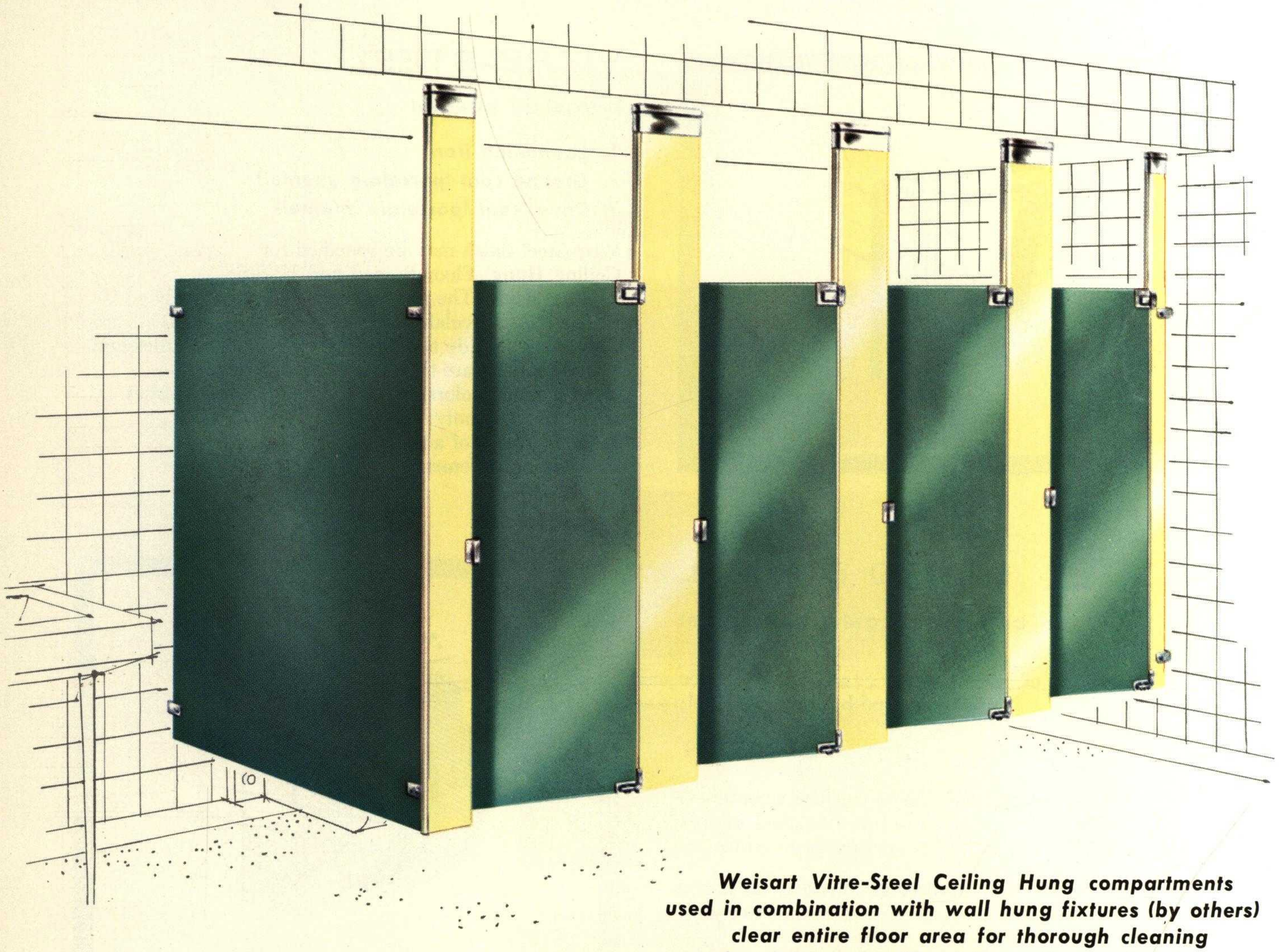


Flush partitions, stiles, and doors are made of two sheets spaced and insulated with double faced honeycomb cores cemented to inner surfaces under pressure. Each partition, stile, and door is welded into a rigid one piece unit, then bound with interlocking molding reinforced at corners with stainless steel.

All specifications subject to change without notice.

WEISART

VITRE-STEEL *(Porcelain Enamel)* CEILING HUNG COMPARTMENTS



Weisart Vitre-Steel Ceiling Hung compartments used in combination with wall hung fixtures (by others) clear entire floor area for thorough cleaning and maintenance with minimum time and cost. Completed installation, in accordance with specifications, provides trouble-free service for the life of the building

SPECIFICATIONS

GENERAL—Toilet compartments shall be Weisart Vitre-Steel, Ceiling Hung, as manufactured by Henry Weis Manufacturing Company, Inc., Elkhart, Indiana. Partitions, stiles, and doors shall be flush construction. *Structural members in ceilings by others.* NOTE: Weis Hi-Stile (overhead braced) recommended for single alcove compartments.

MATERIALS—Partitions, doors and stiles shall be 18 gauge enameling iron, enameled in accordance with specifications of the Porcelain Enamel Institute, Inc., for acid resisting architectural porcelain enamel. Edge molding shall be 20 gauge stainless steel. Stile shoes shall be stainless steel, 3″ high. Brackets shall be cast alloy.

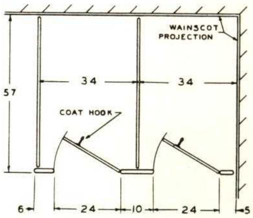
DESIGN—Bottoms of doors and stiles shall be in alignment, with no hardware extending below bottom line. Panels and doors shall be 1″ thick, stiles 1¼″ thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

FINISH—All surfaces, concealed and exposed, shall receive a vitreous porcelain enamel ground coat. All exposed surfaces shall receive a cover coat in color selected from the Weis color chart. (Combinations of three or more colors, slight extra charge.) Castings shall be chromium plated.

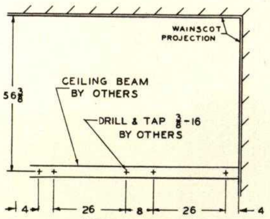
HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges, with stainless steel pintles and actuated by opposed nylon cams in the lower hinge. Hinges shall be recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks applied with theft resistant, one way screws. All hardware non-ferrous metal, chromium plated.

CEILING HUNG DETAILS

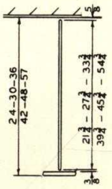
VITRE-STEEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

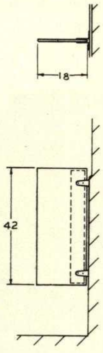
TYPICAL LAYOUT


WAINSCOT PROJECTION
CEILING BEAM BY OTHERS
DRILL & TAP 3/8-16 BY OTHERS
4
26
8
26
4

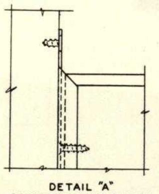
TYPICAL LAYOUT SHOWING CEILING BEAM & DRILLING REQUIRED


24–30–36
42–48–57
21½–27½–33½
39½–45½–54½

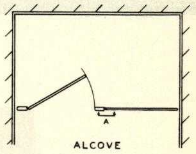
STANDARD SIZES



WALL HUNG URINAL SCREEN



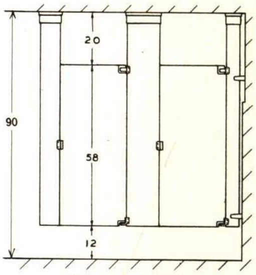
DETAIL "A"
CONNECTION BETWEEN PANEL & EDGE OF STILE



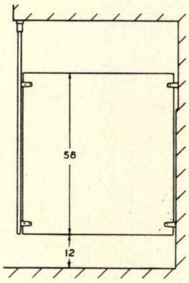
ALCOVE

POST AND HEADRAIL STAINLESS STEEL

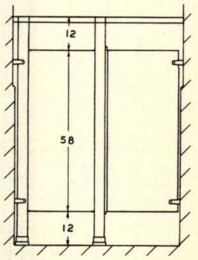
IN THIS TYPE OF INSTALLATION AVOID USE OF WEIS FLOOR BRACED AND CEILING HUNG TYPE. HI-STILE TYPE (HEADRAIL BRACED) IS RECOMMENDED.



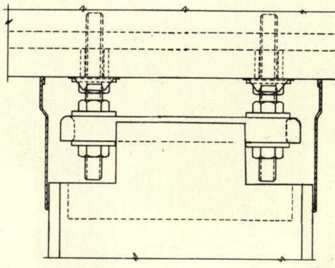
FRONT ELEVATION



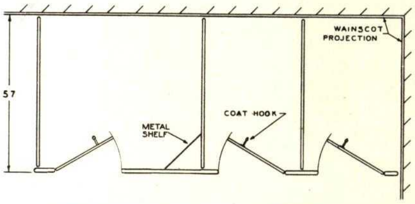
SIDE ELEVATION



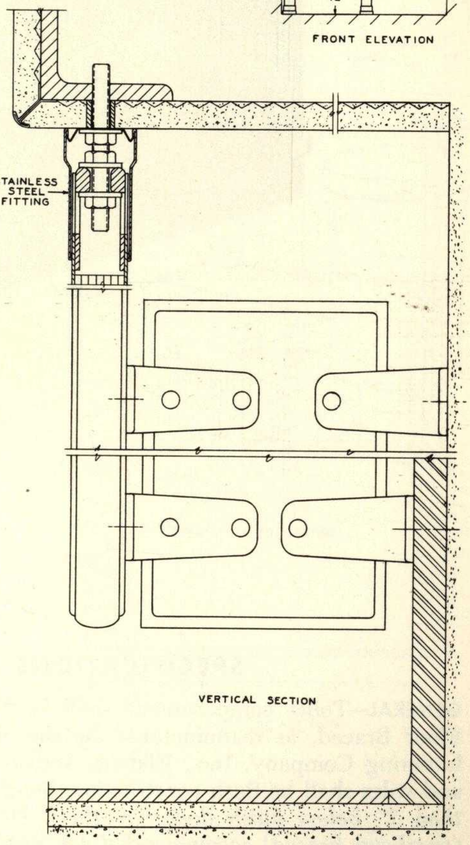
FRONT ELEVATION



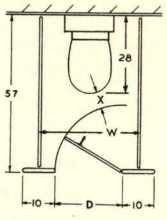
CEILING FASTENING FOR STILE


WAINSCOT PROJECTION
57
METAL SHELF
COAT HOOK

LAYOUT WITH LARGE COMPARTMENT OR ENTRANCE SCREEN

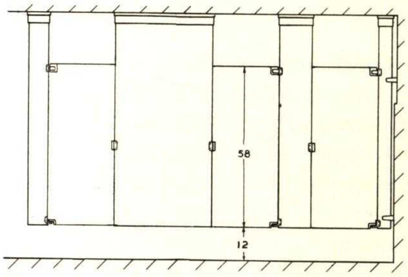

STAINLESS STEEL FITTING

VERTICAL SECTION

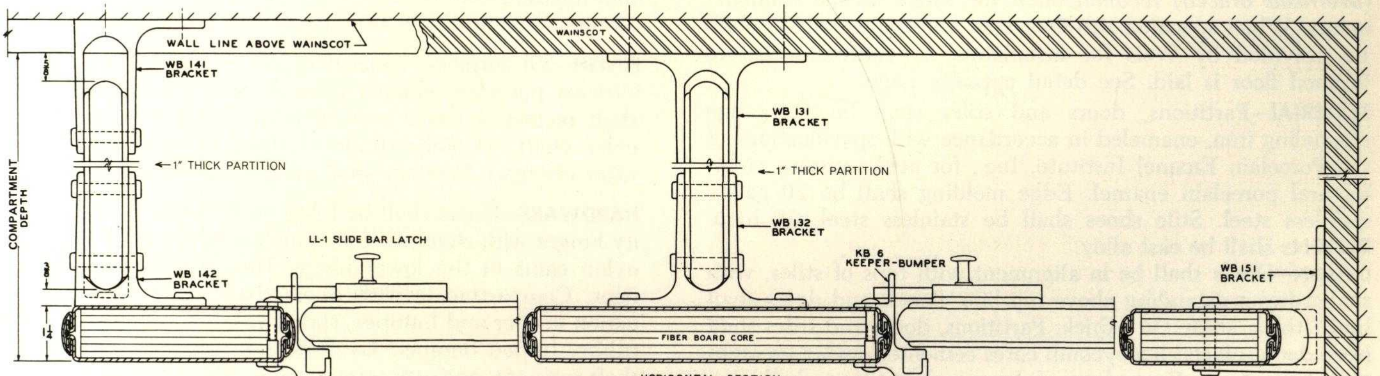

28
57
X
W
10
D
10

DOOR CLEARANCE SCHEDULE

W	D	X
32	22	9
34	24	7¼
36	26	5⅝



FRONT ELEVATION

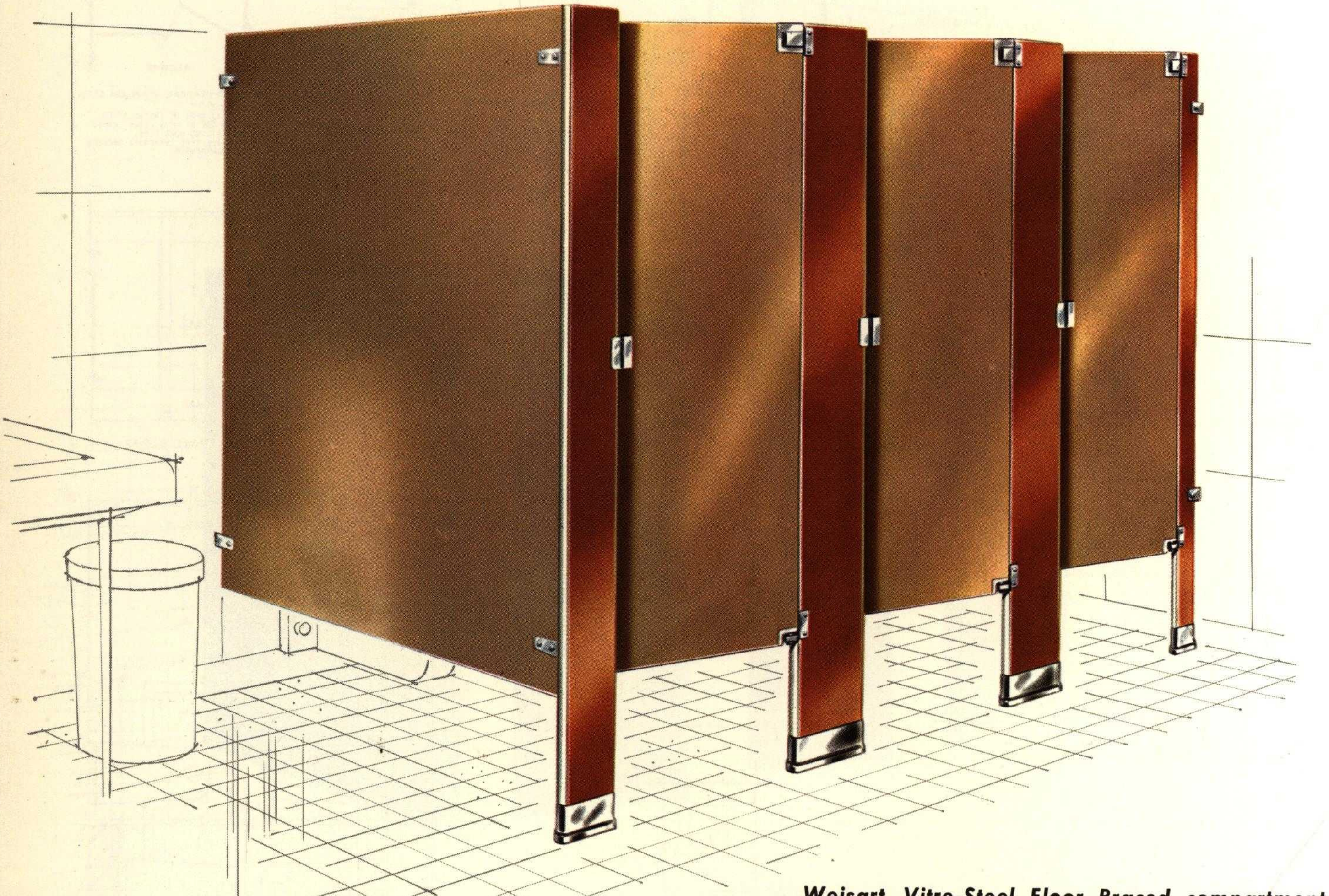

WALL LINE ABOVE WAINSCOT
WAINSCOT
WB 141 BRACKET
COMPARTMENT DEPTH
1" THICK PARTITION
WB 131 BRACKET
1" THICK PARTITION
WB 132 BRACKET
LL-1 SLIDE BAR LATCH
WB 142 BRACKET
KB 6 KEEPER-BUMPER
WB 151 BRACKET
FIBER BOARD CORE

HORIZONTAL SECTION

DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEISART

VITRE-STEEL *(Porcelain Enamel)* FLOOR BRACED COMPARTMENTS



Weisart Vitre-Steel Floor Braced compartments offer clean, horizontal lines created by rigid flush stile construction that entirely eliminates overhead bracing. The Weis upper inset hinge permits doors and stiles to line up at top.

SPECIFICATIONS

GENERAL—Toilet compartments shall be Weisart Vitre-Steel, Floor Braced, as manufactured by the Henry Weis Manufacturing Company, Inc., Elkhart, Indiana. Partitions, doors and stiles shall be flush construction. *Solid sub-floor not more than 2″ below finish floor by others.* NOTE: *Weis Hi-Stile (overhead braced) recommended for single alcove compartments.* When specified sub-floor stile anchor assemblies shall be provided by Weis for installation by contractor before finished floor is laid. See detail opposite page.

MATERIAL—Partitions, doors and stiles shall be 18 gauge enameling iron, enameled in accordance with specifications of the Porcelain Enamel Institute, Inc., for acid resisting architectural porcelain enamel. Edge molding shall be 20 gauge stainless steel. Stile shoes shall be stainless steel, 3″ high. Brackets shall be cast alloy.

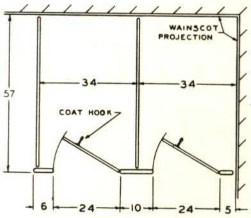
DESIGN—Doors shall be in alignment with tops of stiles, with no hardware extending above top line. Panels and doors shall be 1″ thick, stiles 1¼″ thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

FINISH—All surfaces, concealed and exposed, shall receive a vitreous porcelain enamel ground coat. All exposed surfaces shall receive a cover coat in color selected from the Weis color chart. (Combinations of three or more colors, slight extra charge.) Castings shall be chromium plated.

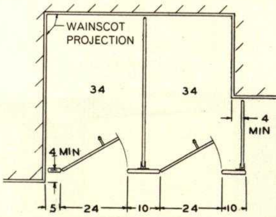
HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges with stainless steel pintles, and actuated by opposed nylon cams in the lower hinge. Hinges recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks applied with theft resistant, one way screws. All hardware non-ferrous metal chromium plated.

FLOOR BRACED DETAILS

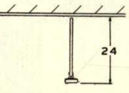
VITRE-STEEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

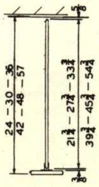
TYPICAL LAYOUT


WAINSCOT PROJECTION
34
34
4 MIN
4 MIN
5
24
10
24
10

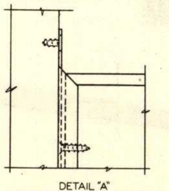
PARTITION & STILE
4" FROM CORNER, LARGE STILE AT CORNER TO USE DOORS OF EQUAL WIDTH



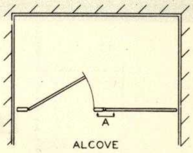
FLOOR BRACED URINAL SCREEN


24 – 30 – 36
42 – 48 – 57
21½ – 27½ – 33½
39½ – 45½ – 54½

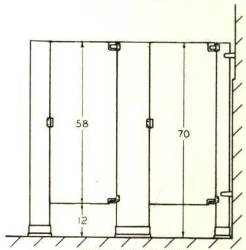
STANDARD SIZES



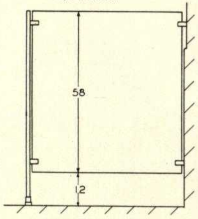
DETAIL "A"
CONNECTION BETWEEN PANEL & EDGE OF STILE



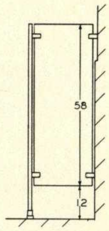
ALCOVE
IN THIS TYPE OF INSTALLATION AVOID USE OF WEIS FLOOR BRACED AND CEILING HUNG TYPE. HI-STILE TYPE (HEADRAIL BRACED) IS RECOMMENDED.



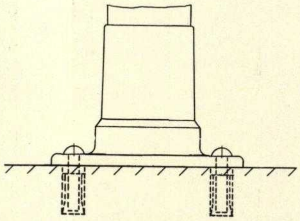
FRONT ELEVATION



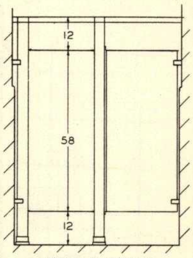
SIDE ELEVATION



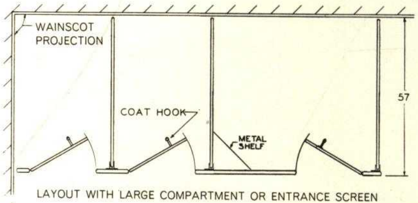
SIDE ELEVATION
URINAL SCREEN



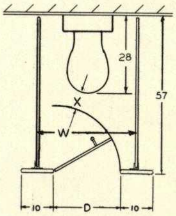
FOOT FITTING FLOOR BRACED URINAL SCREEN



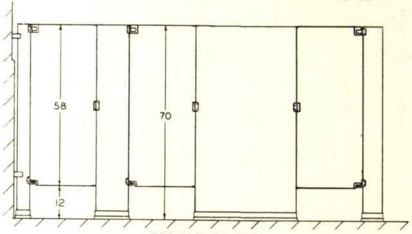
FRONT ELEVATION


WAINSCOT PROJECTION
COAT HOOK
METAL SHELF
57

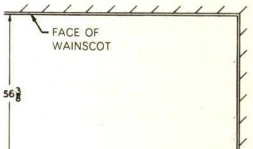
LAYOUT WITH LARGE COMPARTMENT OR ENTRANCE SCREEN

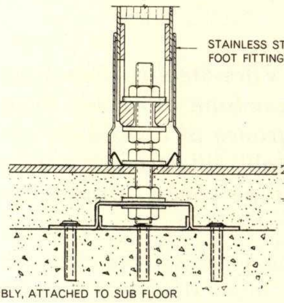

28
57
X
W
10
D
10

DOOR CLEARANCE SCHEDULE		
W	D	X
32	22	9
34	24	7¼
36	26	5⅝

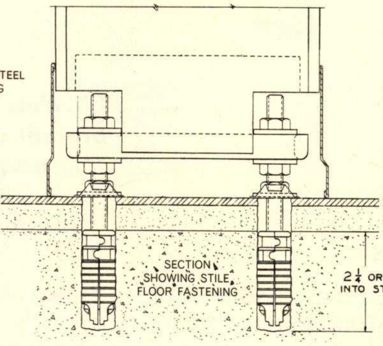


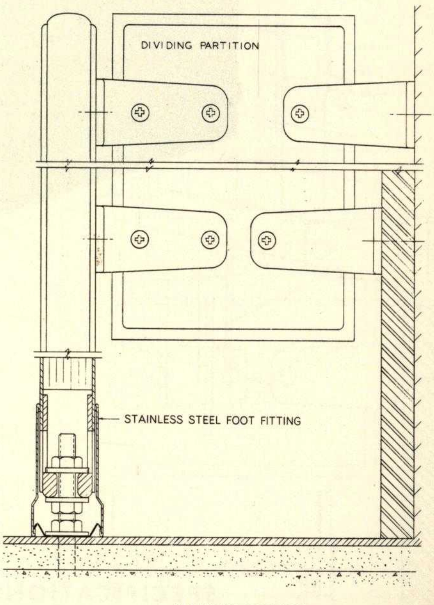
FRONT ELEVATION


FACE OF WAINSCOT
56¾

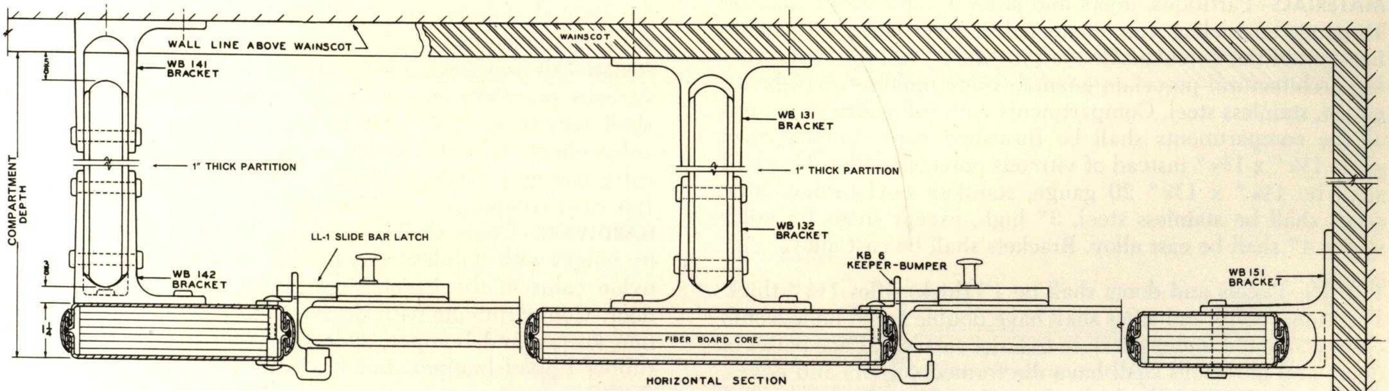

STAINLESS STEEL FOOT FITTING

DETAIL OF FLOOR ANCHOR ASSEMBLY, ATTACHED TO SUB FLOOR


SECTION SHOWING STILE FLOOR FASTENING
2¼ OR MORE INTO STR. SLAB


DIVIDING PARTITION
STAINLESS STEEL FOOT FITTING

VERTICAL SECTION

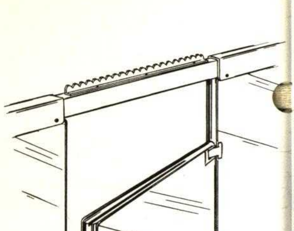

WALL LINE ABOVE WAINSCOT
WAINSCOT
WB 141 BRACKET
COMPARTMENT DEPTH
1" THICK PARTITION
WB 131 BRACKET
1" THICK PARTITION
WB 132 BRACKET
LL-1 SLIDE BAR LATCH
WB 142 BRACKET
KB 6 KEEPER-BUMPER
WB 151 BRACKET
1¼
FIBER BOARD CORE

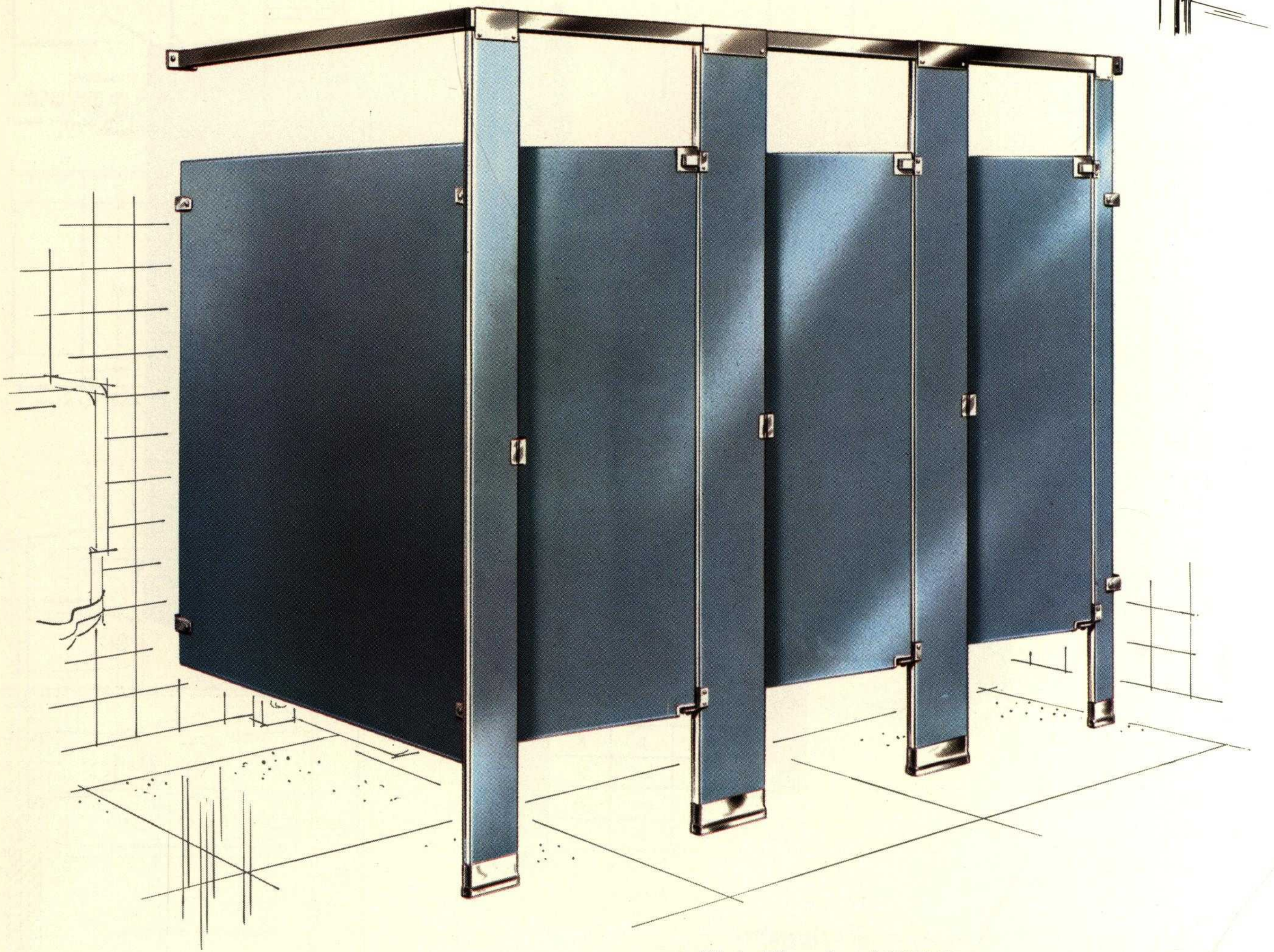
HORIZONTAL SECTION

DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEIS

VITRE-STEEL *(Porcelain Enamel)* HI-STILE COMPARTMENTS





Weis Vitre-Steel Hi-Stile compartments (overhead braced) combine attractive design with double assurance of a rigid installation. Weis "Loafer Rail" (illustrated) available when specified to discourage young "trapeze performers."

SPECIFICATIONS

GENERAL—Toilet, Shower and Dressing compartments shall be Weis Vitre-Steel, Hi-Stile, as manufactured by the Henry Weis Manufacturing Company, Inc., Elkhart, Indiana.

MATERIALS—Partitions, doors and stiles 3″ and wider shall be 18 gauge enameling iron, enameled in accordance with specifications of the Porcelain Enamel Institute, Inc., for acid resisting architectural porcelain enamel. Edge molding shall be 20 gauge, stainless steel. Compartments with full width doors and alcove compartments shall be furnished with stainless steel posts 1¼″ x 1⅞″ instead of vitreous porcelain stiles. Headrail shall be 1¼″ x 1⅞″ 20 gauge, stainless steel tubing. Stile shoes shall be stainless steel, 3″ high, except shoes for stiles under 4″ shall be cast alloy. Brackets shall be cast alloy.

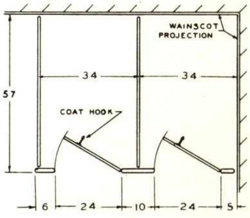
DESIGN—Panels and doors shall be 1″ thick, stiles 1¼″ thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

FINISH—All surfaces, concealed and exposed, shall receive a vitreous porcelain enamel ground coat. All exposed surfaces shall receive a cover coat in color selected from the Weis color chart. (Combinations of three or more colors, slight extra charge.) Castings shall be chromium plated. All stainless steel components polished finish.

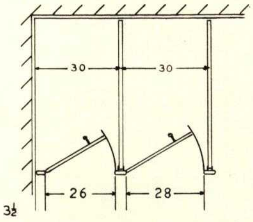
HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges with stainless steel pintles, and actuated by opposed nylon cams in the lower hinge. Hinges recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks applied with theft resistant, one way screws. All hardware non-ferrous metal chromium plated.

HI-STILE DETAILS

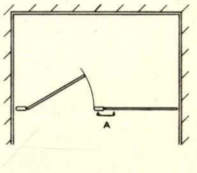
VITRE-STEEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

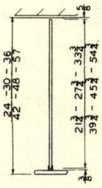
TYPICAL LAYOUT


30
30
26
28
3½

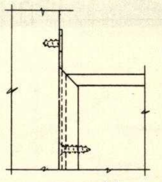
TYPICAL LAYOUT
POST AND HEADRAIL STAINLESS STEEL



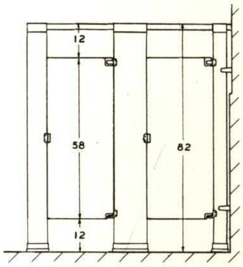
ALCOVE
POST AND HEADRAIL STAINLESS STEEL


5/8
24 - 30 - 36
42 - 48 - 57
21¾ - 27¾ - 33¾
39¾ - 45¾ - 54¾
3/8

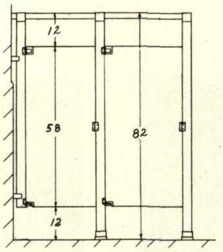
STANDARD SIZES



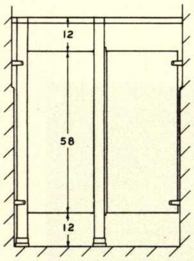
DETAIL "A"
CONNECTION BETWEEN
PANEL & EDGE OF STILE



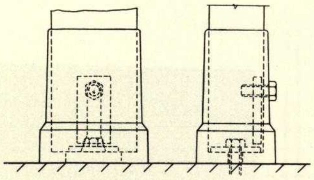
FRONT ELEVATION



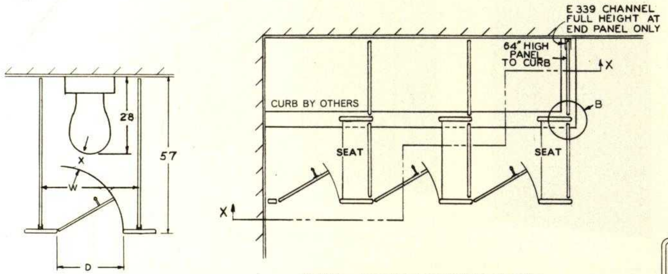
FRONT ELEVATION



FRONT ELEVATION

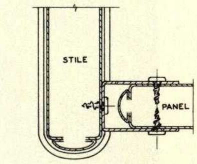


FF 2 CAST ALLOY C. P. FOOT FITTING ON POST

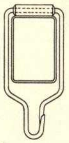

28
57
X
W
D
E 339 CHANNEL FULL HEIGHT AT END PANEL ONLY
64" HIGH PANEL TO CURB
X
CURB BY OTHERS
B
SEAT
SEAT
X

SHOWER & DRESSING COMPARTMENT LAYOUT

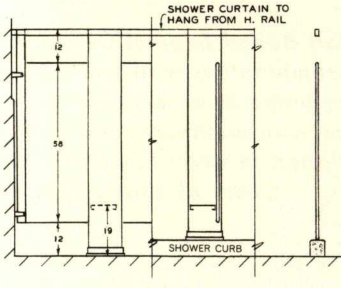
DOOR CLEARANCE SCHEDULE			
W	D	STILE	X
30	27	3	4¼
32	29	3	3⅛
32	22	10	9
34	24	10	7¼
36	26	10	5⅜


STILE
PANEL

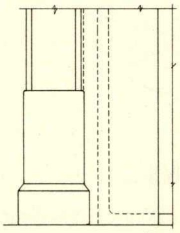
DETAIL "B"
SHOWING END SHOWER PARTITION WITH CHANNEL CONNECTOR & PARTITION EXTENDING TO FLOOR OR CURB



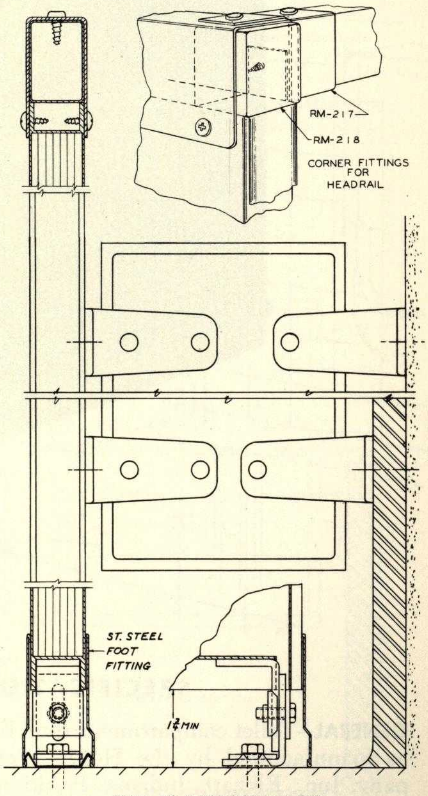
THE WEISTEEL ROLLER BEARING CURTAIN HANGER IS DESIGNED FOR USE WITH WEISTEEL HEADRAIL AND ELIMINATES NECESSITY OF A SPECIAL CURTAIN ROD


SHOWER CURTAIN TO HANG FROM H. RAIL
12
58
12
19
SHOWER CURB

ELEVATION & SECTION X-X

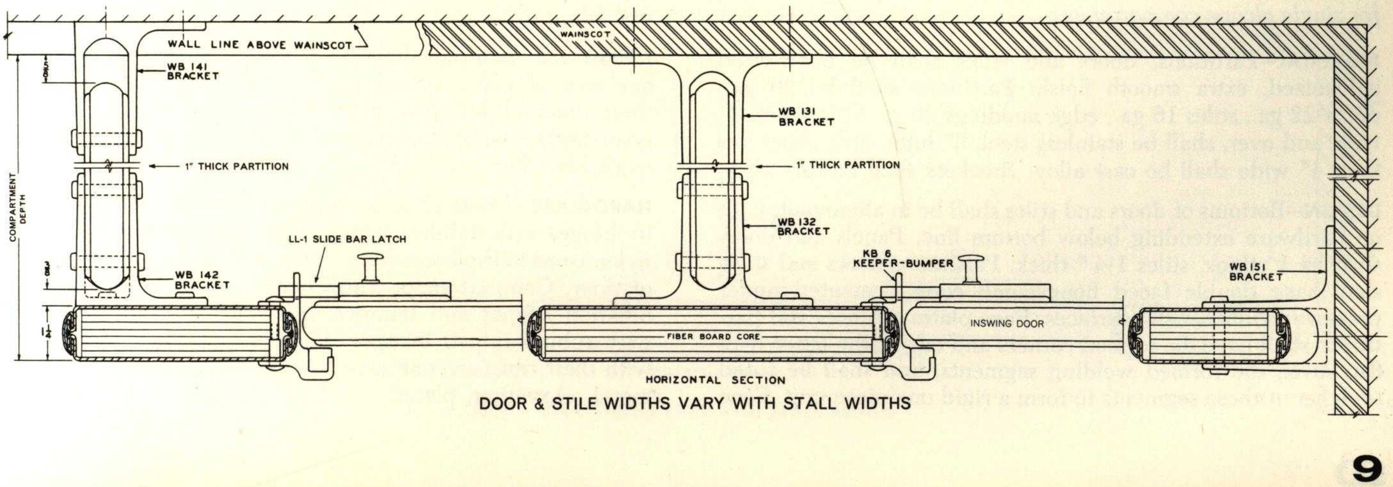


ELEVATION DETAIL "B"


RM-217
RM-218
ST. STEEL FOOT FITTING
1½ MIN

CORNER FITTINGS FOR HEADRAIL

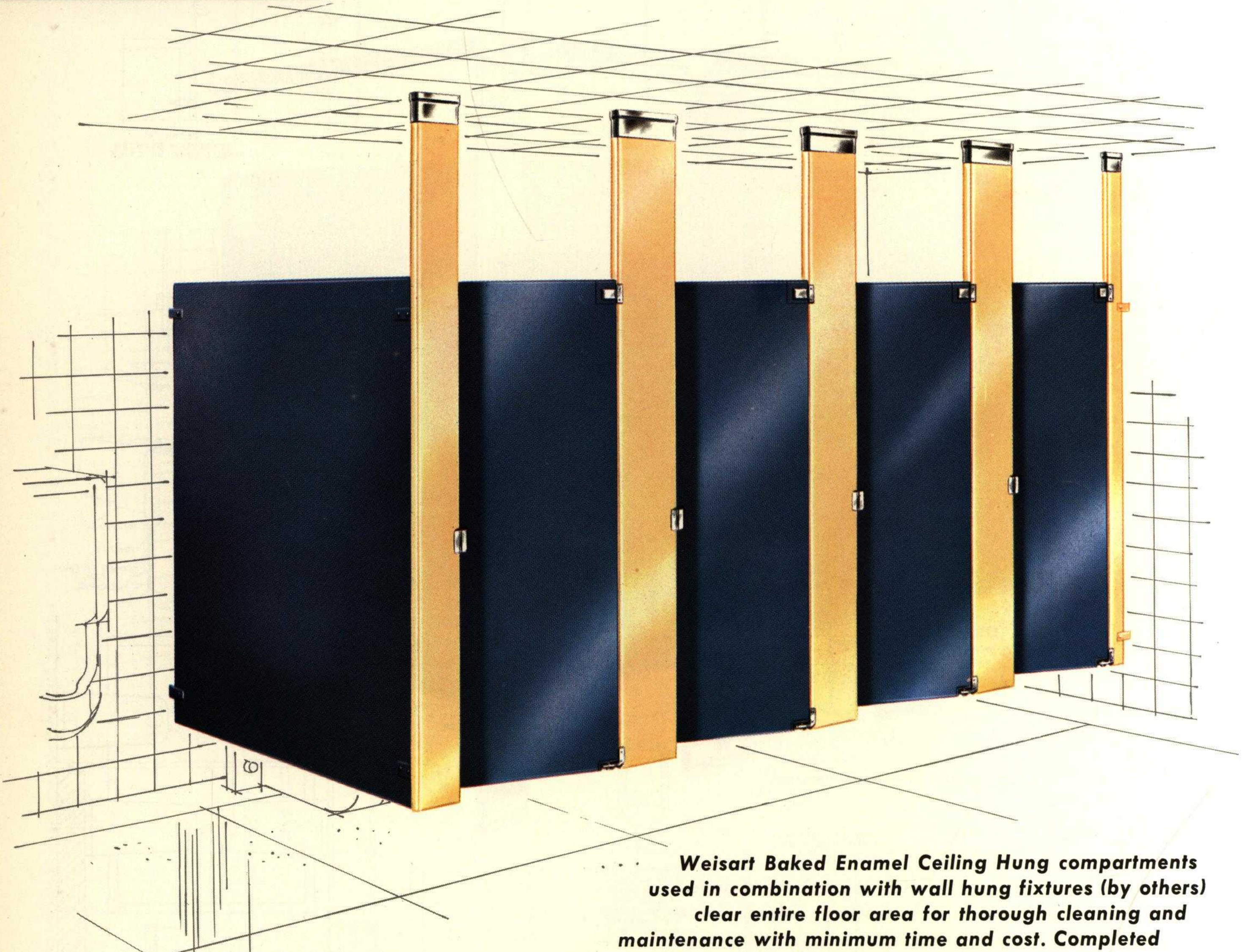
DETAIL OF FLOOR FASTENING FOR 4" THRU 12" STILES


WALL LINE ABOVE WAINSCOT
WAINSCOT
WB 141 BRACKET
COMPARTMENT DEPTH
1" THICK PARTITION
LL-1 SLIDE BAR LATCH
WB 142 BRACKET
1¼
WB 131 BRACKET
1" THICK PARTITION
WB 132 BRACKET
KB 6 KEEPER-BUMPER
WB 151 BRACKET
INSWING DOOR
FIBER BOARD CORE

HORIZONTAL SECTION
DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEISART

BAKED ENAMEL CEILING HUNG COMPARTMENTS



. . . ***Weisart Baked Enamel Ceiling Hung compartments used in combination with wall hung fixtures (by others) clear entire floor area for thorough cleaning and maintenance with minimum time and cost. Completed installation in accordance with specifications assures years of satisfactory service.***

SPECIFICATIONS

GENERAL—Toilet compartments shall be Weisart Ceiling Hung, as manufactured by the Henry Weis Manufacturing Company, Inc., Elkhart, Indiana. Partitions, doors and stiles shall be Weis flush construction. *Structural members in ceilings by others.* NOTE: *Weis Hi-Stile (overhead braced) recommended for single alcove compartments.*

MATERIAL—Partitions, doors and stiles shall be bonderized galvanized, extra smooth finish. Partitions shall be 20 ga., doors 22 ga., stiles 16 ga., edge moldings 20 ga. Stile shoes, 4″ wide and over, shall be stainless steel, 3″ high. Stile shoes less than 4″ wide shall be cast alloy. Brackets shall be cast alloy.

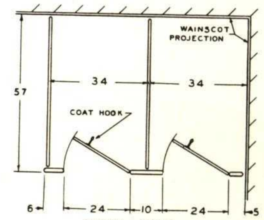
DESIGN—Bottoms of doors and stiles shall be in alignment, with no hardware extending below bottom line. Panels and doors shall be 1″ thick, stiles 1¼″ thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner metal surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

FINISH—All material shall be thoroughly cleaned and given one coat of rust resisting synthetic primer, followed by synthetic enamel, baked at high temperatures. Brackets shall be enameled to match partitions. (Chromium plated brackets also available when specified.)

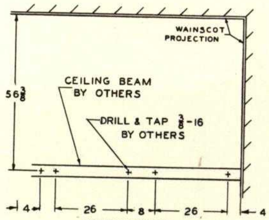
HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges with stainless steel pintles, and actuated by opposed nylon cams in the lower hinge. Hinges shall be recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks applied with theft resistant, one way screws. All hardware non-ferrous metal, chromium plated.

CEILING HUNG DETAILS

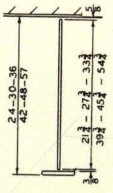
BAKED ENAMEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

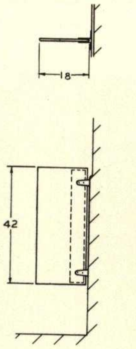
TYPICAL LAYOUT


WAINSCOT PROJECTION
56¾
CEILING BEAM BY OTHERS
DRILL & TAP ⅜-16 BY OTHERS
4
26
8
26
4

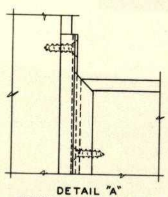
TYPICAL LAYOUT SHOWING CEILING BEAM & DRILLING REQUIRED


24-30-36
42-48-57
21½ - 27½ - 33½
39½ - 45½ - 54½
5/8
3/8

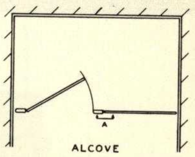
STANDARD SIZES



WALL HUNG URINAL SCREEN

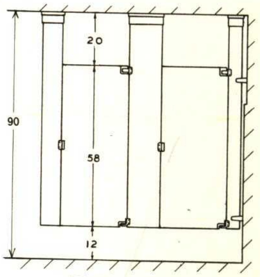


DETAIL "A"
CONNECTION BETWEEN PANEL & EDGE OF STILE

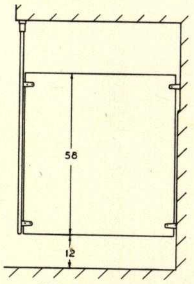


ALCOVE

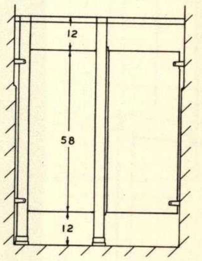
IN THIS TYPE OF INSTALLATION AVOID USE OF WEIS FLOOR BRACED AND CEILING HUNG TYPE. HI-STILE TYPE (HEADRAIL BRACED) IS RECOMMENDED.



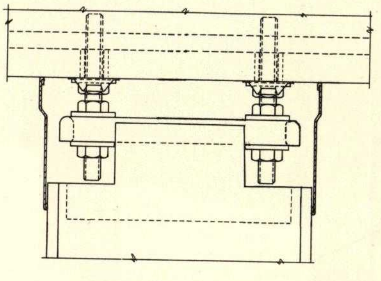
FRONT ELEVATION



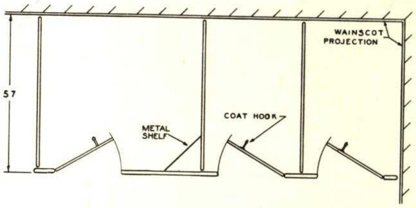
SIDE ELEVATION



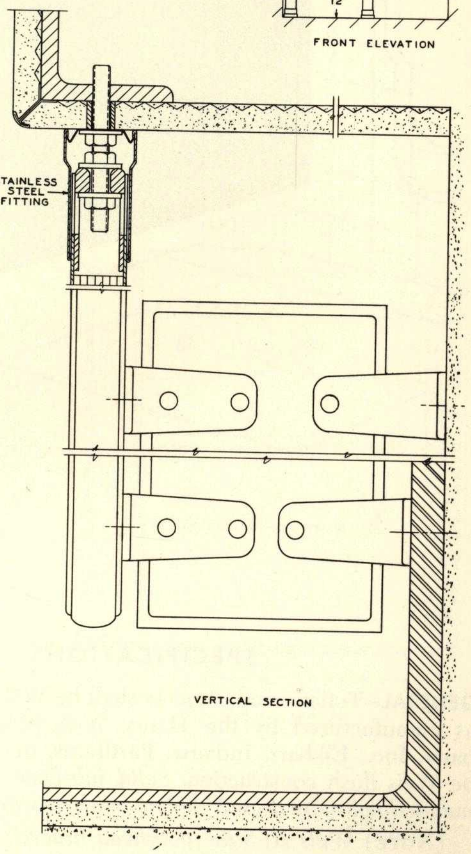
FRONT ELEVATION



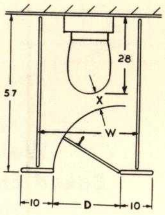
CEILING FASTENING FOR STILE

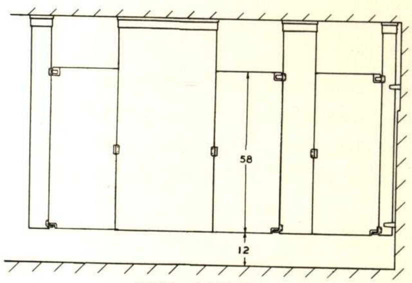

WAINSCOT PROJECTION
57
METAL SHELF
COAT HOOK

LAYOUT WITH LARGE COMPARTMENT OR ENTRANCE SCREEN


STAINLESS STEEL FITTING

VERTICAL SECTION

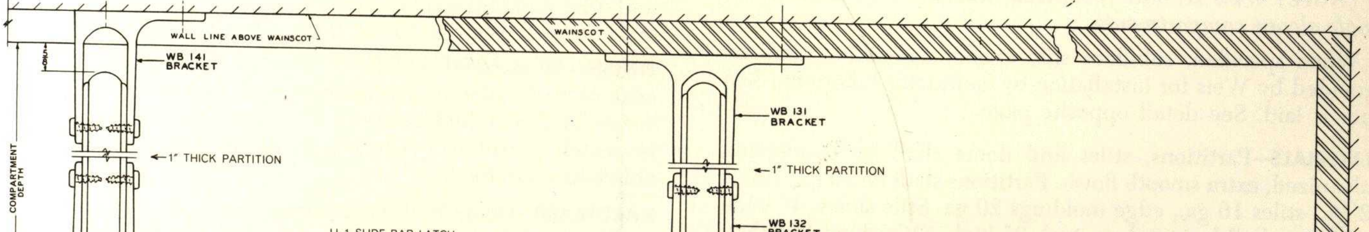

28
57
X
W
10
D
10



FRONT ELEVATION

DOOR CLEARANCE SCHEDULE

W	D	X
32	22	9
34	24	7¼
36	26	5⅝

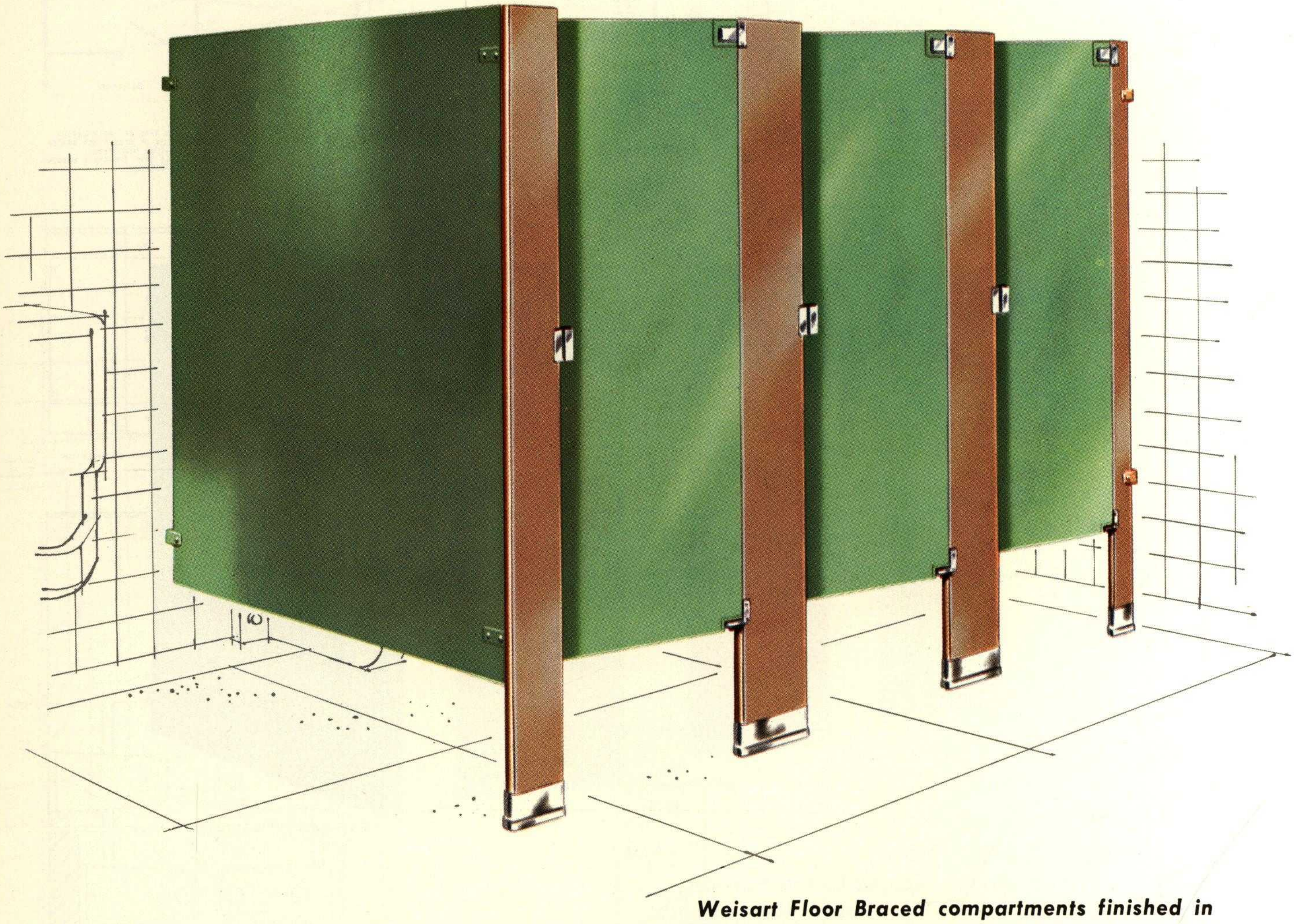

WALL LINE ABOVE WAINSCOT
WAINSCOT
WB 141 BRACKET
COMPARTMENT DEPTH
1" THICK PARTITION
WB 142 BRACKET
LL-1 SLIDE BAR LATCH
1¼
WB 131 BRACKET
1" THICK PARTITION
WB 132 BRACKET
KB 6 KEEPER-BUMPER
WB 151 BRACKET
FIBER BOARD CORE

HORIZONTAL SECTION

DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEISART

BAKED ENAMEL FLOOR BRACED COMPARTMENTS



Weisart Floor Braced compartments finished in Baked Enamel offer clean, horizontal lines created by rigid flush stile construction. The Weis inset upper hinge permits doors and stiles to line up at top.

SPECIFICATIONS

GENERAL—Toilet compartments shall be Weisart Floor-Braced, as manufactured by the Henry Weis Manufacturing Company, Inc., Elkhart, Indiana. Partitions, doors and stiles shall be Weis flush construction. *Solid sub-floor, by others, recommended not more than 2" below finish floor for anchoring stiles.*

(NOTE) *Weis Hi-Stile (overhead braced) recommended for single alcove compartments.*

When specified, sub-floor stile anchor assemblies shall be provided by Weis for installation by contractor before finished floor is laid. See detail opposite page.

MATERIALS—Partitions, stiles and doors shall be bonderized galvanized, extra smooth finish. Partitions shall be 20 ga., doors 22 ga., stiles 16 ga., edge moldings 20 ga. Stile shoes, 4" wide and over, shall be stainless steel, 3" high. Stile shoes less than 4" wide shall be cast alloy. Brackets shall be cast alloy.

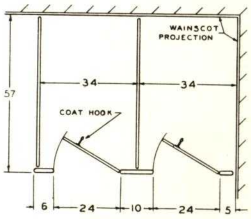
DESIGN—Doors shall be in alignment with tops of stiles, with no hardware extending above top line. Panels and doors shall be 1" thick, stiles 1¼" thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner metal surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

FINISH—All material shall be thoroughly cleaned and given one coat of rust resisting synthetic primer, followed by synthetic enamel, baked at high temperatures. Brackets shall be enameled to match partitions. (Chromium plated brackets also available when specified.)

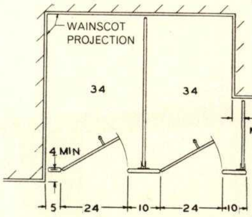
HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges with stainless steel pintles, and actuated by opposed nylon cams in the lower hinge. Hinges shall be recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks applied with theft resistant, one way screws. All hardware non-ferrous metal chromium plated.

FLOOR BRACED DETAILS

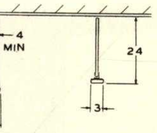
BAKED ENAMEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

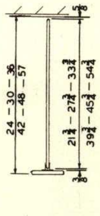
TYPICAL LAYOUT


WAINSCOT PROJECTION
34
34
4 MIN
4 MIN
5
24
10
24
10

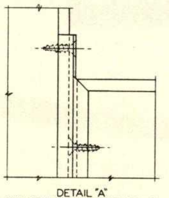
PARTITION & STILE
4" FROM CORNER, LARGE STILE AT CORNER TO USE DOORS OF EQUAL WIDTH



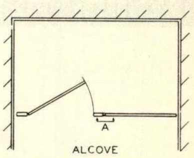
FLOOR BRACED URINAL SCREEN


24 – 30 – 36
42 – 48 – 57
21¾ – 27¾ – 33¾
39¾ – 45¾ – 54¾
5/8
3/8

STANDARD SIZES

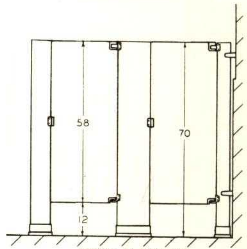


DETAIL "A"
CONNECTION BETWEEN PANEL & EDGE OF STILE

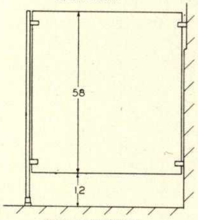


ALCOVE

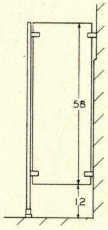
IN THIS TYPE OF INSTALLATION AVOID USE OF WEIS FLOOR BRACED AND CEILING HUNG TYPE. HI-STILE TYPE (HEADRAIL BRACED) IS RECOMMENDED.



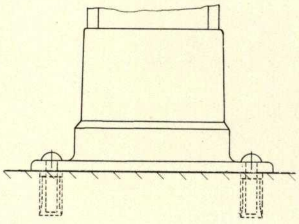
FRONT ELEVATION



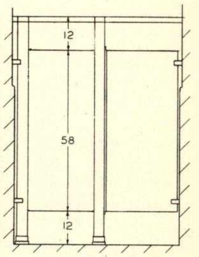
SIDE ELEVATION



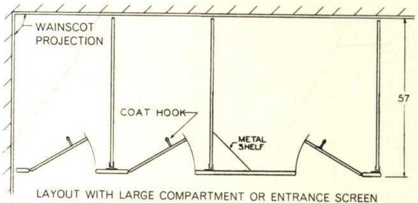
SIDE ELEVATION
URINAL SCREEN



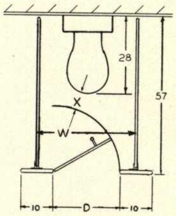
FOOT FITTING FLOOR BRACED URINAL SCREEN



FRONT ELEVATION

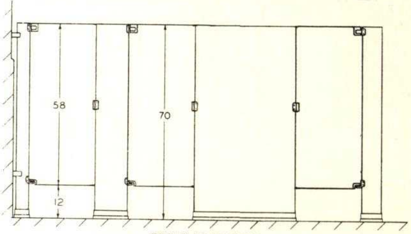

WAINSCOT PROJECTION
57
COAT HOOK
METAL SHELF

LAYOUT WITH LARGE COMPARTMENT OR ENTRANCE SCREEN

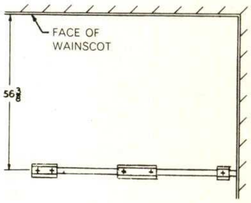

28
57
X
W
10
D
10

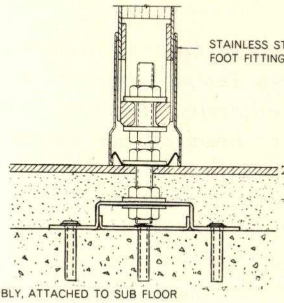
DOOR CLEARANCE SCHEDULE

W	D	X
32	22	9
34	24	7¼
36	26	5⅝

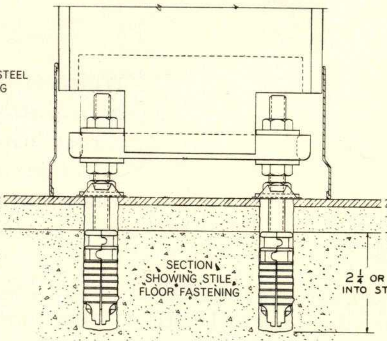


FRONT ELEVATION

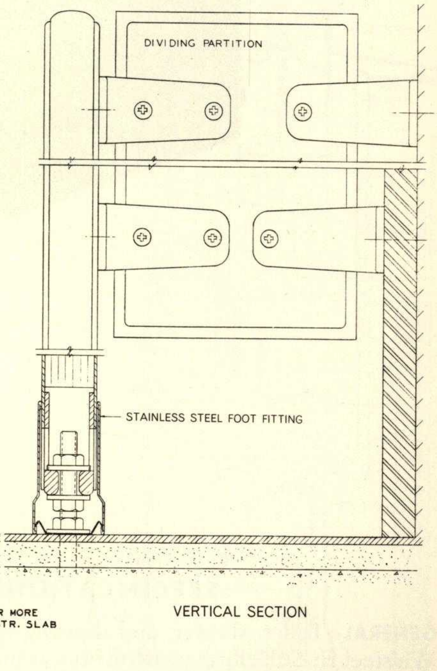

FACE OF WAINSCOT
56⅜


STAINLESS STEEL FOOT FITTING

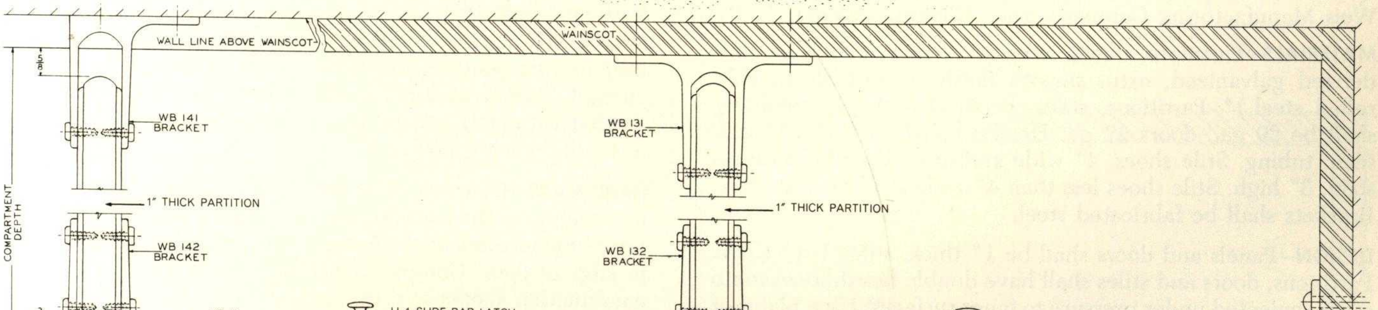
DETAIL OF FLOOR ANCHOR ASSEMBLY, ATTACHED TO SUB FLOOR


2¼ OR MORE INTO STR. SLAB

SECTION SHOWING STILE FLOOR FASTENING


DIVIDING PARTITION
STAINLESS STEEL FOOT FITTING

VERTICAL SECTION

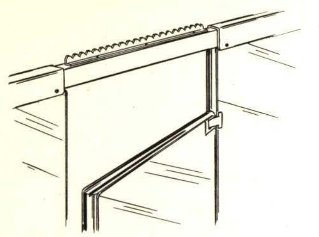

WALL LINE ABOVE WAINSCOT
WAINSCOT
3/8
WB 141 BRACKET
WB 131 BRACKET
COMPARTMENT DEPTH
1" THICK PARTITION
1" THICK PARTITION
WB 142 BRACKET
WB 132 BRACKET
KB 6 KEEPER-BUMPER
LL-1 SLIDE BAR LATCH
WB 151 BRACKET
FIBER BOARD CORE
1¼

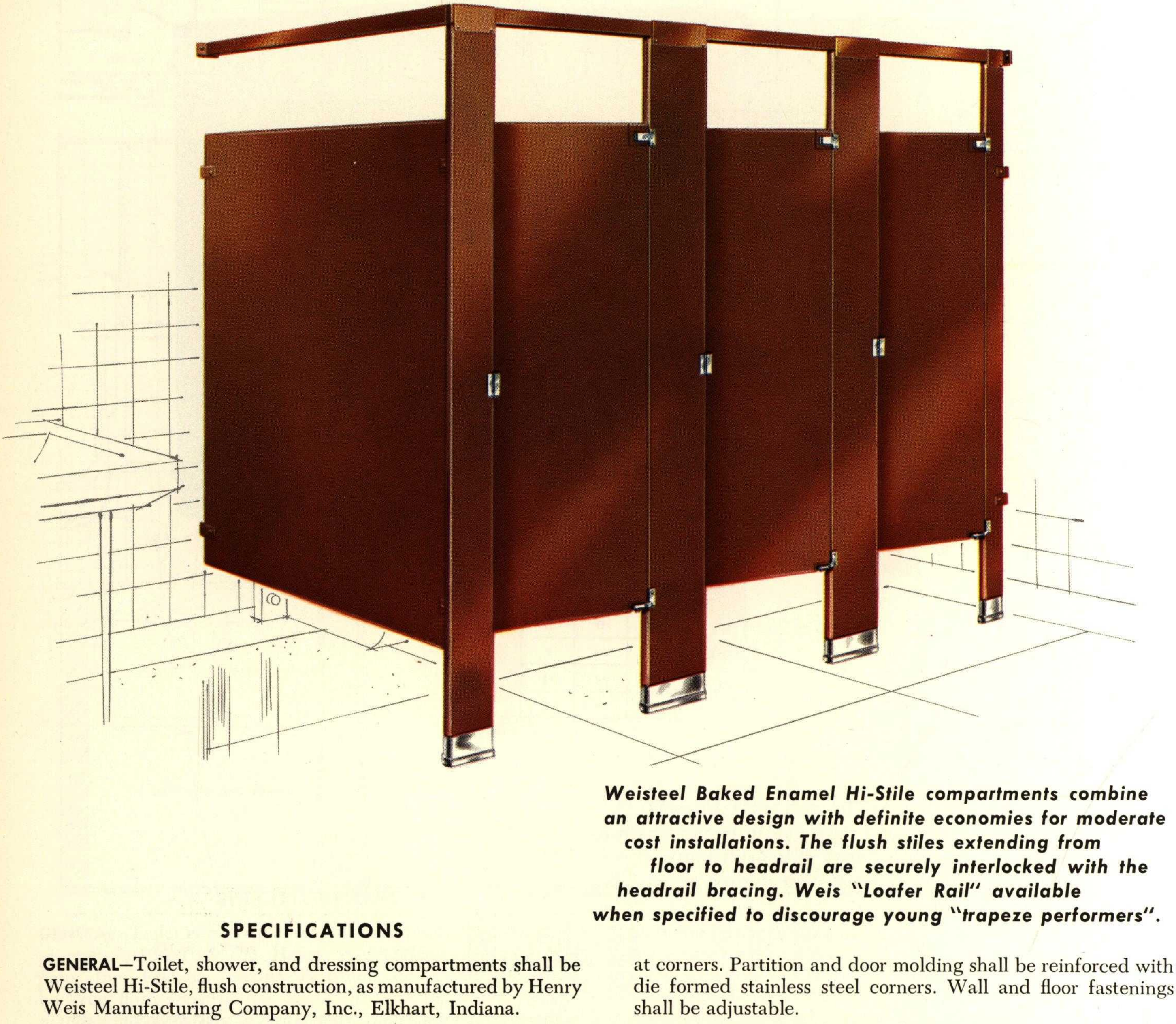
HORIZONTAL SECTION

DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEISTEEL

BAKED ENAMEL HI-STILE COMPARTMENTS





Weisteel Baked Enamel Hi-Stile compartments combine an attractive design with definite economies for moderate cost installations. The flush stiles extending from floor to headrail are securely interlocked with the headrail bracing. Weis "Loafer Rail" available when specified to discourage young "trapeze performers".

SPECIFICATIONS

GENERAL—Toilet, shower, and dressing compartments shall be Weisteel Hi-Stile, flush construction, as manufactured by Henry Weis Manufacturing Company, Inc., Elkhart, Indiana.

MATERIALS—Partitions, doors, stiles and headrail shall be bonderized galvanized, extra smooth finish. (Available in cold rolled steel.)* Partitions, stiles, headrail and edge molding shall be 20 ga., doors 22 ga. Headrail shall be 1¼"x1⅞" lock seam tubing. Stile shoes, 4" wide and over, shall be stainless steel, 3" high. Stile shoes less than 4" wide shall be cast alloy. Brackets shall be fabricated steel.

DESIGN—Panels and doors shall be 1" thick, stiles 1¼" thick. Partitions, doors and stiles shall have double faced honeycomb cores cemented under pressure to inner surfaces. Face plates of doors and partitions shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one piece unit. Face plates of stiles shall have formed edges, welded together into a rigid unit. All edges shall be bound with interlocking trim molding. Stile molding shall be mitered and welded at corners. Partition and door molding shall be reinforced with die formed stainless steel corners. Wall and floor fastenings shall be adjustable.

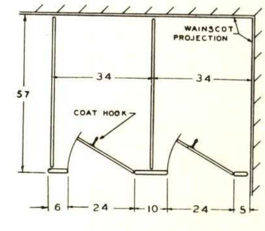
FINISH—All material shall be thoroughly cleaned and given a coat of rust resisting synthetic primer, followed by synthetic enamel, baked at high temperatures. Brackets shall be enameled to match partitions. (Chromium plated brackets also available when specified.)

HARDWARE—Doors shall be hung on Weistyle concealed gravity hinges, with stainless steel pintles, and actuated by opposed nylon cams in the lower hinge. Hinges shall be recessed in edge of door. Compartments with doors shall be fitted with combination keeper and bumper, slide bar latch and coat hook with rubber tipped bumper. Latches and coat hooks shall be applied with theft resistant, one way screws. All hardware non-ferrous metal chromium plated.

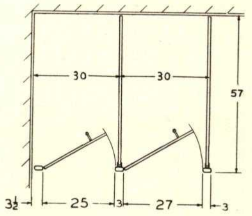
*Note: *All shower partitions, urinal screens and partitions adjacent to urinal fixtures furnished only in bonderized galvanized steel.*

HI-STILE DETAILS

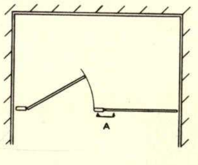
BAKED ENAMEL


WAINSCOT PROJECTION
57
34
34
COAT HOOK
6
24
10
24
5

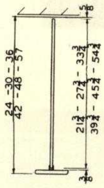
TYPICAL LAYOUT


30
30
57
3½
25
3
27
3

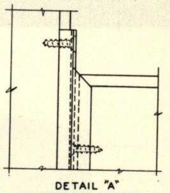
TYPICAL LAYOUT WITH 3" STILE



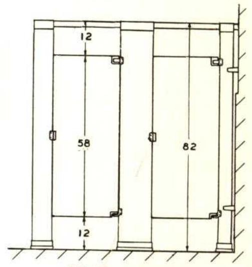
ALCOVE


24 - 30 - 36
42 - 48 - 57
21¾ - 27¾ - 33¾
39¾ - 45¾ - 54¾

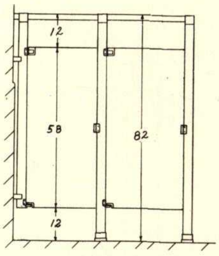
STANDARD SIZES



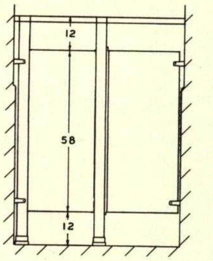
DETAIL "A"
CONNECTION BETWEEN
PANEL & EDGE OF STILE



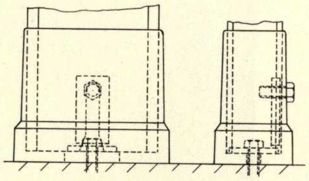
FRONT ELEVATION



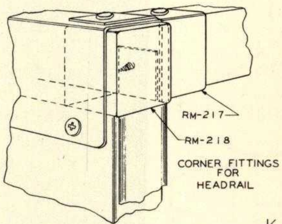
FRONT ELEVATION



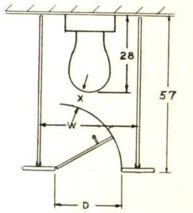
FRONT ELEVATION

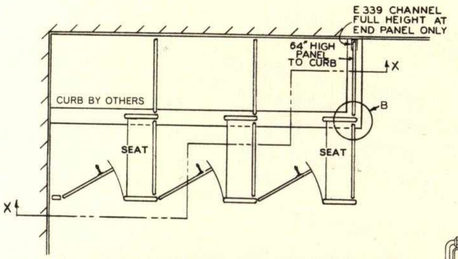


FF30 3" STILE FITTING CAST ALLOY CHROME PLATED

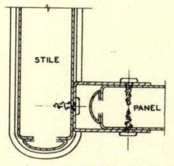

RM-217
RM-218

CORNER FITTINGS FOR HEADRAIL



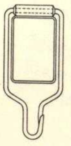

E 339 CHANNEL FULL HEIGHT AT END PANEL ONLY
64" HIGH PANEL TO CURB
X
CURB BY OTHERS
B
SEAT
SEAT
X

SHOWER & DRESSING COMPARTMENT LAYOUT

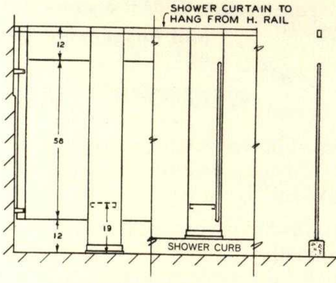

STILE
PANEL

DETAIL "B"
SHOWING END SHOWER PARTITION
WITH CHANNEL CONNECTOR &
PARTITION EXTENDING TO
FLOOR OR CURB

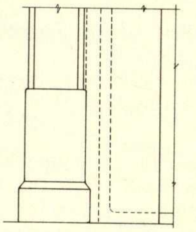
DOOR CLEARANCE SCHEDULE			
W	D	STILE	X
30	27	3	4¼
32	29	3	3⅛
32	22	10	9
34	24	10	7¼
36	26	10	5⅜



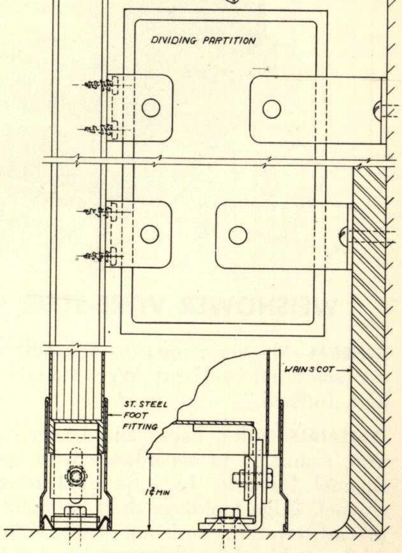
THE WEISTEEL ROLLER BEARING CURTAIN HANGER IS DESIGNED FOR USE WITH WEISTEEL HEADRAIL AND ELIMINATES NECESSITY OF A SPECIAL CURTAIN ROD


SHOWER CURTAIN TO HANG FROM H. RAIL
12
58
12
19
SHOWER CURB

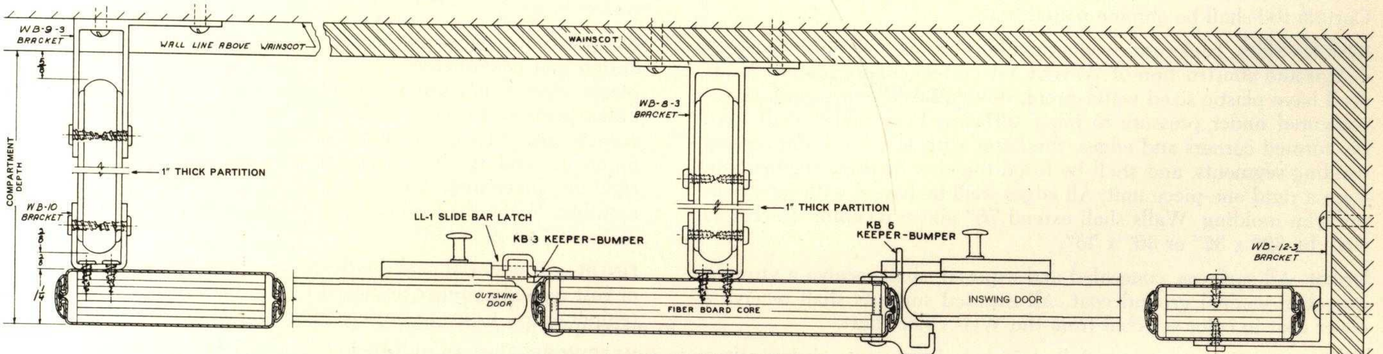
ELEVATION & SECTION X-X



ELEVATION DETAIL "B"


DIVIDING PARTITION
WAINSCOT
ST. STEEL FOOT FITTING
1½ MIN

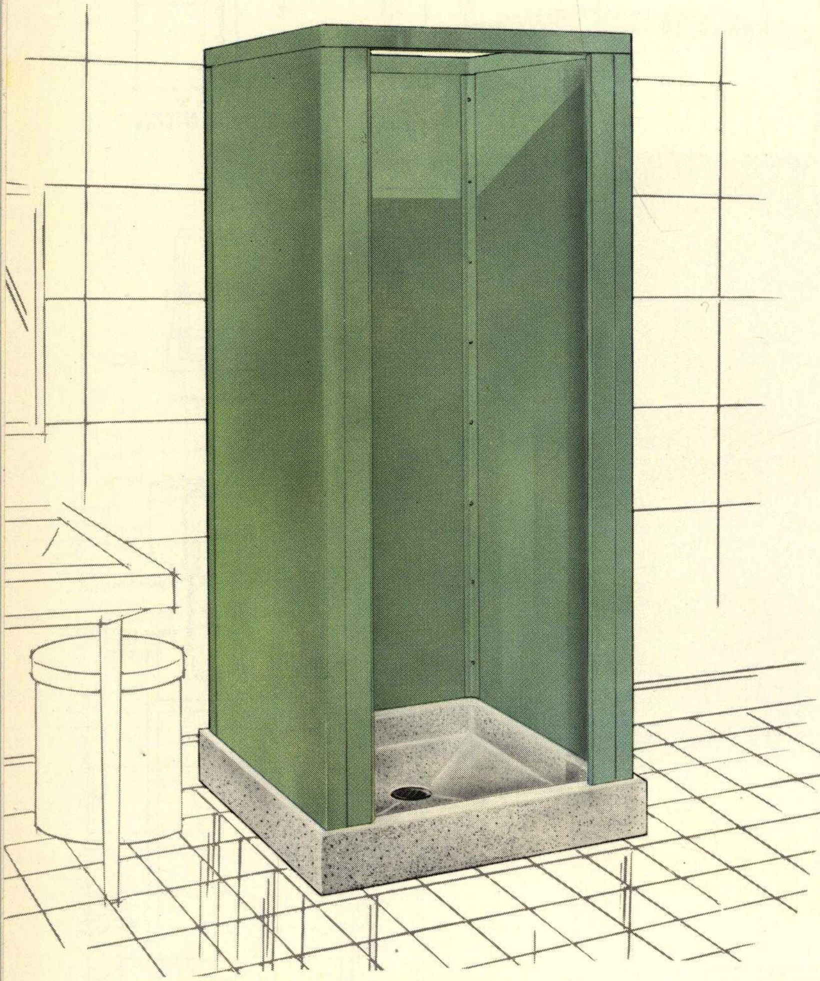
DETAIL OF FLOOR FASTENING FOR
4" THRU 12" STILES

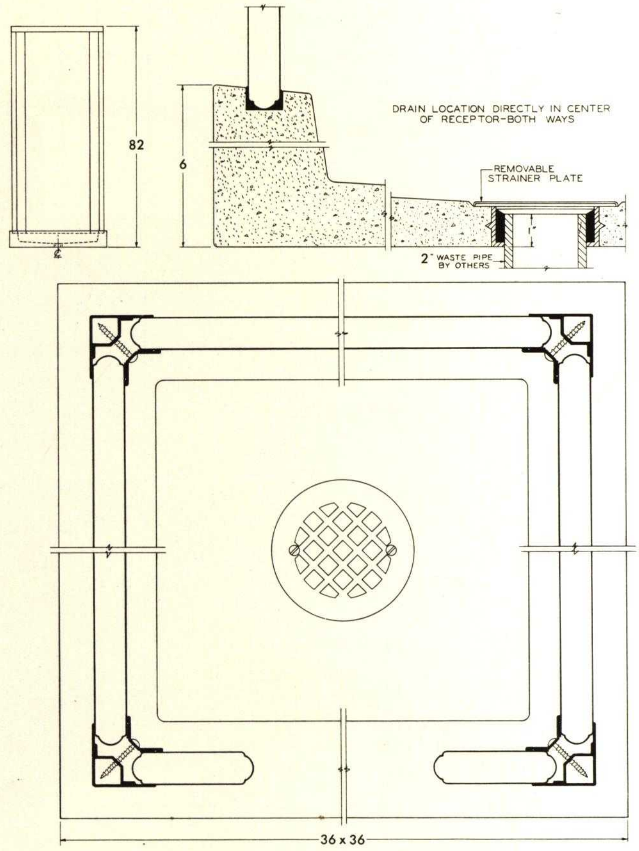

WB-9-3 BRACKET
WALL LINE ABOVE WAINSCOT
WAINSCOT
5/8
COMPARTMENT DEPTH
1" THICK PARTITION
WB-10 BRACKET
3/8
3/8
1¼
WB-8-3 BRACKET
1" THICK PARTITION
LL-1 SLIDE BAR LATCH
KB 3 KEEPER-BUMPER
KB 6 KEEPER-BUMPER
WB-12-3 BRACKET
OUTSWING DOOR
FIBER BOARD CORE
INSWING DOOR

HORIZONTAL SECTION

DOOR & STILE WIDTHS VARY WITH STALL WIDTHS

WEISHOWER





Weishowers are normally furnished on the same contract with toilet compartments and are finished in matching Weis colors. The one inch thick double wall construction is of the same design as toilet compartments and has a water-proof filler core.

WEISHOWER VITRE-STEEL (Porcelain Enamel)

GENERAL—Shower compartments shall be Weishower Vitre-Steel, as manufactured by Henry Weis Manufacturing Company, Inc., Elkhart, Indiana.

MATERIALS—Sides, backs and fronts shall be 18 gauge enameling iron, enameled in accordance with specifications of the Porcelain Enamel Institute, Inc., for acid resisting architectural porcelain enamel. Edge moldings shall be stainless steel. Receptors shall be precast terrazzo, consisting of white Portland cement and black and white marble chips. Waste outlet shall be cast brass for 2" iron pipe, complete with stainless steel removable strainer plate. Corner members shall be stainless steel, assembled with stainless steel screws. Curtain rod shall be chrome plated brass.

DESIGN—Sides, backs and fronts shall be 1" thick, matching the flush design and construction of Weisart Vitre-Steel compartments. Units shall have plastic sized water-proof, double faced honeycomb cores, cemented under pressure to inner surfaces. Face plates shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at these segments to form a rigid one-piece unit. All edges shall be bound with interlocking trim molding. Walls shall extend 76" above receptor. Receptors shall be 32" x 32" or 36" x 36".

FINISH—All surfaces, concealed and exposed, shall receive a vitreous porcelain enamel ground coat. All exposed surfaces shall receive a cover coat in color selected from the Weis color chart.

HARDWARE—Curtain rods included. Valves, heads, soap dishes, doors or curtains, mastic caulking, and similar accessories shall be supplied *by others*. Specify if walls to be drilled for valves and shower head.

WEISHOWER BAKED ENAMEL

GENERAL—Shower compartments shall be Weishower with baked enamel finish, as manufactured by Henry Weis Manufacturing Co., Inc., Elkhart, Indiana.

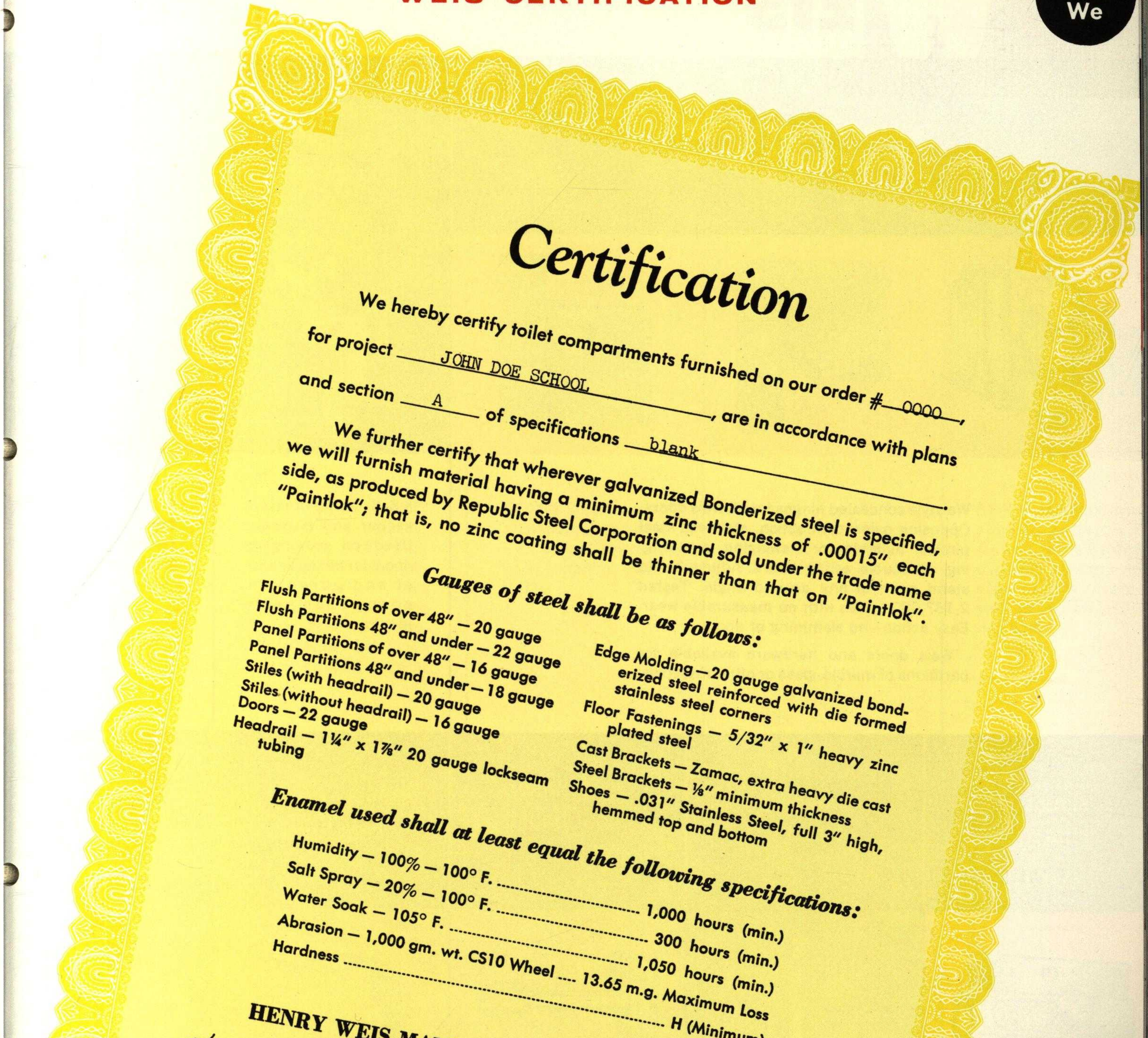
MATERIALS—Sides, backs, fronts, and moldings shall be 20 gauge extra smooth stretcher leveled galvanized bonderized steel. Receptors shall be precast terrazzo, consisting of white Portland cement and black and white marble chips, with cast brass waste outlet for 2" pipe, complete with stainless steel removable strainer plate. Corner members shall be stainless steel, enameled to match walls, assembled with stainless steel screws. Curtain rod shall be chrome plated brass.

DESIGN—Sides, backs and fronts shall be 1" thick, matching the flush design and construction of Weisart compartments. Units shall have plastic sized water-proof, double faced honeycomb cores, cemented under pressure to inner surfaces. Face plates shall have die formed corners and edges, the latter with flat, level, die formed welding segments, and shall be fused together at the segments to form a rigid one-piece unit. All edges shall be bound with interlocking trim molding. Walls shall extend 76" above receptor. Receptors shall be 32" x 32" or 36" x 36".

FINISH—All material shall be thoroughly cleaned and given one coat of rust resisting primer, followed by synthetic enamel, baked at high temperatures. Color to be selected from Weis color chart.

HARDWARE—Curtain rods included. Valves, heads, soap dishes, doors or curtains, mastic caulking, and similar accessories shall be supplied *by others*. Specify if walls to be drilled for valves and shower head.

WEIS CERTIFICATION



Certification

We hereby certify toilet compartments furnished on our order # 0000, for project JOHN DOE SCHOOL, are in accordance with plans and section A of specifications blank.

We further certify that wherever galvanized Bonderized steel is specified, we will furnish material having a minimum zinc thickness of .00015" each side, as produced by Republic Steel Corporation and sold under the trade name "Paintlok"; that is, no zinc coating shall be thinner than that on "Paintlok".

Gauges of steel shall be as follows:

Flush Partitions of over 48" — 20 gauge
Flush Partitions 48" and under — 22 gauge
Panel Partitions of over 48" — 16 gauge
Panel Partitions 48" and under — 18 gauge
Stiles (with headrail) — 20 gauge
Stiles (without headrail) — 16 gauge
Doors — 22 gauge
Headrail — 1¼" x 1⅞" 20 gauge lockseam tubing

Edge Molding — 20 gauge galvanized bonderized steel reinforced with die formed stainless steel corners
Floor Fastenings — 5/32" x 1" heavy zinc plated steel
Cast Brackets — Zamac, extra heavy die cast
Steel Brackets — ⅛" minimum thickness
Shoes — .031" Stainless Steel, full 3" high, hemmed top and bottom

Enamel used shall at least equal the following specifications:

Humidity — 100% — 100° F.	1,000 hours (min.)
Salt Spray — 20% — 100° F.	300 hours (min.)
Water Soak — 105° F.	1,050 hours (min.)
Abrasion — 1,000 gm. wt. CS10 Wheel	13.65 m.g. Maximum Loss
Hardness	H (Minimum)

HENRY WEIS MANUFACTURING COMPANY, INC.

Kester Mc Cubbin
President

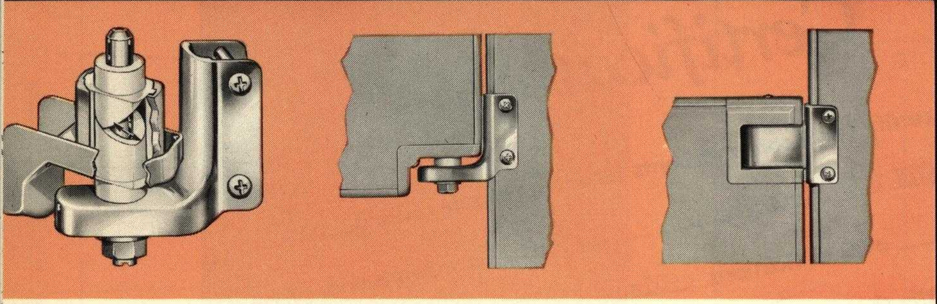
A. F. Baum
Secretary

Certification will be furnished on request.

Confidence in Weis products among architects, engineers and contractors stems from a long history of manufacturing that goes back more than three-quarters of a century. Weis originated the metal toilet compartment and over the years the names Weisteel and Weisart have earned a deserving reputation in this specialized field.

WEIS hardware

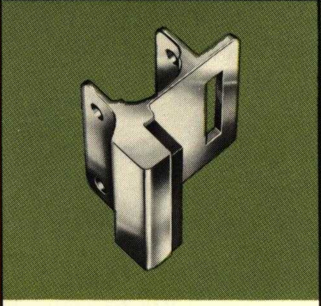
concealed lower hinge and upper hinge



Weistyle concealed hinges for all Weis doors. Opposing nylon cam action, stainless steel pintles. Suitable for inswinging, outswinging, or double acting doors. Adjustable to stand open at any desired angle. Tested 2,187,000 cycles with no measurable wear. Easy action—no slamming of door.

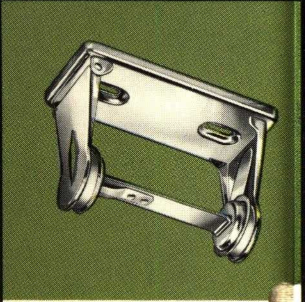
Weis doors and hardware available for partitions of marble, glass or other materials.

combination keeper and bumper



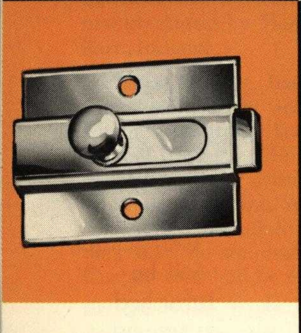
KB-6 Combination keeper and bumper. Used on inswinging doors for baked enamel and porcelain enamel compartments.

roll paper holder



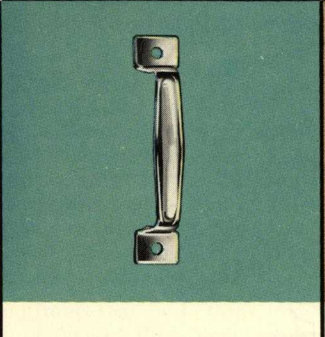
E-152 Grif-Ho R-200 Steel chromium plated roll paper holder, self-locking type.

slide bar latch



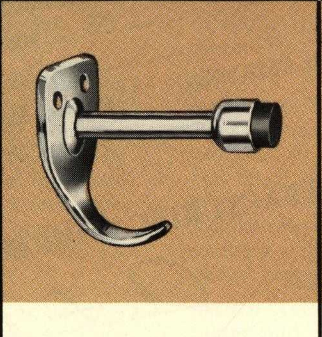
LL-1 Slide Bar Latch, brass, chromium plated with concealed spring plate eliminating rattle of latch bar. Attached with one way slot screws.

door pull



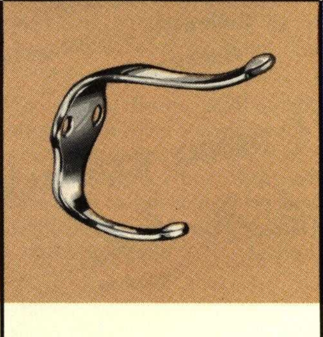
C-28 Door Pull, brass, chromium plated. Furnished for outswinging doors, also entry doors. Attached with one way slot screws.

combination coat hook and bumper



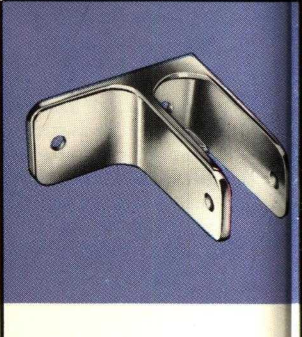
C-110-2 Combination coat hook and bumper. Brass, chromium plated, for inswinging doors. Attached with one way slot screws.

two-prong coat hook



B-35 2-prong coat hook. Brass, chromium plated. For outswinging doors, also for compartments without doors.

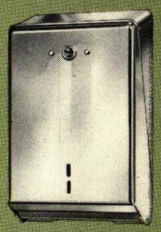
one-eared cast bracket



WB-151 for stile
WB-141 for partition
WB-142 partition to stile at corner. Chromium plated or enameled.

and accessories

cabinet paper holder



E-149 Government #438 Steel chromium plated cabinet paper holder for single or double fold tissue.

stile shoe

FF-31 Cast alloy chromium plated stile shoe. For free standing floor braced urinal shields with 3″ front stile. Also for 3″ stiles from floor to ceiling. Two floor fastenings (one at each edge of stile).

stile shoe

FF-30 Cast alloy chromium plated shoe for 3″ stiles. Concealed floor fastening inside fitting.

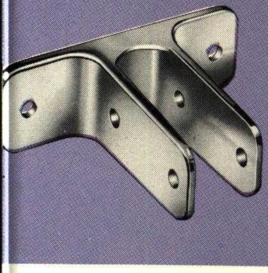
stile shoe

FF-4 through FF-12 Polished stainless steel stile shoe 3″ high for stiles 4″ and over in width.

jiffy-joiner

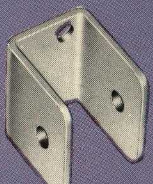
RS-7 Aluminum extrusion to provide a closed joint where partition attaches to edge of stile. Enameled to match partition and stile.

two-eared cast bracket



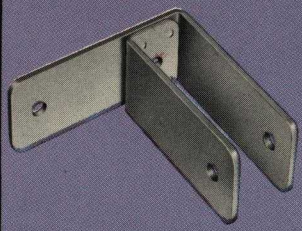
WB-131 partition to wall.
WB-132 partition to stile. Chromium plated or enameled.

partition-to-stile bracket, steel



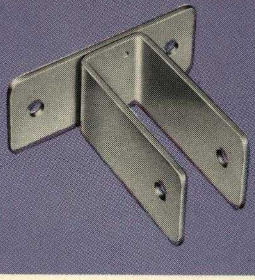
WB-10 Partition to stile bracket for Hi-Stile compartments, enameled.

one-eared wall bracket, steel



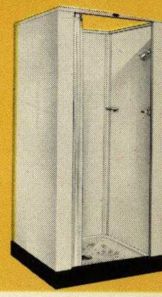
WB-9-3 for partition, enameled.
WB-12-3 for stile, enameled.

two-eared wall bracket, steel



WB-8-3 for partition, enameled.
WB-11-2 for stile or wall post, enameled.

cabinet showers



Weisway Cabinet Showers in a wide range of models and sizes. For home, industrial and institutional installations. Write for complete information.

WEIS

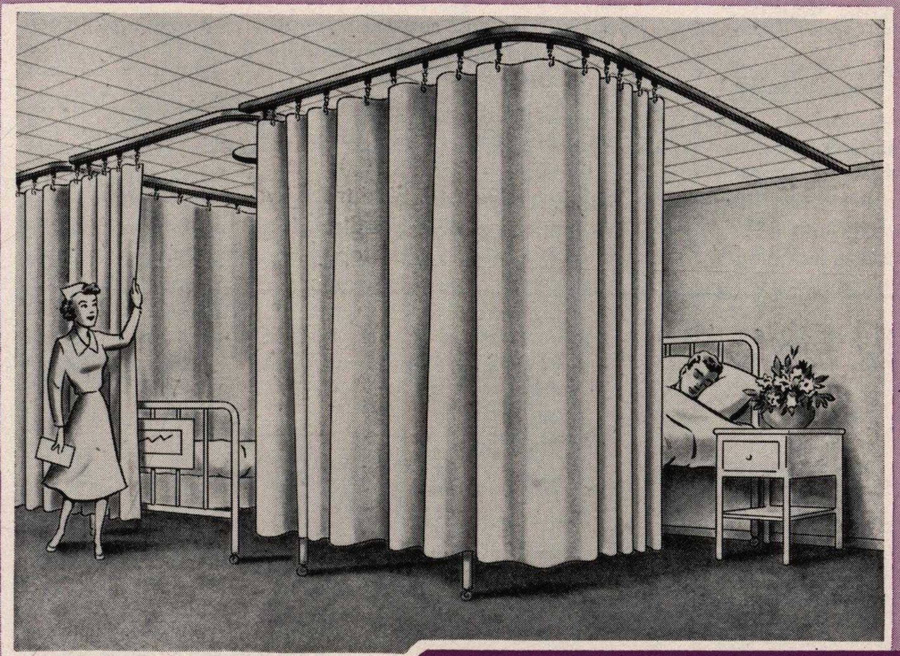
metal compartment sales representatives

		Phone
ALABAMA		
Birmingham 4	Building Specialties Co., 528 North 9th St.	AL 2-7511
Mobile	Reliance Equipment Co., Inc., Box 79, 80 St. Michael St. (216 Staples-Pake Bldg.)	HE 2-5596
Montgomery 2	The Morton Sales Co., Inc., Box 814, 782 So. Hull St.	AM 2-4877
ARIZONA		
Phoenix	Beach Bldg. Spec. Inc., Box 10236, 1040 E. Camelback Rd.	CR 4-3555
ARKANSAS		
Little Rock	National Bldrs. Supply, Box 3328, Forrest Park Sta. 3519 Cantrell Road	MO 6-9491
CALIFORNIA		
Los Angeles 33	Frank Peck Specialty Co., Inc., 347 South Clarence St.	AN 2-1185
San Diego 12	Charles H. Lentz, Box 727, San Diego 8169 Center St., Industrial Area, La Mesa	HO 9-4961
San Francisco 24	C. & B. Supply Co., 1671 Jerrold Ave.	MI 7-2462
COLORADO		
Denver 2	C. A. Crosta, Inc., 1901 Market St.	KE 4-4227
CONNECTICUT		
New Haven 11	The A. R. Kirschner Co., 315 Whitney Ave.	LO 2-9697
DELAWARE		
Wilmington 99	J. Francis Blaine Co., Box 1670, 1011 Washington St.	OL 6-8518
DIST. OF COLUMBIA		
Washington 7	Klon O. Row, Inc., 4380 MacArthur Blvd., N. W.	FE 3-4410
FLORIDA		
Jacksonville 7	Ed F. Zibell, 6134 Stetson Road	EX 8-2862
Miami 47	Metallic Engineering Co., Inc., 4885 S. W. 91st Ave.	OX 1-4114
Palm Beach	Kader Building Spec., Box 706, 332 Royal Palm Way	TE 3-1832
Pensacola	McCaa & Company, Box 5267, 1205 W. Government St.	HE 8-1623
Sarasota	Max M. Bayard, Box 2389	RI 7-6840
Tallahassee	Tallahassee Bldrs. Supply, Inc., Box 188 Corner Gaines & Woodward Aves.	2-0203
GEORGIA		
Atlanta 8	Industrial Equip. Co., 78 Baker St., N. W.	JA 2-2615
Augusta	W. E. Raines Co., Inc., Box 878, 14 Seventh St.	2-5553
Savannah	Schirm Supply & Spec. Co., Box 3551, Station B 2007 East Waldburg St.	AD 3-0259
ILLINOIS		
Chicago 13	Harold A. Schweig & Co., 1325 Belmont Ave.	EA 7-7977
Decatur	Fred Wicker, Box 1067, 2997 N. Jasper St.	9-7715
Ottawa	Fred Scherer, Inc., Box 476, 424 W. Madison St.	HE 3-0752
Peoria 2	Lucas Sales Co., 1318 So. Washington St.	3-8547
Quincy	E. Best Plbg. & Htg. Supply Co., Box 42, 628 Jersey St.	BA 3-0058
Rockford	Metal Fabricators, Inc., 1715 Seminary St.	WO 3-3439
INDIANA		
Evansville 3	Schlamp Bldg. Spec. Inc., Box 516, 400 W. Iowa St.	HA 3-4474
Fort Wayne	Jones Eng. Prod., Inc., Box 2498, 3416 Fairfield Ave.	H-4131
Gary	R. H. Ellsworth, Box 577, 8708 Oak Ave.	YE 8-1037
Indianapolis 2	McFerran-Kane Co., Inc., 1725 No. Meridian St.	WA 3-4537
Terre Haute	Enterprise Metal Prod., Box 127, 112 No. 7th St.	LI 8188
IOWA		
Burlington	Barngrover & Son Glass Co., Third & Valley Streets	PL 2-6307
Davenport	Austin Crabbs Inc., Box 816, 1010 So. Farragut Ave.	2-6294
Des Moines 9	Lemke Builders Supply Co., 610 Walnut Bldg.	AT 2-9611
Sioux City 1	The Haakinson & Beaty Co., 1st & Nebraska Sts.	8-4595
Waterloo	Modern Doors, Inc., Box 420, 917 East Fourth	AD 2-4812
KANSAS		
Wichita 1	Chester L. Anderson Co., Inc., Box 2254, 700 So. Emporia	HO 4-9354
KENTUCKY		
Louisville 11	Atlas Plaster & Supply Co., Inc. 30th & Greenwood Ave.	SP 6-4621
Paducah	The Paducah Iron Co., Box 118, 229 So. First St.	2-8238
LOUISIANA		
Baton Rouge 8	A. B. Broussard & Sons, Inc., Box 1710, 2937 Greenwood Dr.	DI 4-3703
New Orleans 19	Alumaglass Bldg. Prod., Inc., Box 7037, 739 S. Clark St.	AU 0844
Shreveport	W. A. Robinson & Co., Box 676, 711 Ontario St.	7-6382
MARYLAND		
Towson 4 (Baltimore)	Walter E. Scribner, Jr., 400 Eudowood Ave.	VA 3-0559
Cumberland	Builders Paint & Supply Co., Box 1006, 121 No. Centre St.	PA 2-5536
MASSACHUSETTS		
Norwood (Boston)	The Construction Supply Co., Box 206, 506 Washington St.	NO 7-3820
Springfield 5	John E. Anderson & Son, Inc., Box 26, Highland Sta. 429 Walnut Street	RE 6-2239
MICHIGAN		
Detroit 7	Acme Wire & Iron Works, 3527 East Canfield Ave.	WA 3-7555
Grand Rapids 2	S. A. Morman & Co., 300 Franklin St., S. W.	CH 5-0583
Kalamazoo 24	The Wigginton Bldrs. Supply Co., Box 2649, 1925 Alcott St.	FI 3-1639
Lansing	Payne-Rosso Co., Box 367, 2211 West St. Joseph St.	IV 4-4548
St. Joseph	Anderson Building Materials, Box 387, 216 No. State St.	YU 3-5543
Traverse City	R. W. Lang, Jr. & Assoc., Box B-12, 138 Burton, S. E. Grand Rapids 7, Michigan	CH 1-3991
MINNESOTA		
St. Paul 4	Builders Engineering Co., 501 Lynnhurst Ave.	MI 6-9623
MISSISSIPPI		
Jackson	Thrasher Co., Box 4477, 2689 Livingston Road	EM 2-1575
MISSOURI		
Joplin	M. E. Alcott Co., Box 347, 1201 Wall St.	MA 3-3677
Kansas City 11	Edelman-Lyon Co., Box 5899, Westport Sta. 4303 Main St.	VA 1-4340
St. Louis 17	Len A. Maune Co., 8500 Eager Road	WO 2-8100
MONTANA		
Helena	Builders Supply Co., Box 176	HI 2-2520
NEBRASKA		
Hastings	Ray Building Prod. Co., Box 66, 223 So. Burlington Ave.	2-4203
Omaha 10	Porter-Trustin Co., Box 37, Sta. A, 2300 Block North 18th	AT 4586
NEW MEXICO		
Albuquerque	Architectural Prod. Co. Inc., Box 3276, Sta. D. 2224 San Mateo Blvd., N. E.	AL 6-7102
NEW YORK		
Albany 10	Everett S. Glines & Co., 372 Hudson Avenue	AL 3-1836
Binghamton	Babcock, Hinds & Underwood, Inc., 174 Washington St.	2-6461
Buffalo 1	Baehre & Shumway, 41 Elmwood Ave.	EL 2702
Elmira	Harris, McHenry & Baker Co., Box 649, 321 Penna. Ave.	RE 4-5144
New York 1	Henry Weis Mfg. Co., 110 West 34th St. Fred Pausch, Eastern Sales Supervisor	LA 4-2721
Ridgewood 27	Henry Weis Mfg. Co., Inc., 56-31 Metropolitan Ave. Joe Scherbak, Manager	HY-7-4600
Rochester 8	Carberry Building Spec. 135 Spring Street	BA 5-2945
Syracuse 5	B. R. Johnson & Son, Inc., 5900 So. Salina Street Branch Office: 127 N. Indiana Ave., Box 312, Watertown, N. Y.	HO 9-3244 SU 2-1320
Utica	The American Hard Wall Plaster Co., Box 439, 326 Broad St.	2-4156
NORTH CAROLINA		
Asheville	Alan H. Shaw Co., Box 2577, 4 Mt. Clare Ave.	AL 4-2231
Charlotte 1	Edwin C. Boyette & Son, Inc., Box 10582, 216 E. Morehead St.	FR 6-2454
Goldsboro	Dewey Bros. Inc., Box 1027, 801 S. George St.	RE 4-3411
Greensboro	J. D. Wilkins Co., Box 1288, 1200 W. Lee St.	BR 4-6327
NORTH DAKOTA		
Fargo	Fargo Structural Steel & Supply Co., Box 1205, 5 N. 23rd St.	AD 5-7595
OHIO		
Cincinnati 36	Condit Constr. Prod., Inc., 3922 East Galbraith Rd.	TW 1-7900
Cleveland 15	W. R. Wilson Co., 2063 East Fourth Street	PR 1-2746
Columbus 8	Condit Constr. Prod., Inc., 1026 West Goodale Blvd.	AX 4-3791
Dayton 3	Condit Constr. Prod., Inc., Box 26, Sta. A, 2800 E. Third	CL 3-1178
Toledo 1	The Hausman Steel Co., Box 416, 300 Sandusky St.	RA 9-1661
Youngstown (New Castle, Pa.)	C & D Bldg. Prod. Co., 81 Shenango Rd.	O 4-1849
OKLAHOMA		
Oklahoma City 1	Scovil & Sublett, Inc., Box 716, 100 Northeast 26th St.	JA 8-6365
Tulsa 19	Murray R. Womble Co., 216 East 16th St.	LU 4-2414
OREGON		
Portland 4	W. H. Cress Co., 201 Concord Bldg.	CA 8-1714
PENNSYLVANIA		
Allentown	Halteman Co., Allen & St. Cloud Streets	HE 4-6159
Erie	George H. Kraft Assoc., Box 628, 121 East 29th St.	5-2648
Harrisburg	Harry Mason Co., Box 852, Harrisburg, 915 Ohio Ave., Lemoyne, Pa.	RE 7-7142
Philadelphia 22	Philadelphia Fire Retardant Co., Inc., 1934 North Front St.	GA 6-0206
Pittsburgh 13	Better Bilt Supply, Inc., 3614-36 Boulevard of Allies	MU 1-6520
Wilkes-Barre	Builders' Supply Co., 504 South Main St.	VA 2-5166
Williamsport	Cement Prod. Co., Box 93, East 4th & Penn Sts.	2-4671
York	Service Supply Co., Box 746, 152 So. Sumner St.	82-821
SOUTH CAROLINA		
Columbia	Trojan Steel Corp., Box 5243, 825 Green St.	AL 6-6372
Greenville	A. N. Stall, Box 306, 56 Woodvale Ave.	Cedar 5-2686
SOUTH DAKOTA		
Rapid City	Midwest Bldrs. Supply, Inc., Box 1486, 813 Quincy St.	Fillmore 3-4220
Sioux Falls	Hassenstein Steel Co., Box 776, 300 West Walnut St.	4-7091
TENNESSEE		
Bristol	Milton B. Abercrombie Co., Box 544, 257 Central Building	SO 4-1641
Chattanooga 1	The Currin Co., Inc., Box 727, 1208 Carter St.	AM 6-2762
Knoxville 2	Wm. S. Trimble Co., Inc., Box 154, 2200 Atchley St.	5-2133
Memphis 1	Tri-State Iron Works, Box 282, 677 North Main St.	JA 6-8414
Nashville 12	Boyd Jacoway, Box 6151, 409 Wilsonia Drive	CY 7-1348
TEXAS		
Amarillo	Jenkins Brick & Supply Co., Box 1108, 820 West 6th St.	DR 2-4336
Dallas 19	Byrne & Assoc., Inc., Box 6863, 3012 Fairmount	RI 7-9458
El Paso	Architectural Prod. Co., Inc., Box 7307, 506 E. Yandell Blvd.	KE 3-9547
Fort Worth	Charles F. Williams Co., Inc., Box 1724, 328 Lipscomb St.	ED 2-6363
Houston 1	Dewitt A. Sanders, Box 366, 2314 Preston Ave.	CA 7-9204
Lubbock	Lubbock Bldg. Prod., Box 1238, 214 Avenue M	PO 5-7721
San Antonio 1	Kirby Bldg. Spec., Box 8242, Laurel Heights Station 3504 Bandera Road	BE 3-8169
UTAH		
Salt Lake City	T. C. Stayner Co., Box 155, 2985 South Second St., West	HU 4-4411
VIRGINIA		
Norfolk 9	Hall-Hodges Co., Inc.. Box 7055, Lafayette Station, 1344 Ballentine Blvd.	MA 5-8275
Richmond 24	Sash, Door & Glass Corp., Box 4209, 6th & Stockton Sts.	BE 2-2327
Roanoke	Cates Bldg. Spec., Inc., Box 2489, 1932 Chapman Ave., S. W.	DI 3-2473
WASHINGTON		
Seattle 1	Bradley-Zesbaugh, Inc., 523 White-Henry-Stuart Bldg.	MA 4-1570
Spokane 1	Fryer Ford Co., 612 Peyton Bldg.	MA 4-4453
WEST VIRGINIA		
Charleston 1	Ira F. Kuhn Co., Box 5176, 1724 Washington St., East	DI 3-9421
Huntington 16	E. L. Warnick, Box 1581, 602½ 9th Ave.	JA 2-4639
WISCONSIN		
Madison 4	Theo. Kupfer Fdry. & Iron Works, Inc., Box 909 149 Waubesa St.	CH 4-2441
Marinette	Ben B. Holmes, 2430 Hall Avenue	RE 5-5076
Milwaukee 2	Jackson-Foster, Inc., 1715 North Water Street	BR 1-3380
FOREIGN		
ONTARIO (CANADA)		
Toronto 1	Bennett Equip. & Supply Ltd., 403 Terminal Whse. Bldg., 207 Queens Quay West	Empire 4-9520
HAWAII		
Honolulu 2	Lewers & Cooke, Ltd., Box 2930, 404 Piikoi St.	Lewercooke 5-1961
PHILLIPPINES		
Manila	Norton & Harrison Co., Box 3176, 660 Echague	Hoopton 3-34-1
PUERTO RICO		
San Juan 13	Luis Lavergne-Yordan Co., Inc., Box 3021, Labra 800	Lavdan 3-11
VENEZUELA		
Caracas, D.F.	Commercial Alfonso S. A., Apartado 2225	Alguerra 54-364

HENRY WEIS MFG. CO., INC. · ELKHART, INDIANA

LITHO IN U.S.

the new cubicle curtain track

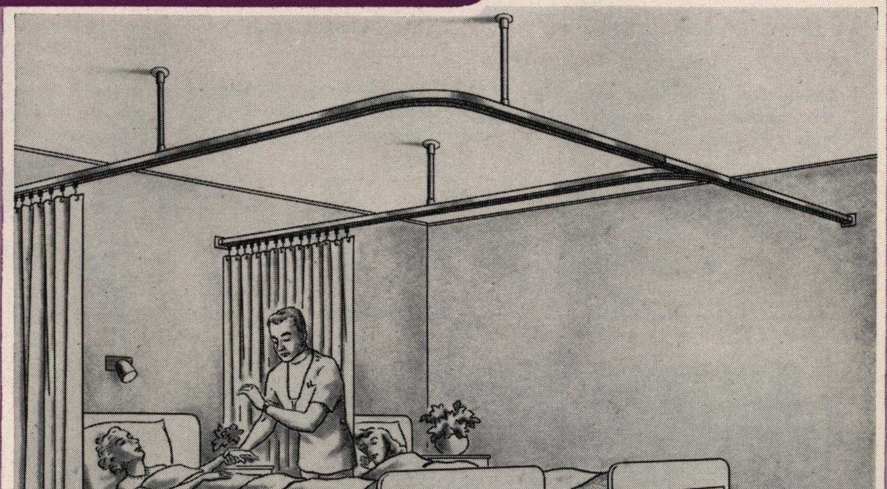


designed by the world's largest and best-known manufacturer of stage and drapery hardware.

◀ ceiling type

cubi-trac

suspended type ▶



for hospitals, physicians' offices, nursing homes, dressing rooms and private residences.

A.I.A. File No. 35-K

SOLD ONLY THROUGH DEALERS - -

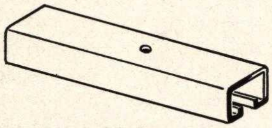
ADC DRAPERY TRACK CORP.
2121 SOUTH 12th STREET
ALLENTOWN, PENNSYLVANIA

OUR CREDO

Since 1919 the name "ADC" has been synonymous with quality products, smooth and efficient operation, and prompt and courteous service. Each job is custom-made and is therefore given individual attention. Our products are sold only through dealers and we are proud to be associated with this closely-knit family. Their continuing loyalty to "ADC" is probably the biggest single reason why we today enjoy the position of being the nation's leading manufacturer of stage and drapery hardware.

OUTSTANDING *cubi-trac* FEATURES

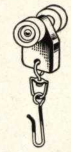
- Carrier wheels made of sturdy polyethylene to assure noiseless curtain travel and long life.
- "Bumper-to-bumper" action with specially designed center block that prevents wheels of one carrier from binding contact with next carrier.
- Rust-proof swivel attachment to assure free swinging movement of carrier.
- Sturdy abrasion-resistant, high strength, high impact, plastic block with heavy duty swivel attachment preventing separation of curtain from carrier. A substantial improvement over frangible bead-chain arrangements.
- Perfectly formed 90-degree 12″ radius curves including at least 12 inches of continuous, unspliced straight channel at each end.
- Only cubicle track on the market that can be used for both ceiling and suspended types. An exclusive interchangeable feature offered only by ADC! Truly, the all-purpose cubicle track.
- Each Joining Sleeve and T-Bracket eliminates need for one Suspension Tube. (Used only on suspended installations.)
- Easily the quietest cubicle track available anywhere.
- Carriers can easily be replaced in track channel through use of Removable End Stop.



No. 1100 Channel

1′—5 oz.

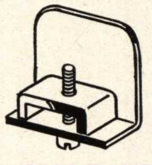
14 gauge aluminum. Obtainable in unspliced lengths up to 20′. Holes drilled on 12″ spacing on top of channel for direct ceiling attachment. App. 1″ x 1⅛″.



No. 1101 Single Carrier

2—1 oz.

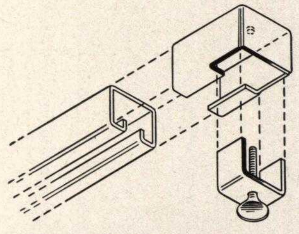
Rec. spacing: 6″.
Block providing "bumper-to-bumper" action, supported from 2 polyethylene wheels. Plated swivel and curtain hook for free, effortless and quiet curtain movement. Carrier width: app. 13/16″.



No. 1109 End Stop

2—1 oz.

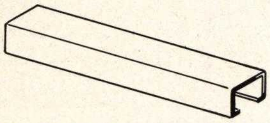
Prevents carriers from slipping out of end of track.



No. 1110 Removable End Stop

1—3 oz.

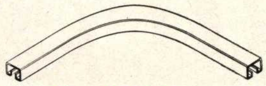
Permits easy replacement of carriers at one track end by simple pull-out device. End Stop prevents carriers from slipping out of end of track. End Stop width: app. 1″.



No. 1124 Splicing Clamp

1—2 oz.

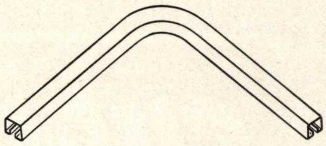
Sleeve for joining and extending track sections. 8″ long x 1¼″ wide x 1″ high.



No. 1167 Curve

1—17 oz.

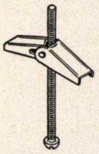
44″ long piece bent to 90 degree 12″ radius with 12″ straight channel at each end.



No. 1168 Curve

1—31 oz.

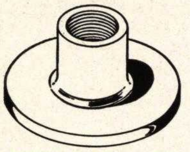
78″ long piece bent to 90 degree, 12″ radius with 24″ straight channel at each end. Especially designed for relatively short spans such as dressing room enclosures. Embraces area up to 3′ x 3′.



No. 1169 Toggle Bolt

2—1 oz.

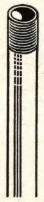
For attaching track channel direct to ceiling and for fastening Ceiling and Wall Flanges. 3/16″ x 3″ recommended.



No. 1170 Ceiling Flange

1—4 oz.

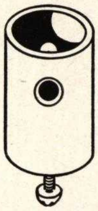
Threaded accessory constructed of heavy-duty aluminum. For connecting Suspension Tube to ceiling. Toggle bolt rec. to attach Flange to ceiling.



No. 1171 Suspension Tube

1′—5½ oz.

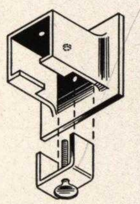
Rec. spacing: 6′.
Constructed of 15/16″ aluminum. Threaded at one end for fastening to Ceiling Flange. Other end fastened to Track Socket.



No. 1172 Track Socket

1—1 oz.

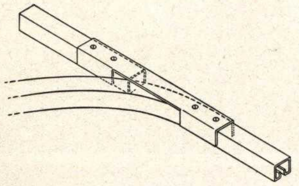
Constructed of heavy duty aluminum. Connects Suspension Tube to track channel with screw.



No. 1173 Wall Flange

1—2½ oz.

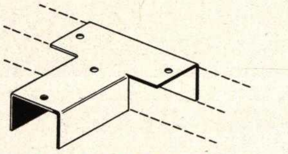
Constructed of heavy duty aluminum. For fastening track channel to wall with toggle bolt. End Stop Insert permits easy replacement of carriers on suspended installations.



No. 1174 Joining Sleeve

1—8 oz.

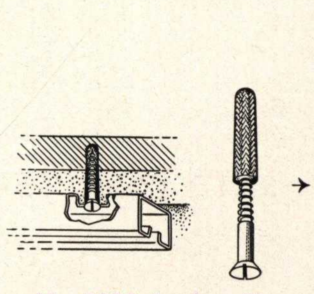
Constructed of aluminum. Connects straight section of one track with curved section of adjoining track. Provides added track support.



No. 1175 T-Bracket

1—3 oz.

Joins 2 tracks into 90-degree connection. Provides added track support.



No. 1180 Anchor Plug

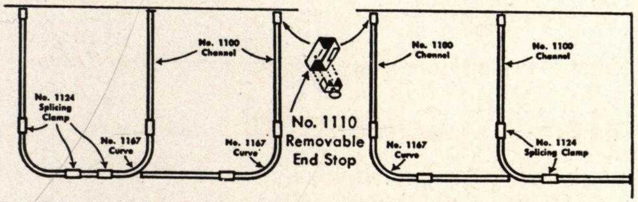
64—1 oz.

Composed of braided jute compressed into tubular shape. Eliminates preliminary marking and hole spotting during attachment of track channel direct to concrete ceilings. Metal or wood screw with Anchor Plug inserted as one unit. Holding power far in excess of ordinary requirements. Hole size same diameter and length as Anchor Plug. For ceiling type installation only. ⅝″ #8 recommended.

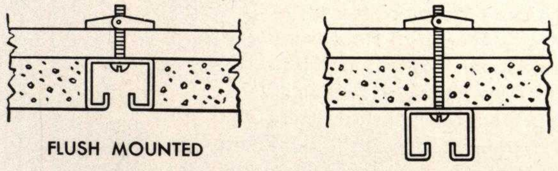
ECONOMICALLY PRICED • REMARKABLY QUIET AND SMOOTH

Suggested Specifications for Ceiling-Type Cubi-Trac

Cubicle Tracks shall be of aluminum construction, entirely enclosed, except for slot in bottom, and in one continuous piece. Cubicle carriers shall be spaced six inches apart and shall be composed of a special non-wheel binding abrasion-resistant block supported on self-lubricating bearings by two polyethylene wheels, rolling on two separate parallel treads. Each cubicle carrier shall also consist of a free-moving rust-proof swivel and rust-proof curtain hook. One end of each track unit shall be equipped with a removable type end stop to permit simple replacement of carriers. Splicing clamps shall be of aluminum construction and shall extend and join track sections. Curves shall be formed to 12″ radius, 90 degrees with at least 12 inches of straight channel at each end. Model 110 as manufactured by ADC Drapery Track Corporation of Allentown, Pa.


No. 1100
Channel
No. 1100
Channel
No. 1100
Channel
No. 1124
Splicing
Clamp
No. 1167
Curve
No. 1167
Curve
No. 1110
Removable
End Stop
No. 1167
Curve
No. 1124
Splicing Clamp

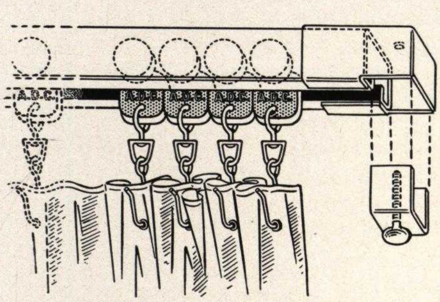
Bird's eye view of typical layout showing various ceiling cubicle combinations.



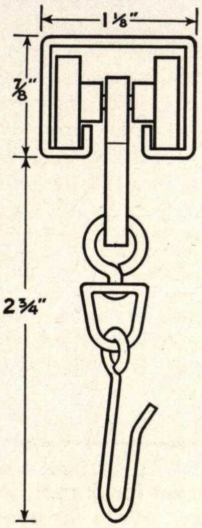
FLUSH MOUNTED

SURFACE MOUNTED

Drawing showing the attachment of No. 1169 Toggle Bolt in either arrangement. Recommended toggle bolt spacing: every 4 feet.



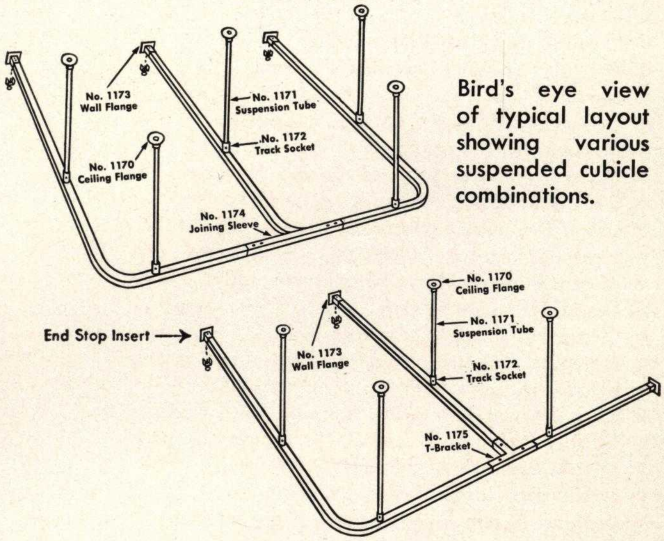
Showing ADC's unique "bumper-to-bumper" feature which prevents wheels of one carrier from fouling with next carrier. Note the broken lines indicating the smooth rolling features of wheels. Also note location of Removable End Stop.



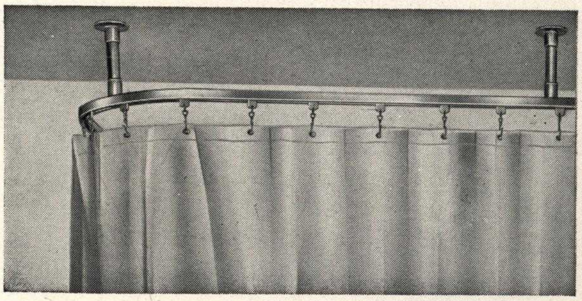
End view of track and carrier assembly, showing actual dimensions.

Suggested Specifications for Suspended Type Cubi-Trac

Cubicle Tracks shall be of aluminum construction, entirely enclosed, except for slot in bottom, and in one continuous piece. Cubicle carriers shall be spaced six inches apart and shall be composed of a special non-wheel-binding abrasion-resistant block supported on self-lubricating bearings by two polyethylene wheels, rolling on two separate parallel treads. Each cubicle carrier shall also consist of a free-moving rust-proof swivel and rust-proof curtain hook. One end of each track unit shall be equipped with a removable type end stop to permit simple replacement of carriers. Splicing clamps shall be of aluminum construction and shall extend and join track sections. Curves shall be formed to 12″ radius, 90 degrees with at least 12 inches of straight channel at each end of curve. Ceiling hanger assemblies shall be spaced approximately six feet apart; they shall consist of joining sleeves, threaded suspension tubes, threaded ceiling flanges, track sockets and wall flanges to provide suspended-type cubicle operation. Model 110-S as manufactured by ADC Drapery Track Corporation of Allentown, Pa.


No. 1173
Wall Flange
No. 1171
Suspension Tube
No. 1172
Track Socket
No. 1170
Ceiling Flange
No. 1174
Joining Sleeve
No. 1170
Ceiling Flange
No. 1171
Suspension Tube
End Stop Insert
No. 1173
Wall Flange
No. 1172
Track Socket
No. 1175
T-Bracket

Bird's eye view of typical layout showing various suspended cubicle combinations.



Close-up of typical suspended-type Cubi-Trac showing Channel, Curve, Carriers and Ceiling Hanger Assembly consisting of (top to bottom): threaded Ceiling Flange, threaded Suspension Tube (15/16″ O.D.) and Track Socket.

Recommended spacing of Ceiling Hanger Asembly: every six feet.

ECONOMICALLY PRICED • REMARKABLY QUIET AND SMOOTH

Suggested Fastening Methods for Various Types of Ceilings
(For Ceiling and Suspended CUBI-TRAC Installations)

TYPE OF CEILING	FASTENER
Plaster over Wooden Lath	**Toggle Bolts**
Plaster over Metal Lath	**Toggle Bolts**
Plaster or Block over Furring Strips	**Toggle Bolts**
Acoustical Tile	**Toggle Bolts**
Concrete	**Lag Bolts, Lag Shields, Wall Plugs, Masonry Screws, or Anchor Plugs***

Toggle Bolts should always be used to fasten track for recessing in a plaster ceiling or other types of recessed ceilings, unless special provisions have been made for fastening.

Where a drop or non-weight-bearing ceiling is involved, metal or wooden furring should be installed first. This furring is attached to the overhead stringers or beams which are usually 4′ to 6′ apart; then the track should be attached to the furring. This is applicable to both ceiling and suspended type installations.

*Anchor Plugs are recommended **only** for ceiling-type installations and **should not** be used on suspended-type installations.

A Partial List of "CUBI-TRAC" Customers

- Flowers Hospital, Dothan, Ala.
- Phoenix General Hospital, Phoenix, Ariz.
- Meadoff and Iger Clinic, Bakersfield, Calif.
- Grossmont Hospital, La Mesa, Calif.
- Baldwin Hills Hospital, Los Angeles, Calif.
- Mesa Memorial Hospital, Grand Junction, Colo.
- Suwannee County Hospital, Live Oak, Fla.
- Latter Day Saints Hospital, Idaho Falls, Idaho
- Central Hospital, Clifton, Ill.
- Ahrens Nursing Home, Clarksville, Iowa
- Good Samaritan Home, Mason City, Iowa
- Grace Hospital, Hutchinson, Kans.
- Halstead Hospital, Wichita, Kans.
- L'Herisson Clinic Hospital, Coushatta, La.
- Lake Charles Memorial Hospital, Lake Charles, La.
- Cooley Dickinson Hospital, Northampton, Mass.
- Maple Lawn Hospital, Coldwater, Mich.
- Boulevard Hospital, Detroit, Mich.
- Braham Community Hospital, Braham, Minn.
- Gillette State Hospital, St. Paul, Minn.
- Texas County Hospital, Houston, Mo.
- Memorial Community Hospital, Jefferson City, Mo.
- Kimball County Hospital, Kimball, Neb.
- Lincoln General Hospital, Lincoln, Neb.
- Carver Nursing Home, Englishtown, N. J.
- St. Michael's Hospital, Newark, N. J.
- San Mateo Osteopathic Clinic, Albuquerque, N. M.
- Auburn Memorial Hospital, Auburn, N. Y.
- Syracuse Memorial Hospital, Syracuse, N. Y.
- Duke Hospital, Durham, N. C.
- McDowell County Health Center, Marion, N. C.
- St. John's Hospital, Fargo, N. D.
- Woods Memorial Hospital, Cleveland, O.
- East Haven Rest Home, Elyria, O.
- Parkview Hospital, Toledo, O.
- Enid General Hospital, Enid, Okla.
- St. Anthony's Hospital, Oklahoma City, Okla.
- Mt. View Nursing Home, Ashland, Ore.
- Allentown Hospital, Allentown, Pa.
- Harrisburg Hospital, Harrisburg, Pa.
- South Carolina State Hospital, Columbia, S. C.
- Woodbury Medical Clinic, Woodbury, Tenn.
- St. Joseph's Hospital, Fort Worth, Tex.
- Medical Center Hospital, Odessa, Tex.
- Latter Day Saints Hospital, Salt Lake City, Utah
- Canaan Medical Center, Canaan, Vt.
- Good Samaritan Hospital, Puyallup, Wash.
- Doctors Hospital, Seattle, Wash.
- Platte County Memorial Hospital, Wheatland, Wyo.
- Two Hills Municipal Hospital, Two Hills, Alta.
- St. John's General Hospital, St. John's, Nfld.
- Jewish General Hospital, Montreal, Que.
- Hospital Clinics, Quirurgico, Havana, Cuba

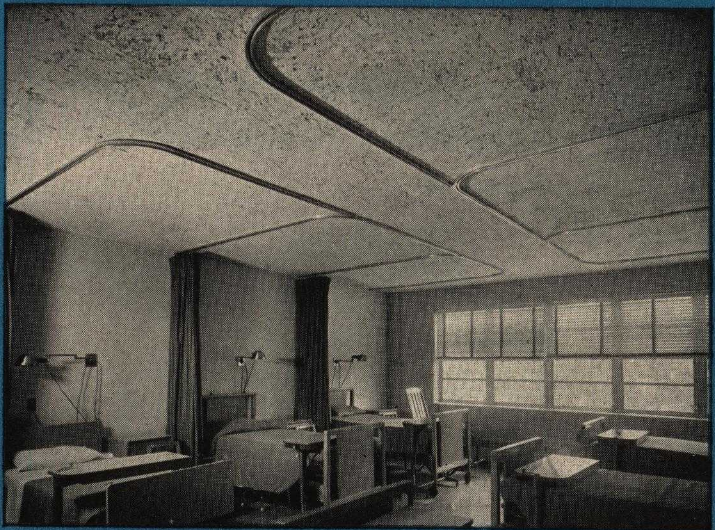
WRITE for further data and the name of your nearest ADC dealer; we have a dealer for your community. He can provide a variety of curtains and will install CUBI-TRAC to your particular specifications. He will be glad to forward specifications and blueprints to us—we have facilities for doing "take-offs" and for providing you with a complete cost breakdown at no obligation.

ADC Also Makes Drapery Equipment for Stages, Windows,
Room Partitioning, and Light Duty Conveyors. Write for our complete Catalog.

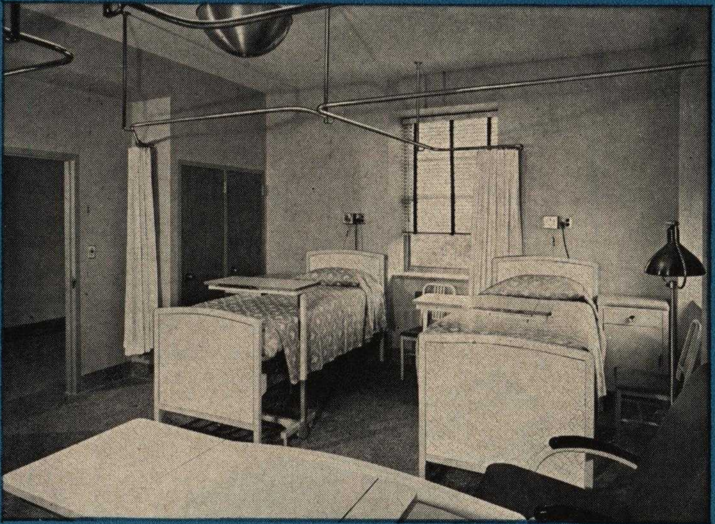
ADC DRAPERY TRACK CORPORATION

2121 SOUTH 12TH STREET **ALLENTOWN, PA.**

ADC FORM 352 7-59 30M
PRINTED IN U.S.A.



ceiling type



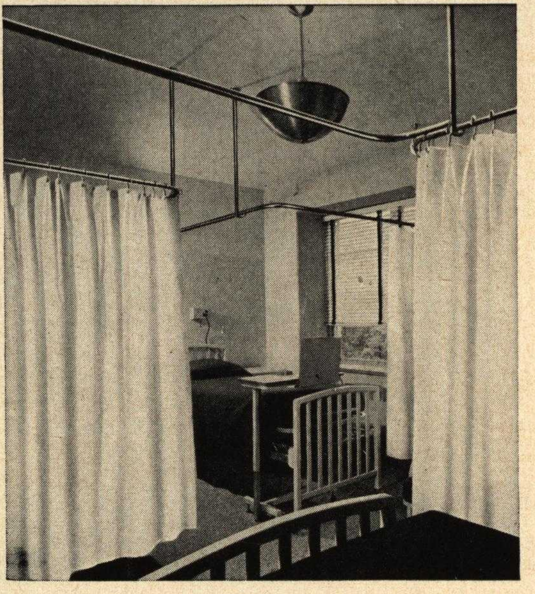
suspended type

BELTOR

BEDSIDE CURTAIN CUBICLES

BELTOR MANUFACTURING CORPORATION
P. O. BOX 58   MARLTON, NEW JERSEY

beltor *bedside* curtain cubicles



description

The improved line of BELTOR bedside curtain cubicles are accepted and approved by leading architects and hospital and institutional staffs throughout the country. Years of experience and thousands of "field-tested" installations assure the highest degree of quality in all BELTOR materials and services.

BELTOR's complete line includes all types of cubicle construction easily adaptable to any installation requirement. Quick easy conversion of multiple-unit (semi-private or ward type) accommodations to comfortable private rooms is accomplished quietly and smoothly without the use of bulky, unsightly screens. When closed, the curtains completely enclose the bed area. But when open they provide complete vision of the entire room. Circulation of air and light is thorough and uninterrupted.

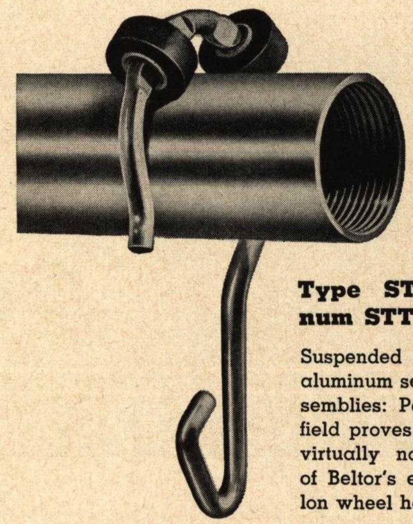
advantages

"Beltor Cubicles are of sturdy construction to give years of faultless service whether your choice is our quality chrome plated brass or our aluminum type with alumilite finish, you can be sure of extra quality. No special maintenance is required. All BELTOR Cubicles are custom fabricated ready to be installed. This service is at no extra cost, yet allows your staff to easily install the Beltor Cubicles."

scale: full size

SUSPENDED

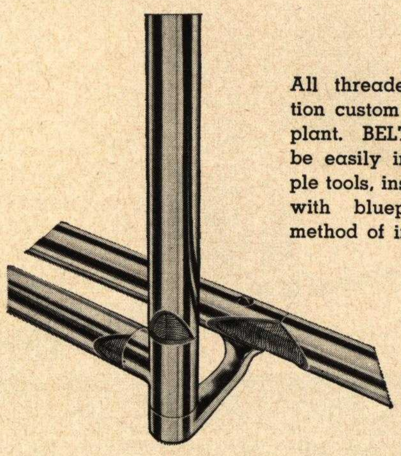
seamless



Type STTA — Aluminum STTB — Brass

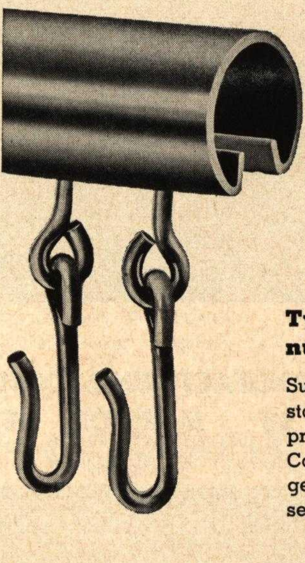
Suspended Beltor brass or aluminum seamless tubing assemblies: Performance in the field proves the long life and virtually noiseless operation of Beltor's exclusive twin nylon wheel hooks.

assembly detail



All threaded type construction custom fabricated at our plant. BELTOR Cubicles can be easily installed with simple tools, instructions supplied with blueprint for proven method of installation.

channeled

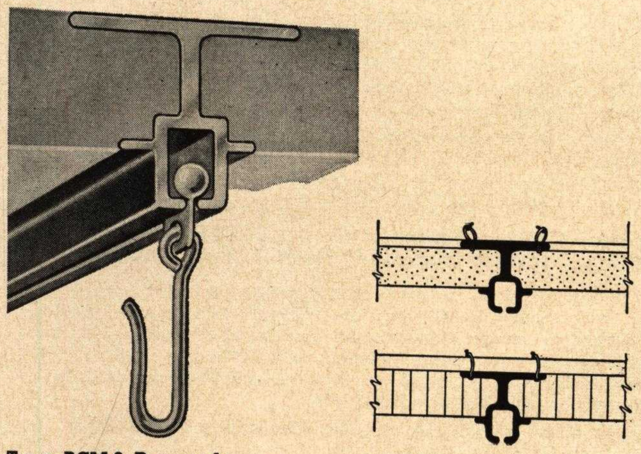


Type CTTA — Aluminum CTTB — Brass

Suspended channel-type installations feature the improved Beltor brass-cup hook. Can't jam, can't pull out, can't get lost, tested for years of service.

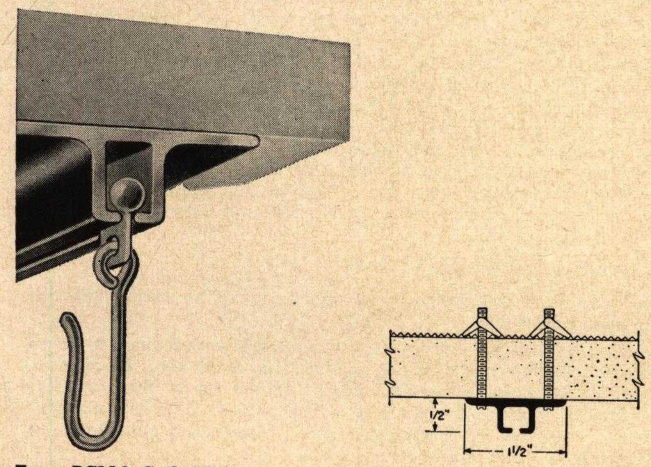
CEILING MOUNTED

concealed



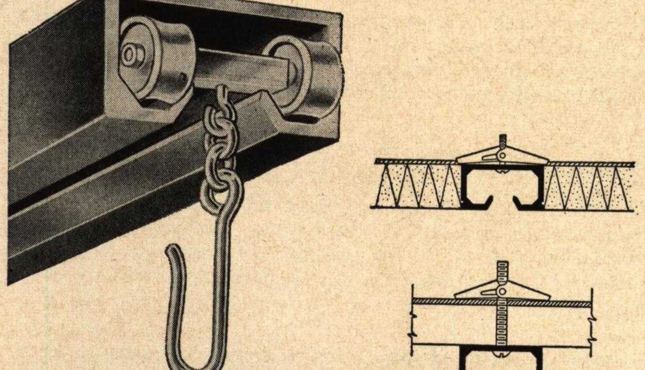
Type BCM-2 Recessed

surface mounted



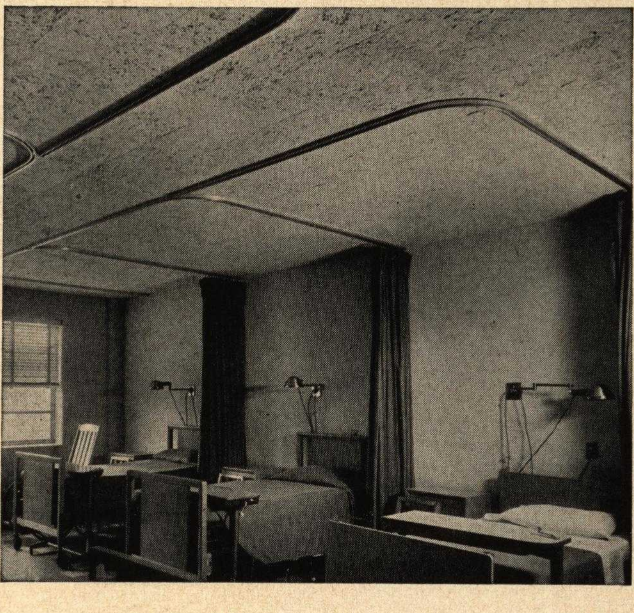
Type BCM-1 Ceil. Mtd.

concealed or surface



BSR-1 Ceil. Mtd.
BSR-2 Recessed

Nylon wheels on metal axle affords greatest durability and trouble-free operation.



features

Beltor's bedside curtain cubicles are truly overhead magic, improving patient morale in both emergency and convalescence. Notice how the curtains surround each bed, provide complete enclosure without the use of old-fashioned screens. Note, too, how the curtains may be drawn back against the wall to allow complete vision of the entire room. Beltor cubicles are engineered to fit in with the most exacting hygienic standards.

The finest engineering interpretations to meet the requirements of the architect, contractor, and management staff go into every Beltor installation. Experience, based on the accumulated and specialized "know how" of thousands of curtain cubicle assemblies, is an important part of Beltor service. Experience plus our pre-fitting method of production enables Beltor to make installations with surprising speed and unerring accuracy working hand-in-hand with your building or modernization program.

permanently rigid—Beltor installations not only look good in their streamlined beauty, they are engineered to substantial standards of quality, your assurance of complete satisfaction, a permanent investment free from maintenance.

brass or aluminum—Seamless Tubing assemblies are constructed of one-inch new hard-drawn chromium plated brass with brass and bronze fittings or alumalite-finish aluminum with aluminum fittings. All joints are threaded, precision-fitted and connected with concealed screw bushings with no open joints to interrupt the glide of the Beltor hoods. The CHANNEL TUBING assemblies feature sturdy extra long socket-type connections on the main track. The ceiling hangers are threaded and precision-fitted.

fade-proof curtains—Beltor curtains are made of top-quality materials including shadow-proof tub-fast Sanforized Jean Cloth, sturdily woven of tightly spun combed yarns. White or pastel colors, vat-dyed for permanency for new installation or replacements for your present equipment. Firmly anchored rust-proof grommets.

SPECIFICATIONS

Seamless Tube Track Suspended Type STTA, aluminum; STTB, brass

Material: To be extruded aluminum tubing 1" O.D. x .065. Type 61S-T6 aluminum alloy internally threaded at both ends. Corner bends to be formed of the same material as track and is to be bent on 6" radius to 90°. Curtain track to be suspended from ceiling, material same as track threaded internally on both ends to accommodate track suspension bracket.

Arm supporting track to be drop forged, and so designed as to allow free movement of the curtain hook. End entering suspension tube to be threaded to insure rigidity.

Joining corner bend and curtain track to be made by means of concealed tubular brass screw connectors and all connections to be fitted to hairline precision. At wall and ceiling flanges, tube shall be secured by means of oval head P.K. screws.

All fittings to be drop forged or cast aluminum and accurately machined.

Finish: Track and fitting to have high polish finish over which is to be an anodized coating consisting of a treatment by an electrochemical process so as to obtain a dense adherent coating of aluminum oxide.

Curtain hook to be of 7 gauge hard aluminum wire designed to pass suspension bracket and equipped with two noiseless nylon rollers.

Cubicle shall be installed in such a manner as to completely screen each bed separately. The assembly of each unit shall be such that no straight track shall terminate at point of the radius of the corner bend. A second bend is to be used to carry the curtain the minimum of 12" past the straight run of the rack to eliminate gaps.

The installation shall be made in the best possible manner providing a neat absolutely rigid cubicle.

Channeled Tube Track Suspended Type CTTA, aluminum; CTTB, brass

Material: To be extruded aluminum tubing 1" O.D. x .065, type 61S-T6 aluminum alloy. Straight track and corner bend to be 1" O.D. x .065 aluminum alloy with lips internally concealed. Corner bend to be on an 8" radius to 90° with ends extending 4" beyond spring line. Curtain at both ends to accommodate track suspension bracket.

Supporting curtain track to be threaded and to connect with suspension tube. Corner bend and straight track to be joined by 7" long concealed connector formed to fit accurately. At wall and ceiling flanges, track shall be secured by means of oval head P.K. screws. Fittings to be drop forged or cast aluminum and accurately machined.

Curtain hooks to be of the non-removable type and constructed of .125" aluminum wire of two interlocking, closed loops, with internal sliding cup to insure noiseless, flexible, and efficient operation.

Finish: Same as above.

Beltor Square Recessed Track (BSR Series) BSR-1, ceiling mounted; BSR-2, recessed

Material: Track to be extruded aluminum 1⅜" x 11/16" x 1/16" forming double raceways to accommodate carriers. Internal corners of track to be reinforced full length. Units to be fabricated in one continuous length with 12" radius at bend assuring maximum efficiency of carriers.

Carriers: To be constructed of twin nylon wheels on metal axle supporting interlocking closed loops with .125" aluminum wire hook.

Finish: Track to have polish finish and to be anodized.

Beltor Ceiling Mounted Series (BCM Series) BCM-1, ceiling mounted; BCM-2, recessed

Material: Track to be architecturally extruded aluminum 1½" x ¾" with opening to accommodate nylon slider. Lips to be smoothly polished to secure uninterrupted movement of carriers. Units to be formed in one continuous length with 12" radius at bend to 90°. The wing design to enable track to be either surface mounted or recessed in masonry or acoustic tile.

Finish: Track to have high polish finish and to be anodized.

"Jean" cloth curtains

Curtain material shall be selected closely woven Jean cloth .285 in weight with a count of not less than 160 threads (96 warp threads, and 64 filler threads) per inch of quality. Curtain cloth shall be sun proof, shadow proof, tubfast, and shall be sanforized and mercerized. Material to be vat dyed, only identhrene dyes shall be used, the color shall be standard as selected. Curtains shall have top hem 1½" wide, of triple thickness of material through which special rustproof white metal grommets are to be machined every 6". Bottom hem to be 1¼" wide. Seams to be sewn with two needles interlocking, preventing raveling. Curtains shall be at least 10% wider than length of track upon which they are used, for ample fullness to insure closing all gaps. Each curtain shall extend to not more than 15" from finished floor. On the top hem of each curtain shall be sewn a label to denote the size of the curtain.

Curtains for Ceiling Track

Curtains shall follow the same specifications as above with the following added:

The top part of the curtain shall consist of a nylon mesh to afford ventilation when curtains are drawn. The mesh shall be approximately 22" wide and shall be sewn to the top of the screening curtain by two needle stitching, edges turned. Top hem of nylon to be reinforced by double thickness of screening cloth to allow machining of rust-proof grommets every 6".

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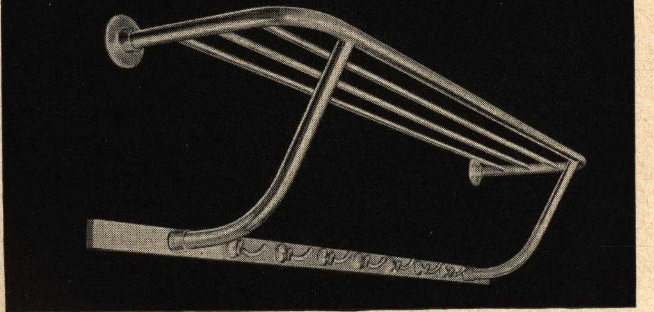
coat and hat rack and shelf



Made of aluminum alloy tubular sections, custom fabricated to your requirements. Shipped complete ready to install. Available in double shelf models also. Used in various hospitals, schools, hotels and other related applications. All parts alumilited for lasting beauty and neat appearance.

specification

Material to be of 1" O.D. aluminum tubing for supporting and main sections, and ½" O.D. tubing for the inside connection, forming the shelf areas. All parts to be connected by concealed bushings. Larger sizes to have intermediate supports for greater strength.

BELTOR MANUFACTURING CORPORATION

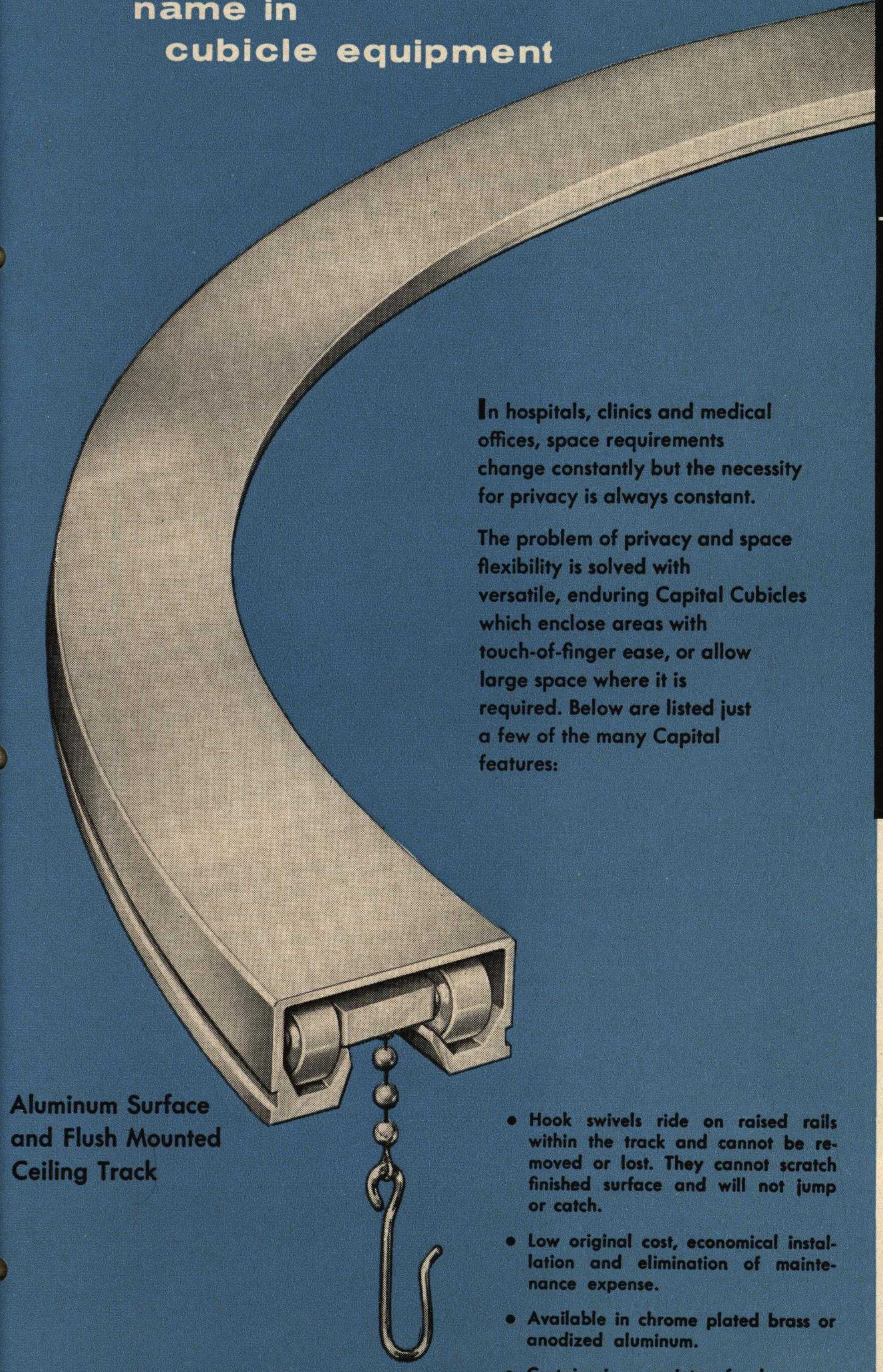
P. O. BOX 58 MARLTON, NEW JERSEY

engineering service

Ask for a Beltor Survey now. Our Engineering Staff is at your service . . . we will be glad to consult with you and survey your multiple-bed cubical needs without obligation. Prompt delivery and installation assured.

CAPITAL

america's foremost name in cubicle equipment

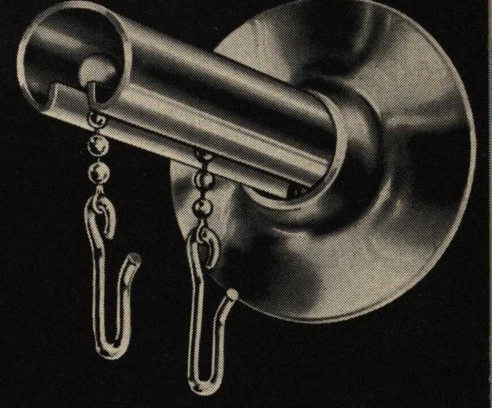


Aluminum Surface and Flush Mounted Ceiling Track

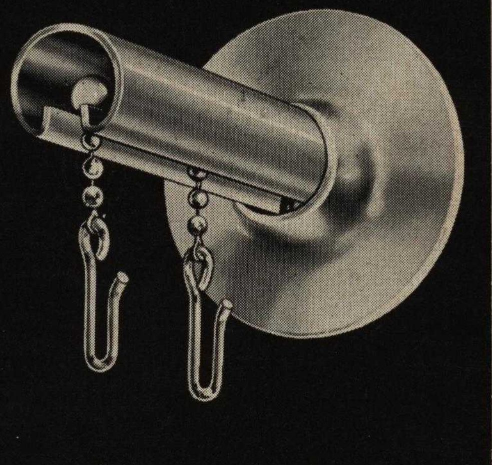
In hospitals, clinics and medical offices, space requirements change constantly but the necessity for privacy is always constant.

The problem of privacy and space flexibility is solved with versatile, enduring Capital Cubicles which enclose areas with touch-of-finger ease, or allow large space where it is required. Below are listed just a few of the many Capital features:

- Hook swivels ride on raised rails within the track and cannot be removed or lost. They cannot scratch finished surface and will not jump or catch.
- Low original cost, economical installation and elimination of maintenance expense.
- Available in chrome plated brass or anodized aluminum.
- Curtains in a variety of colors.



Brass, Chrome Plated, Suspended Trac



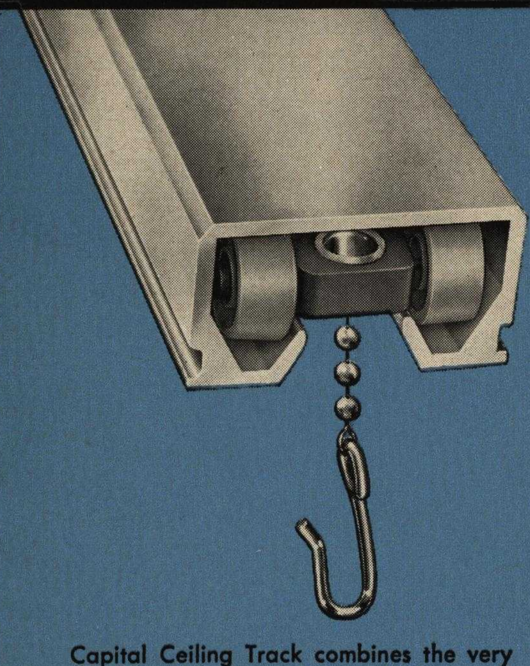
Aluminum Suspended Track

CAPITAL CUBICLE CO., INC.

213—25th STREET
BROOKLYN 32, N.Y.
Tel: SOuth 8-1020

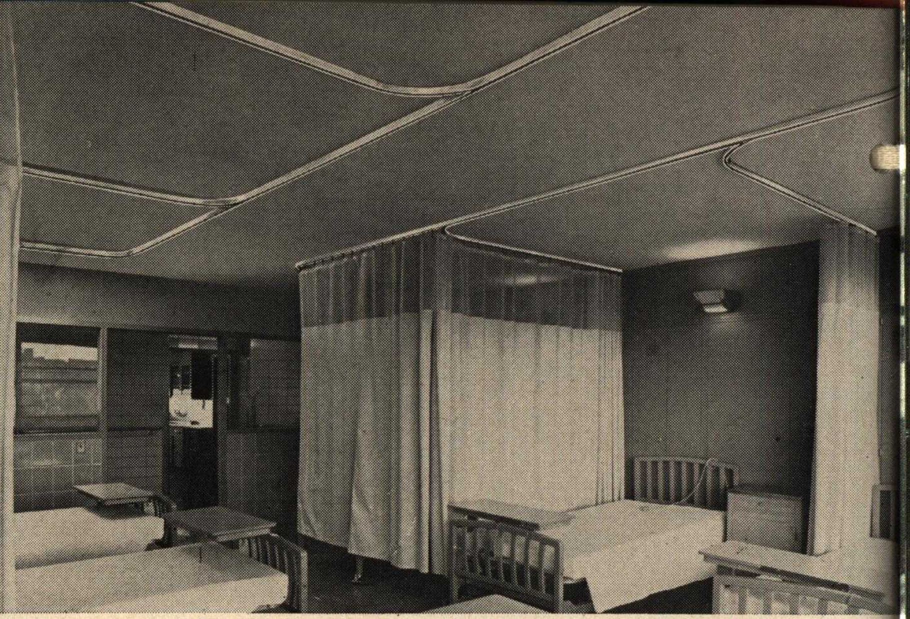
CAPITAL CUBICLE

ceiling track



Capital Ceiling Track combines the very best features of ceiling cubicle equipment with a design especially developed for ease of installation. It is particularly suitable for new building construction with low type ceilings. In design, appearance and high standard of performance it meets or exceeds the most rigid requirements.

1. May be employed with plaster, acoustic or any other type of ceiling material.
2. Track is extruded aluminum 1⅜" x ¾" with extruded sleeve type connectors.
3. Line type groove is plaster key for recessing; aligns to keyed connector.
4. Self lubricating, non-wearing nylon wheels travel silently.
5. Hooks cannot be removed or lost; ride on raised rails within the track.
6. Capital life-time hooks are of chrome plated brass with bead chains for complete flexibility.



SPECIFICATIONS

The work covered hereunder shall include the furnishing and erection of complete curtain track and curtains in rooms indicated. All dimensions shall be checked and shop drawings prepared and submitted by contractor.

TRACK

Curtain track shall be set on the finished ceiling or recessed in the ceiling as shown on the contract drawings. Fastening should be made not less than 3'-0" on centers. The track shall be extruded aluminum box-channel 1⅜" x ¾" slotted on the underside to receive two wheeled carriers or sliding internal curtain hooks.

Corner bends shall be formed on a 12" radius bent to exactly 90 degrees. End closers shall be used at both ends of the cubicle with a removable section at one end to permit removal of hooks. At the curtain stacking end of each cubicle shall be a tag designating the proper size CAPITAL curtain. Butt joints shall be secured by an extruded sleeve type connector of the same material and finish as the track.

The hooks shall be formed of chrome plated wire and bead chain riding on a carrier with non-wearing nylon wheels.

CURTAINS

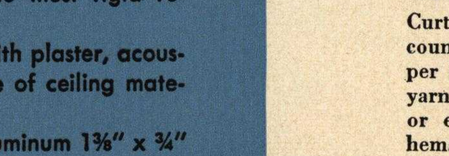
Curtains shall be made of closely woven jean cloth with a count of at least 160 (96 warp threads and 64 filling threads per inch Greige count). Curtain material shall be of a carded yarn, dyed fast colors and sanforized shrunk, and shall meet or exceed U.S. Government specifications. Top and bottom hems shall be approximately 1½" wide. All seams shall be turned in and securely sewed.

The jean cloth shall extend to within 15" from the floor, with nylon mesh of approximately 20" at the top. Rustproof grommets shall be spaced 6" o.c. and shall be securely machined into the top hem to avoid pulling out. Curtains shall have sufficient fullness so as to form a complete enclosure free from any gaps. Full size curtains shall be 2' wider than track on which they hang.

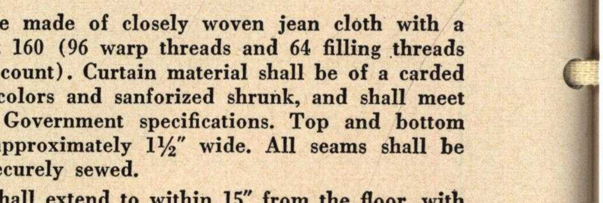
Smaller size curtains shall be not less than 10% wider thar track on which they hang.

The complete unit shall be as manufactured by the CAPITAL CUBICLE CO., INC., 213—25th St., Brooklyn, N. Y., or equal and shall be guaranteed for one year against defective materials and workmanship.

methods of installation

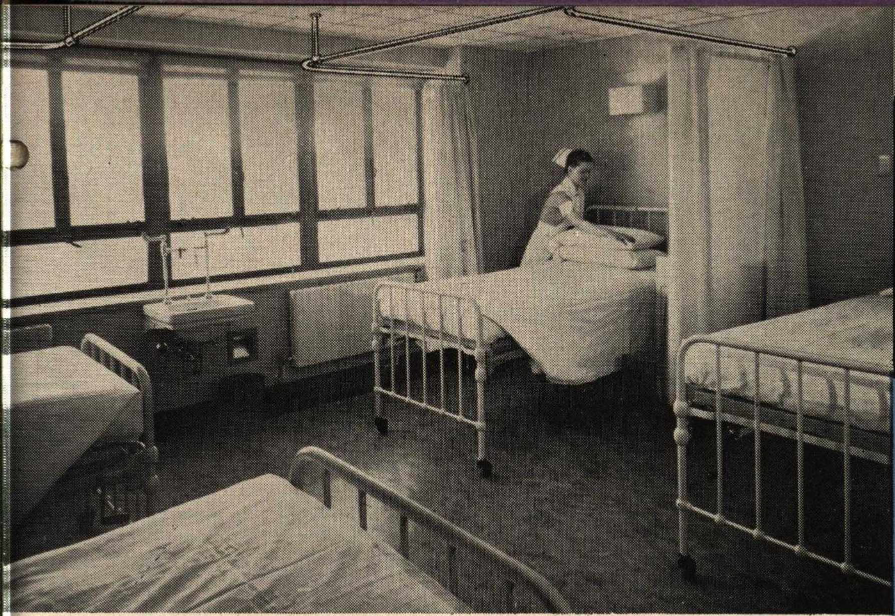


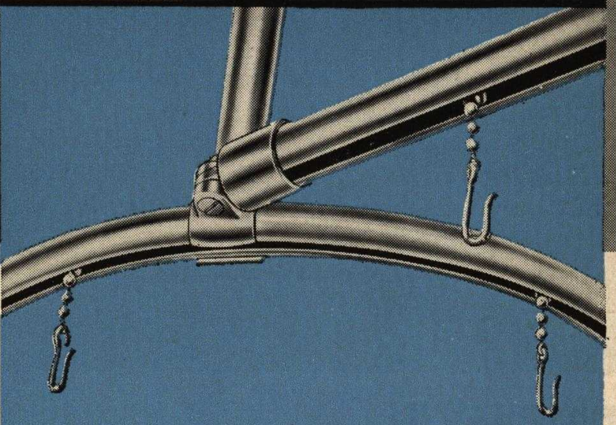
FLUSH MOUNTED



SURFACE MOUNTED

CAPITAL CUBICLE
suspended track





SPECIFICATIONS

The work covered hereunder shall include the furnishing and erection of complete curtain track and curtains in rooms indicated. All dimensions shall be checked and shop drawings prepared and submitted by contractor.

TRACK

Curtain track shall be set 7'-3" off finished floor and shall be formed of No. 14 gauge brass (*) 1" outside diameter and slotted on the underside to receive sliding curtain hooks. Hooks shall be designed so that they cannot be lost or removed. Corner bends shall be formed on an 8" radius bent to exactly 90 degrees. Tubular ceiling hangers shall be of the same material and same finish as the horizontal track. All fittings shall be of cast or forged brass.* Hooks shall be formed of chrome plated bead chain wire and equipped with a roller operating along curtain track insuring a noiseless and efficient operation.

CURTAINS

Curtains shall be made of closely woven jean cloth with a count of at least 160 (90 warp threads and 64 filling) threads per inch greige count. Curtain materials shall be a carded yarn. dyed fast colors and sanforized shrunk and shall meet or exceed U.S. Government specifications. Top and bottom hems shall be approximately 1½" wide. All seams shall be turned in and securely sewed. Rustproof grommets shall be spaced 6" o.c. and shall be securely machined into top hem to avoid pulling out. Curtains shall have sufficient fullness so as to form a complete enclosure free from any gaps and shall extend to within 15" of floor. Full size curtains shall be 2'-0" wider than track on which they hang. Smaller size curtains shall be not less than 10% wider than track on which they hang. All brass parts shall be chromium plated over nickel plate all according to U.S. Navy specifications.

The complete unit shall be as manufactured by the CAPITAL CUBICLE COMPANY, Inc. of 213 25th Street, Brooklyn, N.Y., or equal, and shall be guaranteed for one year against defective materials and workmanship.

*In lieu of brass, specifications may be written in aluminum .065 wall thickness anodized satin finish. Fittings to match track.

Designed for distinctive appearance and utmost efficiency Capital's round, suspended track has, throughout the years, become preferred equipment in hospitals from coast-to-coast. In addition to initial installations, this equipment is being constantly used for alterations to existing equipment. The brass, chrome plated Capital hook glides noiselessly in its slotted track, and cannot scratch or mar the highly finished surface. Suspended from tubular ceiling hangers, all fittings are solid, heavy castings and forgings.

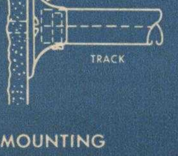
MATERIAL USED:

BRASS, CHROME PLATED

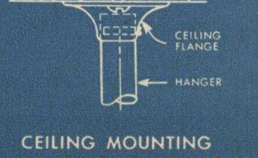
The very finest obtainable and the only cubicle with a life span equal to the life of your building. Made of No. 14 gauge brass, chrome plated over nickel plate to U.S. Navy specifications.

ALUMINUM, ANODIZED

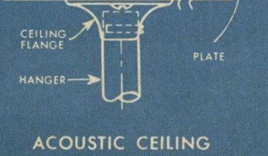
Long life at low cost! Highly resistant to corrosive elements and atmospheric conditions. It will not chip, peel or discolor. Combines Capital Cubicle features with economy price.



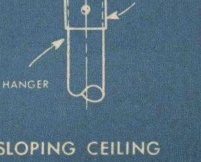
WALL MOUNTING



CEILING MOUNTING



ACOUSTIC CEILING



SLOPING CEILING

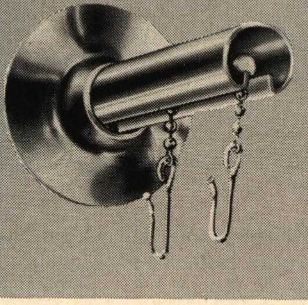
CAPITAL SHOWER TRACK

There are sound reasons why Hilton-Statler, Intercontinental, Knott and other major hotel chains specify Capital Track for their shower enclosures. This aristocrat of all shower tracks, though higher in initial cost, more than repays the initial difference in short time. Here are a few of these reasons:

- **Constructed of chrome plated No. 14 gauge brass over heavy nickel plate.**
- **Hooks slide within the track . . . no costly replacements or replating.**
- **Hooks cannot be removed . . . no more torn curtains from missing hooks.**
- **Its smooth, unbroken surface makes a perfect drying rack for lingerie and hosiery, delighting the woman guest.**
- **No maintenance expense; *first cost is the only cost!***

STATLER CENTER
LOS ANGELES, CAL.

Capital Shower Track has been chosen by Statler Hotels. Upon request we will furnish you with a list of installations in your locality



The Capital Track assembly at left shows the open bottom channel formed into two parallel tracks on which the ball bearing hooks glide quickly and noiselessly. Note that the hooks cannot be removed or lost; cannot jam or catch . . . and this simple design prevents them from scratching the chrome plated track.

REPRESENTATIVES

ALABAMA, Birmingham
Roberts Equip. Co.
1820 6th Ave. S.—ALpine 1-8613

ARIZONA, Phoenix
Haskell-Thomas Inc.
3808 N. Central Ave.
CRestwood 7-5488

ARKANSAS, Little Rock
Berlin-Wilson Co.
Gazette Bldg.—FR 2-1210

CALIFORNIA, Los Angeles
Frank Peck Specialty Co.
347 S. Clarence St.—ANgelus 2-1185

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Fred E. Turner Co.
788 Mission St.
SUtter 1-5056

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Villepre Sales. Co.
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CANADA, Montreal P.Q.
Welcross, Ltd.
2153 Mackay St.—VI 2-4639

COLORADO, Lakewood
C. A. Hussey & Co.
10305 W. 17th Place

CONNECTICUT, W. Hartford
Laurence R. Smith, Inc.
942 New Britain Ave.
CHapel 6-5659

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J. W. Kiedaisch
225 S. Sartain St.—WAlnut 3-3163

D.C., Washington
T. J. Vandoren
3911 Morrison N.W.
WOodley 6-5566

FLORIDA, Jacksonville
Geo. P. Coyle & Sons
2361 Dennis (POB 2267)
ELgin 6-4821

FLORIDA, Miami
John N. Kohnen & Co.
45 N.W. 54th St.—PLaza 4-2576

GEORGIA, Atlanta
J. R. Ulery Co.
565 Plum St., N.W.—JAckson 1-2299

IDAHO, (UTAH, Salt Lake City)
Joel P. Paulson & Co.
P.O.B. 132
HUnter 5-9251

ILLINOIS, Chicago
Tri States Mfgs. Rep. Inc.
3044 N. Laramie Ave.
AVenue 2-2828

INDIANA. Evansville
Greenman & Smith
1411 Division St.—HA 5-7121

INDIANA, Indianapolis
M. S. Churchman Co.
1107 Burdsal Parkway
MElrose 7-5523

IOWA, Des Moines
Swanson Sales, Inc.
2737 Douglas Ave.
CRestwood 9-9793

KANSAS, (MO., Kansas City)
Howard & Arnold Co.
226 W. 39th St.—PLaza 3-3980

KANSAS, Wichita
Claude Balzer, Inc.
P.O.B. 2141—MUrray 3-8241

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Schneider Building Products
2345 Frankfort Ave.

LOUISIANA, New Orleans
A. F. Livaudais Co.
816 Howard Ave.
MAgnolia 1910

LOUISIANA, Shreveport
Harold Lipper Co.
301 Spring St.—4-6686

MAINE, (MASS., W. Newton)
J. A. O'Brien & Sons
POB 205—DEcatur 2-4158

MARYLAND, (PA., Philadephia)
J. W. Kiedaisch
225 S. Sartain St.—WAlnut 3-3163

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J. A. O'Brien & Sons
POB 205—DEcatur 2-4158

MICHIGAN, Detroit
Building Accessories
155 W. Congress St.

MINNESOTA, Minneapolis
The Hutchinson Co.
9824 Elliot Ave. S.

MISSISSIPPI, Jackson
John B. Howard Co.
600 W. Monument St.
FLeetwd. 4-2346

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P.O.B. 3818 Kirkwood Sta.
YO 6-3556

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Pavich Kohler Co.
1140 N. 21st St.—2-5777

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(MASS., W. Newton)
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NEW MEXICO, Albuquerque
Mayhew & Rademacher, Inc.
POB 8301—CH 7-4131

NEW YORK, Buffalo
James M. Hawkins Corp.
448 Franklin St.—ELmwood 2315

NEW YORK, Rochester
James M. Hawkins Corp.
116 Humboldt St.—BUtler 8-1318

NEW YORK, Syracuse
W.G.S. Corp.
1002 W. High Terrace
HUnter 8-7770

NORTH CAROLINA, Charlotte
A. J. Yates, Inc.
P.O.B. 3062—FR 7-7718

NORTH DAKOTA, (MINN., Minn.)
The Hutchinson Co.
9824 Elliot Ave. S.

OHIO, Cincinnati
Tom Ragouzis Co.
N 207 Cincinnati Union Term.
MAin 1-6150

OHIO, Cleveland
Aluminum Bldg. Materials Co.
6007 Gilbert Ave.—TUxedo 6-1234

OHIO, Columbus
Columbus Sash Door
655 N. Cassady Ave.—CL 3-5505

OHIO, Dayton
Modern Fold Door Co. of Dayton
134 Salem Ave.

OHIO, Toledo
R. V. Krausquin
3304 W. Lincolnshire
JOrdan 9902

OKLAHOMA, Oklahoma City
L. E. Acker Co.
1809 W. Main St.—CEntral 2-3771

OREGON, Portland
Gamble-Hawkins Co.
1617 N.W. 14th—CApital 7-2546

PENNSYLVANIA, Harrisburg
Robert-Mason Co.
402 Beaver Rd.—KIngswd. 5-5872

PENNSYLVANIA, Philadelphia
J. W. Kiedaisch
225 S. Sartain St.—WAlnut 3-3163

PENNSYLVANIA, Pittsburgh
Commerical Door & Sash Erectors
36 Hart Street—PEnhurst 1-1371

RHODE ISLAND, (MASS. W. Newton)
J. A. O'Brien & Sons
P.O.B. 205—DEcatur 2-4158

SOUTH CAROLINA, Greenville
J. Edgeworth Beattie
P.O.B. 82—CEdar 3-1721

SOUTH DAKOTA, (Minn, Minn.)
The Hutchinson Co.
9824 Elliot Ave. S.

TENNESSEE, Knoxville
Bldg. & Utilities Spec. Co.
P.O.B. 10196—5-5197

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P.O.B. 5161—GL 8-3332

TENNESSEE, Nashville
Boyd Jacoway
P.O.B. 6151—CY 7-1348

TEXAS, Dallas
Winzer-Chatham Co.
5526 Dyer St.—EMerson 8-2122

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2212 E. Yandell St.

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1609 W. Allen St.

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J. A. O'Brien & Sons
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VIRGINIA, Richmond
J. S. Archer Co.
328 W. Cary St.—MIlton 4-7846

VIRGINIA, Roanoke
Roanoke Engrg. Sales Co.
P.O.B. 1628—DIamond 5-8119

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Door Engineering Co.
700 Front St.—MAdison 2-5355

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F. T. Crowe & Co.
329 2nd Ave. W.—ATwater 4-8484

WEST VIRGINIA, (PA. Pittsburgh)
McKnight Co.
314 26th St.

WISCONSIN, (ILLINOIS, Chicago)
Tri-States Mfg. Rep. Inc.
3044 Laramie Ave. N.
AVenue 2-2828

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The Hutchinson Co.
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PUERTO RICO, San Juan
Julio T. Rodriquez
P.O. Box 1325

MEXICO 5, D. F.
Sistemas Industriales e
Inversiones, S.A.
Melchor Ocampo No. 463-503

CAPITAL CUBICLE CO., INC.

213-25th Street, Brooklyn 32, N.Y. • Tel: SOuth 8-1022

Affiliates: **BAR-RAY PRODUCTS, INC.** — *X-Ray Accessories and Radiation Protection*
TORJESEN, INC. — *Folding Partitions and Mill Work*

Jiffy Join

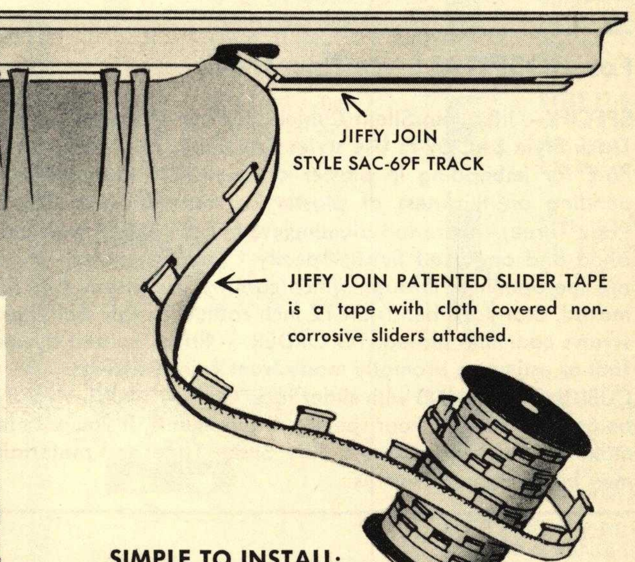
PATENTED **TRACK AND SLIDER TAPE**

USE FOR DRAPERIES, SLIDE-A-SHADES, LIGHT CONTROL AND HOSPITAL CUBICLE CURTAINS

IT'S SILENT — IT'S MODERN

CURTAINS ARE HUNG OR REMOVED IN A JIFFY!

NO RODS ***NO HOOKS*** ***NO PINS***

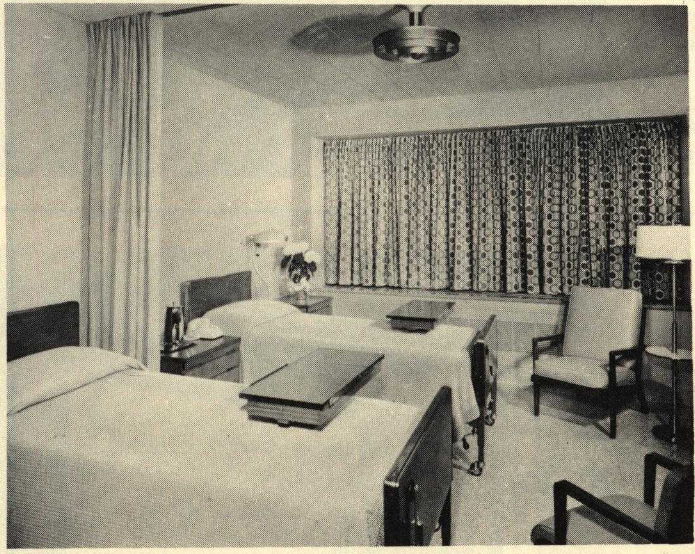


JIFFY JOIN
STYLE SAC-69F TRACK

JIFFY JOIN PATENTED SLIDER TAPE
is a tape with cloth covered non-corrosive sliders attached.

SIMPLE TO INSTALL:

1—Put Up the Track
2—Stitch Slider Tape to Curtain
3—Insert Sliders into Track



Patients' Room. St. Vincent's Hospital, Green Bay, Wisconsin.
Architects: Foeller, Schober, Berners, Safford & Jahn • Green Bay.

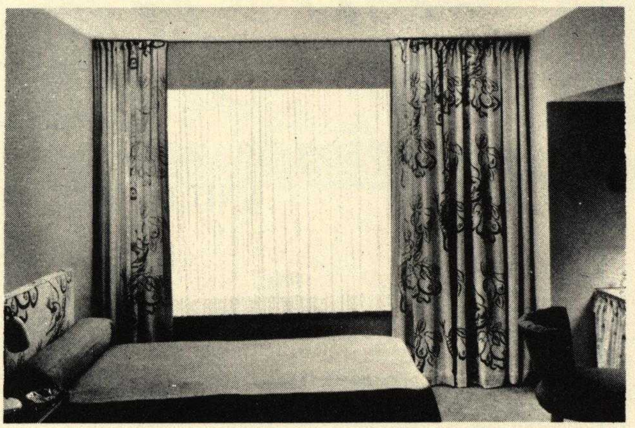
The Beautiful Lobby of Eden Hospital, Castro Valley, California.
Architects: Stone, Mulloy, Marraccini & Patterson — San Francisco

Jiffy Join, Inc.

Executive Offices and Showroom:

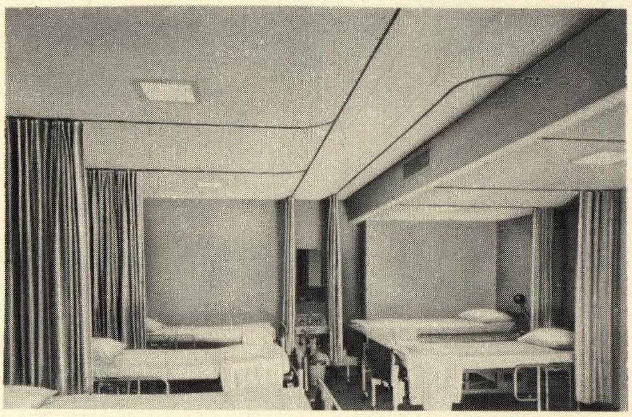
461 Fourth Avenue, New York 16, N. Y.
ORegon 9-7950
•
223 South Robertson Blvd., Beverly Hills, Calif.
OLympia 7-0220
•
Canadian Representative From Coast to Coast:
Simpson's Contract Division
45 Richmond Street West, Toronto 1, Ontario
UNiversity 1-9111

Jiffy Join silent curtain track



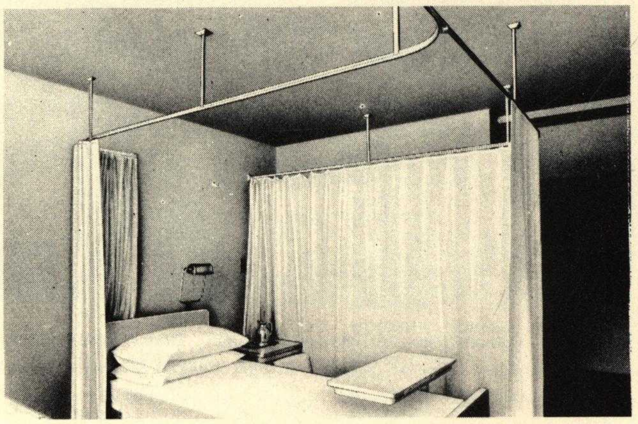
For HOMES AND GENERAL APPLICATION

SPECIFY— any of our numerous wood or aluminum styles of track or molding (see opposite page) for hotels, apartments, commercial buildings, homes, trailers, schools, churches. Use as top part of window trim or apply to ceiling, wall or window — wherever curtains or draperies are to be hung. Design track to pass well beyond window jamb for maximum exposure. Choose a triple track or a combination of tracks for light control, television, sleeping or privacy curtains or for combination use of draperies, curtains and valance or swag. Use with or without pull cord.



For HOSPITALS—ceiling track

SPECIFY—Jiffy Join Silent Cubicle Surface Mounted Ceiling Track Style SAC-69-F. Use styles SAC-74-E, SAC-75-E, SAC-76-E for imbedding in plaster or acoustical material, depending on thickness of plaster or material (see details Page Three)—extruded aluminum alloy 6063 S-T5 with polished and anodized finish. Specify "Side Apertures" which are the openings through which curtains are inserted or removed. Standard bends on 12 inch radius. Toggle bolts and screws cadmium plated. TO ORDER — Prices quoted by the foot or estimates promptly made from your drawings. CUBICLE CURTAINS with slider tape Code #34-JST-5H may be ordered to meet your specific requirements. If you wish to make your cubicle curtains, Jiffy Slider Tape and materials may be purchased from us.



For HOSPITALS—suspended type

SPECIFY—Jiffy Join Silent Cubicle track, Style SAC-70-E, size ⅜" x ⅞", with side apertures for inserting curtains. Curves 8" radius. Track is an extruded aluminum alloy #6063 S-T5 with polished and anodized finish. Ceiling suspension hangers, Style SH-70-7, made of ⅝" x ⅞" aluminum tubing. Ceiling, connecting and wall brackets are cast aluminum alloy 355-T51. Toggle bolts or screws are cadmium-plated. TO ORDER—Quotations promptly given from your drawings. Curtains with Slider Tape Code #34JST-5H can be ordered to meet your specific material requirements.

For TRANSPORTATION

Curtain Attached Top and Bottom

SPECIFY—Aluminum track style SAC-60-E or SAC-63-E, extruded aluminum alloy 6063-S T5, for Trains, Aircraft, Ships, Buses and Trailers. See detail on page 3.

SPECIFY—Jiffy Slider Tape for use at top of window and Jiffy Anchor Tape for use at bottom. Sliders to be any desired spacing.

SPECIFY—Aluminum track style SAC-69-F for roomette, berth and space divider curtains with Jiffy Join Slider Tape Code 34-JST-5H, double or triple stitched to curtain.

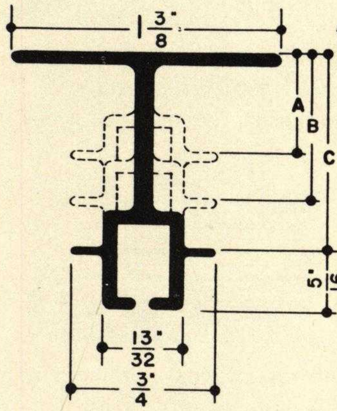
Window treatment of Fairchild F27
Fairchild Engine and Airplane Corp.

and slider curtain tape

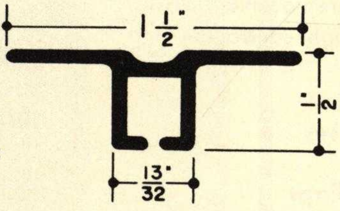
EXTRUDED JIFFY JOIN PATENTED ALUMINUM TRACK

- **scale: full size**

imbedded


1 3/8"
A
B
C
5/16"
13/32"
3/4"

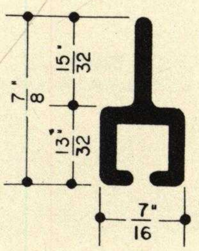
surface mounted



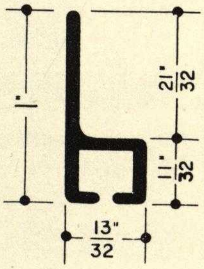
SAC-69-F

A-SAC•76-E=½″
B-SAC•75-E=¾″
C-SAC•74-E=1³⁄₃₂″

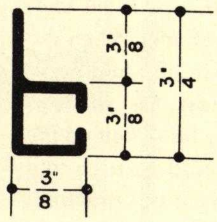
suspended


7/8"
15/32"
13/32"
7/16"

window

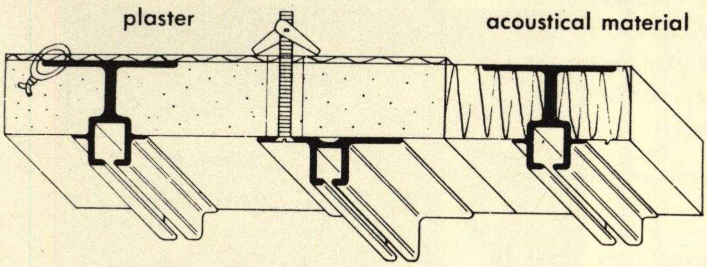

1"
21/32"
11/32"
13/32"

window

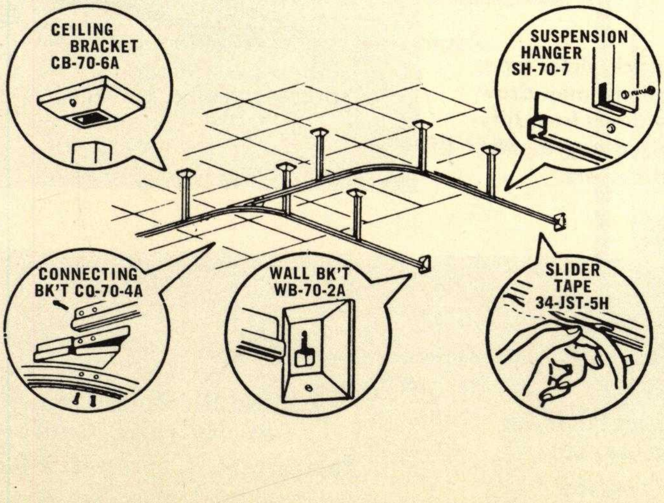


SAC-70-E SAC-60-E SAC-63-E

- **typical installations**

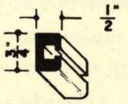

plaster
acoustical material

- **suspended track SAC-70-E**

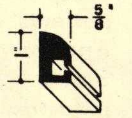

CEILING BRACKET CB-70-6A
SUSPENSION HANGER SH-70-7
CONNECTING BK'T CO-70-4A
WALL BK'T WB-70-2A
SLIDER TAPE 34-JST-5H

WOOD TRACK kiln dried, semi-hard wood

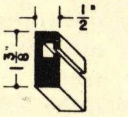
- **scale: quarter size**



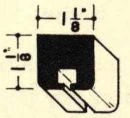
STYLE 3-S—Use inside window trim or sash or on furniture and shelves.



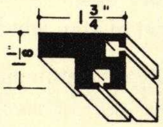
STYLE 11-SEB — Use as molding for simple curtain treatment.



STYLE 11-S—Use on top of window trim or door frame; over top shelf of bookcase.

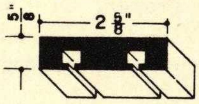


STYLE 5-S — Use for curtaining booths.

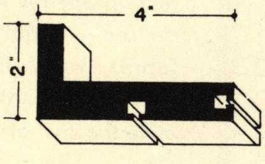


STYLE 24-D —Use on top of any type of window trim.

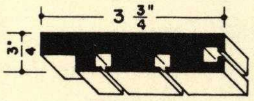
STYLE 22-D—Use on ceiling over grouped windows; as dustboard of cornice.



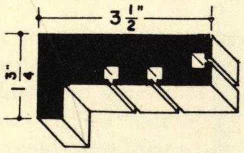
STYLE 31-D—Use on windows with or without trim.

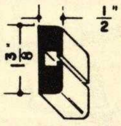


STYLE 25-T — Use for triple arrangements.

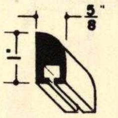


STYLE 30-TDF — Down flange triple track.

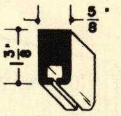




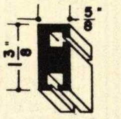
STYLE 10-S—Use on ceilings, window trim, in open doorways or for hanging tapestries.



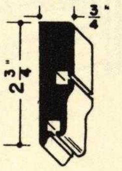
STYLE 15-SEB — Use as molding for top or bottom of window.



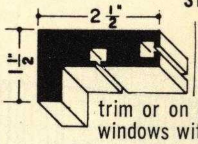
STYLE 15-S—Use either in horizontal or vertical position.



STYLE 11-D—Use on face of window trim, walls and ceiling.

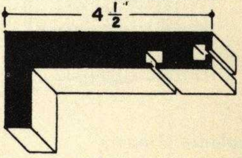


STYLE 21-DB — Use as trim over windows or on flat window trim.

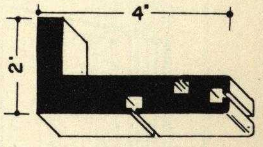


STYLE 28-D —Use over windows without trim or on or above windows with trim.

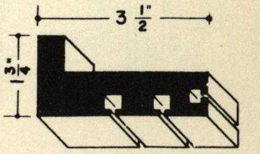
STYLE 32-D—Use on windows with or without trim.



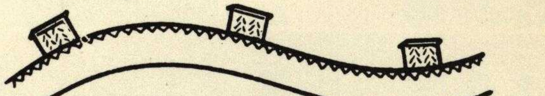
STYLE 34-T — Use for either swag or valance arrangement.



STYLE 30-TUF—Up flange triple track.



- **slider tape**

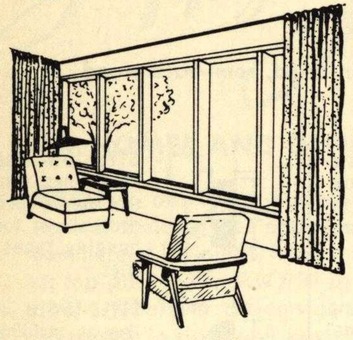


SPECIFY: JIFFY JOIN SLIDER TAPE

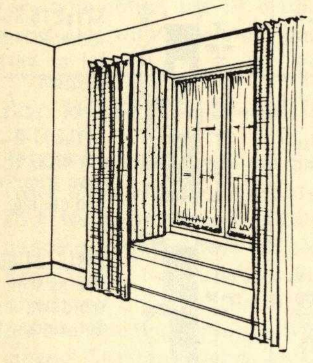
Cloth covered non-corrosive and rustproof nickel silver sliders; launders flat. Available in various spacings.

Jiffy Join *SLIDE-A-SHADE

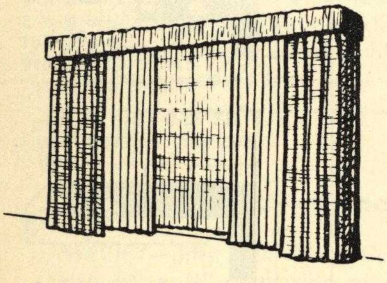
■ suggested layouts



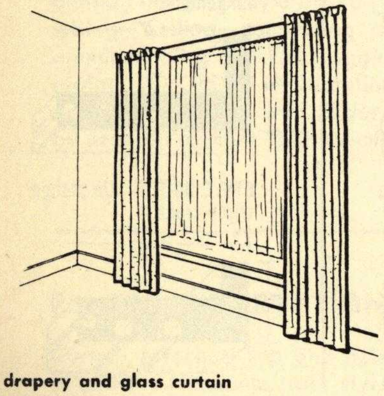
living room



bay window



valance, drapery
light control and glass curtain



drapery and glass curtain

Specify HORIZONTAL draw shades on your next project where light control and privacy are factors. They *draw across* the window.

Use Jiffy Join Slide-a-Shades instead of venetian blinds or roller shades and reduce maintenance and replacement costs. *Use at all windows for light control in:*

- **school rooms**
- **patients' rooms**
- **apartment houses**
- **hotels**
- **industrial buildings**
- **government projects**
- **aircraft**
- **trains**
- **ships**
- **homes**

Jiffy Join Slide-a-Shade is easily incorporated in any window design. Use one or more of our wood or aluminum tracks as part of your window construction.

Jiffy Join patented slider tape is an integral part of the Slide-a-Shade. When the Slide-a-Shade is inserted in Jiffy Join track, it slides noiselessly across the window. When drawn back, it may hang behind the drapery. Or it may be used as a curtain where additional drapery is not required. It is easily removable for laundering.

We suggest choosing a neutral color to blend with the exterior of the building. Slide-a-Shades may be obtained in any desired material — hard or soft surfaced fabrics, wood fibers, cotton, nylon and dacron. The material selected will determine the cost of the shade.

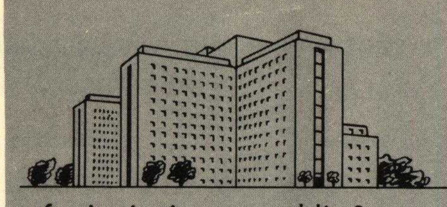
Samples available to architects and builders upon request.

This product is fully covered by patents both in the United States and in foreign countries.

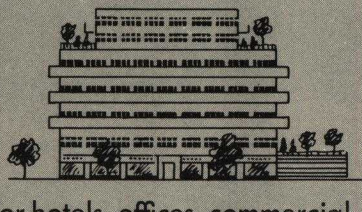
• • •

Quotations on Jiffy Join track, slider tape, curtains, cubicle installations and draw shades are available only direct from Jiffy Join offices, our authorized representatives and from franchised dealers.

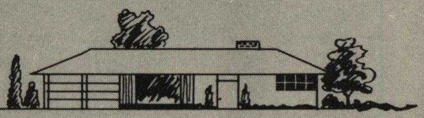
*TRADE MARK



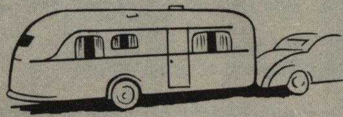
for institutions — public & private hospitals, schools, dormitories, museums . . .



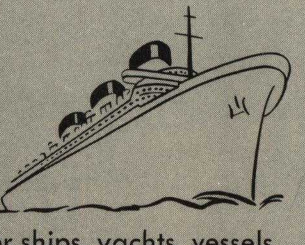
for hotels, offices, commercial and industrial buildings, showrooms, displays . . .



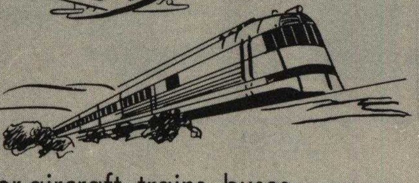
for apartments, homes



for trailers



for ships, yachts, vessels . . .



for aircraft, trains, buses

Jiffy Join, Inc.

representatives in principal cities

461 Fourth Avenue
New York, N. Y.
Telephone: ORegon 9-7950

CANADA
Simpson's Contract Division
45 Richmond Street West
Toronto 1, Ontario

223 South Robertson Blvd.
Beverly Hills, California
Telephone: OLympia 7-0220

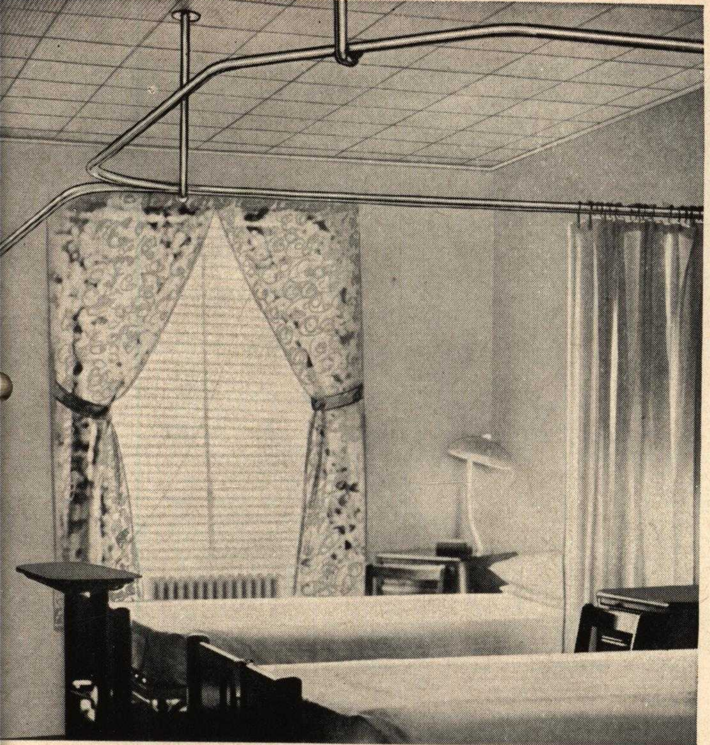
Printed in U.S.A.

A.I.A. FILE No. 35K

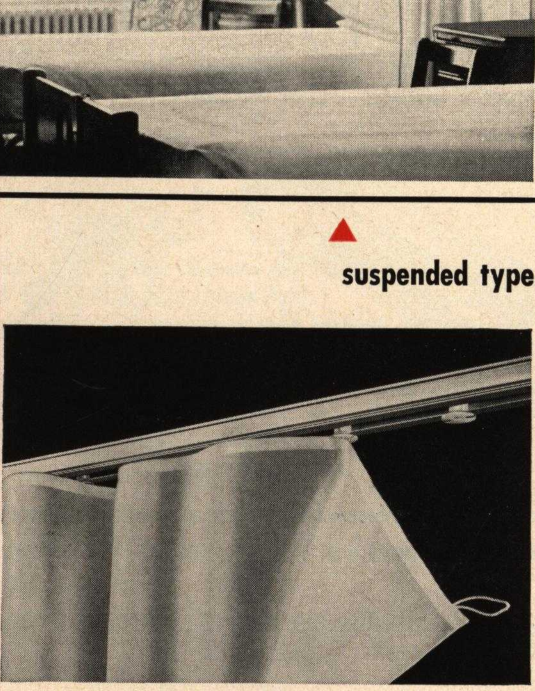
22c
Ne

ARNCO

curtain cubicles for hospitals

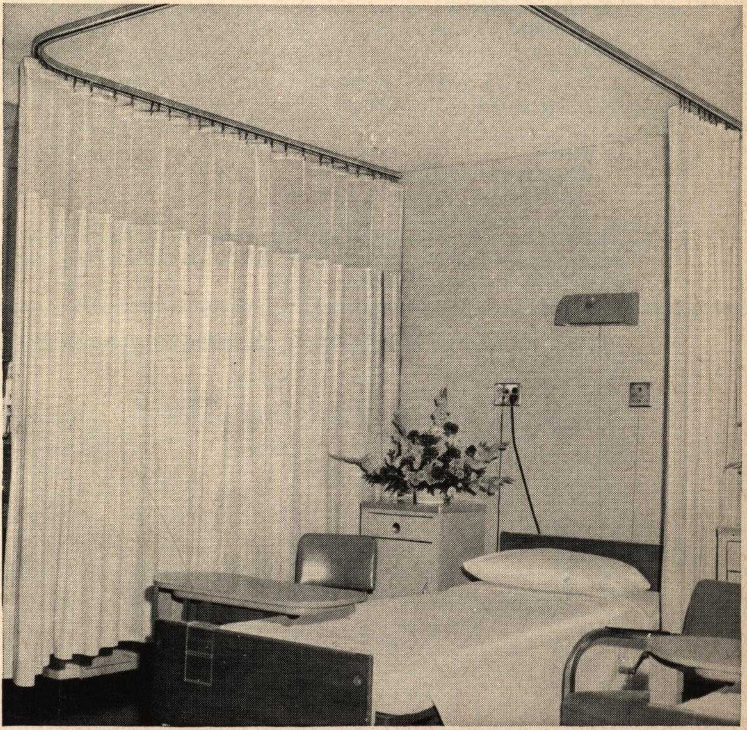


▲ suspended type



Featuring exclusive nylon detachable glider used with tape.

ceiling type ▶



A.I.A. FILE No. 35K

A. R. NELSON CO., INC.
hospital division

representatives in principal cities of the United States
installations in hospitals nation-wide and throughout the world

ceiling type (with ventilated curtain)

ARNCO ceiling track

ARNCO ceiling type cubicles have been designed to meet the increasing demand on the part of architects and hospital authorities, for a system of bed screening which is unobtrusive, does not conflict with lighting or wall fixtures, and which eliminates any possibility of interference with doors and windows.

The exclusive ARNCO ceiling track may be installed in conjunction with either plaster or acoustic ceilings. Application may be either surface or flush construction (see details) and specially designed curtains provide adequate ventilation along with privacy. Conventional risers, with inherent problems of rigidity and interference, are eliminated.

Ease of operation, on straight or curved sections, and maximum sound deadening are features of the new ARNCO cubicle track.

The ARNCO ceiling track and carrier units are *not* an adaption of domestic drapery fixtures, but are specifically designed for durable performance under the rugged and continuous service required of hospital cubicle equipment.

carrier "non-contact" silent rollers

The carrier features nyon axle and "non-contact" rollers, bead chain for flexibility, and rust-proof closed curtain hook. Axle is so designed that rollers cannot touch the rollers of adjacent carriers, thereby eliminating drag or locking when curtain is drawn from the stacked position. Rollers are chamfered to present a minimum of contact surface, thus facilitating movement and reducing sound. The resultant smooth operation and durability of this unit makes it an extremely important part of modern hospital quipment.

Optional equipment is our new type glider, with bead chain and closed hook or tape, which presents smooth quiet operation under normal ceiling height conditions.

two types

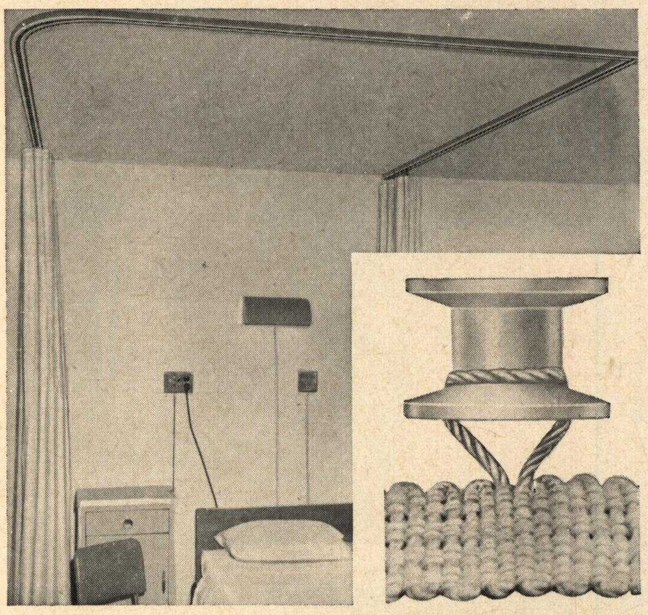
1. Extruded aluminum with anodized finish, for surface or recessed application. Permanent finish will not peel or discolor.
2. Economical rolled rustproof electro-galvanized steel may be surface applied or recessed.

shower rods

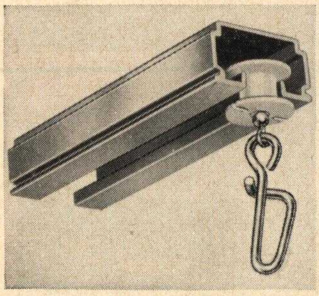
ARNCO track is admirably adapted to shower rod use, whether ceiling applied or set at conventional level. Completely rust proof with theft-proof hooks.

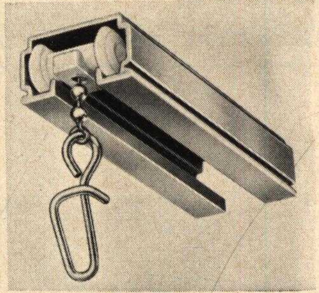
flameproof curtains

A durable process which will not only withstand multiple launderings, regardless of the type of soap or detergent used, for the life of the curtain, but will actually extend its wearability and opaqueness. It is certified to be non-toxic, will not cause skin irritations most necessary in hospitals and complies with Federal specifications.



glider using special tape



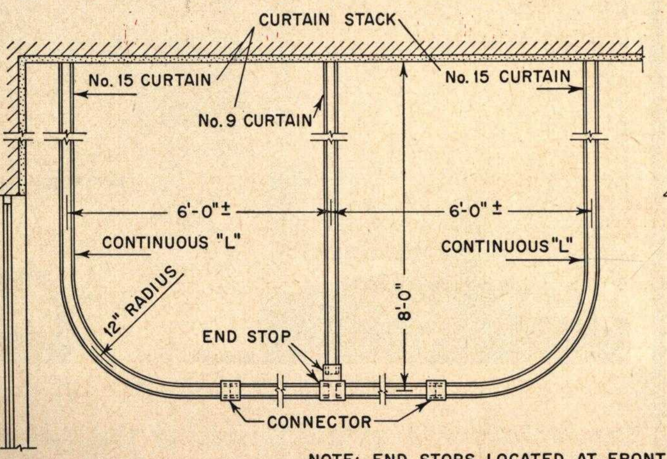


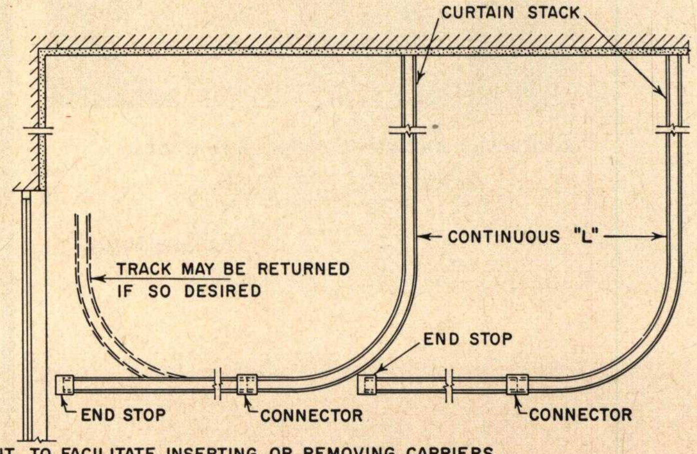
featuring closed hook

non-contact roller type carrier

glider with bead chain and hook

Typical details of ceiling track showing suggested arrangements for proper screening.



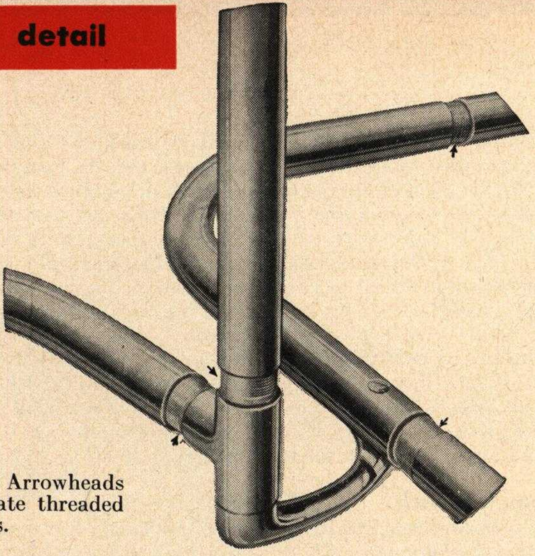


NOTE: END STOPS LOCATED AT FRONT TO FACILITATE INSERTING OR REMOVING CARRIERS

SUGGESTED SEMI-PRIVATE ROOM ARRANGEMENT

ALTERNATE ARRANGEMENTS

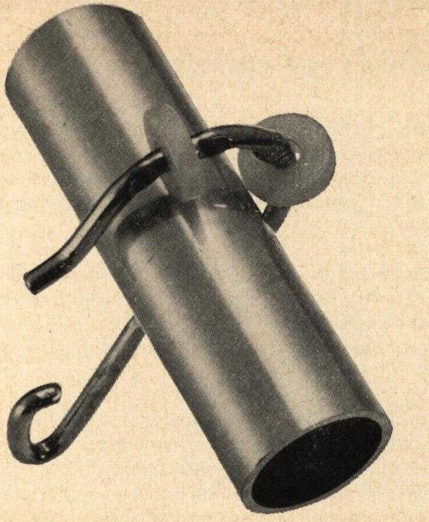
detail



note: Arrowheads indicate threaded joints.

ARNCO corner bend construction

To reinforce the most vital point of cubicle construction, ARNCO has built unusual strength and rigidity into the corner bend assembly. At the point of attachment which supports the entire structure, the improved arm actually goes into a reinforced connector with a heavy ½-in. projection. All corner bends are of the same gauge and outside diameter as the tubing for tracks, ceiling supports and braces, and are arranged so that there will be no gaps after curtains are drawn.



ARNCO roller curtain hooks and curtains

Arnco curtain hooks, made of heavy gauge finished wire, snap over the tubing which prevents their jumping off the track when being operated. The hooks are designed to pass suspension brackets and are equipped with two rollers of long lasting nylon.

Curtains are of selected, closely woven Jean cloth with machined rustproof metal grommets or laundryproof sewed eyelets approximately every 6 in. along top hem, starting 2 in. from each end to provide overlap at meeting point. They are available in various pastel shades.

ARNCO modern curtain cubicles insure complete privacy . . . increase bed capacity

With ARNCO modern cubicle equipment, hospital ward space becomes a series of "private" rooms and bed capacity of semi-private rooms is increased without any expensive additions or alterations.

ALUMILITED aluminum fixtures — tubing, corner bends and fittings . . . strong, light, economical

The entire metal assembly of the ARNCO curtain cubicle is made of aluminum, with Alumilite finish . . . a hard, smooth finish which will not peel, and which is highly resistant to abrasive wear and to corrosion resulting from atmospheric conditions, chemical fumes and steam.

all connections threaded . . . no special tools needed

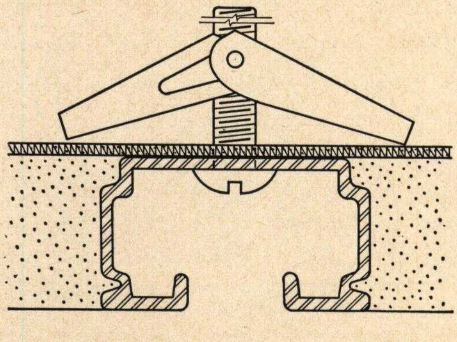
All connections of the ARNCO curtain cubicle are threaded — a strength giving feature — and concealed screw bushings insure the making of flush hair line joints. Being threaded, pre-assembled and fitted at the factory, a minimum amount of tools is required for installation.

prefabricated construction reduces installation time to the minimum . . . no "on-the-job" fitting required

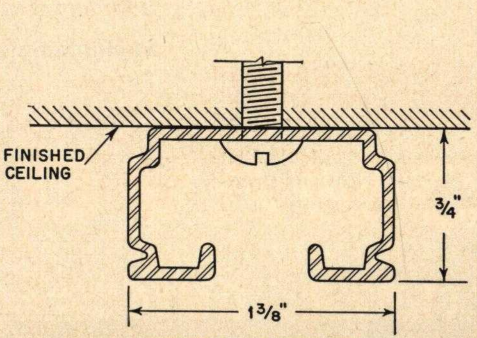
All specifications for ARNCO curtain cubicle installations are determined at the time of order acceptance, and all rod measuring, cutting, threading, boring, etc., as well as all curtain tailoring, is completed in the ARNCO plant before shipment of cubicle parts. The provisions necessary for anchoring the cubicles to walls and ceilings of the wards are also determined in advance.

With "on-the-job" cutting and fitting eliminated, the time required for an ARNCO installation is greatly reduced. A marked decrease in labor costs, as well as a minimum of interruption in hospital routine are effected. This time element is of utmost importance.

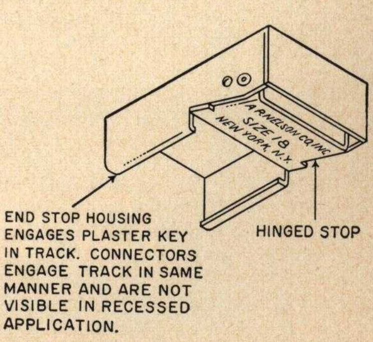
Extruded aluminum or rustproof steel track for recessed or surface application.



RECESSED APPLICATION



SURFACE APPLICATION


A.R.NELSON CO. INC.
SIZE 18
NEW YORK, N.Y.
END STOP HOUSING ENGAGES PLASTER KEY IN TRACK. CONNECTORS ENGAGE TRACK IN SAME MANNER AND ARE NOT VISIBLE IN RECESSED APPLICATION.
HINGED STOP

END STOP DETAIL

ceiling type curtain cubicles

general Ceiling type curtain cubicles shall consist of extruded aluminum track, (or rolled coated steel track) roller carriers and curtains, installed on (or recessed in) finished ceiling. Corner bends shall have 12″ radius and where ever practical shall be a continuous L shape.

aluminum track To be of specially designed extruded track 1⅜″ x ¾″ with reinforcing formation at all four corners and provide raceways for "non-contact" silent two-roller carriers or gliders permitting smooth, uninterrupted movement of carriers on both straight and curved sections.

Aluminum connectors and hinged end stops shall be provided to permit insertion or removal of carriers. End stops are securely fastened to stop housing to prevent being forced out by continuous cumulative striking weight of carriers, and shall be numbered same as curtain label. Track and fittings to have anodized finish.

steel track Same general characteristics as aluminum track. To be rolled, electro-galvanized steel, .028 thickness.

carriers To consist of specially designed nylon axle with "non-contact" nylon chamfered rollers; or glider with bead chain and closed hook. Specially designed tape sewed on top of curtain may be supplied with detachable Glider instead of bead chain and closed hook.

curtains To extend from underside of track to 15″ from floor and to consist of Jean cloth, color as selected. An integral upper section of nylon mesh, neutral shade, to provide ventilation and light can be incorporated if desired. Nylon panel to be approximately 1 ft. 8 in., with balance of curtain Jean cloth to within 15 in. of floor. Curtains to be 10% wider than track and to be constructed as described in Arnco specifications for suspended type curtain cubicles.

flameproof curtains Shall be Jean cloth treated with Lynrus FR-1 durable flameproofing process and shall comply with Federal specifications, including non-toxicity. Treated curtains shall be abrasive resistant and withstand multiple launderings with any type soap or detergent for the life of the curtain.

alumilite finish The entire metal assembly shall be treated by an electro-chemical process so as to obtain a dense, adherent coating of aluminum oxide, thus providing a hard, clean, smooth finish which will not peel, and which is highly resistant to abrasive wear and to corrosion resulting from atmospheric conditions, chemical fumes and steam.

suspended type curtain cubicles

general and assembly Curtain cubicles shall be provided in a manner to completely screen each bed separately. The horizontal tubing shall be placed 7 ft. 3 in. to center of tubing above the finished floor. All connections between tubing members, and tubing, and fittings, shall be made by means of concealed screw connections to provide hairline joints, except at wall and ceiling flanges.

tubing All tubing used for tracks, ceiling supports and braces shall be seamless new drawn Aluminum-Alloy, 1 in. outside diameter x .065 type 6063 T 832, finished in a high polish.

corner bends All corner bends shall be the same gauge and outside diameter as tubing and shall be made to a 6-in. inside radius to exactly 90°.

wall and ceiling flanges Shall be drop forged, at least 3 in. in diameter and fastened to walls and ceilings by means of toggle bolts or rawl plugs concealed through the center. Ceiling flanges shall be not less than 1″ longer than wall flanges to provide added rigidity for ceiling risers. Wall flange at rear of each cubicle shall be numbered to correspond with label on curtain. Fastening of tubing to wall and ceiling flanges shall be by means of special Phillips head P. K. screws.

estimating service

Kindly send us plans and specifications or a rough floor plan sketch giving the room and ceiling dimensions, showing location of windows, doors, ceiling lights, wall variations and placement of beds.

This information will enable us to make up detail drawings and submit accurate quotation.

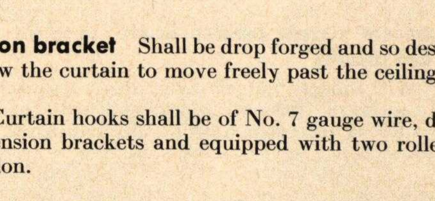
suspension bracket Shall be drop forged and so designed that it will allow the curtain to move freely past the ceiling supports.

hooks Curtain hooks shall be of No. 7 gauge wire, designed to pass suspension brackets and equipped with two rollers of long lasting nylon.

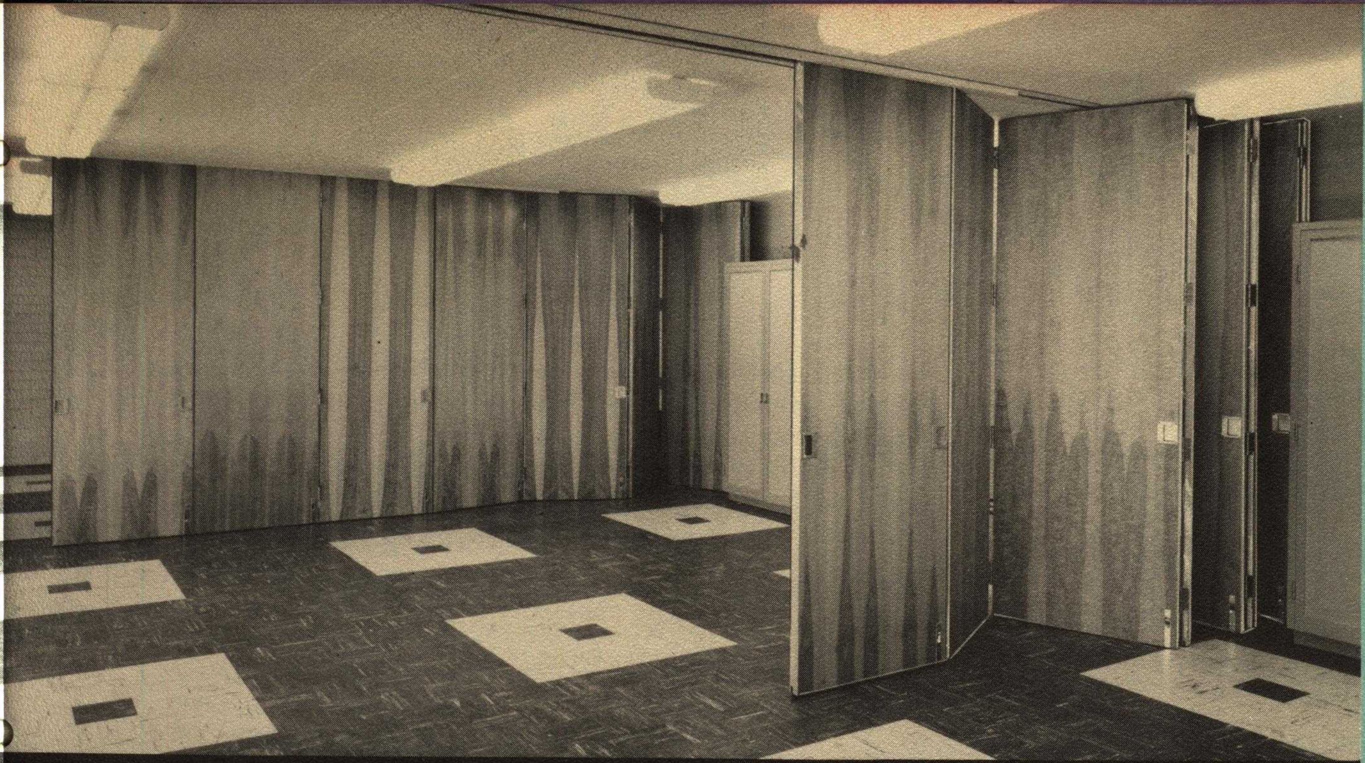
curtains All curtain material shall be a selected closely woven Jean cloth with a count of not less than 160 threads (96 warp threads and 64 filling threads) per inch of quality yarn. The color or colors of curtains shall be standard as selected. All curtains shall be Sanforized shrunk and only vat dyes shall be used to insure fast colors. Curtains shall have top hem 1½ in. wide of triple thickness of material grommeted approximately every 6 in. (see note), starting 2 in. from each end to provide overlap at meeting point. Bottom hem 1¼ in. wide. All seams to be sewed 2 needle, interlocked so they cannot ravel. All curtains shall be at least 10% wider than length of tracks upon which they are used and shall extend down to 15 in. from finished floor. On top hem of each curtain shall be sewed in label to denote the size. (*NOTE—specify laundryproof sewed eyelets or rustproof metal grommets.*)

flameproof curtains Same as for ceiling type specifications.

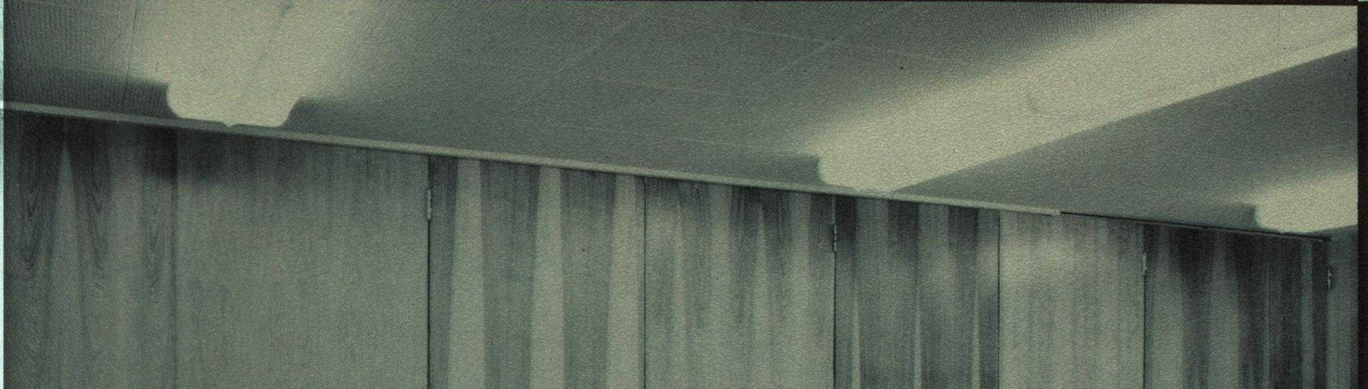
alumilite finish Same as for ceiling type specifications.



A. R. Nelson Co., Inc.
hospital division • 38-35 Crescent St., Long Island City, N.Y.



control SPACE and SOUND!

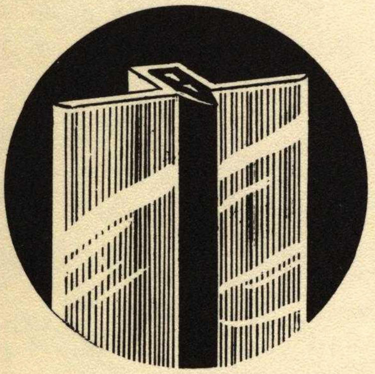


ADVANCED FOLDING PARTITIONS

ADVANCED EQUIPMENT CORPORATION • 1000 E. SOUTH ST. • ANAHEIM, CALIFORNIA

AIA FILE NO. 35-H-6

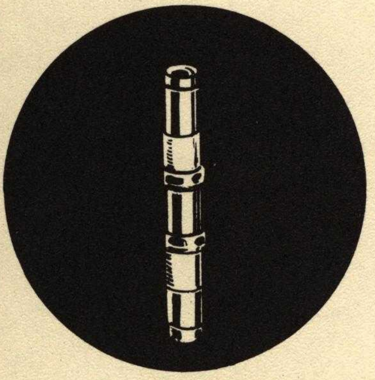
ADVANCED FOLDING PARTITION FEATURES



EXTRUDED ALUMINUM EDGE TRIM

Standard on all partitions
Protects and beautifies.

(Matching wood edge available when specified.)



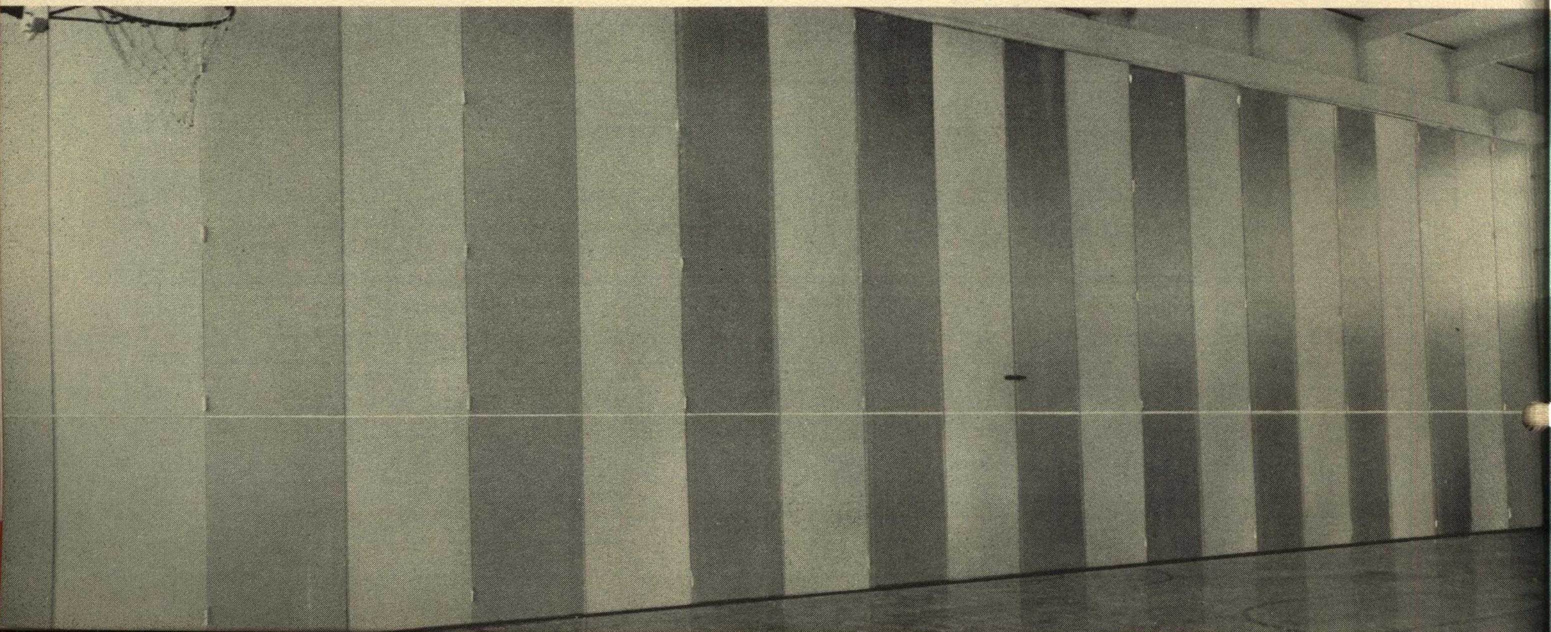
FRICTION-FREE BALL BEARING HINGES

Insure smooth, easy, trouble free operation.

Advanced Folding Partitions provide efficient, attractive and practical control of space. Rugged, superior construction affords effective sound control. Advanced offers complete freedom in architectural design and application, because the Advanced Folding Partition installation is custom engineered. Sure to meet the individual requirements of your particular job.

Investigate These Advanced Features!

1. FOLDING PARTITIONS TO MEET EVERY NEED
   - AUTOMATIC — ELECTRIC
     Remote key control
   - MANUALLY OPERATED
     Top hung or floor bearing
   - SPECIAL TYPES
     For unusual or special applications
2. MODERN FUNCTIONAL DESIGN
   - ALL PARTITIONS SOUND INSULATED
     Gives complete space division
   - WIDE VARIETY OF TRACKS AND TROLLEYS
     Insures balanced design
   - SLENDER JAMB AND HEAD SECTIONS
     Provide more opening space
3. SELECTED MATERIALS
   - DOUGLAS FIR FRAMES AND PLYWOOD PANEL FACES
     Provide maximum strength and stability
   - BALL BEARING HINGES
     Assure smooth, maintenance free operation
   - ALUMINUM EDGE TRIM
     Gives lasting beauty and protection
4. CAREFUL CRAFTSMANSHIP
   - FOR BETTER FINISHED APPEARANCE
   - PRECISE ATTENTION TO DETAIL
     Means trouble free operation



ADVANCED FUNCTIONS AND APPLICATIONS

Flexible division of floor space requiring both visual and audio separation is best achieved with Advanced folding partitions. Allowing multiple activities within a specified floor area, these folding partitions contribute substantial cost reductions.

Building construction, usage, and opening size are controlling factors in order to select the proper type of partition for a given opening. The table below lists several Advanced partition types and their applications. Information relative to size limitations, stacking space requirements, and installed partition weight should be obtained from your Advanced representative or through the factory. As a "rule of thumb," however, the weight may be estimated at five pounds per square foot of opening for standard construction.

Type 1A partitions must have an odd number of equal width panels for a partition folding one way, or for one half of a bi-parting partition.

Configuration of type 2 partitions folding one way, or one half of a bi-parting type 2 partition should be an odd number of full width panels plus one half-panel.

For greatest economy, select the maximum panel width (up to four feet wide) which is consistent with available stacking space and configuration requirements above.

Thickness for all partitions over 12 feet high and for other partitions should be 3 inches, unless stacking dimensions are critical. For reduced stacking dimensions on partitions under 12 feet high specify 2¼″ thickness.

ADVANCED — OPTIONAL FEATURES

- PASS DOORS for partitions 7 ft. 6 in. high and greater, complete with flush latch, 1½ pr. hinges, threshold. Pass door is 7 ft. high above floor; width to be same as normal panel section less ten inches.
- POCKET DOORS of same construction as partition panel, manually operated, complete with hardware, designed to close the pocket when partition is either in open or closed position.
- ELECTRICAL INTERLOCK for pocket door of type 1A partition. Prevents operation when pocket doors are not fully open.
- MECHANICAL OPERATION by means of hand crank. Specifications are similar to type 1A, including automatic floor seals, but using mechanical rather than electrical operator.
- TOP SEALS of flexible neoprene in contact with soffit.
- CORKBOARD AND CHALKBOARD installed with aluminum trim as shown on plans. Include chalk pockets as detailed.
- TRACK SWITCHES to transfer type 5 partition panels to different sections of track. Manual operation, or, for high openings, remote electrical operation is available.

TABLE OF ADVANCED FOLDING PARTITION TYPES AND APPLICATIONS

TYPE	OPERATION	SUSPENSION	RECOMMENDED APPLICATIONS
1A	Automatic—Electric Remote key control	Top Center Hung	Gymnasiums — Banquet Halls Openings Where Automatic Opening, Closing and Locking By Key Operation is Desirable
2	Manual Hinged Together Single or Bi-Parting	Top Center Hung	Room Division — Small Conference Rooms Class Rooms — Dining Rooms — Churches
3	Manual Hinged in Pairs	Top Hung W/Floor Guide	Room Division and Stages Where It Is Desirable for the Panels to Stack to One Side of Track
4	Manual Hinged in Pairs	Floor Bearing Over Head Guide	Use Only Where Over Head Support Is Not Adequate (Floor Track Must Be Level) Stacks to One Side of Centerline
5	Manual Individual Panel	Over Head 2 Trolleys Each Panel	When it is desirable to store panels away from opening, and for sliding bi-pass partitions
6	Special Designs		For Unique Conditions Where Standard Design Is Not Applicable

For detail drawings and specifications of Partition Types 3 through 6 consult your Advanced representative, or engineering department of Advanced Equipment Corporation.

ADVANCED

SPECIFICATIONS TYPE 1A FOLDING PARTITION

Advanced Automatic-Electric Folding Gymnasium Partition.

GENERAL:

Furnish and install Advanced type 1A automatic electric folding partition (partitions) as shown on plans.

OPERATION:

Partition shall be top hung, operating on steel I beam track, and equipped with sealed ball bearing hangers. Door suspension shafts shall be equipped with ball thrust bearings. Floor tracks or guides extending across the opening will not be employed.

Method of operation shall provide complete control from the key control switch located as shown on the drawings. Folding and unfolding of the partition, locking in the open and closed positions, and operation of the automatic floor seal shall be by this means.

A minimum clearance of 1 in. shall be provided below the bottom of the partition when opening or closing, but the final closing movement of the partition shall cause this space to be sealed completely by a moulded foam neoprene seal, and firmly lock all sections in the closed position.

Mechanical equipment shall include for each opening a 220 volt 3 phase electric operator designed to move the partition at approximately 24 f.p.m. Bearings to be sealed ball or roller type; gears to operate in oil bath. Motor controls, limit switches, disconnect clutch, disconnect switch and all other equipment required for proper operation shall be provided.

Power transmission shall be by roller chain of adequate capacity operating over sprockets equipped with anti-friction bearings. Moving parts of floor seal mechanism shall be protected from wear by oil impregnated bronze sleeve bearings.

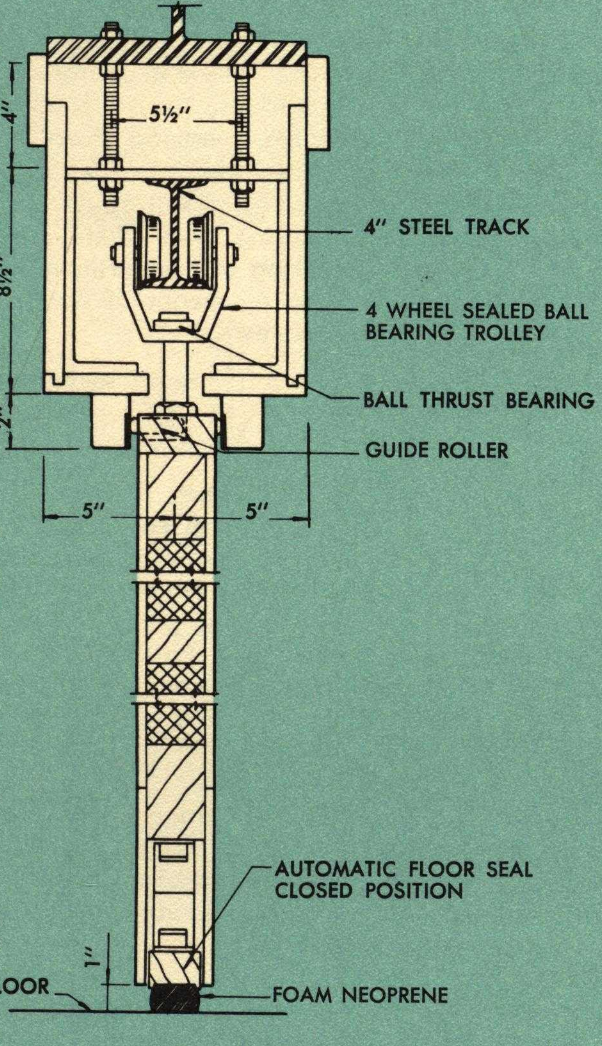
Partition panel sections . . . (refer to panel specifications, normally specify DFPA Grade "A" with wainscot for gymnasium use; include pocket doors and pass doors, if required). Panel edges shall be protected by heavy, polished and lacquered aluminum astragals, full panel height. Exposed hardware with *(baked aluminum finished hinges unless otherwise specified)* finish, shall include ball bearing hinges for partition (and pocket) doors.

All finishing of wood to be by others.

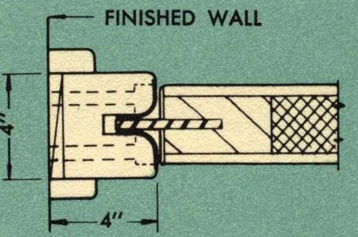
Supporting steel to be punched or drilled by others, and track hanger bolts set in accordance with layout furnished by manufacturer. Electrical wiring, hook-up, and conduit by others.

GUARANTEE:

Installation to be performed under the supervision of a factory trained mechanic. Manufacturer shall guarantee the complete installation against defects in material and workmanship for a period of one year.


4″
5½″
8½″
2″
4″ STEEL TRACK
4 WHEEL SEALED BALL BEARING TROLLEY
BALL THRUST BEARING
GUIDE ROLLER
5″
5″
AUTOMATIC FLOOR SEAL CLOSED POSITION
1″
FINISH FLOOR
FOAM NEOPRENE

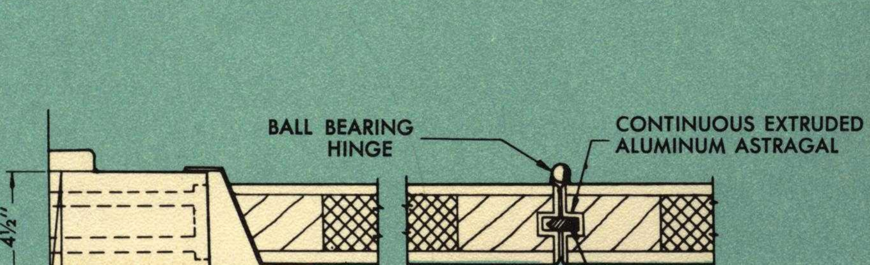
VERTICAL SECTION


FINISHED WALL
4″
4″

SECTION THRU MEETING JAMB

OPERATION:
Cylinder lock key-switch actuates all operations in proper sequence. Folding, unfolding, and operation of seals is completely automatic.

JAMBS:
Partitions folding one way require one meeting jamb and one pivot jamb. Bi-folding partitions require two pivot jambs.


BALL BEARING HINGE
CONTINUOUS EXTRUDED ALUMINUM ASTRAGAL
4½″
NEOPRENE SEAL
10⅜″

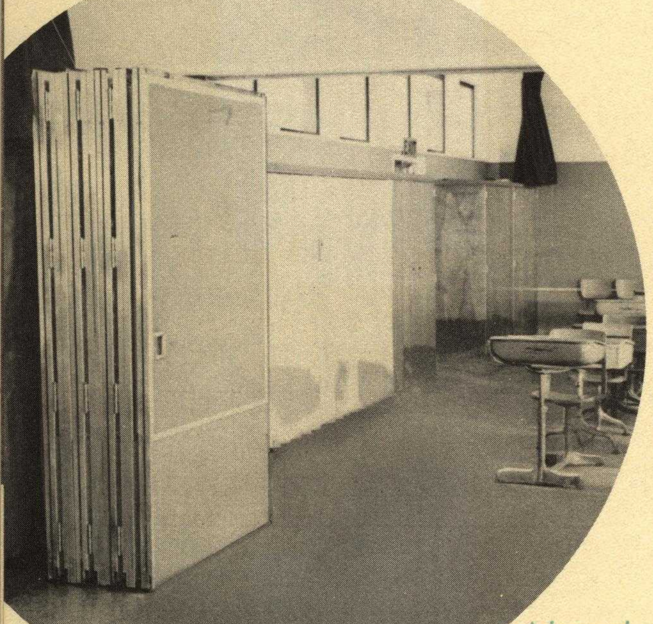
SECTION THRU PIVOT JAMB

ADVANCED

SPECIFICATIONS TYPE 2 FOLDING PARTITION

GENERAL:

Furnish and install Advanced type 2 folding partitions as shown on the plans.



Advanced Folding Partition in Multi-Use School Room.

OPERATION:

Partition shall be hinged together, top-center hung with four wheel ball bearing trolleys for alternate full-width panels. Trolleys to operate in 2½ inch by 3½ inch steel track, 13 gauge. Track shall be secured to supporting overhead structure by means of threaded hanger bolts attached to steel head brackets, with head brackets spaced at 30 inches except over stacking area where spacing shall be 15 inches. Locking of the partition in the closed position shall be by means of flush bolts engaging inlaid floor plates.

Partition panel sections . . . (insert section from "Panel Specifications").

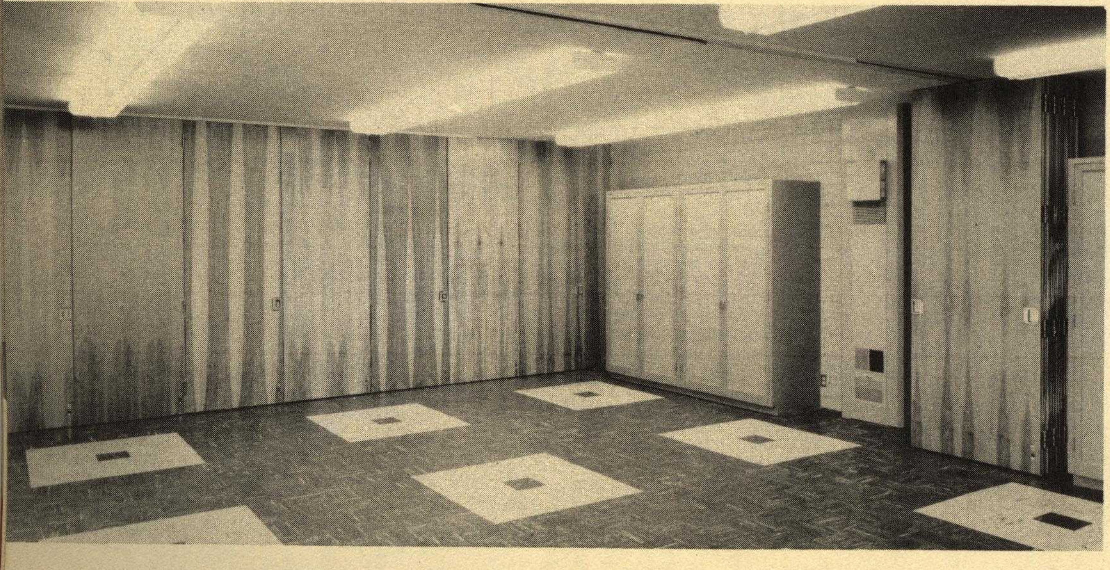
Exposed hardware with__________________finish shall include ball bearing hinges, flush bolts, and flush cup pulls. Panel edges to be protected by continuous extruded aluminum members. Each panel to be equipped with full floating neoprene floor seal. Provide ball bearing guide rolls at top of panels to eliminate wear. Partitions shall be complete in all respects, without the need for additional rough bucks or concealed head blocking.

WORK BY OTHERS:

Drilling or punching of supporting structure, and placing of hanger rods to be done by others, in conformance with template furnished by partition manufacturer. All finishing of wood to be by others.

GUARANTEE

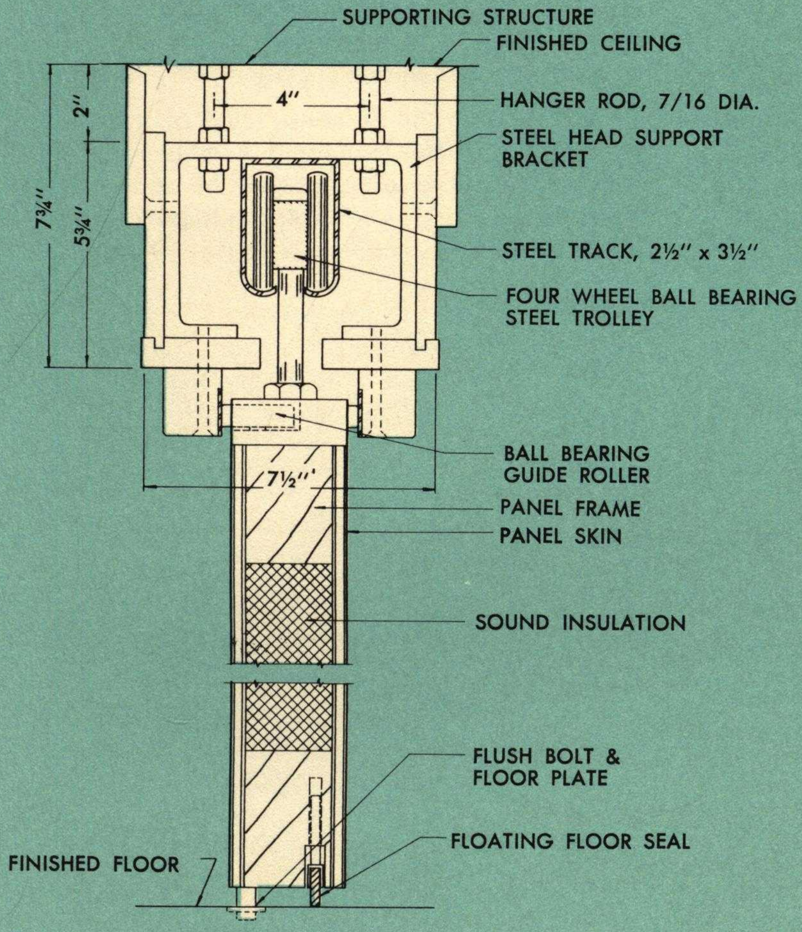
Manufacturer to guarantee the workmanship and materials of the partition for a period of one year.



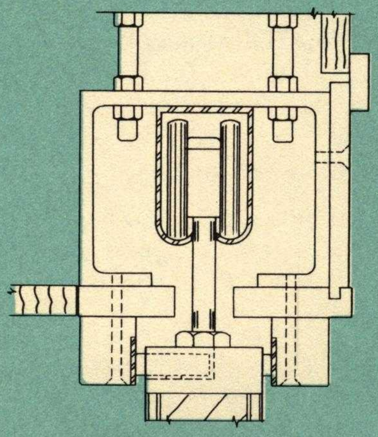
Advanced Folding Partition Used to Divide Church Classroom.

Manually operated folding partition, top-center hung with trolleys on alternate full width panels.

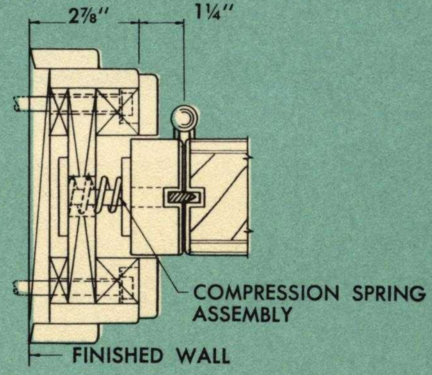
Partitions folding one way require one hinge jamb and one meeting jamb. Bi-folding partitions require two spring hinge jambs.


SUPPORTING STRUCTURE
FINISHED CEILING
4″
2″
7¾″
5¾″
HANGER ROD, 7/16 DIA.
STEEL HEAD SUPPORT BRACKET
STEEL TRACK, 2½″ x 3½″
FOUR WHEEL BALL BEARING STEEL TROLLEY
BALL BEARING GUIDE ROLLER
7½″
PANEL FRAME
PANEL SKIN
SOUND INSULATION
FLUSH BOLT & FLOOR PLATE
FLOATING FLOOR SEAL
FINISHED FLOOR

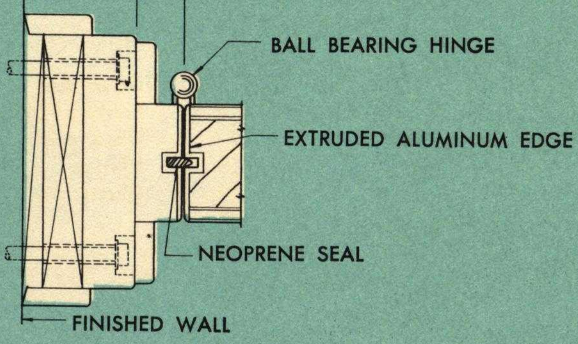
VERTICAL SECTION



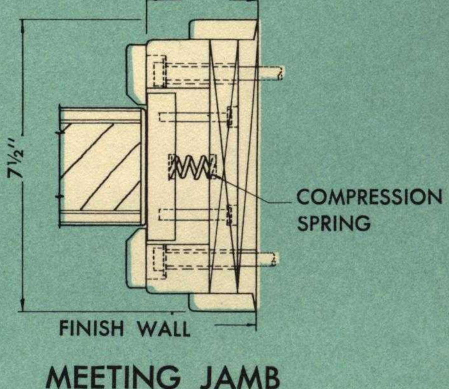
HEAD SECTION
Showing Alternate Configurations


2⅞″
1¼″
COMPRESSION SPRING ASSEMBLY
FINISHED WALL

SPRING HINGE JAMB


2⅞″
1¼″
BALL BEARING HINGE
EXTRUDED ALUMINUM EDGE
NEOPRENE SEAL
FINISHED WALL

HINGE JAMB


2⅞″
7½″
COMPRESSION SPRING
FINISH WALL

MEETING JAMB

ADVANCED

PANEL CONSTRUCTION SPECIFICATIONS

PANEL CONSTRUCTION — consists of kiln dried douglas fir core, fiberglass packing, face sheets laminated with thermo-setting adhesive.

FACING MATERIAL may be plywood of almost any grade and species. D.F.P.A. grade "A" douglas fir plywood ⅜″ thick is recommended as a durable, economical face material — hardwood plywoods are normally ¼″ thick.

When an extremely smooth surface, with no grain effect is desired, for good painting properties, specify douglas fir plywood with medium density plastic overlay.

Wainscot material, when specified, may be plastic overlaid fir plywood, hardboard or other material as desired. Wainscot normally extends to a point 7′0″ above finish floor. Covering with No. 10 roll duck is available when specified.

TYPICAL PANEL SPECIFICATION

Partition panel sections shall be heavy, lattice core, kiln dried, douglas fir frame covered with (grade) (specie) plywood full height, both sides. Panels to be_______inches thick.

Panel sections shall be constructed of frames with plywood pressure-laminated with thermo-setting adhesive to all face surfaces. All spaces within shall be packed with fiberglass. Space between extended sections shall be sealed by means of an extruded neoprene molding, interlocked with heavy aluminum astragals of width equal to panel thickness. This aluminum astragal should extend the full height of all panel sections, and be firmly attached with flush aluminum screws. Head trim, jambs to be of (grade) (specie)** as detailed.

**normally vertical grain douglas fir

For purpose of product improvement, we reserve the right to make changes in details and specifications without prior notice.

Details and specifications for other types of partitions such as pair-operated and special applications, pocket dimensions, design weights, lay-out drawings, etc. are available. For more information and professional assistance . . .

CALL ON YOUR ADVANCED REPRESENTATIVE

ADVANCED

FOLDING PARTITIONS

ADVANCED EQUIPMENT CORPORATION
1000 EAST SOUTH STREET • ANAHEIM, CALIFORNIA

Installing Distributors in Principal Cities.

COOKSON

SIDE COILING PARTITIONS

Attractive • Practical • Durable

For Dividing Large Areas with Minimum Sound Transmission, Maximum Strength and Rigidity

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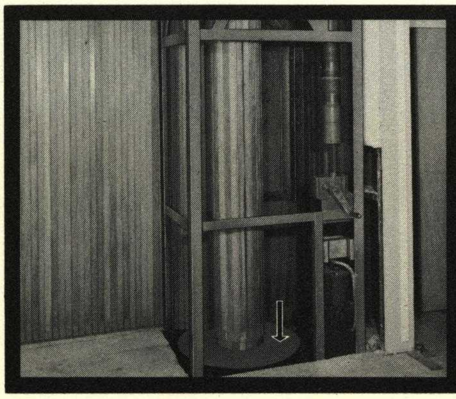
BULLETIN NO. 6003

SIDE COILING PARTITIONS

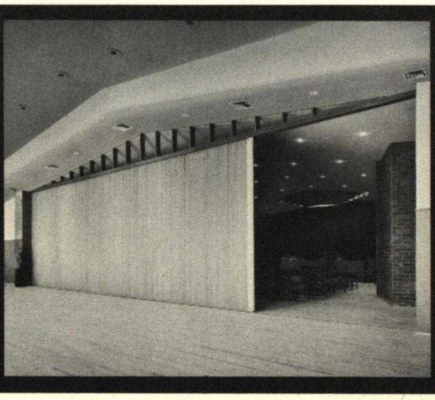
single openings to 125′ wide
double openings to 250′ wide
heights to 24′

gymnasiums
cafeterias
classrooms
churches
factories
showrooms
stores
stages
homes

Cookson Wood Side Coiling Partitions are designed to give a feeling of permanent integral structural walls in each of the rooms or areas they divide. They roll completely out of the way, giving the combined areas the appearance as well as practical application of a single larger unit. Both floor and overhead tracks are particularly inconspicuous. Whether power, crank or manually operated, the partitions roll quickly and easily in a straight line, so that no furniture or equipment need be moved to permit opening or closing. Extremely high strength of the partition and supporting members offers maximum protection against damage. Materials and workmanship are carefully controlled from the selection of finest kiln dried vertical grain woods to the final assembly of the completed coil box, operating mechanisms, track and partition. Each partition is custom built and shipped in unitized assemblies for easy specification and installation.


As the wood curtain is coiled, its weight is transferred from the overhead track to the radial bearing supported bottom plate, as shown above.

Cookson Side Coiling Wood Partitions quickly divide gymnasiums and other large rooms into smaller areas for multi-purpose use.


Arch, peak or other unusual ceilings offer no problem for Cookson Partitions. Illustrated is 54′ x 14′ partition, crank operated.

SPECIFICATIONS

partition: To be constructed of vertical grain kiln dried 1″x 2″ douglas fir, milled to the Cookson modified tongue and groove "V" faced pattern. To prevent separation of curtain and assure perfect alignment, it shall be assembled with concealed cables and spring steel ribbons. (Other woods are available subject to factory approval.)

coil box: Partition to coil around a steel pipe supported by a lifetime-lubricated Timken precision thrust bearing. Coil housing frame to be fabricated from structural steel shapes to form a single integrated unit. Application of facing is to be by others as specified by the architect.

operation: A. *Push-pull operation.* Partitions up to 80 sq. ft. and not exceeding 8 ft. in height may be manually (push-pull) operated. Type SCP-1.

B. *Hand crank operation.* Partitions up to 420 sq. ft. and not exceeding 14 ft. in height or 30 ft. in width may be hand crank operated in both directions. With this operation the curtain shall move at constant speed. Type SCP-2.

C. *Motor operation.* All partitions up to 24 ft. in height and 125 ft. in width may be electrically operated with push button control. With this operation the curtain shall move at constant speed. Drive mechanism shall consist of drive gears and cables suitably arranged to coil and uncoil curtain into box at constant speed. Drive gears shall furnish motivation force in both directions with cables, keeping curtain under constant tension at all times. No mechanical or electrically operated clutches will be permitted. The above requirements must be strictly adhered to in the interest of public safety. Any bidder desiring to quote on this item must furnish proof to the architect that his standard product complies with these requirements. Type SCP-3.

upper track: Shall be one-piece construction of extruded aluminum to support full curtain load, and is to be fully adjustable to permit compensation for deflection of truss or other mounting surfaces.

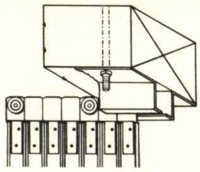
floor guide: Shall be furnished complete with cleanout boxes and shall be installed by the general contractor as per Cookson Company recommendations.

meeting stile: To be formed from "Alumilited" Aluminum with a compressible nosing. (Note — When specified on motor operated Partitions, the front edge of the Meeting Stile will be furnished, at extra cost, with Cookson Company's "Detect-edge,"® a safety device to stop forward motion upon contact with an object.)

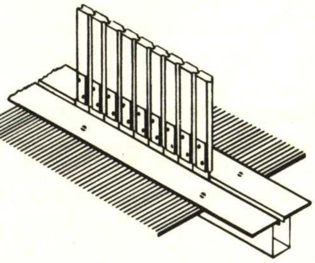
finish: Stain or treatment by others.

assembly: Partition shall be shipped completely assembled in coil box when practicable.

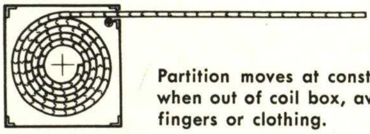
special features



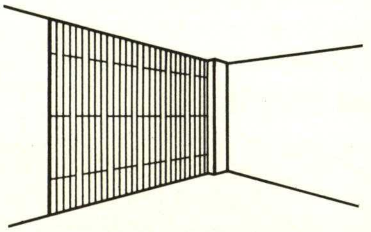
Exclusive nylon curtain-support wheels mounted on ball bearings — running in an adjustable continous track mounting — provide maximum safety, sound resistance, ease of operation.



Exclusive continuous bottom end lock and guide design retains constant alignment, gives maximum sound resistance.

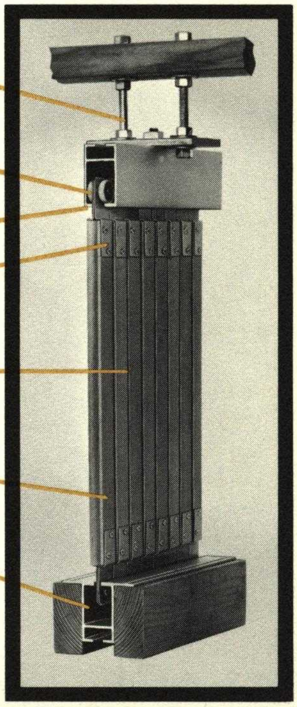


Partition moves at constant speed in a direct line when out of coil box, avoiding danger of pinched fingers or clothing.



Special adjustable concealed cables at properly engineered intervals maintain constant alignment for full length of slats.

design and construction



Adjustable track bolts can be attached to any steel or wood beam members

Nylon ball bearing wheels

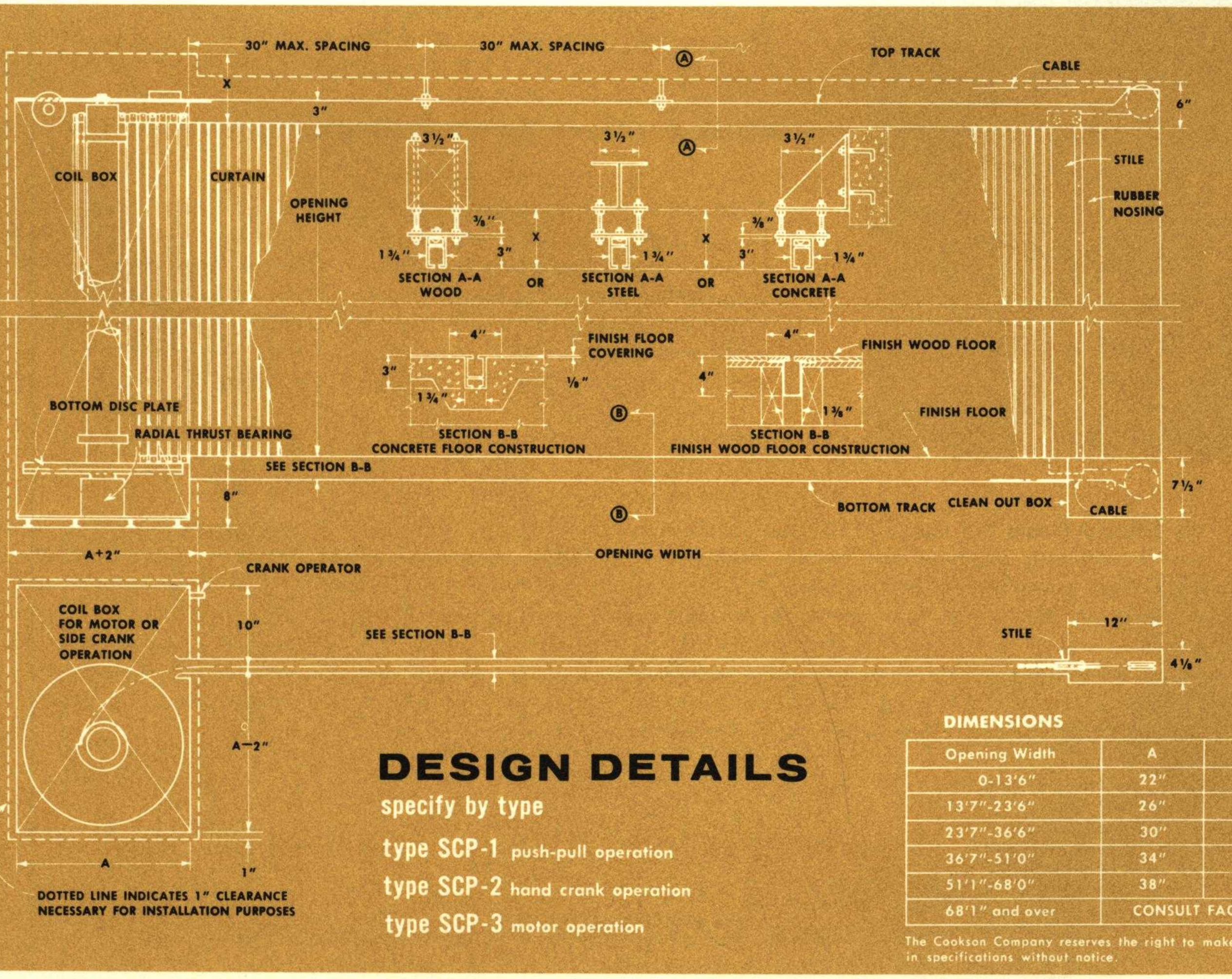
Extruded aluminum track

Continuous shoes

Curtain of vertical grain wood, assembled with concealed cables and spring steel ribbons

Curtain load is only 4 lbs. per sq. ft.

Extruded aluminum floor guide


30" MAX. SPACING
30" MAX. SPACING
Ⓐ
TOP TRACK
CABLE
X
3"
6"
COIL BOX
CURTAIN
OPENING HEIGHT
3½"
3½"
3½"
Ⓐ
⅜"
⅜"
X
X
1¾"
3"
1¾"
3"
1¾"
SECTION A-A WOOD
OR
SECTION A-A STEEL
OR
SECTION A-A CONCRETE
STILE
RUBBER NOSING
4"
FINISH FLOOR COVERING
4"
FINISH WOOD FLOOR
3"
⅛"
4"
1¾"
1⅜"
BOTTOM DISC PLATE
Ⓑ
FINISH FLOOR
RADIAL THRUST BEARING
SECTION B-B CONCRETE FLOOR CONSTRUCTION
SECTION B-B FINISH WOOD FLOOR CONSTRUCTION
SEE SECTION B-B
7½"
8"
BOTTOM TRACK
CLEAN OUT BOX
CABLE
Ⓑ
A+2"
OPENING WIDTH
CRANK OPERATOR
COIL BOX FOR MOTOR OR SIDE CRANK OPERATION
10"
SEE SECTION B-B
STILE
12"
4⅛"
A−2"
A
1"
DOTTED LINE INDICATES 1" CLEARANCE NECESSARY FOR INSTALLATION PURPOSES

DESIGN DETAILS

specify by type

type SCP-1 push-pull operation

type SCP-2 hand crank operation

type SCP-3 motor operation

DIMENSIONS

Opening Width	A	X
0-13'6"	22"	6"
13'7"-23'6"	26"	7"
23'7"-36'6"	30"	8"
36'7"-51'0"	34"	8"
51'1"-68'0"	38"	9"
68'1" and over	CONSULT FACTORY	

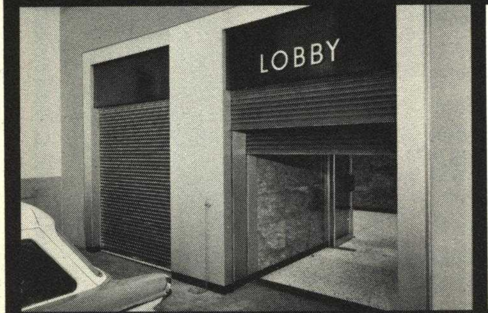
The Cookson Company reserves the right to make changes in specifications without notice.

OTHER COOKSON ENGINEERED PRODUCTS

The best way to close an Opening

STEEL ROLLING SERVICE DOORS

Available for power, chain, crank or manual operation, Cookson Service Doors offer advantages for longest life, greatest safety and lowest maintenance. Exclusive continuous wall angle equalizes strain on anchor bolts and eliminates the need for heavy lintel construction. Lubricated ball bearings and the elimination of cast iron on critical supporting members are but two of many features which make Cookson Doors first choice wherever service doors are specified.

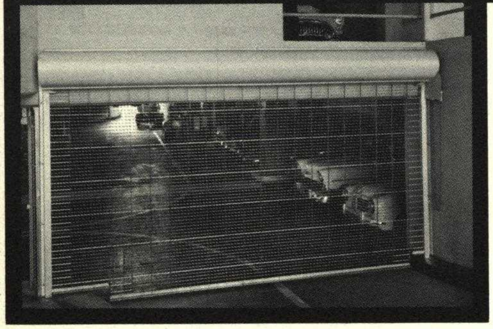


"SERVIRE"® AUTOMATIC DROP FIRE DOORS

"Servire" Fire Doors are inspected and labeled or certified by Underwriters' Laboratories and Factory Mutual Laboratories. Cookson design features fully automatic drop mechanism activated by 160° fusing link, dependable escapement governor which both controls closing speed and provides a warning signal, improved clutch which insures positive drop, auxiliary spring to augment downward operation, simple resetting system which allows immediate operation as standard service door after closing automatically.

ALUMINUM COUNTER DOORS

Durable "Alumilited" extruded aluminum slats and guides keep their sparkling luster indefinitely, requiring little or no upkeep. Peeling and chipping, so often associated with painted steel curtains, are entirely eliminated. Nor will you run into the many other costly problems encountered with ordinary lightweight "mill finish" aluminum. These trim, smartly styled doors are corrosion and rust proof, require no painting, are easy to clean. They are counterbalanced for effortless operation with lubricated ball bearings.



ROLLING GRILLES—STEEL, ALUMINUM

Designed to protect property against trespassing or illegal entry while maintaining free visibility and ventilation, Cookson Rolling Grilles have proved to be both practical and attractive for school corridors, garages, store fronts, courtyards, open air markets, industrial plants, stairways and similar applications. They offer the same basic factors of ease of installation and operation that have made Cookson Service Doors so universally satisfactory. Built for push-up, chain, crank or motor operation.

COOKSON OFFERS MANY IMPORTANT SAFEGUARDS

All Cookson Doors are designed for user satisfaction — with architect, engineer and builder problems in mind. Their easier operation and lower maintenance are a matter of record. They are easier to specify, easier to install, and offer a more effective use of space. As an additional protection of your investment, Cookson fully guarantees the quality, workmanship and material of every door delivered. Furthermore, complete specifications on every part of every door are microfilmed in duplicate for permanent filing. Master microfilms are filed in underground atomic vaults, with copies carefully maintained at the Cookson main offices for ready reference. This means you can always depend on prompt, accurate replacement of any part or assembly, or duplication of a complete door installation.

COOKSON

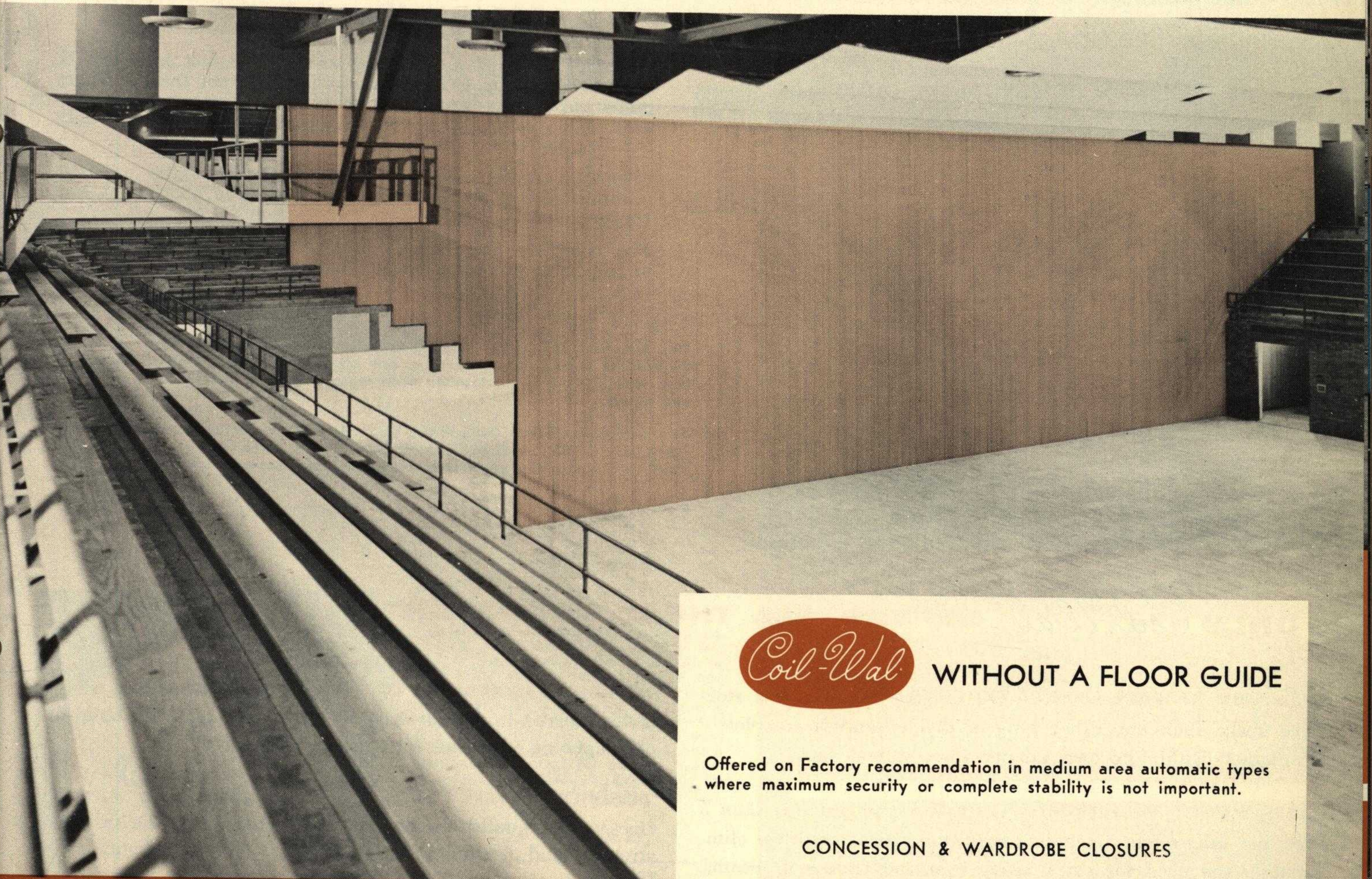
THE COOKSON COMPANY
1525 Cortland Ave., San Francisco 10, Calif.
Southern California Office • 120 East Palm Ave., Burbank, Calif.

Bulletin No. 6003

Litho in U. S. A.

Coil-Wal®
WITH
SOLID WOODS

AUTOMATIC* COIL-AWAY PARTITIONS for Gymnasiums Auditoriums Stages, Etc.

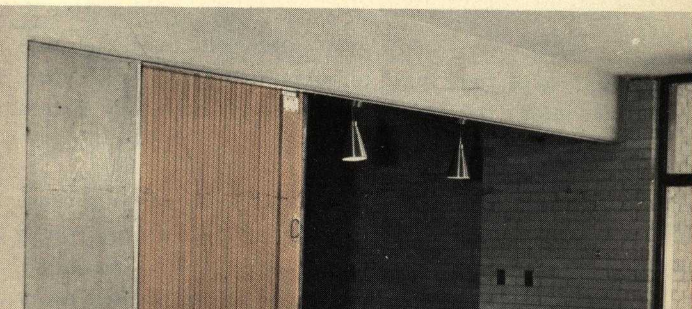


Mishawaka, Indiana High School
Automatic Coil-Wal 26'-0" x 120'-0".
Paul Frank Jernegan, Arch., Perkins and Will, Arch. & Eng.

Coil-Wal WITHOUT A FLOOR GUIDE

Offered on Factory recommendation in medium area automatic types where maximum security or complete stability is not important.

CONCESSION & WARDROBE CLOSURES



*MANUALLY OPERATED COIL-WALS are also available with push-pull or pull-crank operation.

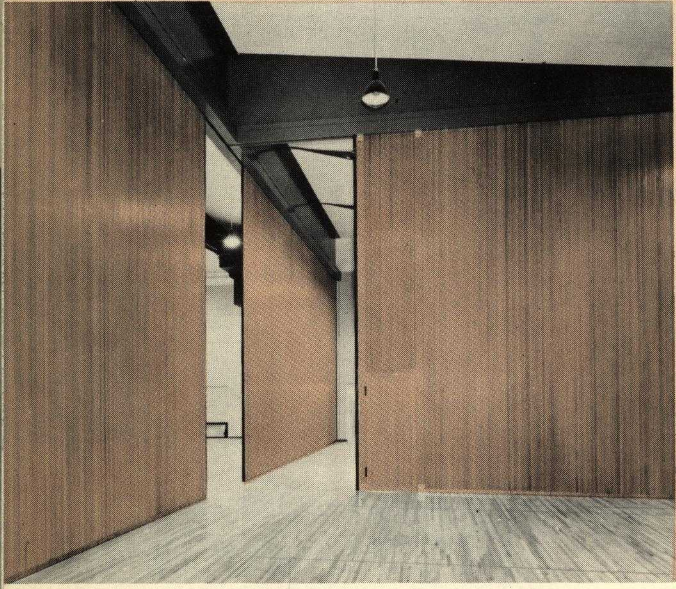
Coil-Wal®

COIL-WAL combines modern beauty with long-life durability to provide the easiest operating, most dependable movable partition built.

Openings as large as 120 feet wide by 30 feet high can be accommodated by COIL-WAL at far less cost than ordinary panel partitions — an important consideration where appearance and quality must be maintained in the face of tight building budgets.

Minimum storage space requirements permit the architect unlimited flexibility in the matter of location, placement, and concealment.

For complete and lasting satisfaction, specify COIL-WAL on any job requiring space dividers.



- **This beautiful 14' x 48' automatic-electric COIL-WAL partition divides the council chambers of a new city hall building. Note how well COIL-WAL harmonizes with modern building materials and design.**
- **Two automatic-electric COIL-WALS (one 24' x 98' bi-parting partition and one 24' x 50' single partition with pass door) serve to divide this high school gymnasium into two or three separate areas.**

ONLY Coil-Wal® OFFERS ALL THESE IMPORTANT PLUS-FEATURES!

MINIMUM STORAGE SPACE — COIL-WAL requires less storage space than any other type of divider and is completely contained within its own tamper-proof storage box.

LESS WEIGHT TO SUPPORT — COIL-WAL weighs *less than 3 lbs. per square foot* (including hardware and accessories) eliminating the need for extra heavy overhead trusses or beams.

MAXIMUM VERTICAL CLEARANCE — Straight-line travel permits mounting of track next to supporting beam, truss span, or truss to utilize full clearance under supports. This feature also permits flush ceiling installations.

GREATER SAFETY — COIL-WAL has no folding action to cause pinching or injuries. Its flexibility absorbs impacts which otherwise might result in serious bodily injury. Neoprene-covered sponge rubber on lead stile prevents accidental injury in closing — assures tight closures.

NO OVERHEAD STORAGE LOAD . . . COIL-WAL curtain weight is transferred to spindle base as it leaves track. No build-up of weight on overhead supports at any point.

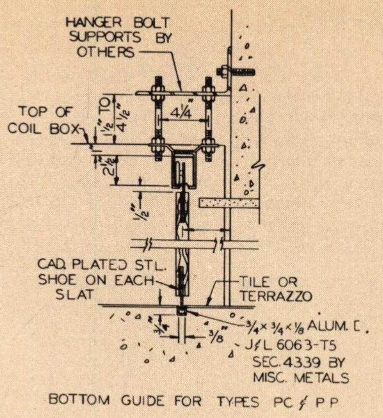
DURABILITY GUARANTEED — Clear, straight-grained, warpage-free woods; quality hardware and fittings; plus the inherent strength and flexibility of COIL-WAL design withstands an incredible amount of abuse without damage to partition or operating mechanism.

BETTER ACCOUSTICAL QUALITIES — COIL-WAL'S grooved, multi-slat design greatly reduces echo over that of flat partitions. Tight closures at floor and ceiling further aid, not only in sound reduction, but in the elimination of drafts as well.

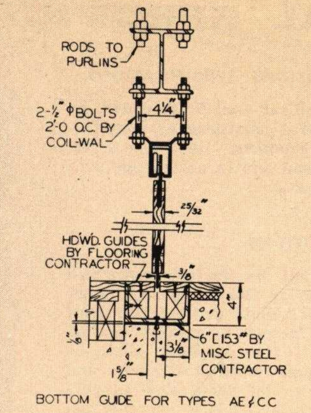
EASIER CLEANING and MAINTENANCE — Finely finished surface makes cleaning easy. There are no threshold plates or load-bearing floor channels to hinder floor cleaning. (A single ⅜ inch wide groove is the only floor guide required.)

DUBUQUE PRODUCTS, INC. ■ Dyersville, Iowa

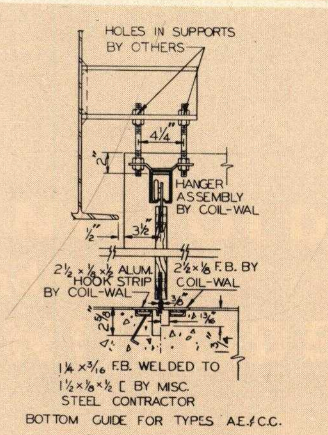
TYPICAL MOUNTING DETAILS


HANGER BOLT SUPPORTS BY OTHERS
TOP OF COIL BOX
1½" TO 4½"
4¼
2⅝
½"
CAD. PLATED STL. SHOE ON EACH SLAT
TILE OR TERRAZZO
3/8
¾ × ¾ × ⅛ ALUM. [J & L 6063-T5 SEC. 4339 BY MISC. METALS
BOTTOM GUIDE FOR TYPES PC & PP

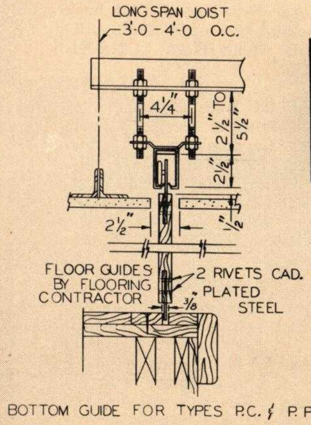
Showing COIL-WAL mounted to side of concrete beam. Note how all track and hangers are hidden above ceiling level.


RODS TO PURLINS
2-½" φ BOLTS 2'-0 O.C. BY COIL-WAL
4¼
25/32"
HD'WD. GUIDES BY FLOORING CONTRACTOR
3/8
4
6" [15.3# BY MISC. STEEL CONTRACTOR
3/8
1⅝
BOTTOM GUIDE FOR TYPES AE & CC

COIL-WAL suspended from purlins by means of I-beam and rods. If suspended ceiling is used, entire track and hanger may be concealed.

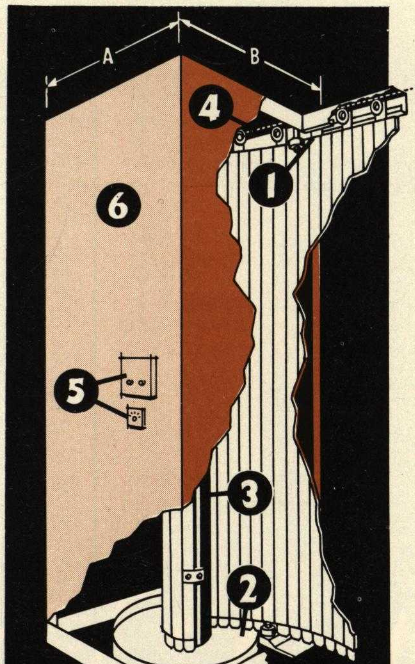

HOLES IN SUPPORTS BY OTHERS
4¼
2"
HANGER ASSEMBLY BY COIL-WAL
½"
3½
2½ × ⅛ × ½ ALUM. HOOK STRIP BY COIL-WAL
2½ × ⅛ F.B. BY COIL-WAL
1¼ × 3/16 F.B. WELDED TO 1½ × ⅛ × ½ [BY MISC. STEEL CONTRACTOR
BOTTOM GUIDE FOR TYPES A.E. & C.C.

COIL-WAL straight-line travel permits mounting of track alongside structural I-beam by means of channel iron supports.


LONG SPAN JOIST 3'-0 - 4'-0 O.C.
4¼
2½" TO 5½"
2½
2½"
1"
FLOOR GUIDES BY FLOORING CONTRACTOR
2 RIVETS CAD. PLATED STEEL
3/8
BOTTOM GUIDE FOR TYPES P.C. & P.P.

Completely concealed mounting supported from long-span joists. Note detail showing platform-edge of floor guide.

3-INCH CLEARANCE
between bleachers achieved through straight-line travel increases seating capacity.



COIL BOX

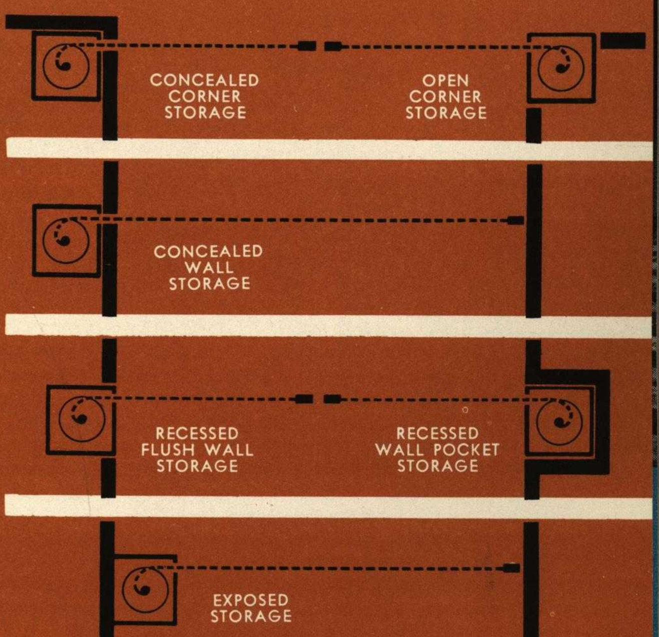
The heart of COIL-WAL's smooth automatic operation lies in its coil box design. As curtain leaves track at point (1), storage-load is guided and shifted to spindle base (2) while gear-driven spindle (3) exerts the coiling action . . . To draw curtain, power is transferred to cable (4) which runs the length of track . . . Key-switch and selector control (5) may be located at option of architect . . . In exposed installations, box is completely sheathed.

CURTAIN SIZES

Opening Width	Coil Box	
	A	B
10'-0"	21½"	19"
15'-0"	23½"	21"
20'-0"	27½"	25"
25'-0"	29½"	27"
30'-0"	30½"	28"
35'-0"	31½"	29"
40'-0"	33½"	31"
45'-0"	34½"	32"
50'-0"	35½"	33"
60'-0"	37½"	35"
80'-0"	40½"	38"
100'-0"	44½"	42"

CUSTOM-BUILT to any height or length to meet any architectural condition

TYPES OF INSTALLATIONS


CONCEALED CORNER STORAGE
OPEN CORNER STORAGE
CONCEALED WALL STORAGE
RECESSED FLUSH WALL STORAGE
RECESSED WALL POCKET STORAGE
EXPOSED STORAGE

INSPECT ONE OF THESE COIL-WAL INSTALLATIONS NEAREST YOU!

CALIFORNIA (Downey)
DOWNEY SR. HIGH SCHOOL
Single Coil (AE) Coil-Wal 104'0" x 25'0"
Harry T. McDonald, Arch.
CONNECTICUT (Ridgefield)
RIDGEFIELD HIGH SCHOOL
Single Coil (AE) Coil-Wal 87'0" x 26'0"
Single Coil (CC) Coil-Wal 9'0" x 26'0"
Sherwood, Mills & Smith, Arch.
ILLINOIS (Oak Park)
LINCOLN SCHOOL
Single Coil (AE) Coil-Wal 48'6" x 20'0"
Perkins & Will, Arch.
IOWA (Fort Madison)
SENIOR HIGH SCHOOL
Bi-Part (AE) Coil-Wal 118'4" x 23'9"
Karl Keffer Associates, Arch.
KANSAS (Prairie Village)
SHAWNEE MISSION HIGH SCHOOL EAST
Bi-Part (AE) Coil-Wal 53'7" x 16'0"
Perkins & Will, Arch.
Neville, Sharp & Simons, Arch.
MASSACHUSETTS (Bedford)
HANSCOM AFB ELEMENTARY SCHOOL
Single Coil (AE) Coil-Wal 60'0" x 14'0"
The Architects Collaborative, Arch.
MICHIGAN (Fraser)
FRASER HIGH SCHOOL
Single Coil (AE) Coil-Wal 111'6" x 22'6"
Robert C. Wakely, Arch.
MINNESOTA (Wayzata)
WAYZATA ELEMENTARY SCHOOL
Single Coil (AE) Coil-Wal 60'0" x 18'0"
Haarstick Lundgren & Associates, Inc., Arch.
NEBRASKA (Omaha)
ARCHBISHOP RYAN MEMORIAL HIGH SCHOOL
Single Coil (AE) 89'0" x 22'0"
Leo A. Daly Company, Arch.
NEW YORK (Plattsburgh)
PLATTSBURGH AFB ELEMENTARY SCHOOL
Single Coil (AE) Coil-Wal 58'0" x 14'0"
Knappe & Johnson, Arch.
OHIO (Mansfield)
MADISON EAST ELEMENTARY SCHOOL
Single Coil (AE) Coil-Wal 57'0" x 20'0"
Marr-Knapp-Crawfis, Arch.
PENNSYLVANIA (Turtle Creek)
ELECTRIC PLAN SCHOOL
Single Coil (AE) Coil-Wal 47'2" x 20'5"
The Warnick Company, Arch.
TEXAS (Port Arthur)
PORT ARTHUR HIGH SCHOOL
Single Coil (AE) Coil-Wal 150'0" x 23'11"
Caudill Rowlett Scott & Associates, Arch.
WASHINGTON (Spokane)
GLOVER JR. HIGH SCHOOL
Bi-Part (AE) Coil-Wal 81'9" x 22'0"
Whitehouse & Price, Arch.
WASHINGTON (Longview)
LOWER COLUMBIA JUNIOR COLLEGE
Single Coil (AE) Coil-Wal 96'0" x 23'0"
McGuire & Muri, Arch.

GENERAL SPECIFICATIONS

I. COIL-WAL PARTITIONS SPECIFICATIONS

Furnish and install at locations shown on plan, Dubuque Coil-Wal partitions as manufactured by Dubuque Products, Inc., Dyersville, Iowa, or approved equal and in accordance with the following specifications.

II. COIL-WAL PARTITIONS

(a) CURTAIN shall be factory assembled from select vertical grain Douglas fir, (or other suitable species), slats. Slats shall be kiln dried and treated at the factory to protect against moisture absorption. The partition shall be closely joined with prestressed steel cables and fitted with continuous slat shoes and hangers which shall be expertly attached to prevent misalignment or slat separation. PAINT OR OTHER FINISH TO BE APPLIED UNDER PAINT SECTION.

(b) LEAD STILE shall be of appropriate size to effect suitable closure and shall be fitted with sponge rubber nosing and neoprene facing, except on manually operated closures that have recessed jambs or lock-latches. LOCKING DEVICES AND PULL HANDLES UNDER HARDWARE SECTION.

(c) COIL BOX for all sizes and types of Coil-Wals shall be a sturdily designed steel frame to safely support the imposed loads when in a stored position. PANELS WITH REMOVABLE ACCESS PORTS TO COVER COIL BOX FRAME BY GENERAL CONTRACTOR.

(d) OPERATION OF COIL-WAL SHALL BE AS FOLLOWS:

(1) AUTOMATIC ELECTRIC (AE) shall include motors, reversing controls, key selector switch and limit switch, all of which are assembled in the coil box and electrically interconnected at the factory. Mechanism shall be designed with shear pins and safety controls for overload protection. Motors shall be 115 Volt single phase 60 cycle for ¼, ⅓ or ½ HP and 220 volts three phase for ¾ HP. FIELD CONNECTION TO POWER SOURCE AND REMOTE LOCATION OF CONTROLS BY ELECTRICAL CONTRACTOR.

(2) CRANK IN-CRANK OUT (CC) mechanism can be provided for Coil-Wals up to 1,000 sq. ft. with removable hand crank.

(3) PULL OUT-CRANK IN (PC) — This type is particularly suitable for single curve, ess curve or around the corner, (minimum 24" radius), installations not exceeding 1,000 sq. ft.

(4) PUSH IN-PULL OUT (PP) for wardrobe or concession closures up to 150 sq. ft.

(e) UPPER TRACK shall be minimum 18 gauge to maximum 14 gauge to safely support partition load and shall be complete with hangers, clamps and bolts that are easily adjustable for height. BOLT HOLES IN OVERHEAD SUPPORTS OR BRACKETS BY STEEL CONTRACTOR.

(f) GUIDES AT FLOOR shall be as shown on the drawings. Coil-Wal manufacturer to furnish aluminum floor guide for concrete-tile floors. Steel channel anchoring device shall be provided for wood floor guides in large room areas to control moisture expansion and bulging of floor. STEEL ANCHORING DEVICES TO BE FURNISHED AND INSTALLED BY STEEL CONTRACTOR — WOOD FLOOR STEEL CONTRACTOR — WOOD FLOOR GUIDE BY FLOORING CONTRACTOR.

(g) NO FLOOR GUIDE REQUIRED ON CLOSET CLOSURES.

(h) WRITE FACTORY FOR COMPLETE DETAILED SPECIFICATIONS.

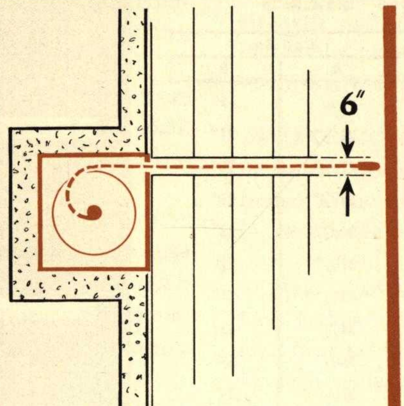
Guaranteed

for a period of one year from date of installation against faulty materials or workmanship. Manufacturer or his authorized agent will also provide inspection, maintenance, or adjustment service at a nominal cost for repairs or maladjustment occurring as the result of vandalism or failure, sagging or shifting of adjacent, attached or surrounding materials furnished or installed by other.

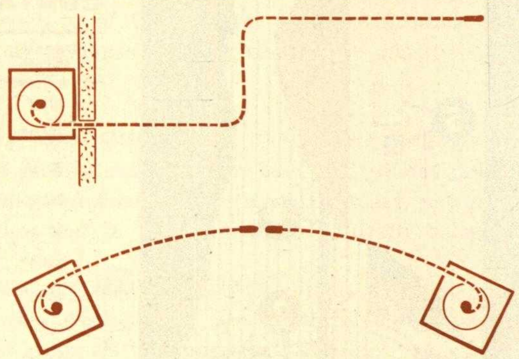
Coil-Wal®

COMPLETELY CONCEALED STORAGE

The Architect has complete freedom of design with COIL-WAL adaptability to any structural or architectural condition.



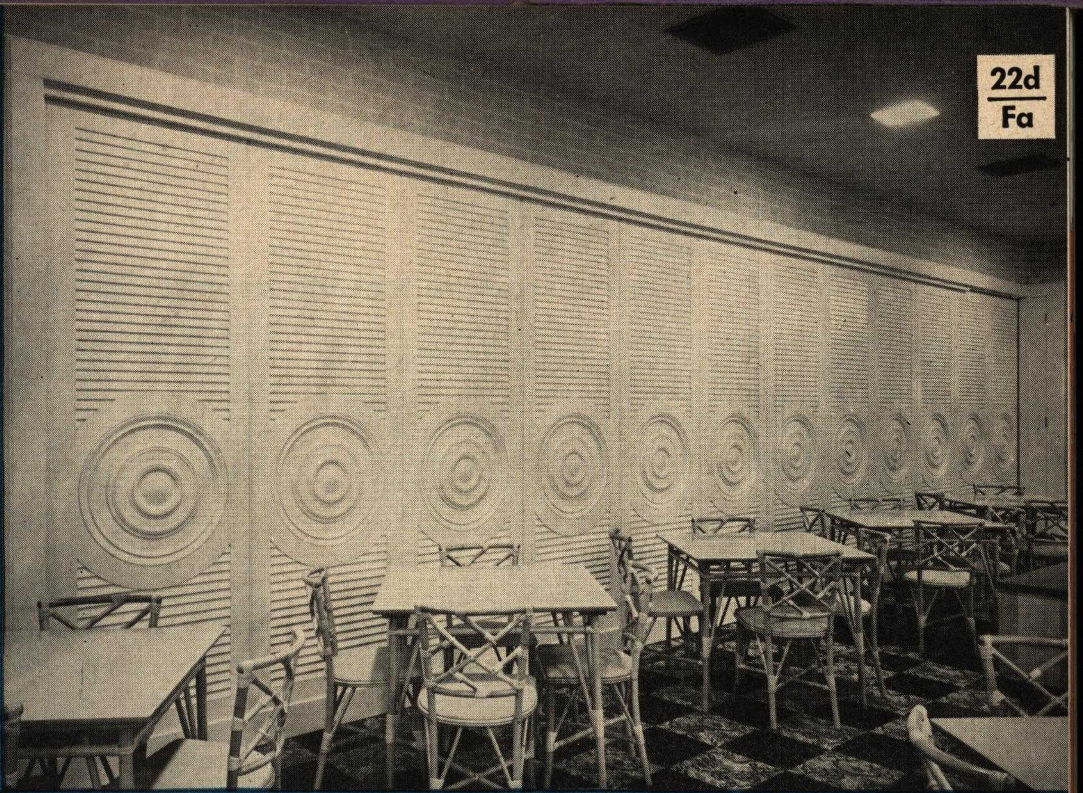
MAXIMUM SEATING



Consult factory for special curved track COIL-WALS available in automatic and manual types.

DUBUQUE PRODUCTS, INC. ■ Dyersville, Iowa

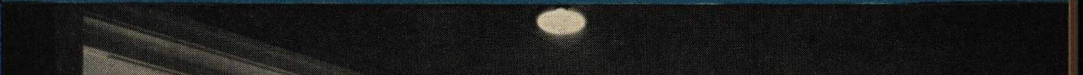
PRINTED IN U.S.A.



Unitslide Wall at
Hotel Monteleone,
New Orleans, La.
Wogan & Bernard,
Architects

UNITFOLD® and UNITSLIDE®

Folding Walls



Wall Units are
completely
concealed
in pockets.

Fairhurst
TRADEMARK
First Name in Folding Walls

NOT A CURTAIN BUT A RIGID WALL

John T. Fairhurst Co., Inc.

Fairhurst "UNITFOLD" folding walls

TRADEMARK

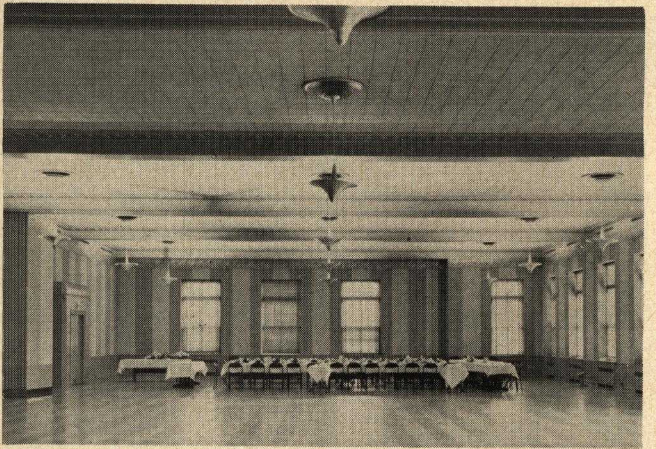
for attractive trouble proof folding walls

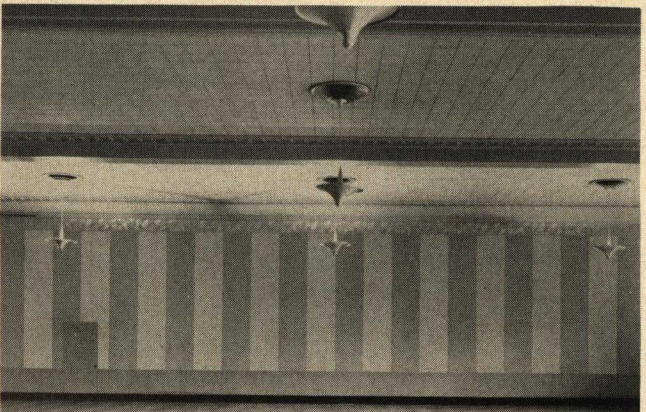
Fairhurst Unitfold folding walls are made of wood veneers built on cores of the best materials. Manufactured in separate, single units, these folding walls present the appearance of a solid wall because of their flush surfaces. They are finished to harmonize with any plan of interior decoration. The wide variety of finishes available is indicated by the typical installations shown in this catalog.

Each separate unit moves on sealed ball-bearing rollers on a guide flush with the floor to provide smooth, easy operation. Spring action prevents track-jumping by rollers.

A bronze self-adjusting guide at head mounted on a piston engaging in a metal track prevents displacement of the folding walls when they are moved into place.

All units of the folding wall are in engagement with both the floor and overhead guides until they are moved into position for folding. A locking device at top and bottom prevents moving or folding of doors except in the proper manner.





Unitfold Wall installed in 1938, Manchester Hotel, Middletown, Ohio. From Paul D. Galeese, Manager: "During the twenty years, we have found it necessary to have minor maintenance . . . on only two occasions . . . I visualize twenty more years of good service."

exclusive advantages

Unitfold folding walls are a superior type of folding wall and offer these advantages:

- automatically adjusts itself to misalignment of floor caused by settling of building
- units cannot be displaced
- *no hinges or bolts necessary;* no visible hardware
- can be locked with one key
- easy to operate, regardless of number of units
- minimum floor guide required
- folds in a minimum space
- not suspended but floor supported eliminating need for overhead reinforcement
- individual door units may be any width
- more adaptable in its uses and in layouts than most other types of folding closure
- any size folding wall may be opened and closed manually in less time and with greater precision than most other types with or without mechanical power.
- corners formed with 2⅛" radius, insuring square corners for all right angle folding walls.

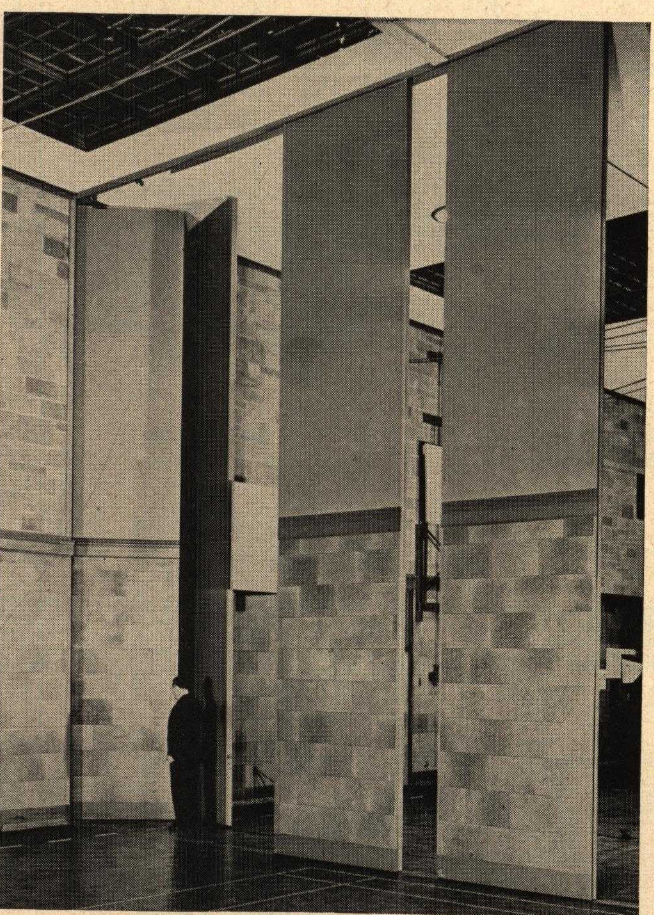
design

Fairhurst Unitfold folding walls may be installed with an odd or even number of units in any folding wall. They may be arranged to slide from either end or from center to both ends if the opening is exceptionally wide.

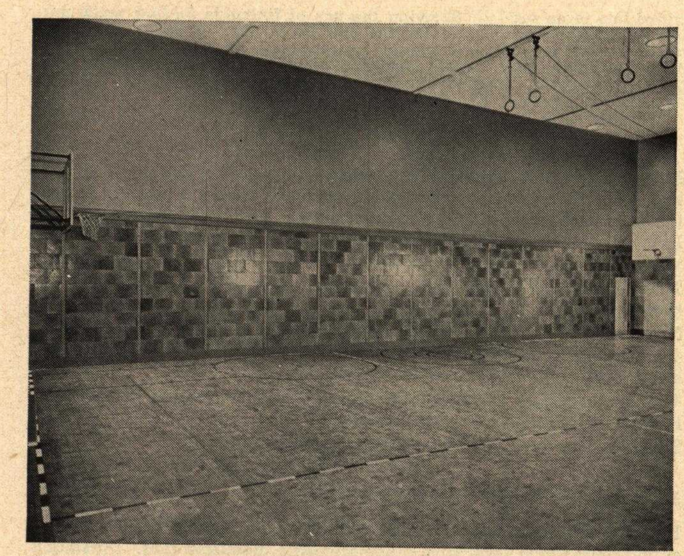
For educational buildings, these folding walls may be equipped with smooth, unbroken blackboard surfaces having no V-joints between units. Chalk rails are provided. A pass door may be provided in any unit as required.

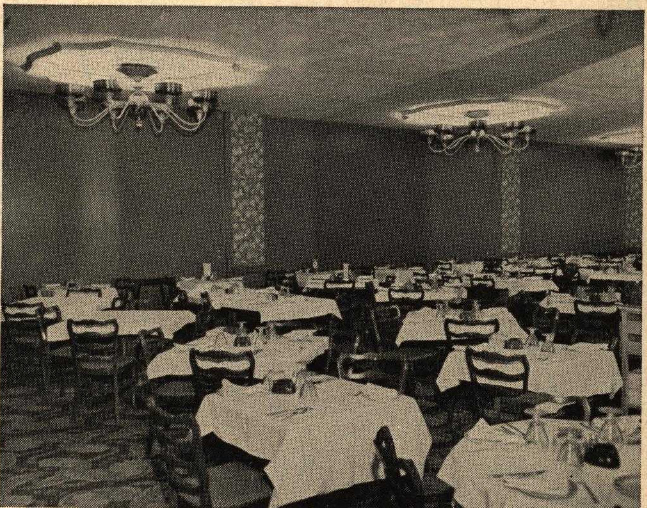
wide acceptance

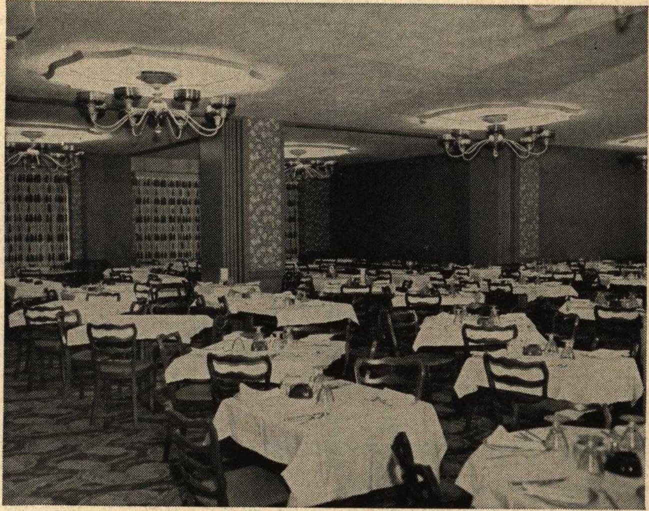
Unitfold and Unitslide Folding Walls have been perfected over the past 25 years until they are now widely recognized as the latest and most efficient answer to the problem of multiple space. As an indication of this acceptance and leadership in design and operation of folding walls, not only are **"Unitfold"** and **"Unitslide"** registered trademarks but the name **"Fairhurst"** has been similarly allowed, due to its *established association with specific and distinctive folding wall construction.*

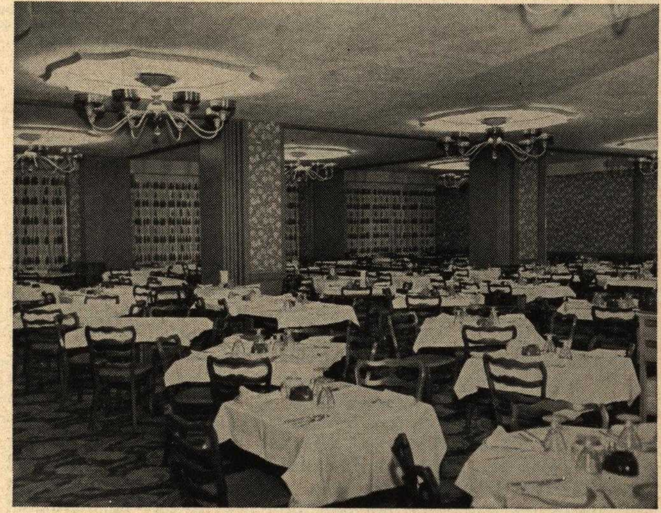


These units have the lower 10′ covered with cork squares; the upper 12′ are flush. Above, showing the pocket door open with units being folded.









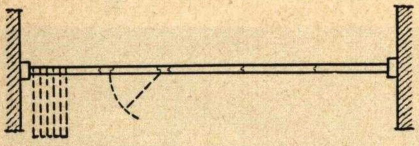
Gymnasium installation at Riverhead High School, Riverhead, N.Y., designed by Wm. I. LaFon, II, Architect. Fourteen units, each 5′ wide by 22′ high, may be folded into a shallow pocket, concealed by a pocket door.

The Brass Rail Restaurant,
100 Park Ave., New York, New York.
Architect, Louis Allen Abramson.

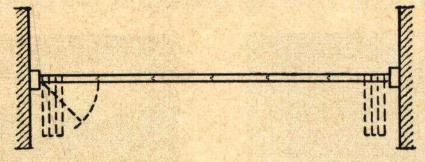
Five Unitfold walls enable the owner to have one to four dining rooms.

Typical Folding Wall Arrangements

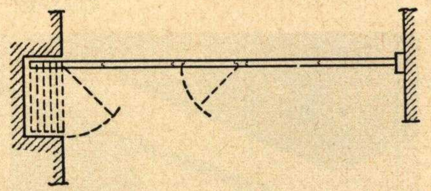
with Fairhurst "Unitfold"® folding walls



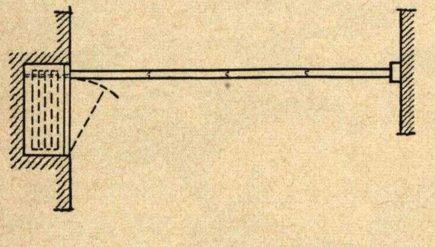
Fairhurst Unitfold Partition folded to either side with or without pass door.



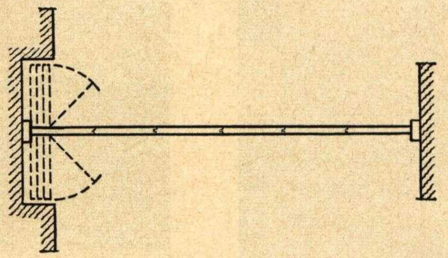
Showing the Fairhurst Unitfold Partition folded half to one side and half to opposite side. Pockets can also be used with this folding arrangement if desired.



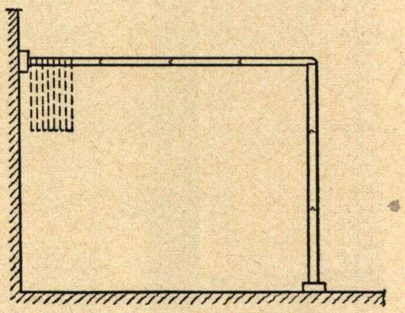
This layout is for a Fairhurst Unitfold Partition where a pocket is used without a pocket door. When partition is in use, recess forming pocket is exposed to view in one of the rooms.



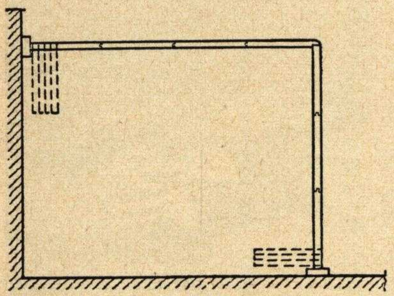
Similar to No. 3. Here pocket door is used to conceal pocket at all times.



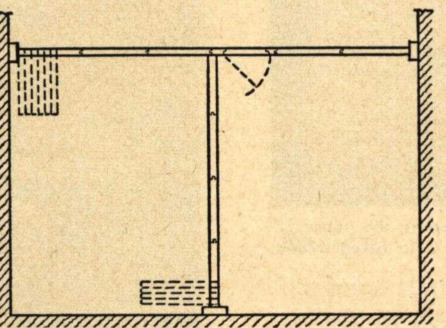
This plan affords a minimum depth of pocket. Pockets can be placed at both sides of the rooms if desired. This is an advantage where the wall thickness or general layout limits pocket depth.



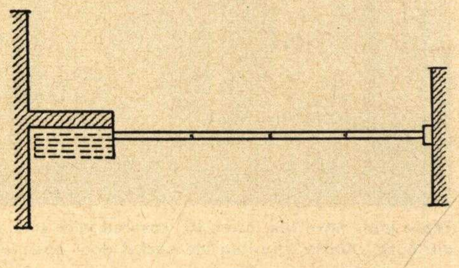
Here are shown two sets of partitions forming a right angle, permitting a corner of a large room to be used as a separate room. The layout can be continued to form several rooms on either or both sides of a large room. Units are shown all folded to one side.



Same as No. 6 with units of the folding walls folded to both walls. Pockets are optional and can be used with both arrangements.



Layout showing one room divided into three separate rooms. Pockets can be used and the units can be folded to three or two sides or all to one side, an exclusive feature with Fairhurst Unitfold folding walls.



Showing the use of Unitslide folding walls permitting the units to be stacked parallel with the opening. Pockets may be used and the units may be arranged to slide to one or both sides of the opening. For further information see pages six and seven.

standard specifications

specifications, type 1

The work under this item of the contract includes the furnishing of all labor and material necessary for the installation, complete, of the Unitfold folding walls indicated on the drawings.

The units shall be flush type construction finished 1¾" thick; cores to be of chestnut or white pine properly kiln dried and of frame construction covered with best quality veneers and all glued together with best quality waterproof glue. All rough openings to receive Unitfolds to be prepared by general contractor. Each unit to be equipped with two (2) single annular ball-bearing rollers at bottom; wheels not less than 1¾" diameter and ½" thick; one caster to be adjustable. Each unit to have hardened bronze V-shaped guide to slide in cold drawn steel track; upper guides to adjust themselves automatically; not less than 1¾" to any misalignment of floor or ceiling levels. Double head-locks to be attached to steel pistons and to engage in steel lugs attached to head at folding end.

A cold drawn steel guide to be set flush with floor with groove not more than ¼" wide and deep. The guide on pivotal caster to be cutter shaped so as to keep groove free and clean of any accumulation. The trailer caster must swing clear of floor when folding or unfolding. The end or master unit to pivot with off-set fulcrum hinges so as to compress all units when closing; this unit to have mortise lock and pull. Jambs at opposite end to have compression springs with not less than 1" compensation.

The folding walls must be rigid when drawn out, without bolts or hinges.

Each of the folding walls, when complete, shall form a rigid wall, being in perfect alignment and possible of operation with one hand, guaranteed as to material and operation.

The contractor is hereby notified that this construction is specified to set a standard quality for this item.

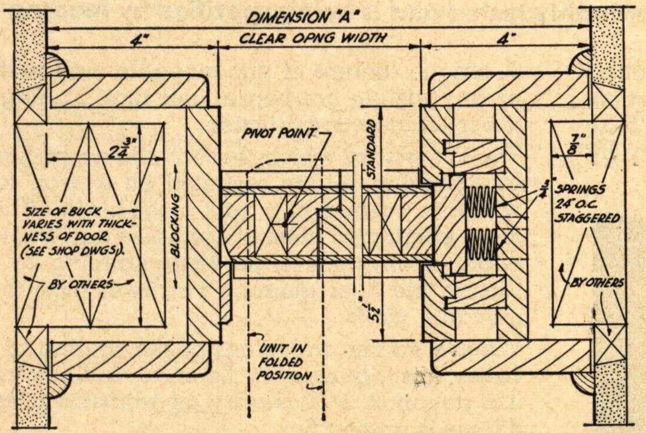
Specifications for Types 2 and 3 sent on request.

sound-resistant folding walls

Fairhurst Unitfold and Unitslide folding walls have obtained higher sound-retardance than any other movable closure made. Inasmuch as each sound problem has individual characteristics and factors we suggest that inquiries be sent to us and we will be glad to furnish details, data, and recommendations without charge.

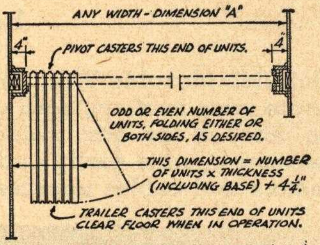
Folding partition patented, John T. Fairhurst, patents 1-934-299; 2-052-089; 2-299-573.

DETAILS OF "UNITFOLD" FOLDING WALL ®

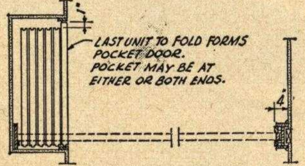

DIMENSION "A"
4"
CLEAR OPNG WIDTH
4"
PIVOT POINT
STANDARD
7/8"
2 3/4"
SIZE OF BUCK VARIES WITH THICKNESS OF DOOR (SEE SHOP DWGS).
BLOCKING
BY OTHERS
SPRINGS 24" O.C. STAGGERED
BY OTHERS
5 1/2"
UNIT IN FOLDED POSITION

OPENING JAMB ARRANGEMENT Nº 1.

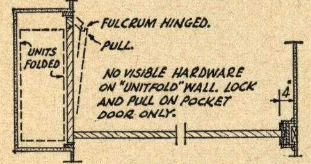
STANDARD SPRING CLOSING JAMB FOR PLAN ARRANGEMENTS Nºs 1-2-3.


ANY WIDTH - DIMENSION "A"
4"
PIVOT CASTERS THIS END OF UNITS.
4"
ODD OR EVEN NUMBER OF UNITS, FOLDING EITHER OR BOTH SIDES, AS DESIRED.
THIS DIMENSION = NUMBER OF UNITS × THICKNESS (INCLUDING BASE) + 4 1/4".
TRAILER CASTERS THIS END OF UNITS CLEAR FLOOR WHEN IN OPERATION.

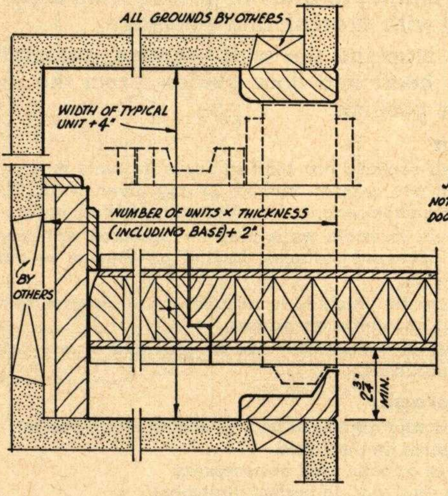
STANDARD PLAN ARRANGEMENT Nº 1.
FOLDING AGAINST WALL.

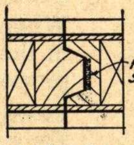

1"
LAST UNIT TO FOLD FORMS POCKET DOOR. POCKET MAY BE AT EITHER OR BOTH ENDS.
4"

STANDARD PLAN ARRANGEMENT Nº 2.
FOLDING IN RECESS, NO POCKET DOOR.


FULCRUM HINGED.
PULL.
UNITS FOLDED
NO VISIBLE HARDWARE ON "UNITFOLD" WALL. LOCK AND PULL ON POCKET DOOR ONLY.
4"

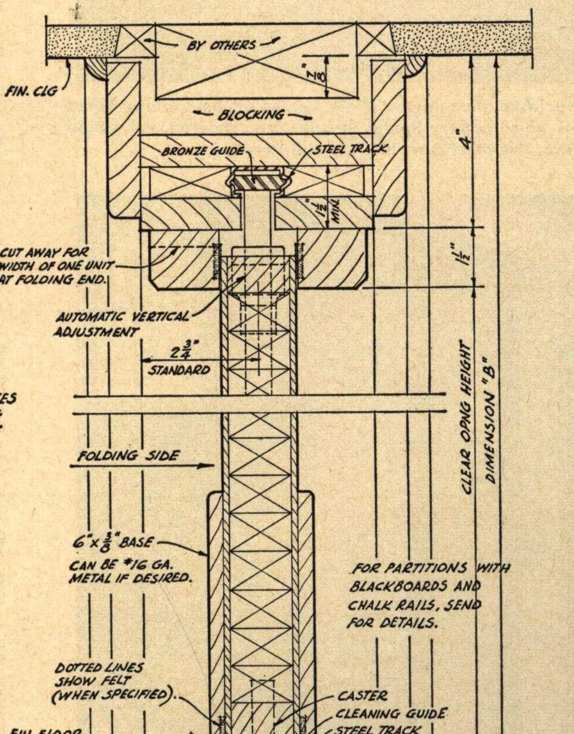
STANDARD PLAN ARRANGEMENT Nº 3.
FOLDING IN RECESS WITH SEPARATE POCKET DOOR.


ALL GROUNDS BY OTHERS
WIDTH OF TYPICAL UNIT + 4"
NUMBER OF UNITS × THICKNESS (INCLUDING BASE) + 2"
BY OTHERS
2 3/4" MIN.

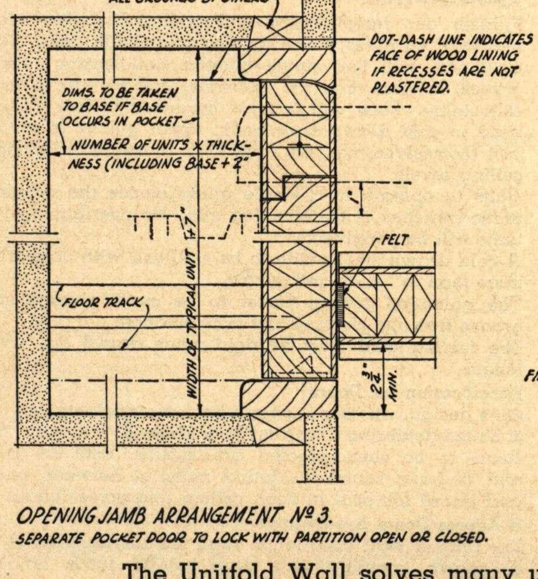

FELT - WHEN SPECIFIED.

JOINT BETWEEN UNITS.
NOTE: SHUTTLE OR COMMUNICATING DOOR CAN BE LOCATED IN ANY UNIT.

OPENING JAMB ARRANGEMENT Nº 2.
LAST UNIT FORMS POCKET DOOR AND CAN BE LOCKED.


BY OTHERS
FIN. CLG
7/8"
BLOCKING
BRONZE GUIDE
STEEL TRACK
4"
1/2" MIN.
CUT AWAY FOR WIDTH OF ONE UNIT AT FOLDING END.
1 1/2"
AUTOMATIC VERTICAL ADJUSTMENT
2 3/4"
STANDARD
CLEAR OPNG HEIGHT
DIMENSION "B"
FOLDING SIDE
6" × 3/8" BASE
CAN BE #16 GA. METAL IF DESIRED.
FOR PARTITIONS WITH BLACKBOARDS AND CHALK RAILS, SEND FOR DETAILS.
DOTTED LINES SHOW FELT (WHEN SPECIFIED).
CASTER
CLEANING GUIDE
STEEL TRACK
FIN. FLOOR
3/8"
OAK STRIP BY THIS CONTR.
WOOD STRIP FOR CEMENT FLOOR

STANDARD VERTICAL SECTION


ALL GROUNDS BY OTHERS
DOT-DASH LINE INDICATES FACE OF WOOD LINING IF RECESSES ARE NOT PLASTERED.
DIMS. TO BE TAKEN TO BASE IF BASE OCCURS IN POCKET
NUMBER OF UNITS × THICKNESS (INCLUDING BASE + 2"
1"
WIDTH OF TYPICAL UNIT + 7"
FELT
FLOOR TRACK
2 3/4" MIN.

OPENING JAMB ARRANGEMENT Nº 3.
SEPARATE POCKET DOOR TO LOCK WITH PARTITION OPEN OR CLOSED.

The Unitfold Wall solves many unusual conditions. Consult us concerning your special problems. Recommended thickness of Doors: 1¾" to 10'; 2" to 12'; 2¼" to 14'; 2½" to 16'; 2¾" to 18'; 3" to 20' high.

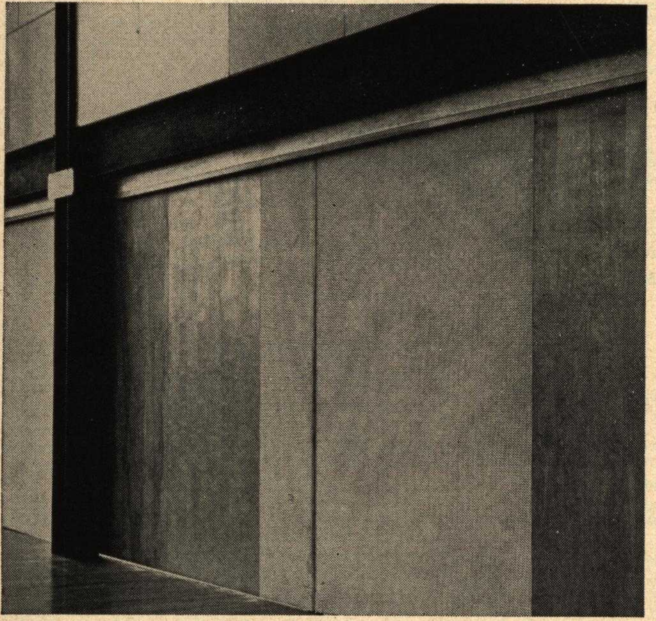
Fairhurst "Unitslide" folding walls

TRADEMARK

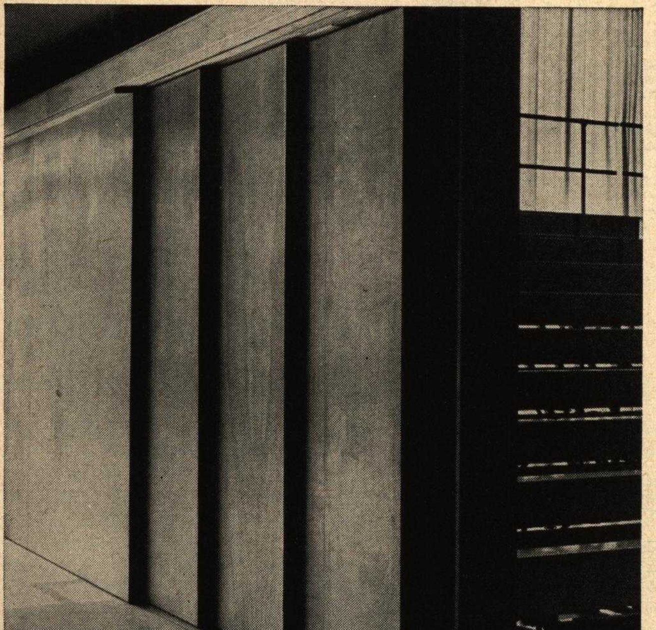
®

The latest idea in movable walls, by Fairhurst, The UnitSlide has been thoroughly tested and is being specified by leading architects.

The Fairhurst Unitslide Movable Wall for separating rooms into separate parts is of standard construction, wood veneer on cores of the best materials. These movable wall sections operate easily and quickly by hand making motors and cables unnecessary.



In this interesting installation in the Glass Center at the Corning Glass Works, the panels which appear lighter in color are veneered with sound deadening material, the other panels are wood vener.



Glass Center, Corning Glass Works, Corning, N.Y.
Architects, Harrison, Abramovitz and Abbe.

A unique feature of this movable wall is the absence of any visible hardware, and that no hinges or bolts are used in its construction.

The casters on which these walls move have annular ball bearing rollers mounted on a drop forged stem which is carried in a cast steel block. This arrangement eliminates most of the noise and friction of operation. Spring action prevents jumping by casters although the floor guide is narrower than that of other movable walls.

When weather conditions or the settling of a building cause misalignment in floors or ceilings, no mechanical attention is necessary as adjustment to those conditions is automatic.

The wall sections are not suspended. All weight is carried on the floor. The overhead action of a bronze slide running in a metal groove is as simple as is consistent with strength and efficiency.

When stacking the wall sections, automatic switches in the head and floor guides direct the units to their proper position.

design

The wall sections are built in separate units making it possible to have an odd or even number in any given wall. These units may slide from either end, or from the center to both ends.

In schools, movable walls may be furnished with smooth, unbroken slate blackboard surfaces, having no V-joints or other breaks between units.

Units may be obtained in any design, to harmonize with, or follow any plan of interior decoration.

A shuttle or wicket door can be provided in any unit for communicating purposes.

advantages

automatically adjusts to floor or ceiling misalignment
units cannot be displaced
no hinges or bolts used or necessary
forms a rigid wall in perfect alignment
can be operated with one hand, no matter what size
units operate on a single floor guide across the opening
no overlapping joints, all units in same vertical plane

Specification

Furnish and install complete Fairhurst Unitslide folding wall, as indicated on plans; to be divided into single units. Each unit to be equipped with two single annular ball-bearing rollers at bottom, wheels not less than 1¾" diameter and ½" thick; one caster to be adjustable. Each unit to have hardened bronze V-shaped guide to slide in cold drawn steel track; upper guides to automatically adjust themselves, not less than 1¾" to any misalignment of floor or ceiling levels.

Units to operate in a single guide across the opening with automatic switches at the stacking end. No overlapping joints between units will be permitted.

A cold drawn steel guide to be set flush with floor with groove not more than ¼" wide and deep.

The guide on pivotal caster to be cutter shaped so as to keep groove free and clean of any accumulation.

The folding wall must be rigid when drawn out, without bolts or hinges.

Specification for Doors

Give design, whether flush or panel, material, etc.

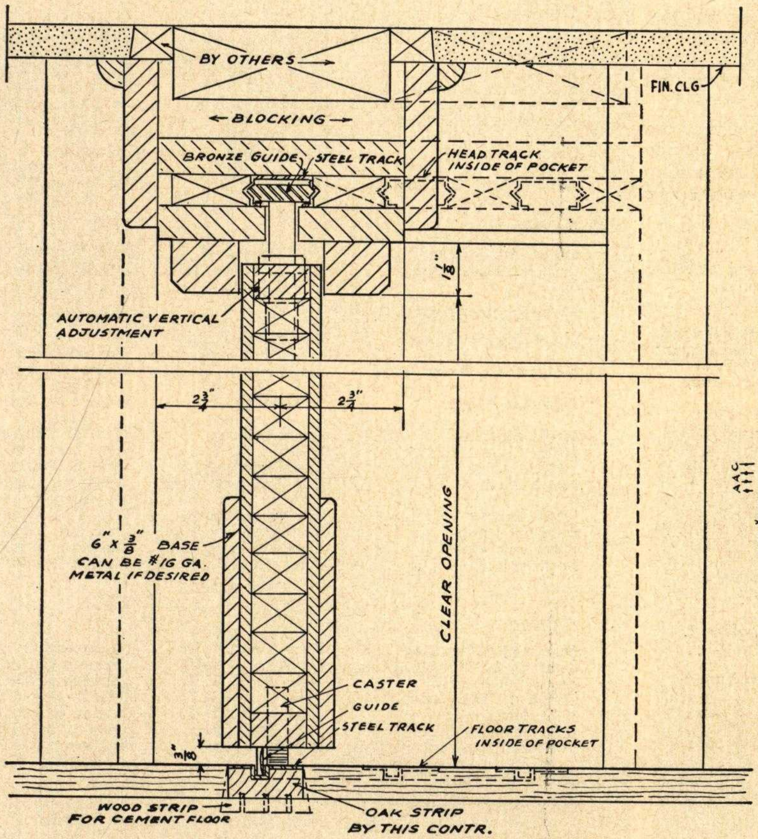
If Sound-Retarding Construction Is Desired

Doors to be sound-proofed construction, built as specified above and to have sound insulating material between panels. Provide and install felt seal at floor, ceiling and across edges of each door.

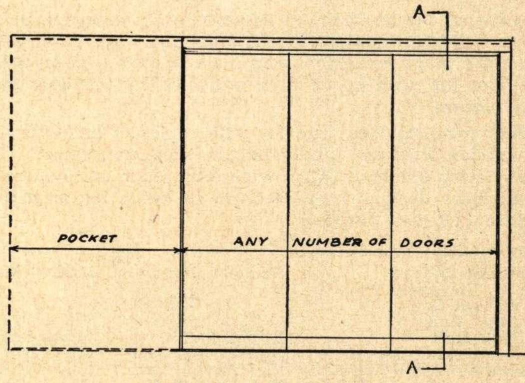
If Access Doors Are Desired

The folding wall installation shall include (number of) access doors as shown, complete with drop handle, latch, hinges and metal threshold, and to be constructed same as other doors in the partition. All workmanship, material and operation to be guaranteed by the manufacturer.

DETAILS OF "UNITSLIDE" FOLDING WALL ®

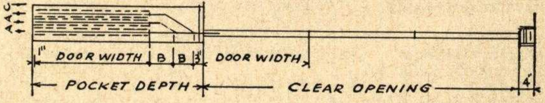

BY OTHERS
FIN. CLG
BLOCKING
BRONZE GUIDE
STEEL TRACK
HEAD TRACK INSIDE OF POCKET
1⅛"
AUTOMATIC VERTICAL ADJUSTMENT
2¾"
2¾"
CLEAR OPENING
6" x ⅜" BASE CAN BE #16 GA. METAL IF DESIRED
CASTER
GUIDE
STEEL TRACK
FLOOR TRACKS INSIDE OF POCKET
WOOD STRIP FOR CEMENT FLOOR
OAK STRIP BY THIS CONTR.

VERTICAL SECTION THRU OPENING AT Ⓐ


A
POCKET
ANY NUMBER OF DOORS
A

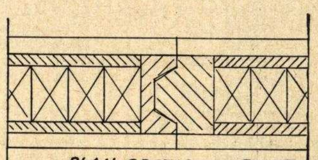
ELEVATION OF OPENING

NOTE: THREE UNIT PARTITION SHOWN. ANY NUMBER OF UNITS MAY BE USED TO SUIT WIDTH OF OPENING. UNITS MAY BE ARRANGED TO SLIDE ALL TO ONE SIDE OR HALF TO EACH SIDE

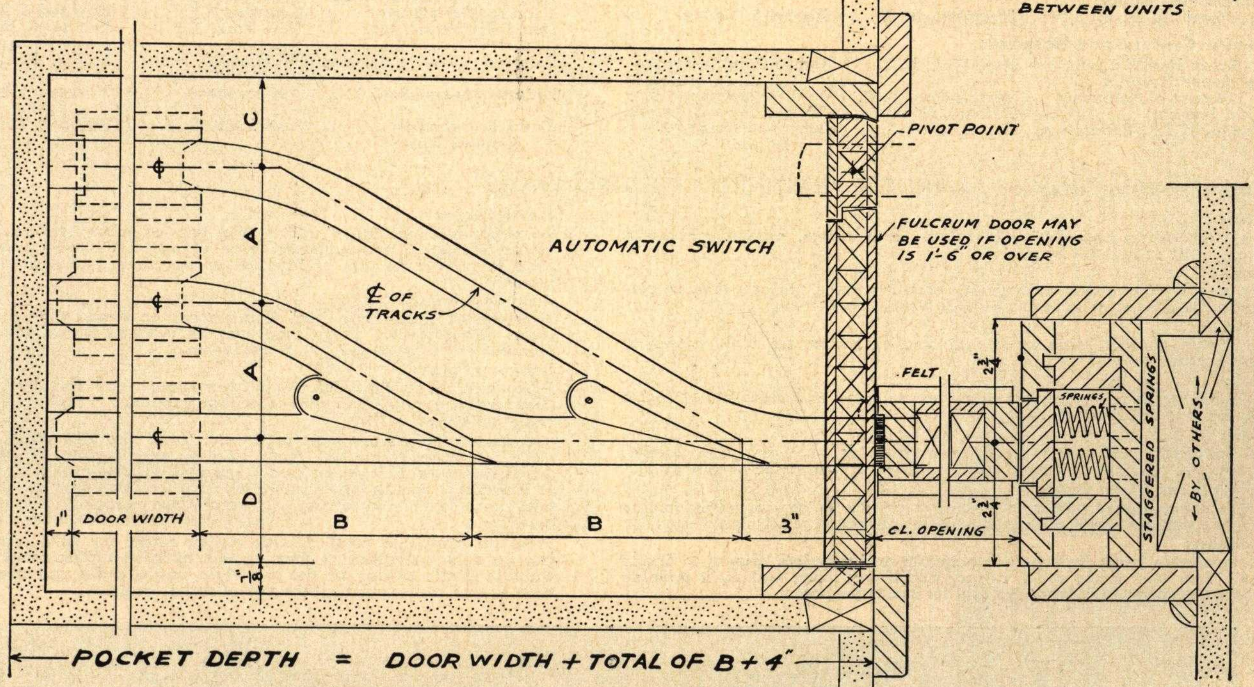

A
A
C
1"
DOOR WIDTH
B
B
3"
DOOR WIDTH
POCKET DEPTH
CLEAR OPENING
4"

		A	B	C	D
1¾"	TK. DOOR	3"	6"	2½"	2¾"
2"	TK. DOOR	3¼"	6½"	2½"	2¾"
2¼"	TK. DOOR	3½"	7"	2½"	3"
2½"	TK. DOOR	4"	8"	3"	3½"
3"	TK. DOOR	4½"	9"	3"	4"

POCKET SIZES



PLAN SECTION OF JOINT BETWEEN UNITS


C
A
A
D
1⅛"
PIVOT POINT
AUTOMATIC SWITCH
FULCRUM DOOR MAY BE USED IF OPENING IS 1'-6" OR OVER
℄ OF TRACKS
FELT
2¾"
2¾"
SPRINGS
STAGGERED SPRINGS
BY OTHERS
1"
DOOR WIDTH
B
B
3"
CL. OPENING
POCKET DEPTH = DOOR WIDTH + TOTAL OF B + 4"

FAIRHURST UNIT SLIDE PARTITION

Fairhurst . . . First Name in Folding Walls

TRADEMARK

Our list of customers is our best guarantee of quality and satisfaction

To list all the hundreds of educational, commercial, public and private buildings in which Fairhurst folding walls have been installed, and the many architects who have approved their designs, would require far more space than permitted by this catalog. A partial list follows.

More complete lists, together with copies of letters from users, are available, and will gladly be furnished on request. They provide convincing evidence of the wide recognition and general preference that these designs have received as being the most practical and efficient for their purposes.

Universities and Colleges

Amherst College	Amherst, Mass.	McKim, Mead & White
N. W. University, Willard Hall Abott Hall Scott Hall	Evanston, Ill.	James Gamble Rogers
Yale Graduate School	New Haven, Conn.	James Gamble Rogers
Payne Whitney Gymnasium	New Haven, Conn.	John Russell Pope
Vocational School, N.Y.U.	New York, N. Y.	Geo. B. Post & Sons
College of Liberal Arts & Music	Boston, Mass.	Cram & Ferguson
Boston University	Boston, Mass.	Cram & Ferguson
Princeton University	Princeton, N.J.	O'Connor & Kilham
Princeton University	Princeton, N.J.	Voorhees, Walker, Foley & Smith
Ferris Institute	Big Rapids, Mich.	Roger Allen
Wellesley College	Wellesley, Mass.	Coolidge, Shepley, Bullfinch & Abbott
Seminary of Christ the King	St. Bonaventure, N. Y.	Bro. Cajetan J. B. Baumann
Wharton School (Univ. of Pa.)	Philadelphia, Pa.	McKim, Meade & White

Schools

French School	22 E. 60 St., N.Y.C.	J. Andre Foulhoux
High School	Riverhead, N.Y.	Wm. I. LaFon II
David Starr Jordan Jr. H.S.	Palo Alto, Calif.	Birge Clark
Holy Rosary School	Jersey City, N.J.	Anthony De Pace
Parsippany Troy Hills Township School	Parsippany, N.J.	Peter De Gelleke
Hartsdale N.Y. School	Hartsdale, N.Y.	York & Sawyer
Canton High School	Canton, Mass.	Maginnis & Walsh
Our Lady Queen of Peace	Maywood, N.J.	T. John Folks
Grade School Add.	Oakdale, N.Y.	J. O. Ross
W. E. School	Nacogloches, Texas	H. B. Tucker
Infant Jesus Parish School	Port Jefferson, N. Y.	Thos. H. Irving
Mepham Memorial High School	Amityville, N. Y.	Wm. I. LaFon, 2nd
Camp Curtin Jr. H. S.	Harrisburg, Pa.	Lawrie & Green
New London H. S.	New London, Conn.	Sol Bernstein
Stevens School	Stamford, Conn.	E. M. O'Dwyer
Archbishop Walsh Memorial H. S.	Irvington, N. J.	Robert J. Reiley

Health Centers and Hospitals

Ft. Green Health Center	New York, N. Y.	James Gamble Rogers
Children's Hospital of District of Columbia	Washington, D. C.	York & Sawyer
State Hospital	Raleigh, N. C.	Walter Hook & Assocs.
Municipal T.B. Sanatorium	Peoria, Ill.	Emerson, Gregg, & Briggs

Churches

Madison Ave. M.E. Church	New York, N. Y.	Cram & Ferguson
First Baptist Church	Worcester, Mass.	Allen, Collens & Willis
Jewish Center	Kew Gardens, N. Y.	S. B. Baylinson
St. Francis Novitiate	Warwick, N.Y.	Robert Reiley
Baltimore Hebrew Cong.	Baltimore, Md.	Percival Goodman
Church-in-the-Gardens	Forest Hills, L.I., N.Y.	Fellheimer & Wagner
Temple Isaiah	Forest Hills, L.I., N.Y.	Schumann & Lichtenstein
St. Jude's R. C. Church	Bronx, N. Y.	Voorhees, Walker, Smith, & Smith

Residences

Finkel Residence	So. Orange, N. J.	D. J. Scrocco
Bronson Residence	East Orange, N. J.	Ian M. Horne

Hotels and Clubs

Hotel Caribe Hilton	San Juan, Porto Rico	Warner-Leeds
Hollywood Beach Hotel	Hollywood, Florida	Walter M. Ballard Corp.
Duquesne Club	Pittsburgh, Pa.	Walter M. Ballard Corp.
Hotel Statler	Boston, Mass.	Wm. B. Tabler
Hotel Statler	Buffalo, N. Y.	Wm. B. Tabler
Hotel Statler	Cleveland, Ohio	Wm. B. Tabler
Hotel Statler	Los Angeles, Calif.	Holabird, Root & Burgee
Hotel Statler	Hartford, Conn.	Wm. B. Tabler
Barclay Hotel	Philadelphia, Pa.	Lessman Interiors
Roosevelt Hotel	New Orleans, La.	Lessman Interiors
Roosevelt Hotel	New York, N. Y.	Warner-Leeds

Offices

Bachmann-Uxbridge, Inc.	New York, N. Y.	Beeston-Stott-Paterson
Commercial Solvents Corp.	New York, N. Y.	Kenneth L. Ripnen
Riegel Paper Co.	New York, N. Y.	Kenneth L. Ripnen
General Telephone Co.	New York, N. Y.	Geo. B. Post & Son
J. M. Mathes Inc.	New York, N. Y.	Carson & Lundin
J. P. Stevens Co.	New York, N. Y.	Beeston-Stott-Paterson
Federal Reserve Bank Bldg.	Boston, Mass.	Harbeson, Hough, Livingston & Larson

Miscellaneous

Kingsbridge Housing Project	New York, N. Y.	Skidmore-Owings-Merrill
Hutzler Department Store	Baltimore, Md.	Eleanor Lemaire
General Motors Corp.	Wilmington, Del.	Albert Kahn
Brown Instrument Co.	Philadelphia, Pa.	United Engineers & Constructures, Inc.
A. B. Dick Building	Miles, Illinois	The Austin Co.
Add'n to Lighthouse Bldg.	New York, N. Y.	Clay, Potter & Coulter
Corning Glass Center	Corning, N.Y.	Harrison & Abramowitz
Dun & Bradstreet, Inc.	New York, N.Y.	Reinhard, Hofmeister & Walquist
Selected Risks Indemnity Co.	Branchville, N. J.	Paul L. Krausche
Federal Reserve Bank Bldg.	Boston, Mass.	Harbeson, Hough, Livingston, & Larson
Frank E. Campbell Funeral Parlor	New York, N. Y.	Ralph E. Leff

Some popular uses of FAIRHURST "UNITFOLD"® FOLDING WALLS

Schools

For subdividing assembly rooms into class rooms, with blackboards, chalk rails, or bulletin boards.

Churches

For subdividing men's or women's club rooms or parlors, also to convert large assembly halls into Sunday School class rooms.

Y.M.C.A.

To divide at will large halls into smaller rooms, for class rooms or club rooms.

Clubs

To form committee rooms, or game rooms, also to divide dining rooms into private dining rooms.

Hotels

To subdivide ball rooms or dining rooms, for small or large parties, making it possible to have building 100% in use most of the time.

Hospitals and Health Centers

To subdivide large offices into smaller private offices, or when folded, larger room can be used for meetings, lecture rooms, or clinics.

Residences

To subdivide large bedrooms into two to accommodate guests, to divide main floor into dining room, library and living room, making it possible to convert rooms into one large hall for social purposes.

Funeral Parlors

To subdivide one large parlor into two or more smaller parlors or family rooms; to accommodate large or small funerals, making it possible to hold a number of funerals at one time or accommodate large funerals.

Apartment Houses

To close off kitchenette from living room or divide dining and living room. When folded, large room can be used for social affairs and to increase or decrease number of bedrooms.

Department Stores

To provide rooms for sales meetings or furnish any size room for ladies' club meetings, and employees recreation groups.

Office Buildings

By eliminating permanent walls and using Unitfold Walls, any size office can be provided for tenant as they may require; or would be an advantage to attorneys, making it possible for them to hold a Directors' or Company meeting by increasing the size of office quickly, saving additional expense of renting additional office or room.

Restaurants

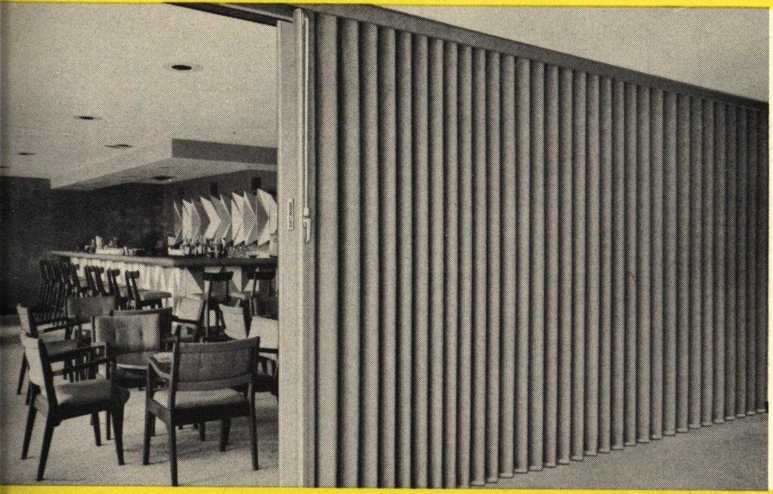
Ideal for providing small private dining rooms for small parties. This can be done by using the four corners of large dining room, providing Unitfold Walls folding at the two right angle walls and opened up to meet at one corner, without the use of corner posts.

John T. Fairhurst Company, Inc.

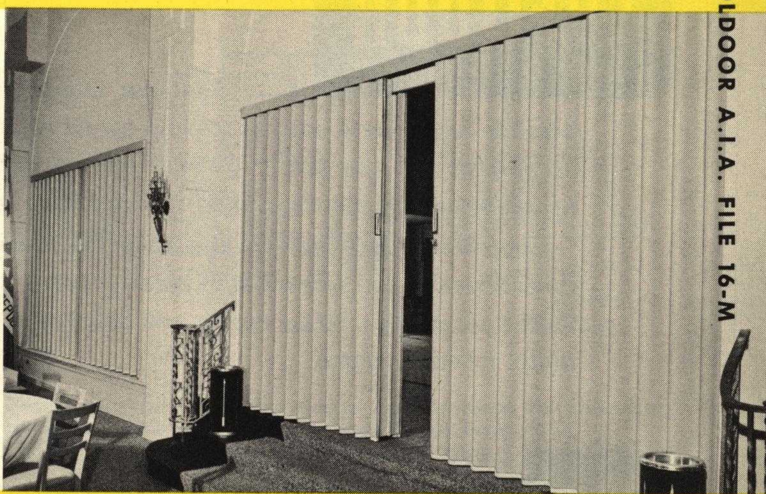
45 W. 45 Street
New York 36, N.Y.

Telephone COlumbus 5-8595

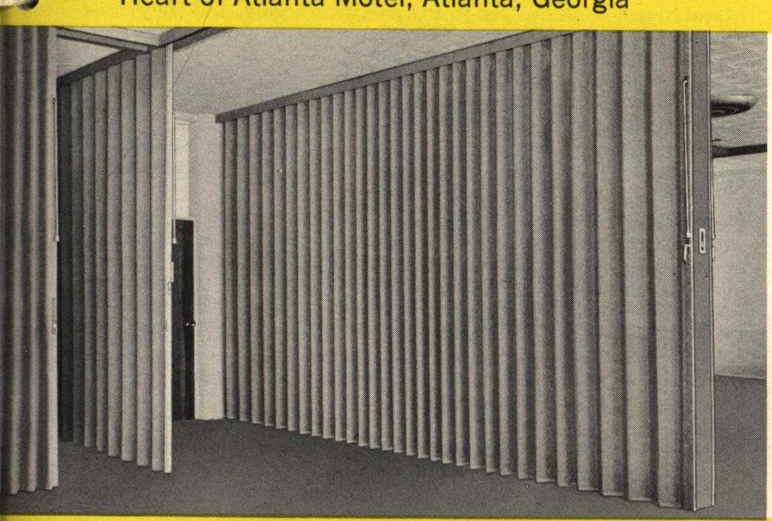
New Partition Separates Sound-and-Space



Heart of Atlanta Motel, Atlanta, Georgia



Hotel Monica, Santa Monica, California



Ehret, Inc. (Mortuary), San Juan, Puerto Rico

Biltmore Hotel Courts, Nashville, Tennessee

Crossroad Lanes (Bowling Alley), Peoria, Illinois

River Oaks Baptist Church, Houston, Texas

DUAL SOUND-RETARDANT FOLDOOR PARTITION

HOLCOMB & HOKE
FOLDOOR
FOLDING PARTITIONS AND DOORS
®

HOLCOMB & HOKE
FOLDOOR
FOLDING PARTITIONS AND DOORS ®

DUAL SOUND-RETARDANT FOLDOOR PARTITION

The new Dual Sound-Retardant Foldoor Partition now makes it possible to separate both space-and-sound with a flexible folding partition. Now the convenience and beauty of the fabric covered folding door are available in a general purpose, improved sound-retardant partition that operates from overhead tracks only.

Laboratory tests show maximum sound insulation over a wide range. This partition has proved its effectiveness in a number of greatly varied applications. Some of these installations are shown on the cover page: Hotel dining and ballrooms, mortuaries, bowling alley league rooms, churches, motel meeting rooms.

HOLCOMB & HOKE
FOLDOOR
FOLDING PARTITIONS AND DOORS ®

SPECIFICATIONS

GENERAL

Folding partition as shown on plans shall be Dual Sound-Retardant Foldoor as furnished by an authorized representative of Holcomb & Hoke Mfg. Co., Inc., Indianapolis, Indiana, or equal as approved by architect prior to bidding date. The partition shall consist of two Multi-V frames mounted on parallel overhead tracks, and connected at the leading edge to operate as a single unit.

Overhead tracks only shall be used. Tracks to be not less than 16-gauge steel, each having two U-shaped channels, providing high strength, free tracking of trolley wheels and minimum rolling friction. All hinges throughout the partition shall be not less than 16-gauge zinc coated steel with a minimum net dimension at pivot point of 1¾″. Exterior covering of partition shall be flame-resistant, plastic coated, supported fabric as described herein.

Sound Insulation—Partition shall be equipped with both a special sound-retardant liner and a layer of sound absorbent material on each parallel frame to provide maximum reduction of sound transmission. The sound insulating material shall be flame-retarding and must not support combustion. Sound retarding components shall include a baffle between frames at head, sweep strips to engage floor, and sound-retardant jamb mouldings.

DOOR COVERINGS

Construction— Fiberglas fabric with virgin vinyl coating, finished fabric weighing 30 ounces per lineal yard, 54″ wide. Underwriters Laboratories approved.

—or alternate—

Cotton fabric with virgin vinyl coating, finished fabric weighing 27 ounces per lineal yard, 54″ wide.

Characteristics— Coating shall be compounded and applied to backing so as to give finished fabric long life, flexibility and resistance to cold, fading, discoloration, crazing or cracking.

Flame Resistance—Fabrics and sound insulation shall comply with specifications and tests of the following agencies:

a. New York Board of Standards and Appeals
b. Fire Department, City of Boston
c. City of Los Angeles

TRACK

The track shall be of steel no less than 16-gauge, and shall have two U-shaped sections in which the wheels roll. All tracks shall be semi-concealed by cornice or cover plates. Trolleys shall be ball bearing type with Nylon tread.

HINGES

Metal hinges shall be used in the partition frame, and they must not be less than 16-gauge No. 4 tempered, zinc-coated, corrosion-resistant steel. They shall not be less than 2⅜″ in height throughout the length of the hinge. The net height at center of hinge where trolley pins support partition frame shall not be less than 75% of the maximum hinge height.

PARTITION FRAMES

Partitions less than 7′ 0″ in height shall have a row of hinges at top and bottom of frames. Frames 7′ 0″ and higher shall have a horizontal row of hinge plates approximately every 48 inches. Hinges shall be held in a horizontal position by being welded to 3⁄16″ zinc coated, corrosion-resistant steel rods which extend full height of partition frame. This assures true pantograph action throughout.

STACKING SPACE

When partition is compressed the stacking space shall not measure more than 2½″ per foot of opening plus width of end posts. The partition when stacked shall not measure more than 13¼″ in profile width.

HARDWARE

Lead post assembly and matching jamb assembly shall contain factory assembled draw latch. Handles, catches or locks shall be satin aluminum baked-on finish, or satin chrome plated. Pendant pulls, to assist in moving partition, shall be attached to each side of lead post and rolling post. Tie backs shall be provided to keep the stacked partition compressed.

WARRANTY

Foldoor Dual Sound-Retardant Partitions shall be fully guaranteed for one year against defects of faulty material and workmanship.

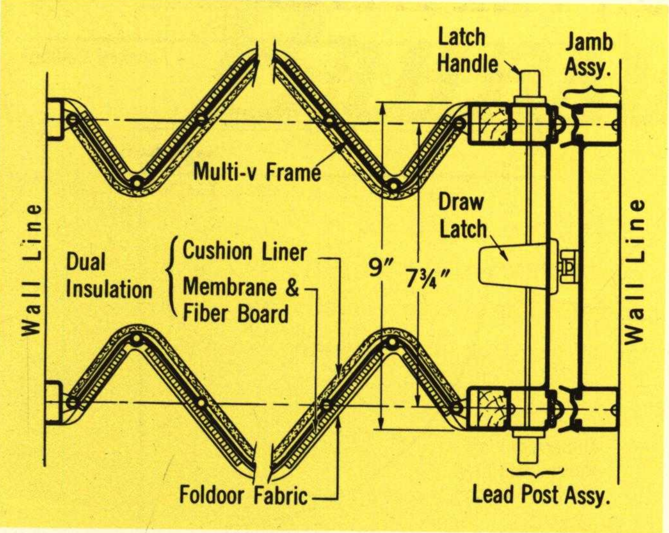
HOLCOMB & HOKE
FOLDOOR
FOLDING PARTITIONS AND DOORS ®

PARTITION SIZES

Maximum Height	Maximum Width
to 11′-11⅞″	35′-4″
13′-11⅞″	30′-9″
20′-0″	25′-5½″

Partitions may be used in pairs or joined together for wider openings.

CONSTRUCTION DETAILS



The Dual Sound-Retardant Foldoor Partition consists of two Multi-V Foldoor frames joined by a single lead post assembly so as to operate as one unit. Each frame is covered on inside and outside with flame-retardant sound insulating materials. On the inside is a heavy cushion-type liner to absorb high frequency sounds; on the outside, a continuous membrane with panels of fiber board to retard low frequency sounds. Supported vinyl fabric covers the complete assembly of insulated frames and posts.

The installed weight of the partition is approximately 5.25 pounds per square foot. About half this weight represents the four dense layers of complementary insulation which provides maximum reduction of sound transmission.

Two special sound-retardant male and female mouldings are used to seal lead post and jamb assemblies.

The partition is closed and latched by means of a draw latch which is operated from either side by short lever-type handles. Key-lock handles are available. Pendant pulls are attached to assist in moving the partition.

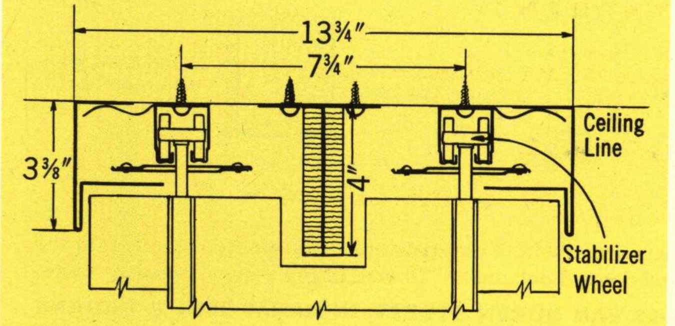
Installation is simplified by mounting each insulated frame separately, then joining them with lead post assembly.

The Dual Sound-Retardant Partition is used with straight track only. Flexibility of use can be added by installation of a pivot switch.

Foot bolts are available for field installation to anchor long or intersecting partitions to floor.

For details of Multi-V frame construction see the Foldoor Catalog, form No. 7211 (A.I.A. File 16-M). This catalog can be found in Sweet's Architectural File 16e/HO.

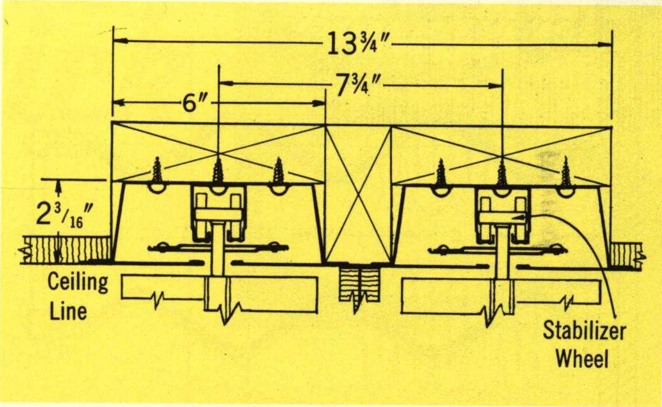
CONCEALED SURFACE TRACK



Tracks are mounted directly to header or ceiling. Cornice, which is retained by a series of spring clips, conceals tracks and pantographs while giving a finished ceiling line.

Horizontal stabilizer wheels, in lead post trolley assemblies, bear against side walls of the tracks, providing smooth, parallel tracking.

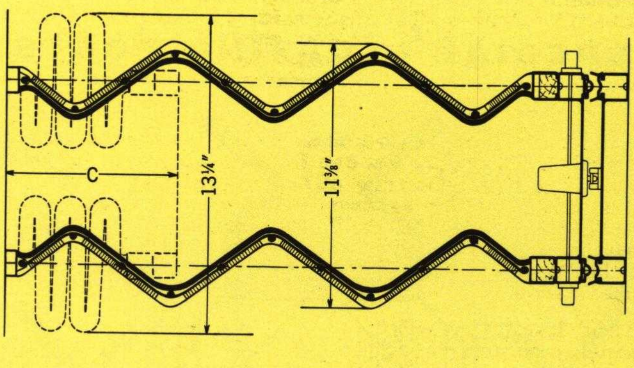
RECESSED TRACK



Recess pans and covering plates are furnished for installing tracks in a concealed position above ceiling level.

A 4″ baffle is suspended between the frames to retard the passage of sound over the partition on both recessed and concealed surface track installations. Baffle is covered with fabric to match partition.

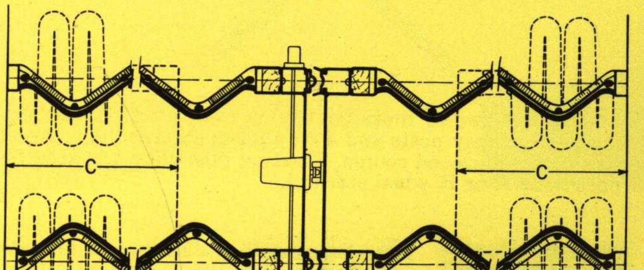
SINGLE PARTITION



C = 2½″ per foot of opening width plus 3¼″*

Note compactness of profile and stack. The Dual Sound-Retardant Foldoor Partition is also available with a rolling post to allow opening from either end and stacking against either wall. Lead post and jamb assemblies are used in place of fixed jamb posts. Stack space with a rolling post measures 2½″ per foot of opening width plus 6⅝″.

PAIR OF PARTITIONS

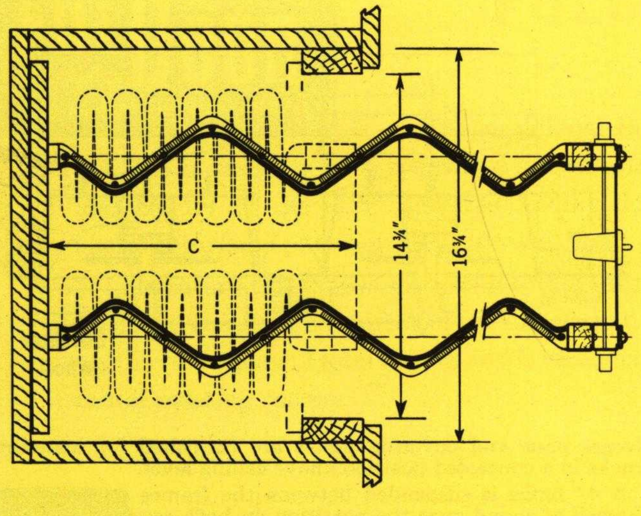


C = 2½″ per foot of half opening width plus 3¼″*

This arrangement allows access to the center of the enclosed area and divides the stacking space into two stacks.

*On partitions 14′ and higher add 1⅛″ for reinforced jamb.

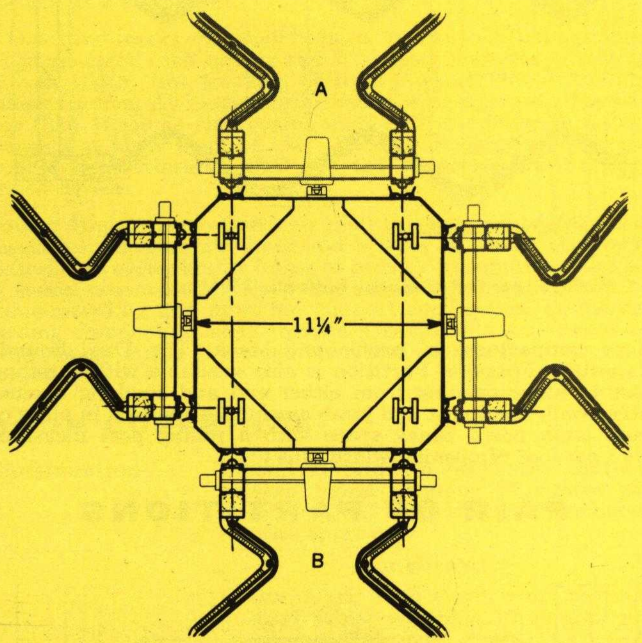
SLIDING JAMB IN POCKET



C=2½" per foot of opening width plus 4". On partitions 14' and higher add 1⅛" for reinforced jamb.

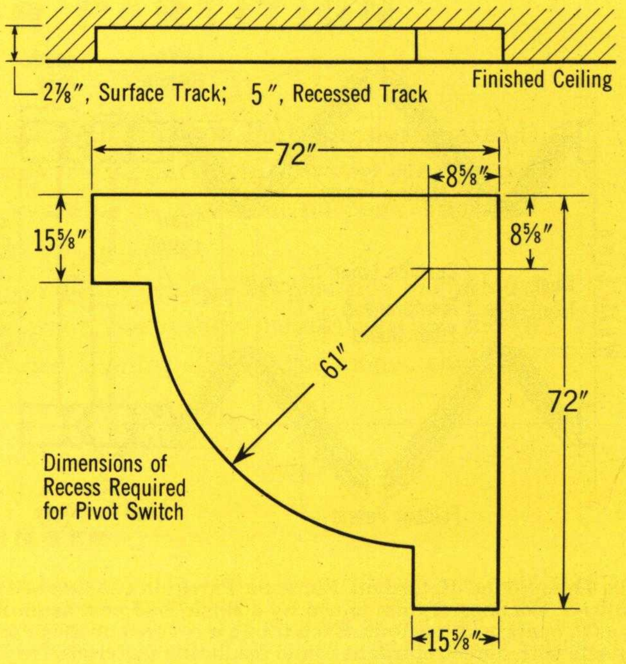
When partition is to stack in wall pocket the fixed jambs are attached to a sliding jamb board which is covered to match the partition.

SPECIAL FLOATING POSTS



For use where two or more partitions meet to divide an area, 2-way posts, 3-way posts and 4-way posts are available. Access is easy to the enclosed rooms. Floating post shown is attached to partitions A or B when stacked.

PIVOT SWITCH


2⅞", Surface Track; 5", Recessed Track
Finished Ceiling
72"
8⅝"
15⅝"
8⅝"
61"
72"
Dimensions of Recess Required for Pivot Switch
15⅝"

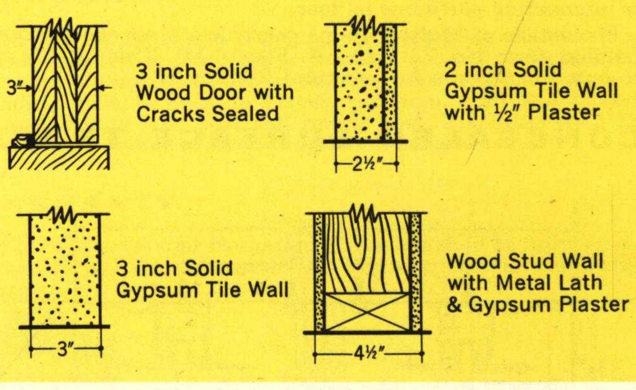
Pivot switch is available for stacking Dual Sound-Retardant FOLDOOR Partitions along wall, and for other right angle switching applications. A partition used with the pivot switch must have a rolling post.

ELECTRICAL OPERATOR

For large partitions or for convenience, an electrical motor-driven operator is available. Smooth, positive operation is assured with aircraft-quality cable mechanism. Self-contained drive unit can be conveniently positioned for servicing.

SOUND RETARDING VALUES

The Dual Sound-Retardant FOLDOOR with bottom sweep strips and sound baffle at header is equivalent in sound reduction to the following types of construction materials:


3"
3 inch Solid Wood Door with Cracks Sealed
2 inch Solid Gypsum Tile Wall with ½" Plaster
2½"
3 inch Solid Gypsum Tile Wall
3"
Wood Stud Wall with Metal Lath & Gypsum Plaster
4½"

HOLCOMB & HOKE
FOLDOOR
FOLDING PARTITIONS AND DOORS ®

FOLDOOR installing distributors are in all principal markets. Your distributor will gladly demonstrate the complete FOLDOOR line of folding partitions and doors. Look under "Doors" in the Yellow Pages, or write:

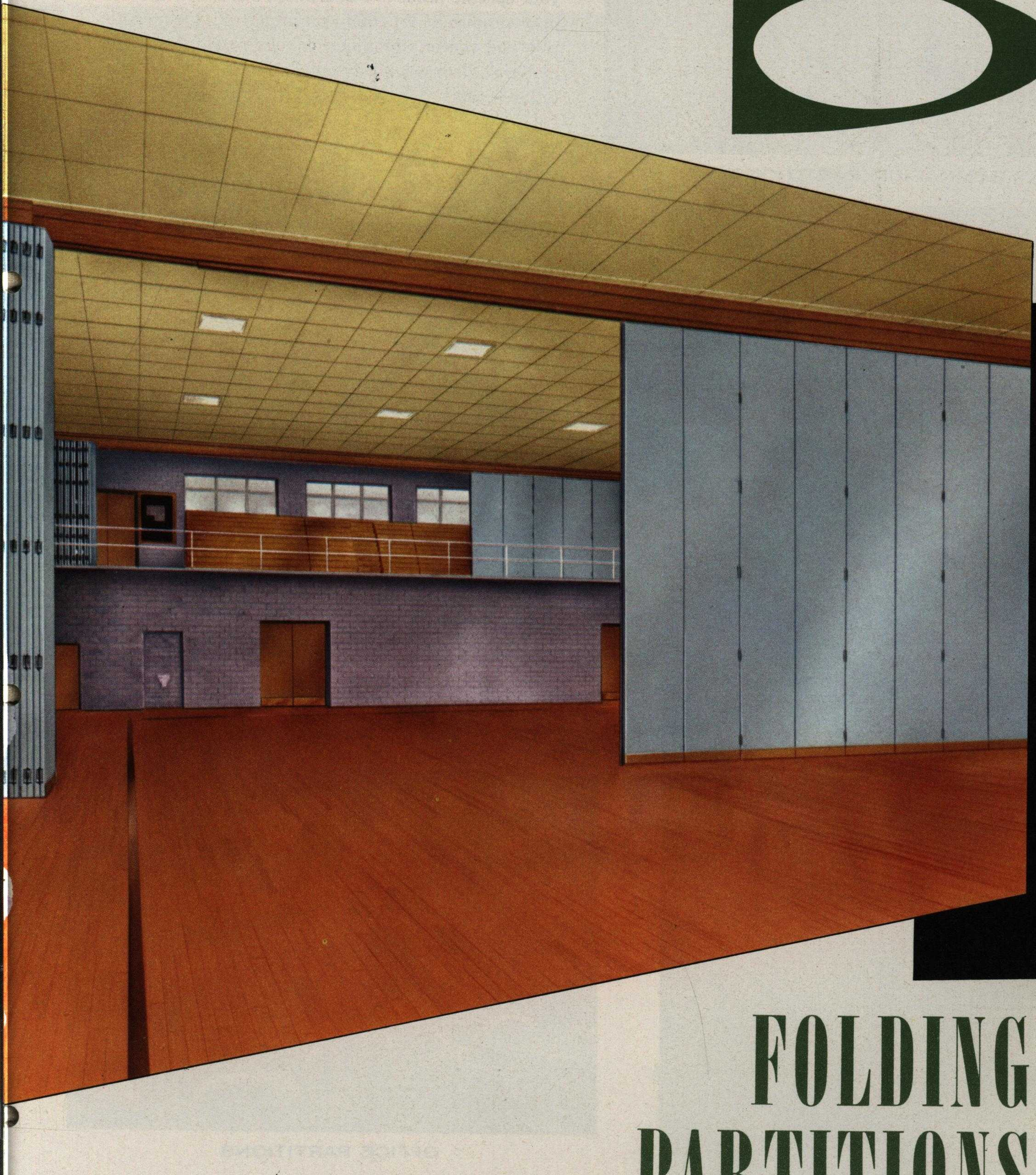
HOLCOMB & HOKE MFG. CO., INC. • 1545 VAN BUREN STREET, INDIANAPOLIS 7, INDIANA
In Canada: FOLDOOR of Canada, Montreal 26, Quebec

LITHO IN U.S.A.

A.I.A. File No. 35-H-6

22d
Hor

Brunswick



FOLDING PARTITIONS

GYMNASIUM PARTITIONS

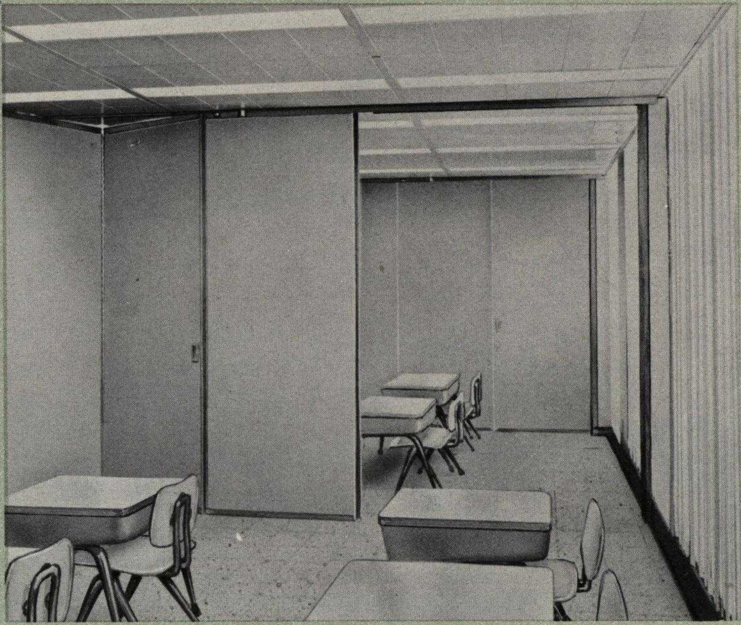
PARTITIONS TO SERVE EVERY NEED

Whether you want to turn one gymnasium into three; divide classroom space, cafeterias or multi-purpose rooms or solve that "special problem" . . . there is a Brunswick audio-visual partition custom designed to your specific needs . . . Brunswick Partitions are not mass produced! Whether you prefer roll duck, exotic plywood veneer, aluminum or *color-vinyl* facing material, Brunswick's five models offer you a full selection.

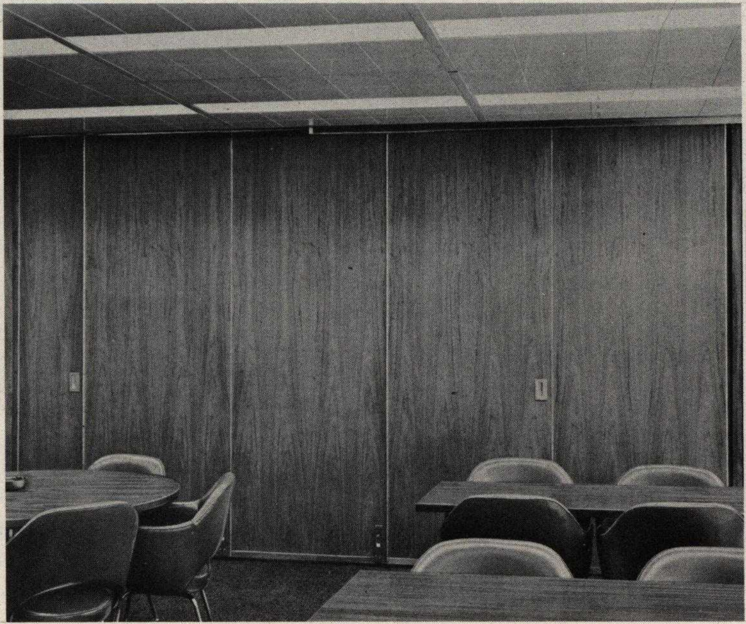
FIVE TYPES TO CHOOSE FROM

Fully automatic electric partitions provide the ultimate in operational ease and flexibility. A turn of a key closes the partition to form a wall dividing the gymnasium into two completely separate facilities. For exhibition use it opens to provide a single large gymnasium.

And for smaller areas such as classrooms, banquet halls, multi-purpose rooms etc., Brunswick offers a full range of mechanical and manually operated partitions. These units—the 200, 300, 400 and 500 series models—all offer unique solutions to specific partitioning problems.



CLASSROOM PARTITIONS

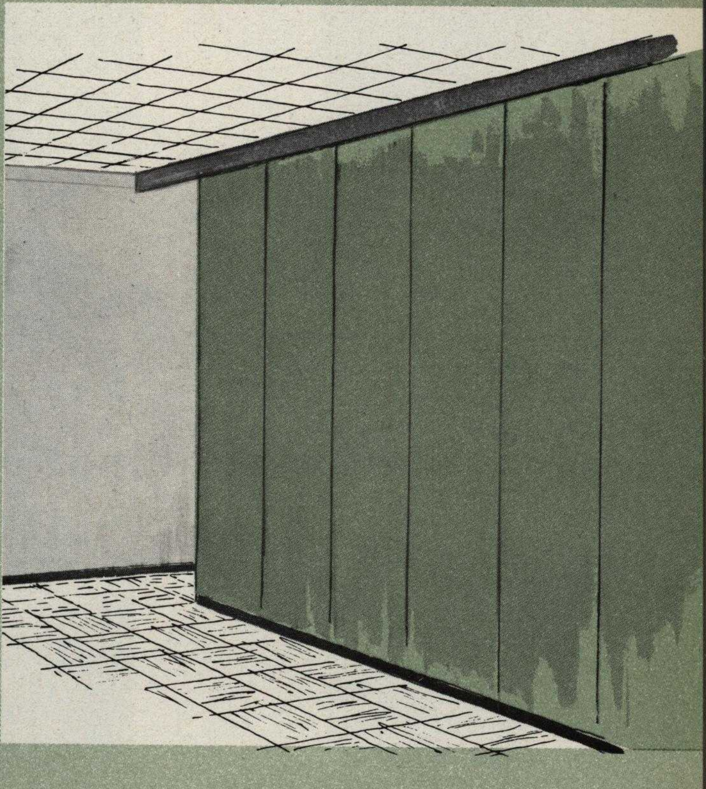


OFFICE PARTITIONS

Brunswick INTRODUCES COLOR-VINYL

QUALITY DESIGNED FOLDING PARTITIONS

CREATE THE ENVIRONMENT FOR LEARNING WITH Brunswick VINYL-FACED PARTITIONS...NOW AVAILABLE IN NEW "COLORS FOR LEARNING"

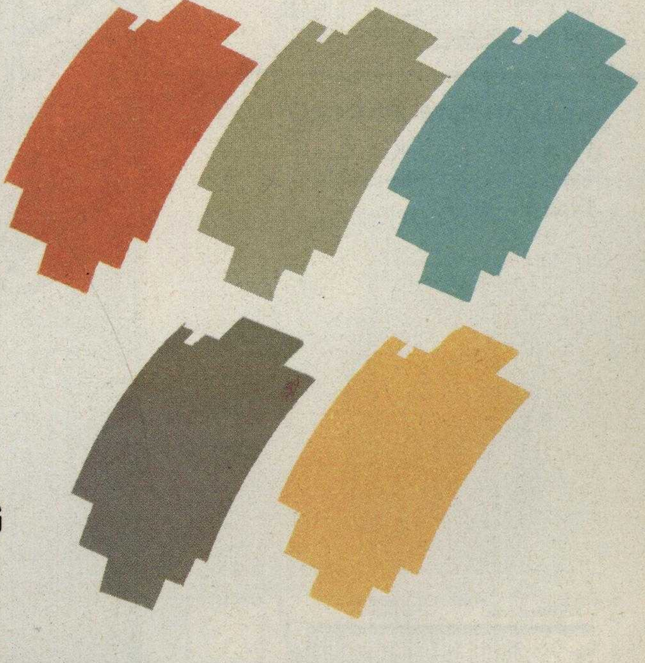


EDUCATORS . . ARCHITECTS . . PSYCHOLOGISTS . .

KNOW COLOR IS IMPORTANT IN TODAY'S SCHOOLS

Proper color—properly used—is an acknowledged vital factor in creating a good learning environment. The proper color of gymnasium and multipurpose folding partitions is an integrating factor upon the whole environment—ties together the various colors of materials.

Children are naturally colorful. They respond to a bright, cheerful environment. They like the unrestricted qualities of the colors of nature brought indoors. They react to the moods created by proper color planned activity, conference and study areas. Brunswick *color-vinyl* partitions offer you all of these important color environment advantages—and more! Under the facing you will find the same exacting standards of quality design and construction that have made Brunswick the choice for more than a quarter of a century.



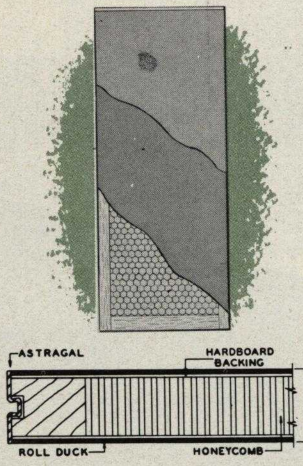
COLORS FOR LEARNING

FOUR TYPES OF FACING MATERIALS

FABRIC FACING

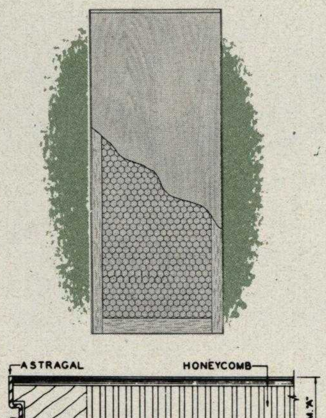
(ROLL DUCK OR *COLOR-VINYL*)

Type 11—1¾″ thick
Type 21—2¼″ thick
Type 31—3″ thick


ASTRAGAL
HARDBOARD BACKING
DIM. "A"
ROLL DUCK
HONEYCOMB

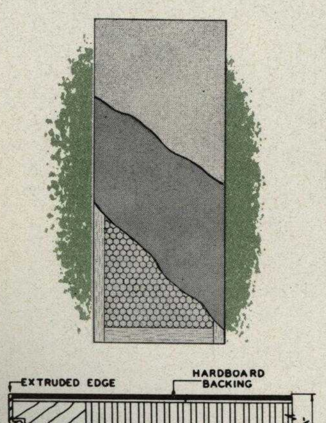
PLYWOOD FACING

Type 12—1¾″ thick
Type 22—2¼″ thick
Type 32—3″ thick


ASTRAGAL
HONEYCOMB
DIM. "A"
PLYWOOD PANELS

ALUMINUM FACING

Type 10—1¾″ thick
Type 20—2¼″ thick
Type 30—3″ thick

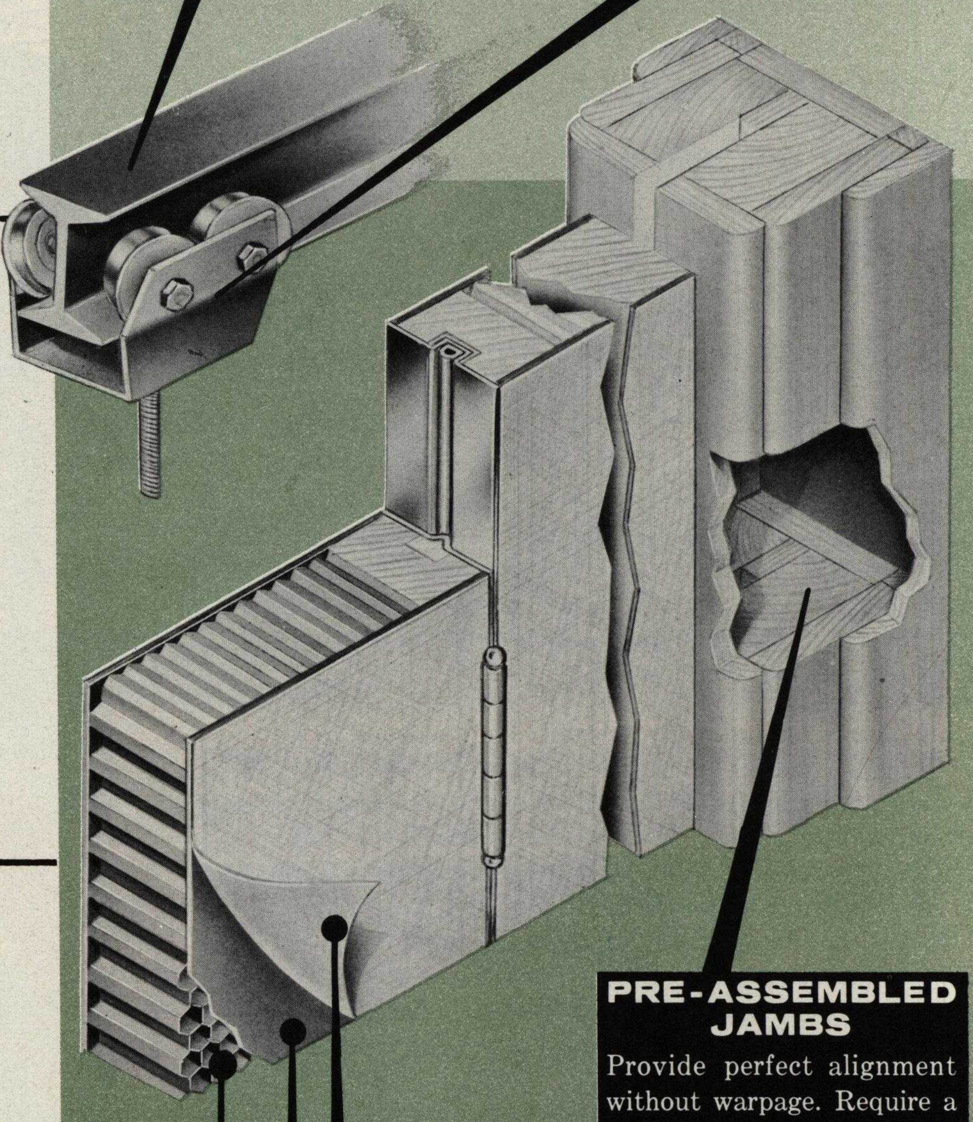

EXTRUDED EDGE
HARDBOARD BACKING
DIM. "A"
ALUMINUM PANELS
HONEYCOMB

I BEAM TRACK

Balanced I beam construction and maximum load-bearing capacity add up to maximum service and safety . . . minimum maintenance.

"Y" YOKE TROLLEYS

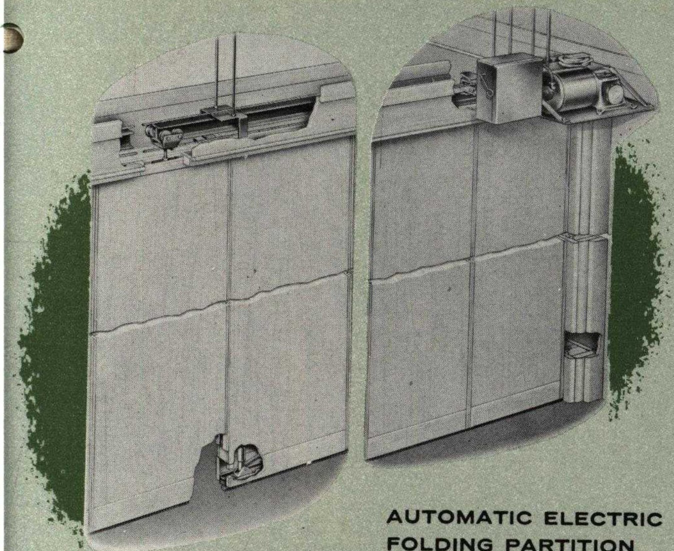
Designed for proper concentration of load. Bearings provide frictionless operation.



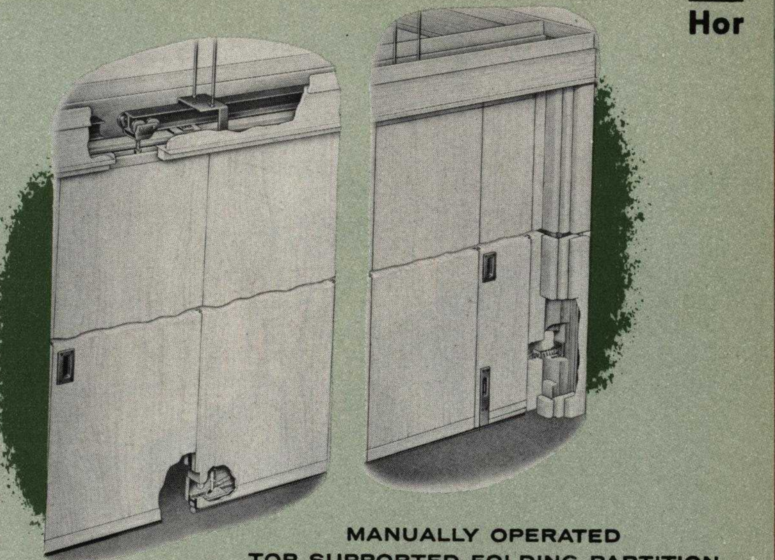
PRE-ASSEMBLED JAMBS

Provide perfect alignment without warpage. Require a minimum of field assembly work . . . reduce margin for error.

FOUR FACING MATERIALS TO CHOOSE FROM
HARDBOARD BACKING
HONEYCOMB CORE



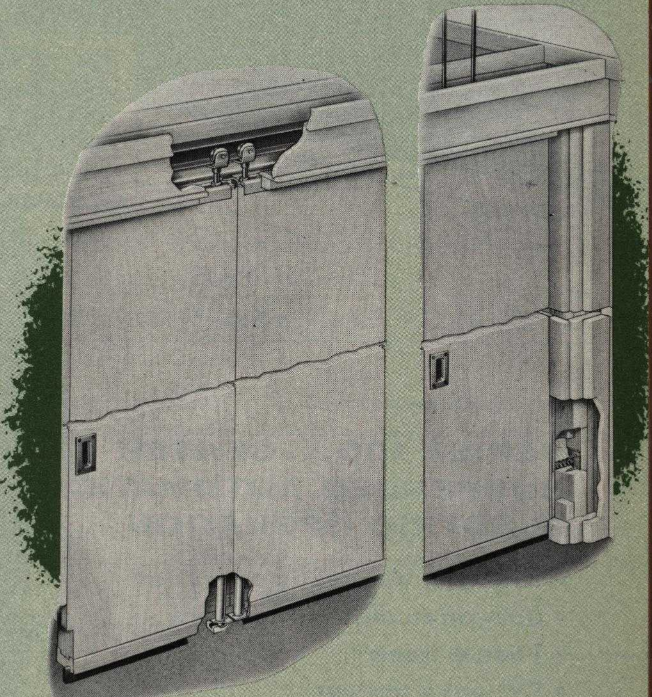
AUTOMATIC ELECTRIC
FOLDING PARTITION



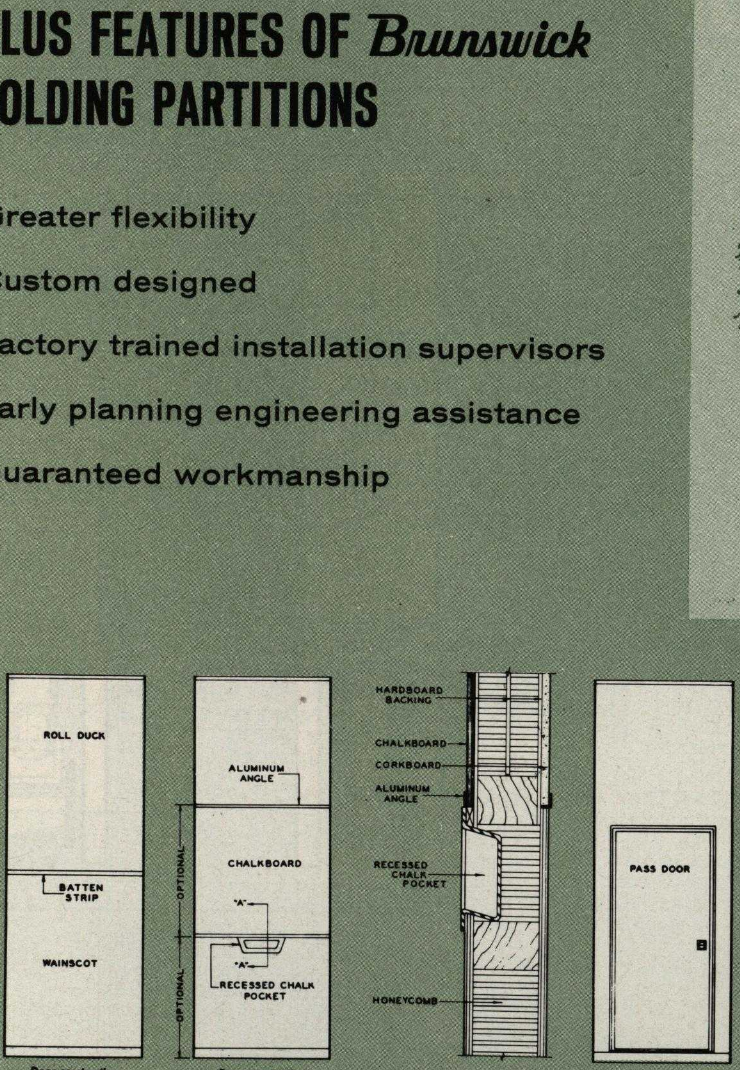
MANUALLY OPERATED
TOP SUPPORTED FOLDING PARTITION

COMPARE THE PLUS FEATURES OF *Brunswick* FOLDING PARTITIONS

- Greater flexibility
- Custom designed
- Factory trained installation supervisors
- Early planning engineering assistance
- Guaranteed workmanship



MANUALLY OPERATED
EDGE HUNG FOLDING PARTITION



ROLL DUCK
BATTEN STRIP
WAINSCOT
ALUMINUM ANGLE
CHALKBOARD
"A"
"A"
RECESSED CHALK POCKET
OPTIONAL
OPTIONAL
HARDBOARD BACKING
CHALKBOARD
CORKBOARD
ALUMINUM ANGLE
RECESSED CHALK POCKET
HONEYCOMB
PASS DOOR

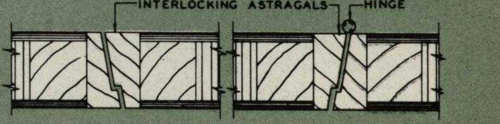
Door construction with wainscot

Door construction with chalkboard

Section A—A

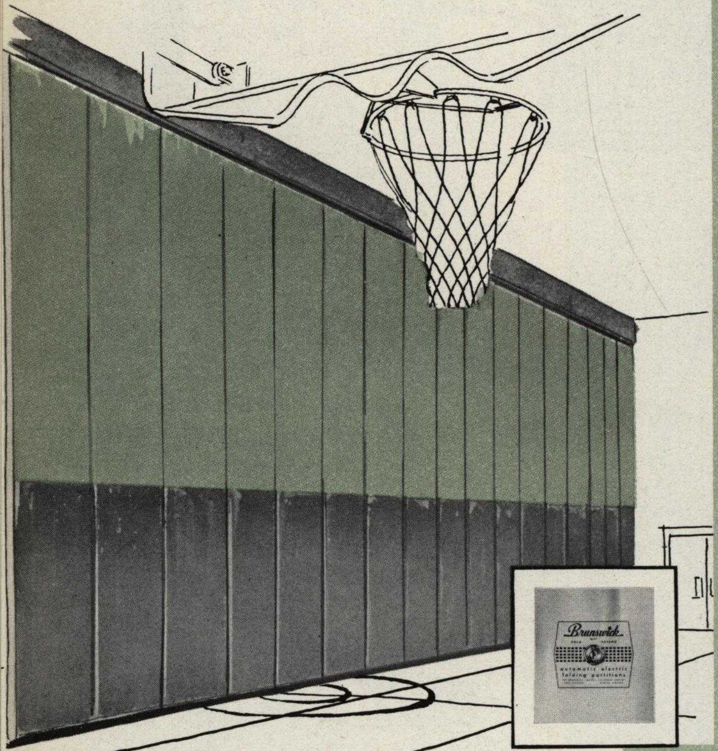
Door construction with pass door

TYPICAL DOOR ELEVATIONS



INTERLOCKING ASTRAGALS
HINGE

HORIZONTAL SECTION THROUGH PASS DOOR

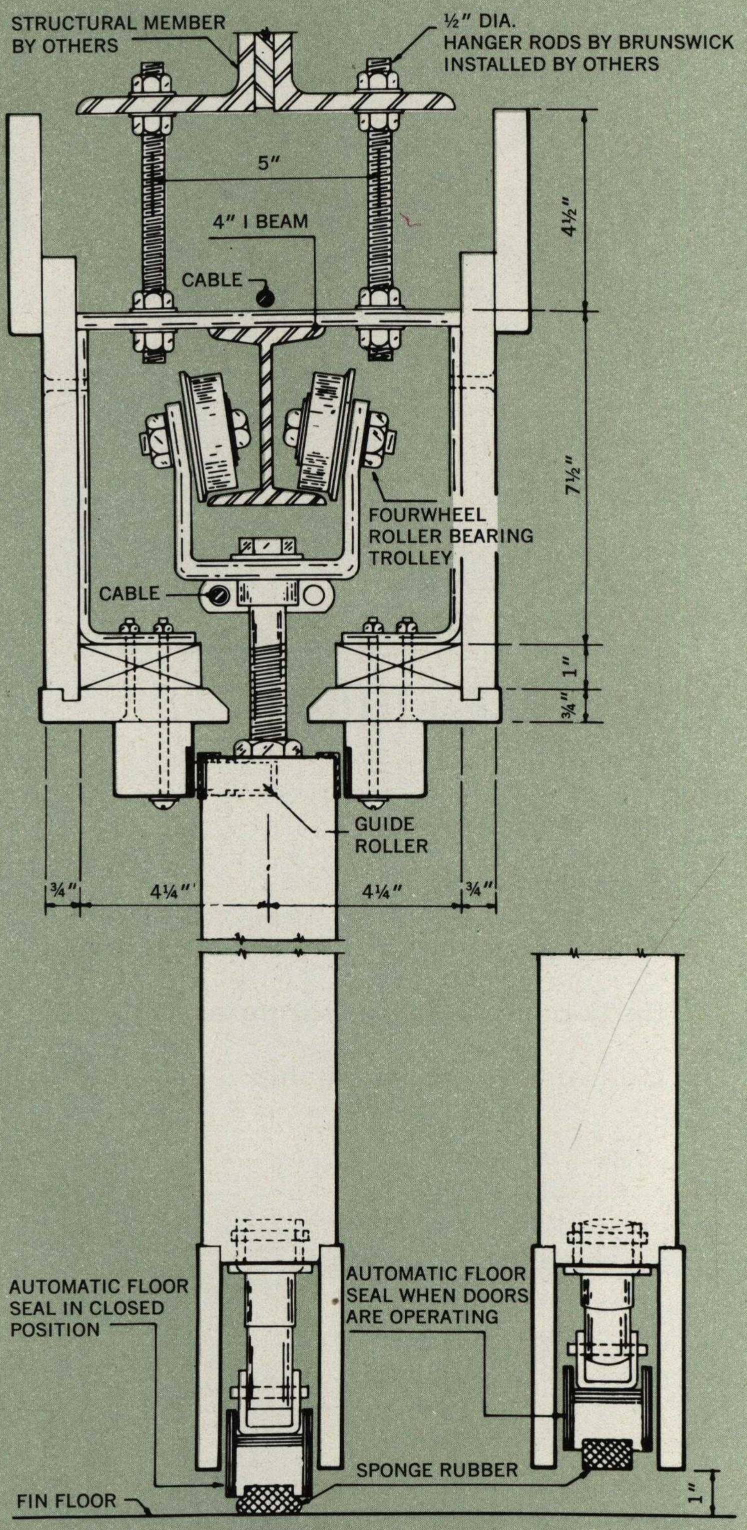

Brunswick
automatic electric
folding partitions

SERIES 100 . . . CENTER SUSPENDED AUTOMATIC ELECTRIC OPERATION

- Key type automatic operation
- Job-rated motor operators
- I beam track
- "Y" yoke trolleys
- Cable drive
- Pre-assembled jambs
- Automatic bottom

SERIES 300 MECHANICAL FOLDING PARTITION

The series 300 partition is identical to the automatic electric unit except for handcrank operation.

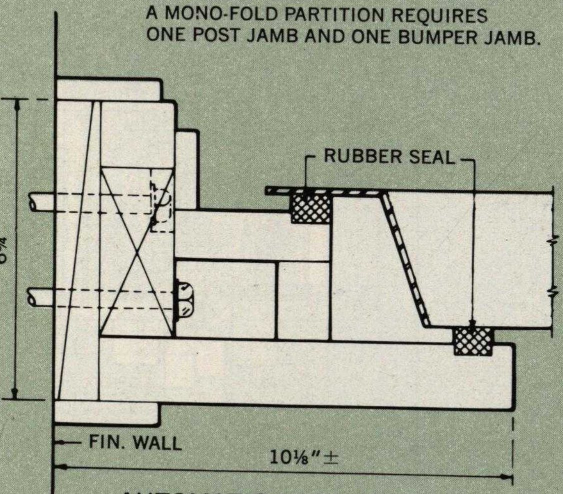

STRUCTURAL MEMBER BY OTHERS
½" DIA. HANGER RODS BY BRUNSWICK INSTALLED BY OTHERS
5"
4" I BEAM
CABLE
4½"
7½"
FOURWHEEL ROLLER BEARING TROLLEY
CABLE
1"
¾"
GUIDE ROLLER
¾"
4¼"
4¼"
¾"
AUTOMATIC FLOOR SEAL IN CLOSED POSITION
AUTOMATIC FLOOR SEAL WHEN DOORS ARE OPERATING
SPONGE RUBBER
FIN FLOOR
1"

VERTICAL SECTION THRU DOOR AND HANGER ASSEMBLY

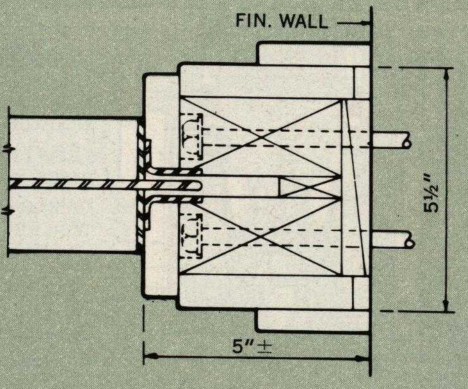
SCALE 3"=1'-0"

AUTOMATIC ELECTRIC PARTITIONS

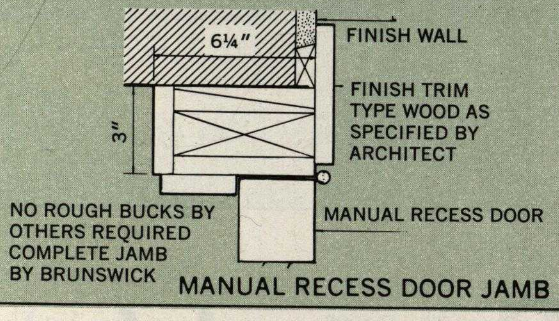
NOTE A BI-FOLD PARTITION REQUIRES
TWO POST JAMBS.
A MONO-FOLD PARTITION REQUIRES
ONE POST JAMB AND ONE BUMPER JAMB.


RUBBER SEAL
6¾"
FIN. WALL
10⅛"±

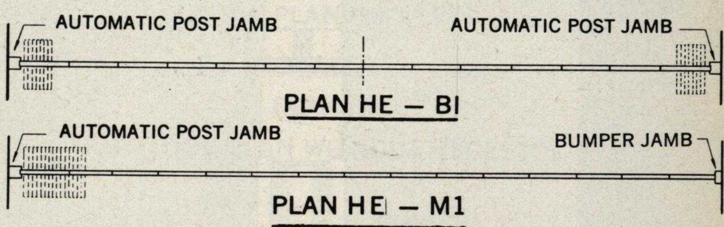
AUTOMATIC POST JAMB
SCALE 3"=1'-0"


FIN. WALL
5½"
5"±

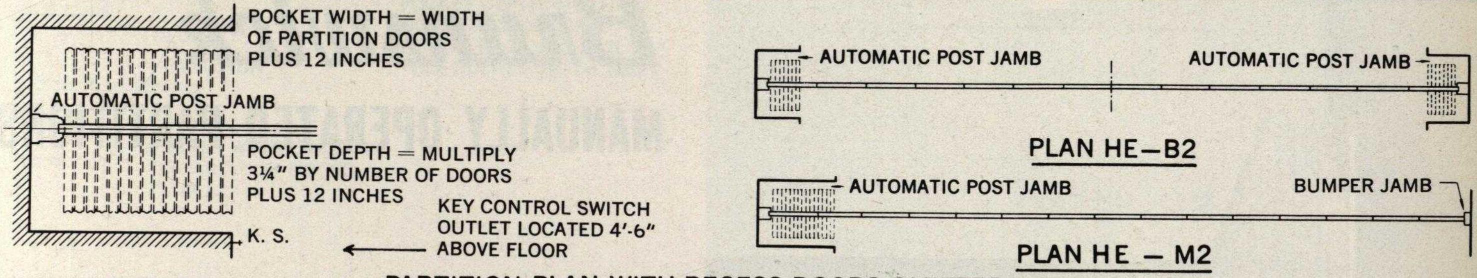
BUMPER JAMB
SCALE 3"=1'-0"


6¼"
FINISH WALL
3"
FINISH TRIM
TYPE WOOD AS
SPECIFIED BY
ARCHITECT
NO ROUGH BUCKS BY
OTHERS REQUIRED
COMPLETE JAMB
BY BRUNSWICK
MANUAL RECESS DOOR

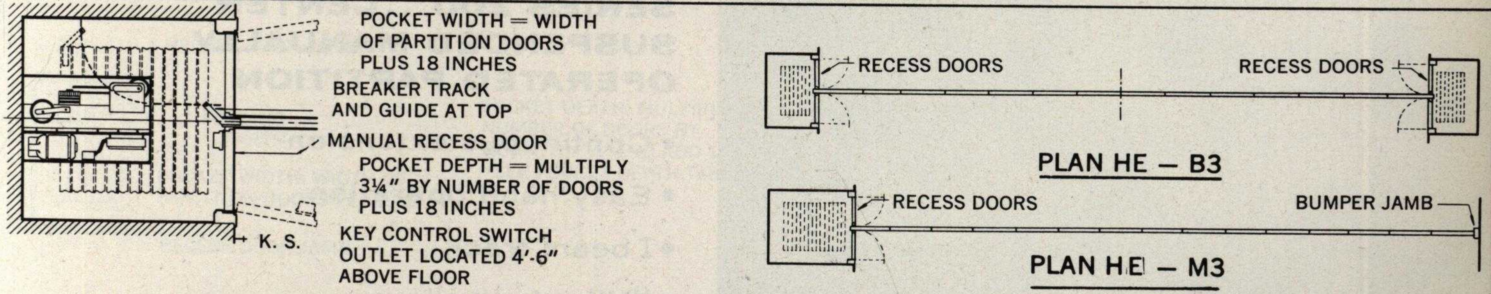
MANUAL RECESS DOOR JAMB


AUTOMATIC POST JAMB
AUTOMATIC POST JAMB
PLAN HE — BI
AUTOMATIC POST JAMB
BUMPER JAMB
PLAN HE — M1

PARTITION PLANS WITHOUT RECESSES


POCKET WIDTH = WIDTH
OF PARTITION DOORS
PLUS 12 INCHES
AUTOMATIC POST JAMB
POCKET DEPTH = MULTIPLY
3¼" BY NUMBER OF DOORS
PLUS 12 INCHES
KEY CONTROL SWITCH
OUTLET LOCATED 4'-6"
ABOVE FLOOR
K. S.
AUTOMATIC POST JAMB
AUTOMATIC POST JAMB
PLAN HE—B2
AUTOMATIC POST JAMB
BUMPER JAMB
PLAN HE — M2

PARTITION PLAN WITH RECESS DOORS OMITTED


POCKET WIDTH = WIDTH
OF PARTITION DOORS
PLUS 18 INCHES
BREAKER TRACK
AND GUIDE AT TOP
MANUAL RECESS DOOR
POCKET DEPTH = MULTIPLY
3¼" BY NUMBER OF DOORS
PLUS 18 INCHES
KEY CONTROL SWITCH
OUTLET LOCATED 4'-6"
ABOVE FLOOR
K. S.
RECESS DOORS
RECESS DOORS
PLAN HE — B3
RECESS DOORS
BUMPER JAMB
PLAN HE — M3

PARTITION PLAN WITH MANUALLY OPERATED RECESS DOORS

SERIES 100

OPERATION:

A. Operation shall be automatic electric with folding and extending of partition controlled by a hold type key control switch. An electric operator of proper H.P. shall provide motivating force for operation of folding partition. The operating mechanism shall include the cable drive, electric gear head motor, magnetic switches, limit switches and all necessary equipment to operate a partition of this type.

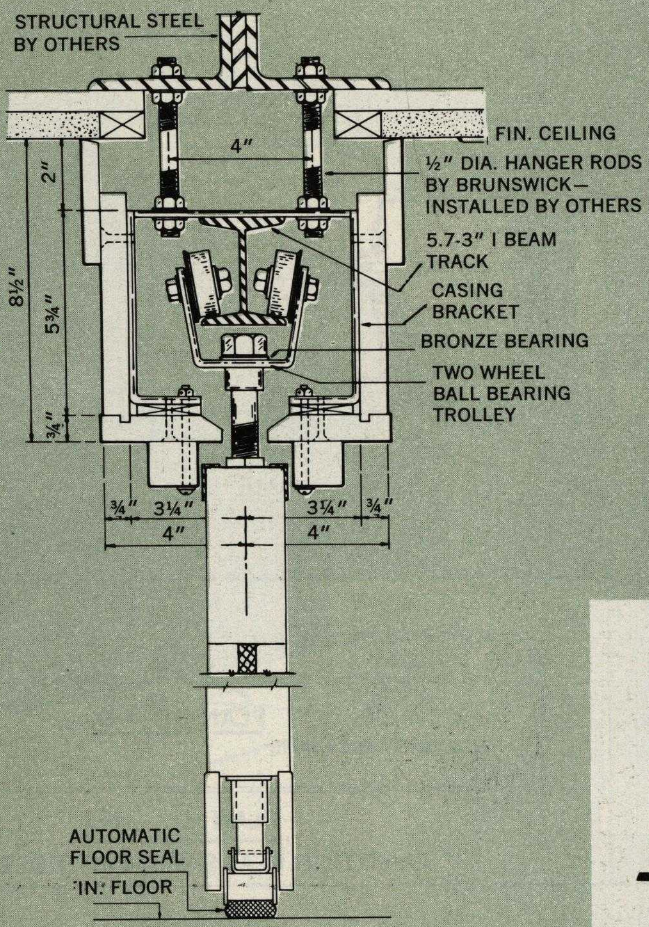
B. There shall be 1" operating clearance between the partition and the floor during operation. The final extending movement shall automatically seal this space against the transmission of sound by lowering and compressing a continuous sponge rubber seal against the floor. The final extending movement shall automatically lock the partition in position without the use of bolts or keepers.

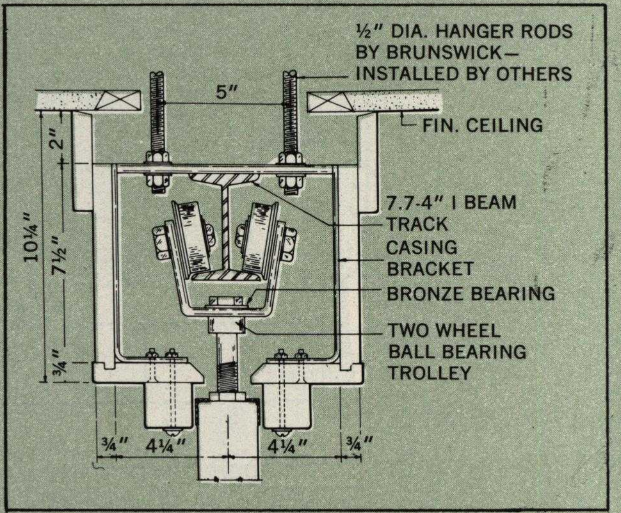
C. The partition shall be center suspended from four (4) wheel needle bearing trolleys operating on an I-Beam track. Each trolley shall have a capacity of not less than three tons. Floor track will not be permitted.

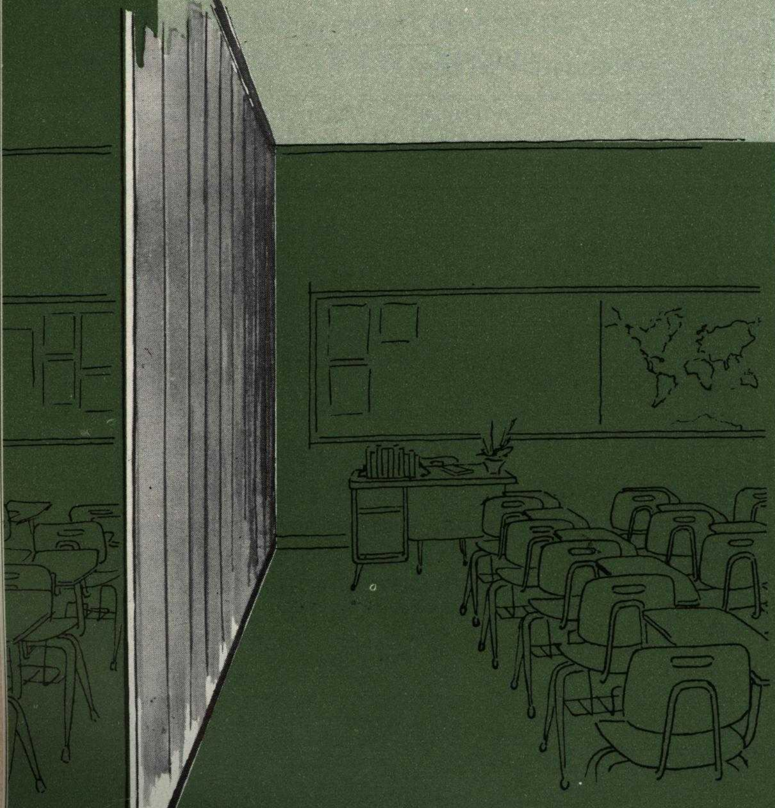
SERIES 300

SUBSTITUTE FOLLOWING PARAGRAPH FOR "A" AT LEFT

Operation shall be mechanical with folding and extending of partition controlled by means of a hand crank. The operating mechanism shall include the cable drive, gear reduction box, removable hand crank and all necessary equipment to operate a partition of this type.


STRUCTURAL STEEL BY OTHERS
FIN. CEILING
4"
½" DIA. HANGER RODS BY BRUNSWICK—INSTALLED BY OTHERS
5.7-3" I BEAM
TRACK
CASING
BRACKET
BRONZE BEARING
TWO WHEEL BALL BEARING TROLLEY
2"
8½"
5¾"
¾"
¾"
3¼"
3¼"
¾"
4"
4"
AUTOMATIC FLOOR SEAL
FIN. FLOOR


½" DIA. HANGER RODS BY BRUNSWICK—INSTALLED BY OTHERS
5"
FIN. CEILING
2"
10¼"
7½"
¾"
7.7-4" I BEAM
TRACK
CASING
BRACKET
BRONZE BEARING
TWO WHEEL BALL BEARING TROLLEY
¾"
4¼"
4¼"
¾"



Brunswick

MANUALLY OPERATED PARTITIONS

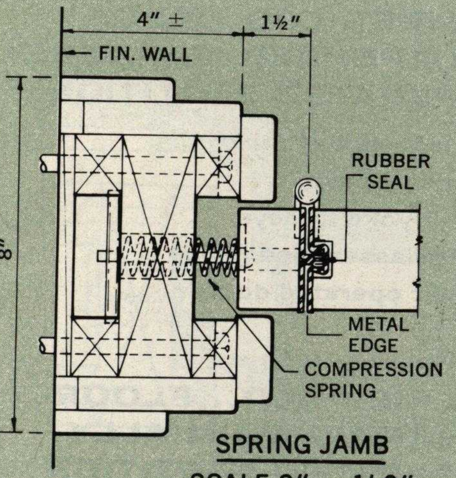
SERIES 200 . . . CENTER SUSPENDED MANUALLY OPERATED PARTITION

- Continuous extension
- Easy hand operation
- I beam track
- "Y" yoke trolleys
- Pre-assembled jambs
- Automatic bottom

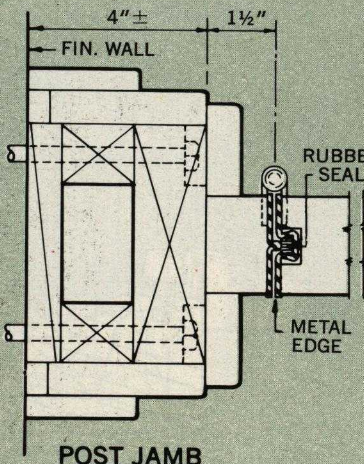
NOTE:

NO ROUGH BUCKS BY OTHERS REQUIRED

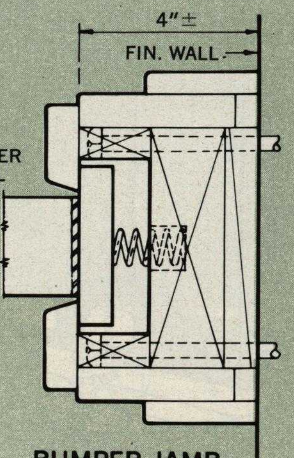
COMPLETE JAMBS BY BRUNSWICK


4" ±
1½"
FIN. WALL
8"
RUBBER SEAL
METAL EDGE
COMPRESSION SPRING

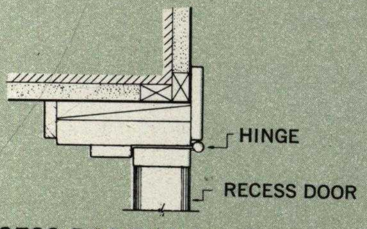
SPRING JAMB
SCALE 3" = 1'-0"


4"±
1½"
FIN. WALL
RUBBER SEAL
METAL EDGE

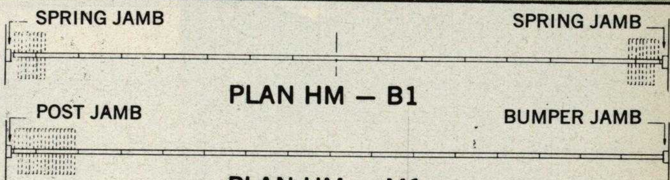
POST JAMB
SCALE 3" = 1'-0"



BUMPER JAMB
SCALE 3" = 1'-0"


HINGE
RECESS DOOR

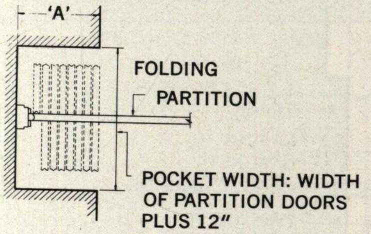
RECESS DOOR JAMB


SPRING JAMB
SPRING JAMB
POST JAMB
BUMPER JAMB

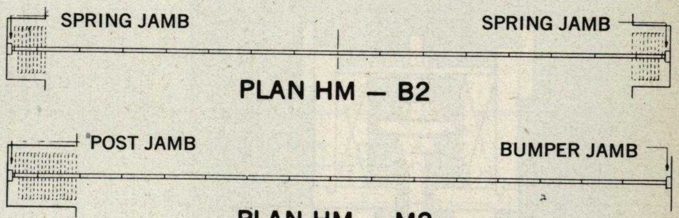
PLAN HM – B1

PLAN HM – M1

PARTITION PLAN WITHOUT RECESSES


'A'
FOLDING PARTITION
POCKET WIDTH: WIDTH OF PARTITION DOORS PLUS 12"

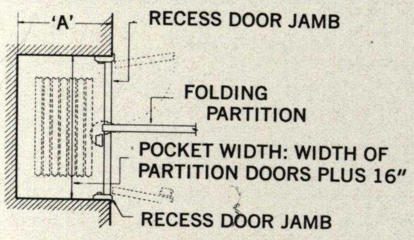
POCKET DEPTH: MULTIPLY NUMBER OF DOORS BY QUANTITY 'A' AND ADD 5½"
*SEE POCKET DEPTH TABLE


SPRING JAMB
SPRING JAMB
POST JAMB
BUMPER JAMB

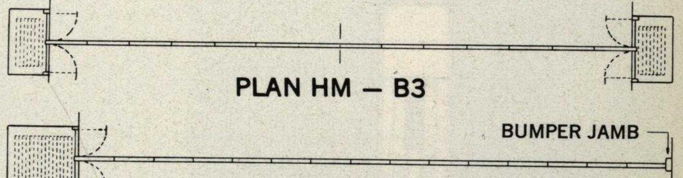
PLAN HM – B2

PLAN HM – M2

PARTITION PLAN WITH RECESS DOORS OMITTED


'A'
RECESS DOOR JAMB
FOLDING PARTITION
POCKET WIDTH: WIDTH OF PARTITION DOORS PLUS 16"
RECESS DOOR JAMB

POCKET DEPTH: MULTIPLY NUMBER OF DOORS BY QUANTITY 'A' AND ADD 12"
*SEE POCKET DEPTH TABLE


BUMPER JAMB

PLAN HM – B3

PLAN HM – M2

PARTITION PLAN WITH MANUALLY OPERATED DOORS

*POCKET DEPTH DETERMINATION TABLE

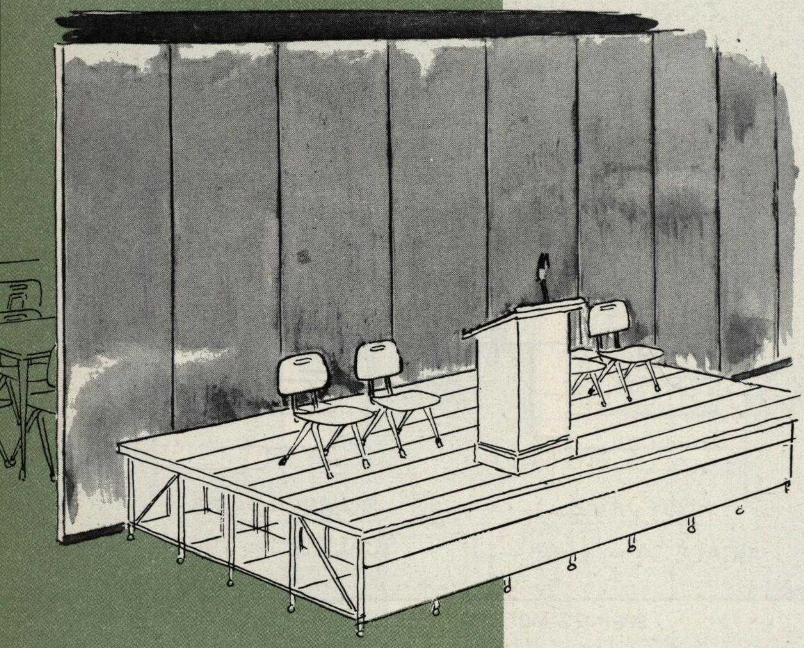
PARTITION DOOR THICKNESS	1¾"	2¼"	3"
VALUES OF QUANTITY 'A'	2⅝"	3⅛"	3¾"

OPERATION: **SERIES 200**

A. Operation shall be manually controlled with all doors folding to a single jamb hinged together. Partition shall extend and fold in a continuous operation.

B. There shall be a ¾" operating clearance between partition and floor during operation. The final extending movement shall automatically seal this space against the transmission of sound by lowering and compressing a continuous sponge rubber seal against the floor. The final extending movement shall automatically lock the partition in position.

C. Partition shall be center suspended from ball bearing trolleys operating on an I-Beam track. Floor track will not be permitted.



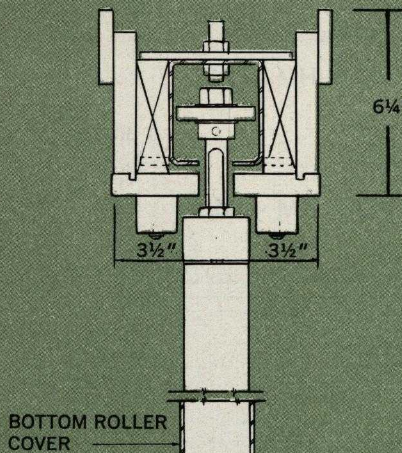
Brunswick

SERIES 500...EDGE SUSPENDED MANUALLY OPERATED PARTITION

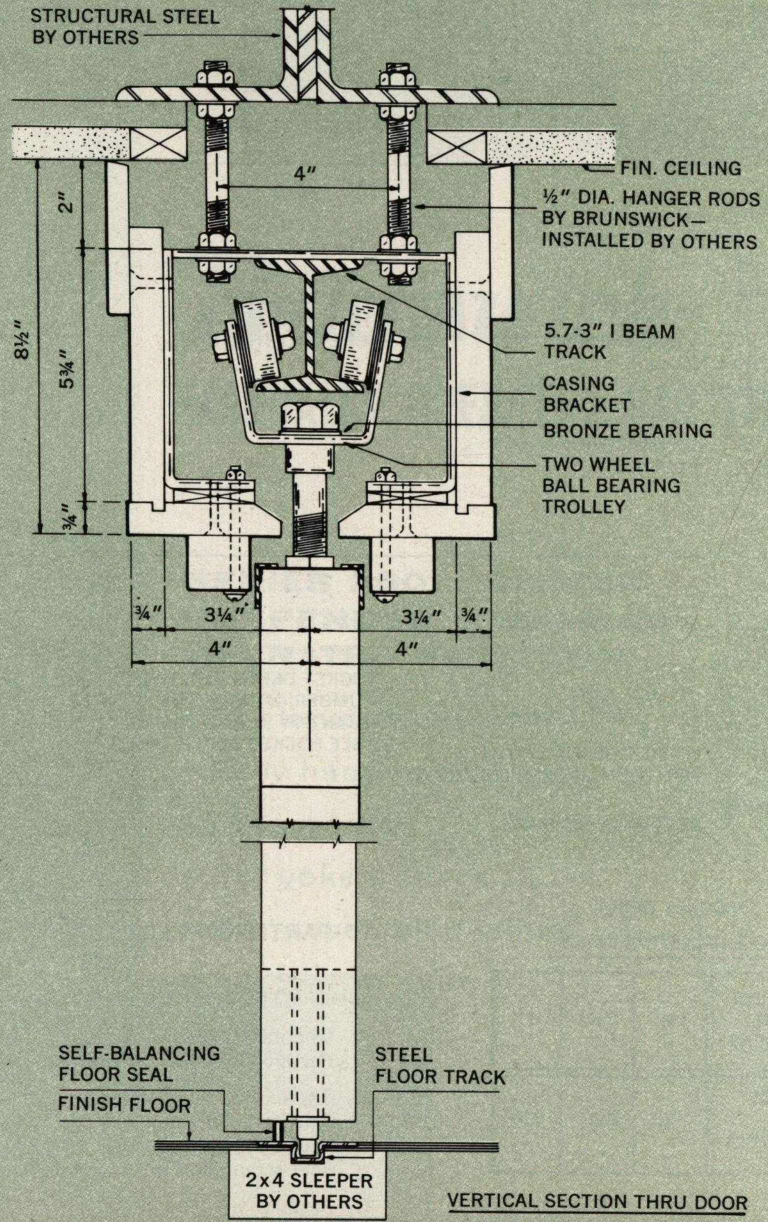
- Floor guide-track
- I beam track
- "Y" yoke trolleys
- Pre-assembled jambs
- Pair operated doors

SERIES 400...FLOOR-BEARING MANUALLY OPERATED PARTITION

- Top guide-track
- Pair hinged doors

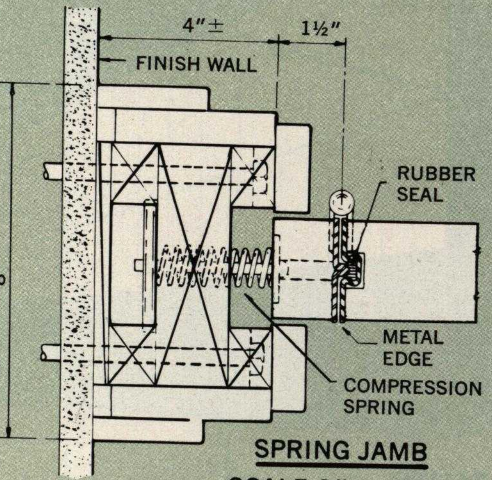

6¼"
3½"
3½"
BOTTOM ROLLER COVER
STEEL FLOOR TRACK
BOTTOM ROLLER
FINISH FLOOR
2x4 SLEEPER BY OTHERS

(Same as 500 series except that 400 is a floor-bearing unit.)

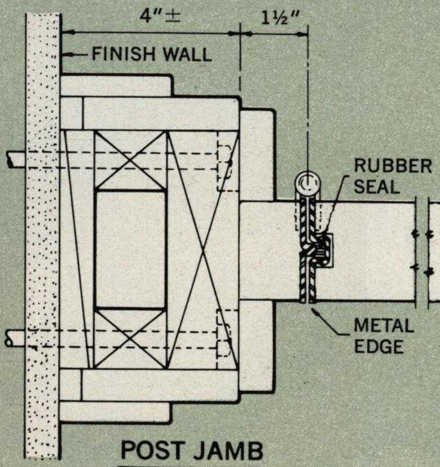

STRUCTURAL STEEL BY OTHERS
FIN. CEILING
4"
½" DIA. HANGER RODS BY BRUNSWICK—INSTALLED BY OTHERS
2"
8½"
5¾"
¾"
5.7-3" I BEAM TRACK
CASING BRACKET
BRONZE BEARING
TWO WHEEL BALL BEARING TROLLEY
¾"
3¼"
3¼"
¾"
4"
4"
SELF-BALANCING FLOOR SEAL
FINISH FLOOR
STEEL FLOOR TRACK
2x4 SLEEPER BY OTHERS

VERTICAL SECTION THRU DOOR AND HANGER ASSEMBLY

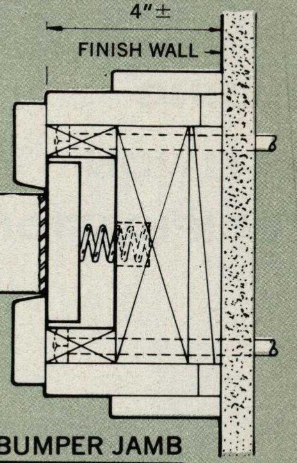
NO ROUGH BUCKS BY OTHERS REQUIRED
COMPLETE JAMBS BY BRUNSWICK


4"±
1½"
FINISH WALL
8"
RUBBER SEAL
METAL EDGE
COMPRESSION SPRING

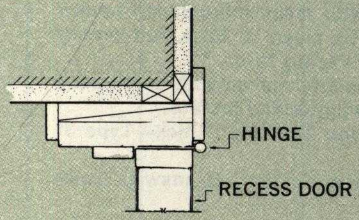
SPRING JAMB
SCALE 3" = 1'-0"


4"±
1½"
FINISH WALL
RUBBER SEAL
METAL EDGE

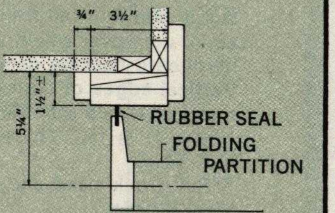
POST JAMB
SCALE 3" = 1'-0"


4"±
FINISH WALL

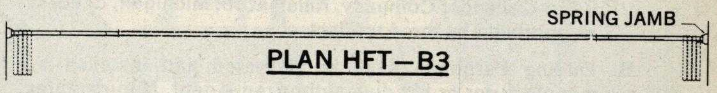
BUMPER JAMB
SCALE 3" = 1'-0"


HINGE
RECESS DOOR

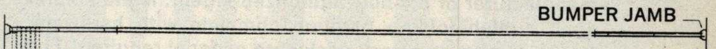
RECESS DOOR JAMB


¾"
3½"
1½"±
5¼"
RUBBER SEAL
FOLDING PARTITION

SPECIAL CLOSURE JAMB

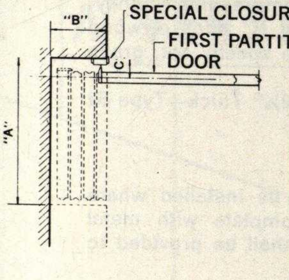

SPRING JAMB

PLAN HFT—B3

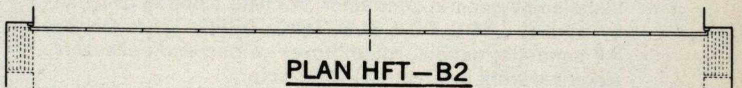

BUMPER JAMB

PLAN HFT—M3

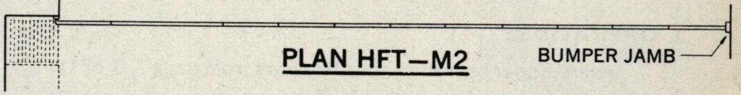
PARTITION PLAN WITHOUT RECESSES


"B"
SPECIAL CLOSURE JAMB
FIRST PARTITION DOOR
"C"
"A"

DOOR THICKNESS	"C"	DEPTH FOR 2 PAIRS OF DOORS "B"	FOR EACH ADDITIONAL PAIR ADD TO "B"
1¾"	5¼"	12½"	5½"
2¼"	5¼"	12½"	5½"
3"	5¼"	15½"	7"

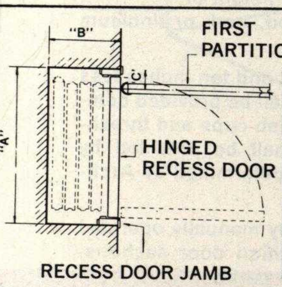


PLAN HFT—B2

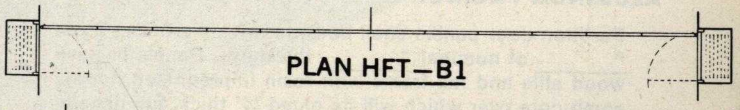

BUMPER JAMB

PLAN HFT—M2

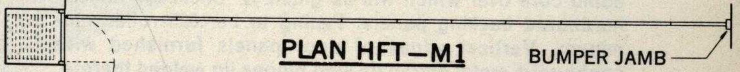
PARTITION PLAN WITH RECESS DOORS OMITTED


"B"
FIRST PARTITION DOOR
"C"
"A"
HINGED RECESS DOOR
RECESS DOOR JAMB

DOOR THICKNESS	"C"	DEPTH FOR 2 PAIRS OF DOORS "B"	FOR EACH ADDITIONAL PAIR ADD TO "B"
1¾"	5¼"	18"	5½"
2¼"	5¼"	18"	5½"
3"	5¼"	22"	7"



PLAN HFT—B1


BUMPER JAMB

PLAN HFT—M1

PARTITION PLAN WITH MANUALLY OPERATED RECESS DOORS

SERIES 500

OPERATION:

A. Operation to be manual with door sections hinged together and operated in pairs.

B. Partition shall be edge hung and suspended on ball bearing trolleys operating on a 3" I-Beam track. Bottom of doors shall be guided by roller pins operating in steel guide track neatly inlaid in floor.

C. There shall be a ½" operating clearance between bottom of partition and floor track. This space shall be sealed with a self-balancing rubber floor seal against the transmission of light and sound.

SERIES 400

SUBSTITUTE FOLLOWING PARAGRAPH FOR "B" ABOVE:

B. Partition shall be edge hung with weight carried on bottom rollers operating in steel track neatly inlaid in floor. The top of the doors shall be guided by rollers operating in box type overhead guide track.

FOLDING PARTITION SPECIFICATIONS

1. GENERAL SCOPE:

A. Folding Partition shown in Architect's plans and specifications shall be as manufactured by The Brunswick-Balke-Collender Company, Kalamazoo, Michigan, or equal as approved by the Architect.

B. Folding Partitions shall be delivered and installed by manufacturer or his duly authorized Agent. Manufacturer shall furnish folding partition complete with hardware, tracks, jambs, and track enclosure material required. The entire installation shall be guaranteed against faulty materials, workmanship and operation for a period of one (1) year from date of installation.

2. WORK BY OTHERS:

A. Supporting steel shall be drilled or punched by others in accordance with template furnished by door manufacturer. Hanger rods will be furnished by door manufacturer and installed by general contractor. All field painting or finish by others. (ADD FOR ELECTRIC OPERATION ONLY) All conduits, outlets, rough boxes, wiring and necessary electrical work by Electrical Contractor.

3. OPERATION:

Insert proper operation specifications from page 7, 9, or 11.

4. DOOR CONSTRUCTION:

Insert proper door specifications from door specifications below.

ALUMINUM FACING:

Partition door panels shall be Brunswick AeroCore Type *______ of nominal *______ thickness. Panels to have wood stile and rail frame with resin impregnated honeycomb core over which will be glued ¼″ thick, full density hardboard backing panels. Facing to be .025 rolled aluminum. Vertical edges of door panels furnished with continuous metal astragals with hinges jig welded thereto.
*Type 10 @ 1¾″ Thick—Type 20 @ 2¼″ Thick—Type 30 @ 3″ Thick

FABRIC FACING:

Partition door panels shall be Brunswick AeroCore Type *______ of nominal *______ thickness. Panels to have wood stile and rail frame with resin impregnated honeycomb core over which will be glued ¼″ thick, full density hardboard backing panels. Facing to be **__________. Vertical edges of door panels furnished with continuous metal astragals with hinges jig welded thereto.
*Type 11 @ 1¾″ Thick—Type 21 @ 2¼″ Thick—Type 31 @ 3″ Thick
**Roll Duck sized one coat at Factory—Brunswick Color Vinyl Plastic

PLYWOOD FACING:

Partition door panels shall be Brunswick AeroCore Type *______ of nominal *______ thickness. Panels to have wood stile and rail frame with resin impregnated honeycomb core over which will be glued ¼″ thick plywood panels. Surface veneer to be (Please specify cut, grade and species of veneer).
*Type 12 @ 1¾″ Thick—Type 22 @ 2¼″ Thick—Type 32 @ 3″ Thick.

OPTIONAL EQUIPMENT:

1. Chalkboard and/or corkboard shall be installed where indicated in Architect's details, complete with metal moulding. Recessed chalk pockets shall be provided to complement chalkboard.
2. The lower portion of the door shall be provided with ____________ Wainscot to a height of ________. (Wainscot of pressed wood, plywood, cork or linoleum provided on specification.)
3. Pass door, seven feet high from floor and ten inches less in width than regular door section, shall be provided complete with 3 butts, latching device, flush cups and threshold. (Master keyed cylinder lock shall be provided by others.) Location of pass door to be determined by Architect.
4. Recess pocket(s) shall be enclosed by manually operated doors of same construction as partition door sections. Doors shall enclose pocket(s) when partition is in both open and closed positions.

Folding Stages	Folding Gymnasium Seating	Folding Backstops
Sweet's File No. 23g/Ho	Sweet's File No. 23j/Ho	Sweet's File No. 23k/Ho

Brunswick
SCHOOL EQUIPMENT DIVISION
BRUNSWICK-BALKE-COLLENDER CO.
KALAMAZOO, MICHIGAN

IMPORTANT: When current manufacturing processes involve improvements in products illustrated in this catalog, or when conditions over which we have no control force us to depart from standard manufacturing processes, we reserve the right to supply the article that is our standard at time shipment is made.

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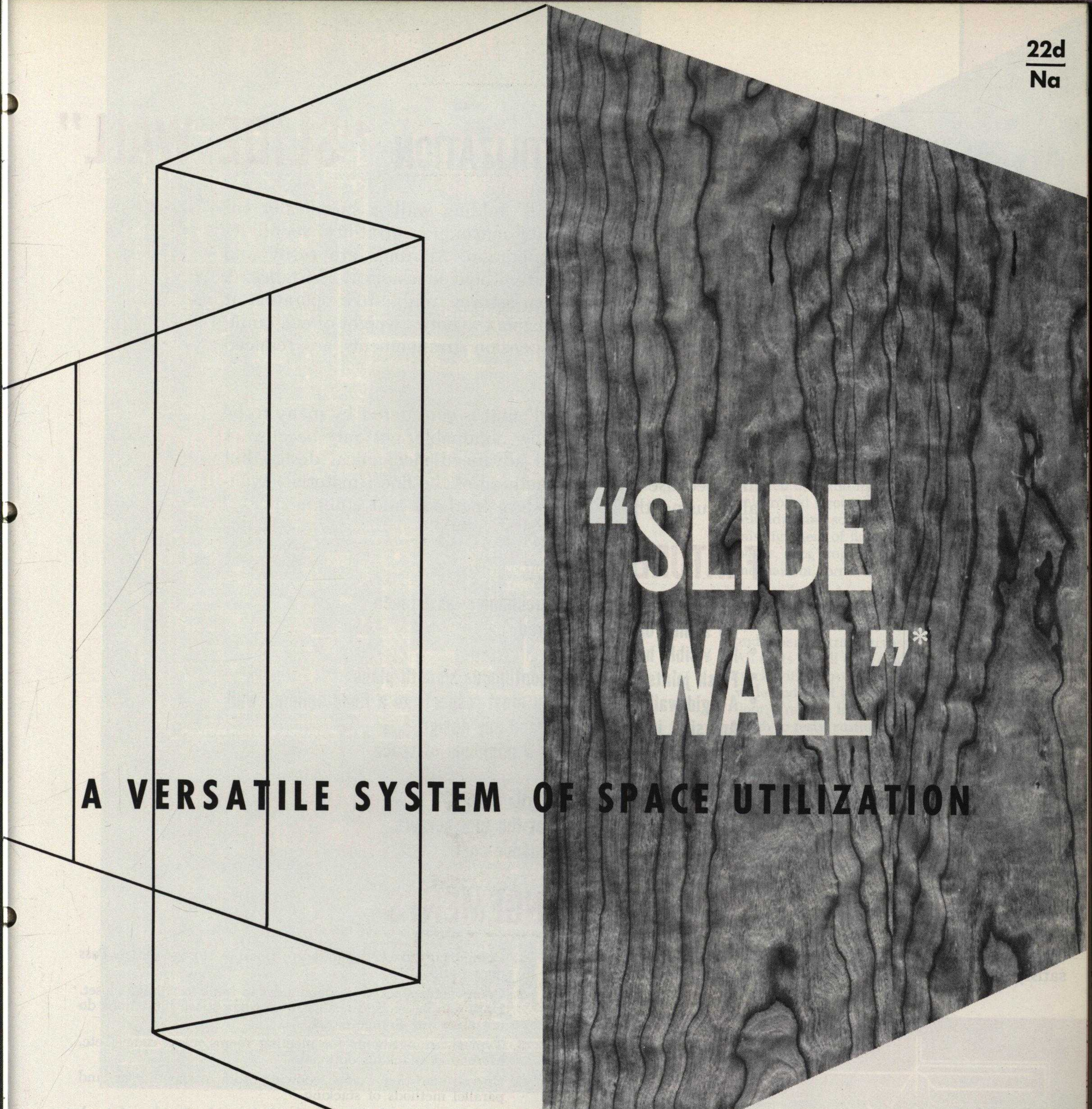


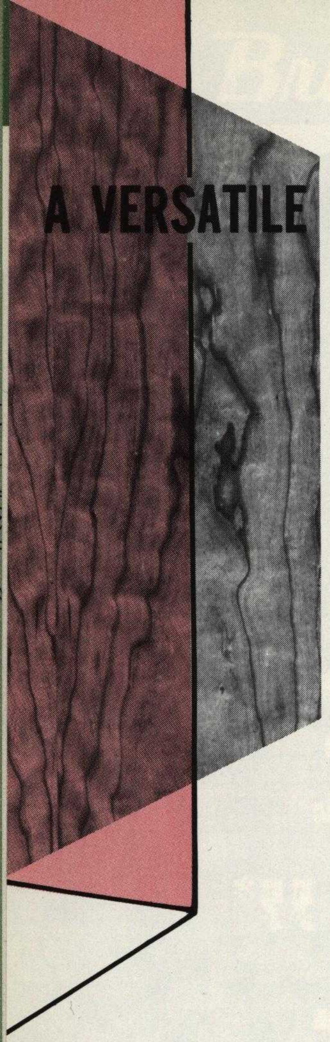
"SLIDE WALL"*

A VERSATILE SYSTEM OF SPACE UTILIZATION

NATIONAL FOLDING WALL CORP.

42 WEST 13 STREET, NEW YORK CITY 11, N.Y. PHONE CHELSEA 2-1252

*Patent Pending



A VERSATILE SYSTEM OF SPACE UTILIZATION "SLIDE WALL"

The National "Slide Wall" folding wall is specifically engineered and designed for maximum versatility, sound retardance and ease of operation. All units are easily and quickly operated by hand without mechanical assistance. A foolproof guidance system assures trouble-free operation at all times. Since the floor bears the entire weight of each unit, expensive, overhead suspension arrangements are reduced to a minimum.

The National "Slide Wall" unit is considered by many to be the finest folding wall now obtainable, not only because of its simple operation and advanced mechanical design but also because it is manufactured of the finest materials available, using the most modern methods and equipment.

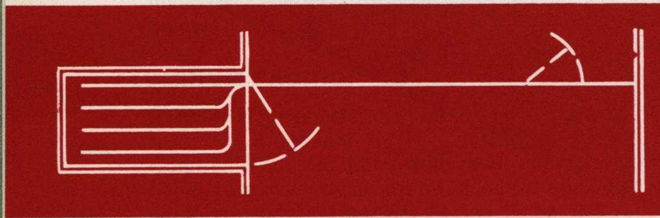
FEATURES

- **Easily operated without mechanical assistance**
- **No skilled operator required**
- **No visible hardware**
- **Flush joints affording a continuous smooth plane**
- **A rigid wall comparable in most respects to a fixed building wall**
- **Any size, in any material and any design**
- **Stores away from view in a minimum of space**
- **Unlimited flexibility**
- **High degree of sound retardance**
- **All panels held securely at the four corners**
- **Trouble-free — no maintenance cost**

TYPICAL ARRANGEMENTS

There are an unlimited number of combinations to satisfy practically all dividing and storage requirements.

1. Components stacked parallel to track in storage closet. Pass door optional.
2. Components stacked perpendicular to track in storage closet. Units can be stacked against wall when space limitations do not allow for storage closet.
3. Typical arrangements for meeting rooms, class rooms, etc. Method of stacking optional.
4. Curved partition layout showing both perpendicular and parallel methods of stacking.
5. Components stacked perpendicularly on both sides of track where depth of closet is limited.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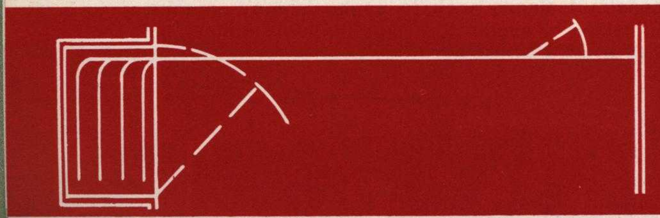
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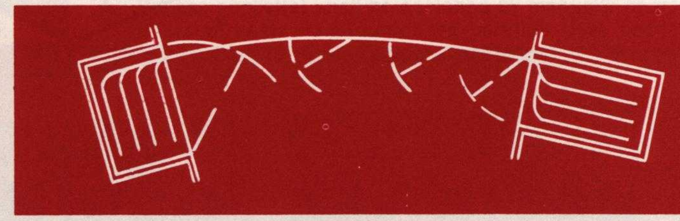
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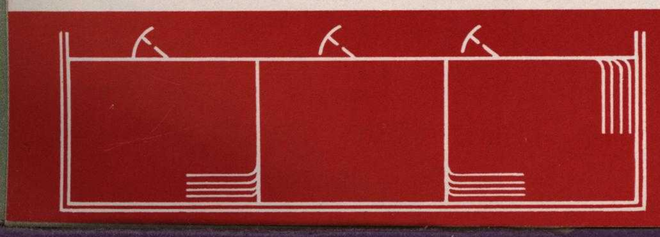
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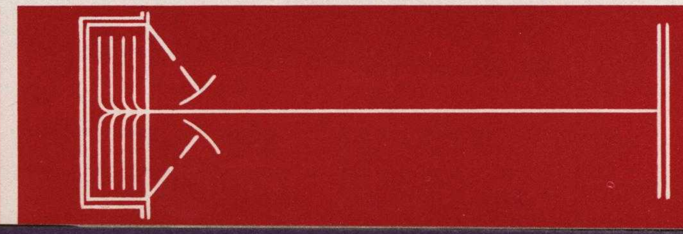
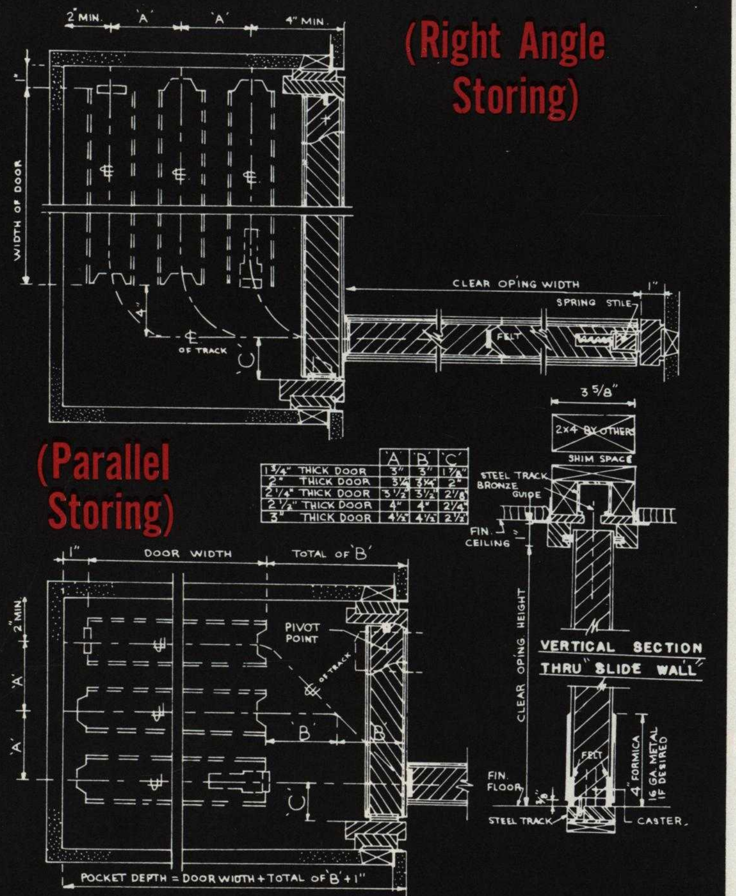

5.

PLAN OF "SLIDE WALL"

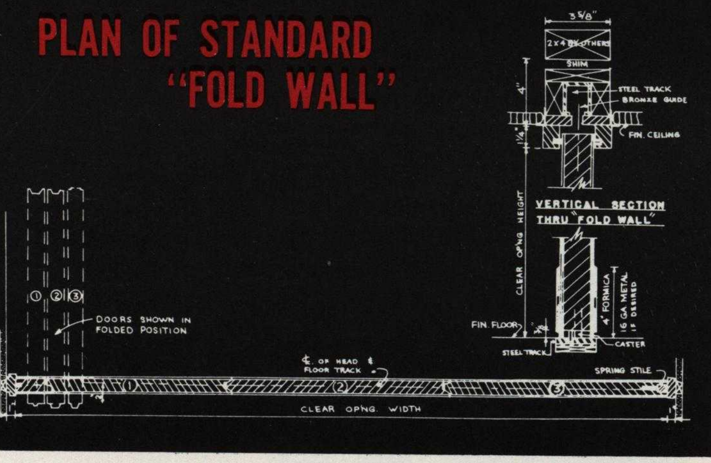
(Right Angle Storing)

(Parallel Storing)


2" MIN.
'A'
'A'
4" MIN.
1"
WIDTH OF DOOR
CLEAR OP'NG WIDTH
SPRING STILE
1"
FELT
℄ OF TRACK
'C'
4"
3 5/8"
2×4 BY OTHERS
SHIM SPACE
STEEL TRACK
BRONZE GUIDE
FIN. CEILING
CLEAR OP'NG HEIGHT
VERTICAL SECTION THRU "SLIDE WALL"
FELT
4" FORMICA
16 GA METAL IF DESIRED
FIN. FLOOR
STEEL TRACK
CASTER
1"
DOOR WIDTH
TOTAL OF 'B'
2" MIN.
PIVOT POINT
℄ OF TRACK
'A'
'A'
'A'
'B'
'B'
'C'
POCKET DEPTH = DOOR WIDTH + TOTAL OF 'B' + 1"

	'A'	'B'	'C'
1¾" THICK DOOR	3"	3"	1⅞"
2" THICK DOOR	3¼"	3¼"	2"
2¼" THICK DOOR	3½"	3½"	2⅛"
2½" THICK DOOR	4"	4"	2¼"
3" THICK DOOR	4½"	4½"	2½"

PLAN OF STANDARD "FOLD WALL"


3⅝"
2×4 BY OTHERS
SHIM
STEEL TRACK
BRONZE GUIDE
FIN. CEILING
4"
1¼"
VERTICAL SECTION THRU "FOLD WALL"
CLEAR OP'NG HEIGHT
4" FORMICA
16 GA METAL IF DESIRED
FIN. FLOOR
STEEL TRACK
CASTER
① ② ③
DOORS SHOWN IN FOLDED POSITION
℄ OR HEAD & FLOOR TRACK
SPRING STILE
①
②
③
CLEAR OP'NG WIDTH

SPECIFICATIONS

The sliding components shall be flush type, thickness to be (state thickness 1¾, 2″, etc.). Cores to be of chestnut, poplar, basswood or white pine and of solid slab construction (or frame construction with sound insulating material between faces). Faces to be of highest quality veneer. Veneer to be (state specie). All to be glued together with highest quality waterproof glue. All rough openings to be prepared by general contractor. Each panel unit to be equipped with two anti-friction ball bearing wheels, with permanently sealed-in lubricant. Two top guides to be used on each unit and must slide free in a cold-rolled steel track. Top guides to be self-adjusting so as to compensate for misalignment of floor or ceiling. No hooks, lugs, frogs or other tripping mechanism permitted.

Panel units must be securely locked in the track at all four corners when stacked and when on track across the opening. All units to roll on a cold-rolled steel track with a groove not more than ¼″ wide and must be set flush with the floor. Track to have a black oxidized finish to resist rusting. The last unit to be equipped with a springed stile to compress all units tightly. The folding walls when fully extended must be absolutely rigid without the use of hinges, bolts, or guide strips.

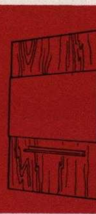
All work performed under this section is to be guaranteed as to material and operation.

The work under this item of the contract includes the furnishing of all labor, material and hardware necessary for a complete installation of the "Slide Wall" as indicated on the drawings.

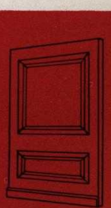
UNLIMITED PANEL VARIATIONS

National's skilled craftsmen have years of experience in fabricating fine architectural woodwork and are capable of executing the most exacting requirements. Unlimited panel designs can be obtained. A few examples are shown at the right.

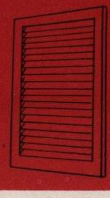
Chalk Board



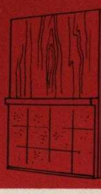
Raised Panel



Louvered Effect



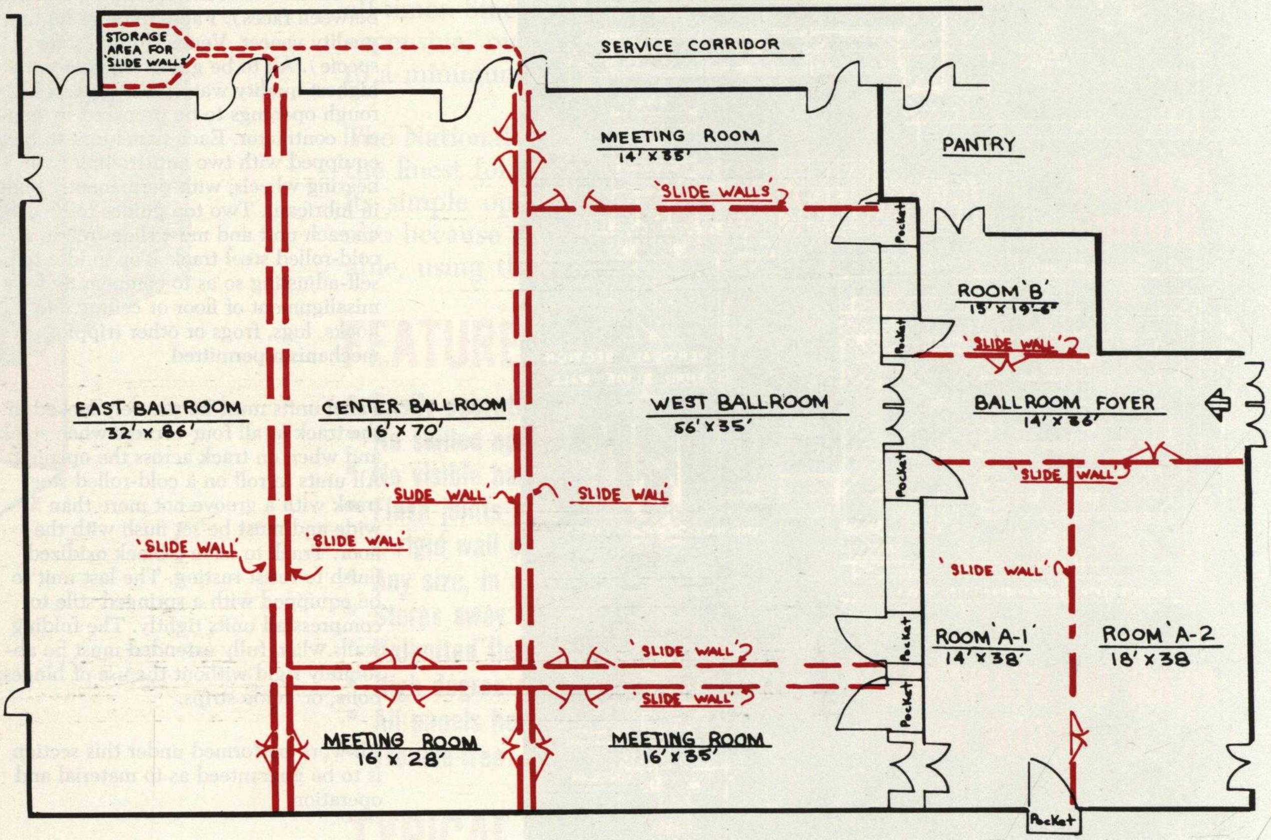
Combination Wood and Cork



NATIONAL FOLDING WALL CORP.

AN OUTSTANDING INSTALLATION

A Leading Hotel selected National's "Slide Wall." The almost limitless combinations available permit maximum use of the ballroom and adjoining meeting rooms. The ballroom area is equipped with double sets of slide walls. This arrangement achieves one of the highest degrees of sound retardance ever obtained in a movable wall.


STORAGE AREA FOR 'SLIDE WALL'
SERVICE CORRIDOR
MEETING ROOM 14' x 35'
PANTRY
'SLIDE WALLS'
Pocket
ROOM 'B' 15' x 19'-6"
'SLIDE WALL'2
EAST BALLROOM 32' x 86'
CENTER BALLROOM 16' x 70'
WEST BALLROOM 56' x 35'
BALLROOM FOYER 14' x 36'
'SLIDE WALL'
SLIDE WALL'
'SLIDE WALL'
'SLIDE WALL'
'SLIDE WALL'
'SLIDE WALL'
'SLIDE WALL'2
SLIDE WALL'
ROOM 'A-1' 14' x 38'
ROOM 'A-2' 18' x 38
MEETING ROOM 16' x 28'
MEETING ROOM 16' x 35'
Pocket

Many projects require special details and layouts.
We will be happy to furnish necessary data and recommendations
without obligation.

For complete information write:

NATIONAL FOLDING WALL CORP.

42 WEST 13 STREET, NEW YORK CITY 11, N.Y. PHONE CHELSEA 2-1252

Printed in U.S.A. 10-59

modernfold
DOORS ®

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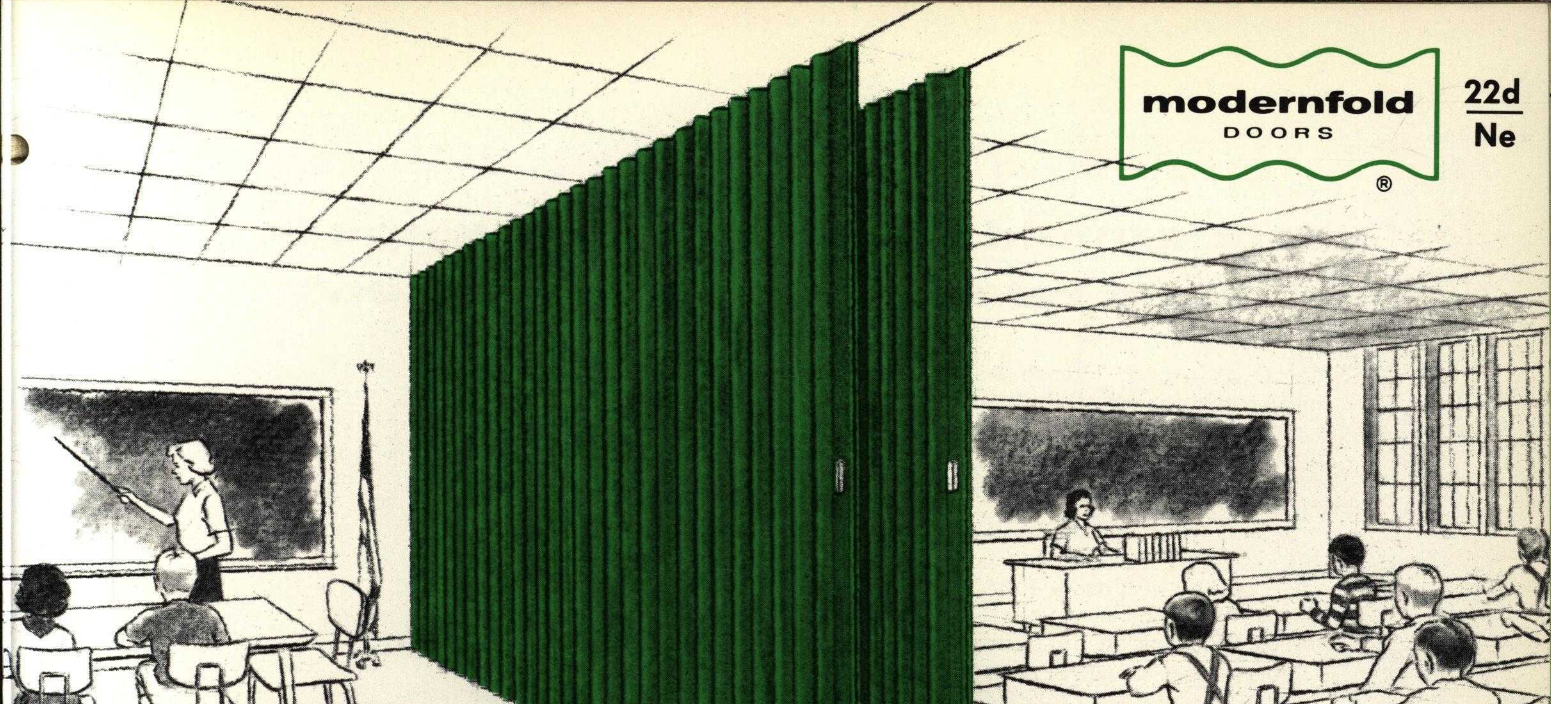
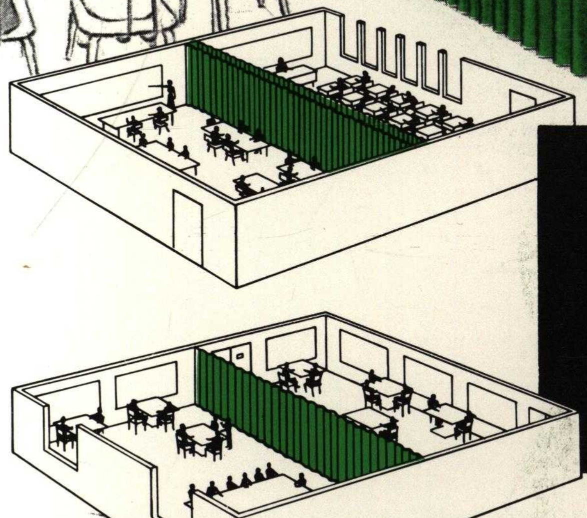
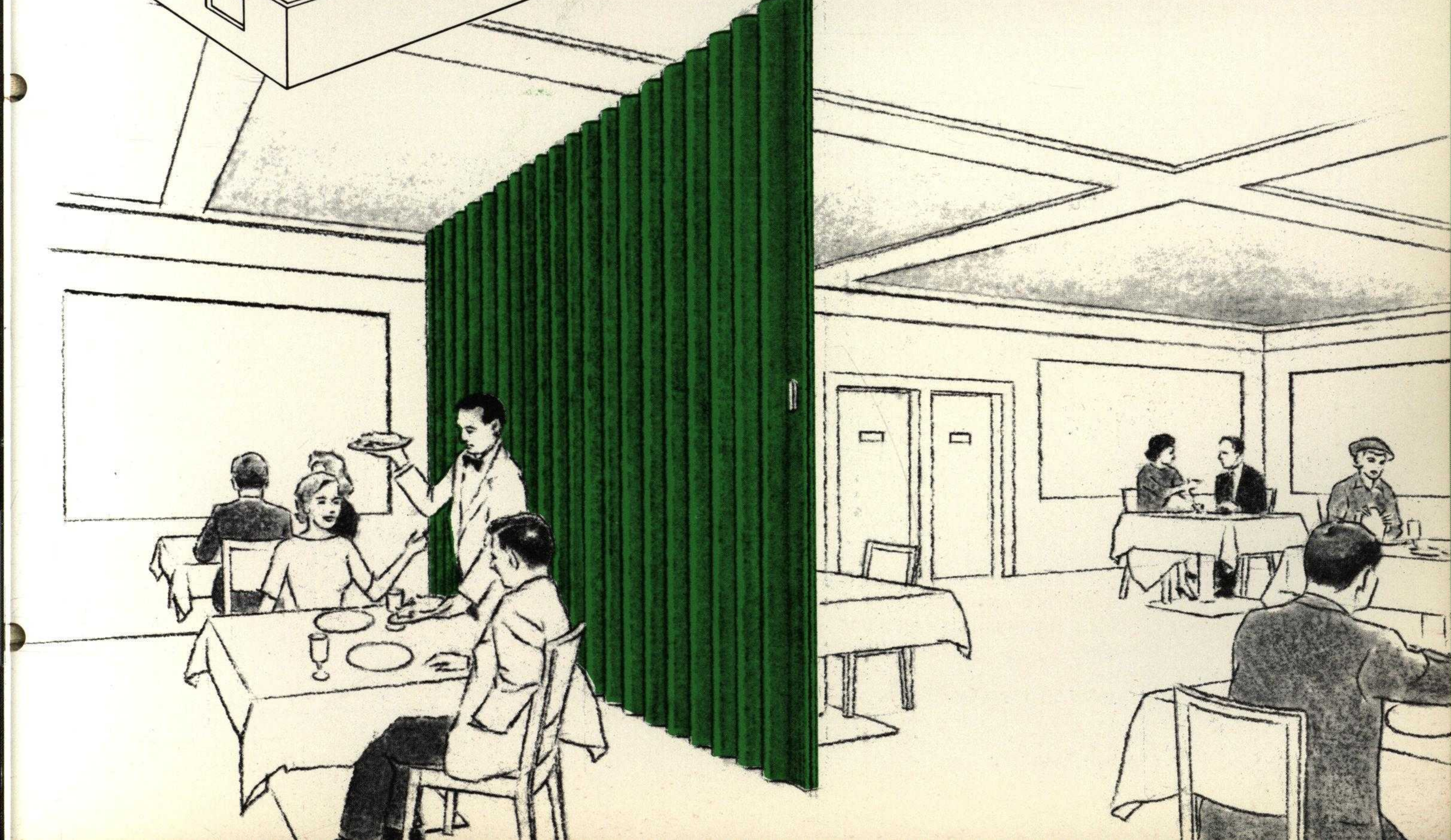




modernfold's
soundmaster
folding partitions



modernfold introduces a new age in sound retardant folding partitions

MODERNFOLD's new "Soundmaster" line of folding partitions has created new standards of performance for folding partitions. Available in two different models—the "80" and "120"—MODERNFOLD now makes it possible to combine space flexibility and sound control.

In addition to the conventional single partition application, the use of two "Soundmaster" partitions, side by side, makes it possible to achieve even greater sound insulating results—thus making the folding partition a truly practical solution to the more critical sound control problems.

Sound Testing Standards—All the data in the following tables were obtained by Richard Hamme of Geiger & Hamme Laboratories, Ann Arbor, Michigan. Mr. Hamme is a consultant in acoustics, and served on ASTM Committee E-6 on Methods of Testing Building Constructions (Committee that established test procedure E90-55).

The results of these tests (Ave. 1) show the average transmission loss values of the "Soundmaster 80" and the "Soundmaster 120"—both singly and in pairs—at all frequency levels.

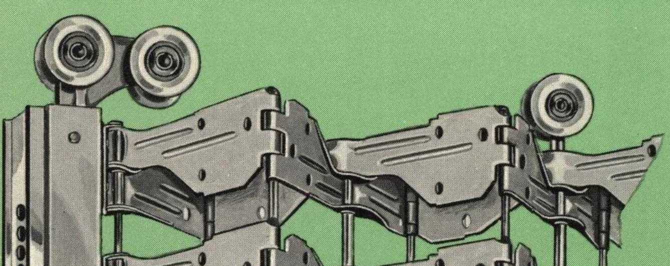
For comparison purposes only, the tests (Ave. 2) show the average transmission loss values for the more limited frequency range per folding door industry standards.

SOUND TRANSMISSION LOSS TESTS • GEIGER & HAMME LABORATORIES

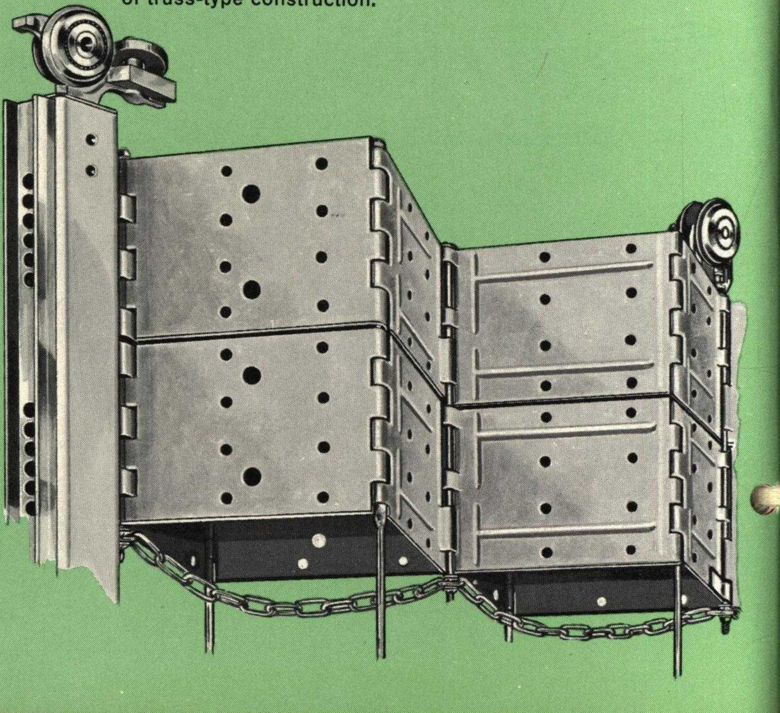
TRANSMISSION LOSS (db.) AT FREQUENCY (C.P.S.)

DOOR DESCRIPTION	125	177	250	354	500	707	1000	2000	4000	Ave. 1	Ave. 2
G & H Test #NC-18T "Soundmaster No. 80"	16	25	22	27	28	32	33	40	47	29.9	34.5
G & H Test #NC-16T "Soundmaster No. 120"	14	23	25	33	33	36	31	43	49	31.9	37.5
G & H Test #NC-17T Two (2) "Soundmaster No. 80"—12" O.C.	24	33	32	39	40	46	46	53	53	40.5	46.2
G & H Test #NC-19T Two (2) "Soundmaster No. 120"—15" O.C.	24	29	33	49	42	49	46	54	54	42.2	49.0

AVE. 1. Average of nine (9) test frequencies (125-4000 cps) per A.S.T.M. E90-55.
AVE. 2. Average of six (6) test frequencies (354-4000 cps) per Folding Door Industry Standards.



◀ "Soundmaster 80" partitions over 8′0" high are equipped with two rows of hinges at top —spaced one inch apart, and *welded* in place —to provide the extra strength and rigidity of truss-type construction.



"Soundmaster 120" partitions over 15′0" high are equipped with two rows of four inch high plates—*welded* in place—to provide unequalled rigidity and strength for a full eight inches at the top. ▶

modernfold's soundmaster partitions

construction features

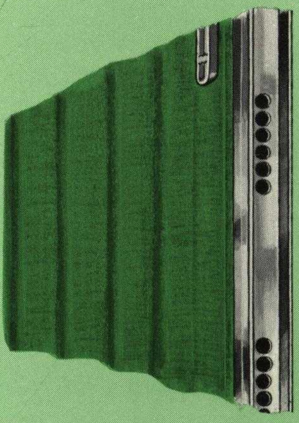
"Soundmaster" partitions are engineered specifically to reduce sound in two important ways: first, they provide mass through a specially developed and carefully manufactured chip board panel understructure. These chip board panels are .175 inch thick, joined by tough hinge material, and then vinyl coated for fire resistance—they are used on *both* sides of every "Soundmaster" partition.

Second, every "Soundmaster" partition is designed to seal every possible opening through which sound might pass. Sweep strips—which are rubberized fabric strips—are installed on the top and bottom edges of the partition, on both sides, to completely seal the clearance space required for proper operation. And "Soundmaster's" exclusive air release lead post seals completely within the wrap-around jamb moulding, where a deep layer of plastic foam assures positive contact along every inch of its length.

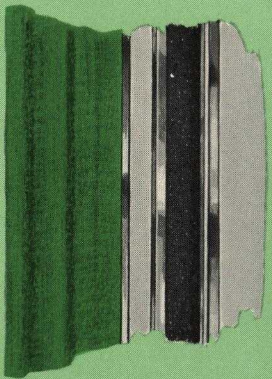
The result of this engineering is "Soundmaster"—a handsome product that appears to be identical to any other MODERNFOLD partition, yet provides the maximum amount of sound reduction available in a folding partition, and meets the most rigid New York City and Boston fire codes.*

*1. New York City Board of Standards and Appeals Cal No. 294-40-SR—Rules for Flameproof material. 2. Boston Fire Department—Terms and conditions promulgated by the head of the Fire Department governing the use of Decorative Materials in Public Buildings, Places of Assembly and in Stores. Fire Prevention Division Document No. 5.

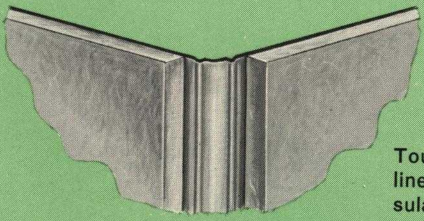
Exclusive, heavy duty closing latch operates through pendant pulls—assures snug seal between partition and wall moulding. Operation of closing latch is independent of lock supplied for security purposes.



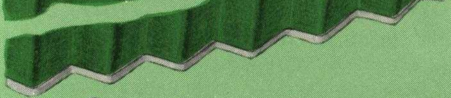
Air release outlets prevent entrapment of air when partitions are stacked.



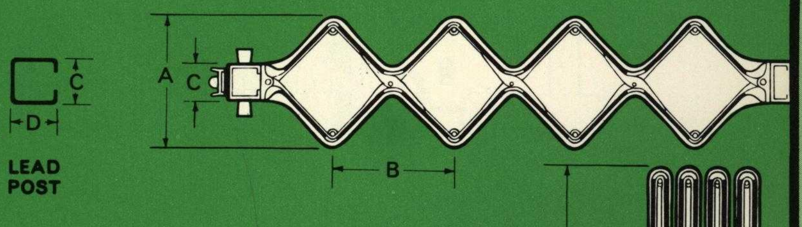
Extruded aluminum channels seal off all crevices at the lead post with lining of plastic foam.

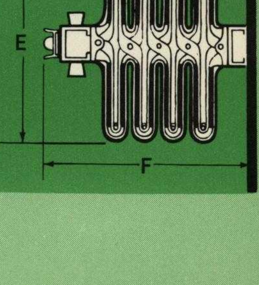


Tough, vinyl coated, chip board liner, on both sides of partition, insulates against sound.



Sweep strips, top and bottom, close all crevices around the partition.





Dimensions

	A	B	C	D	E	F
"Soundmaster 80"	6¼"	6½"	1¼"	1¼"	8⅞"	2⅛" per ft. of width plus 2¼" (average)
"Soundmaster 120"	7⅝"	9½"	1½"	1¾"	12⅝"	1½" per ft. of width plus 2¾" (average)

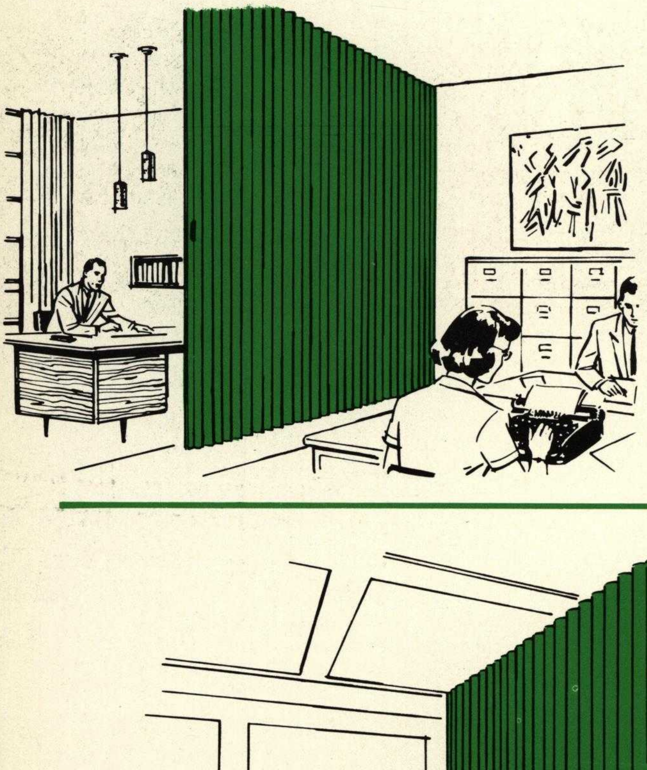
Acoustic Criteria for Specific Applications

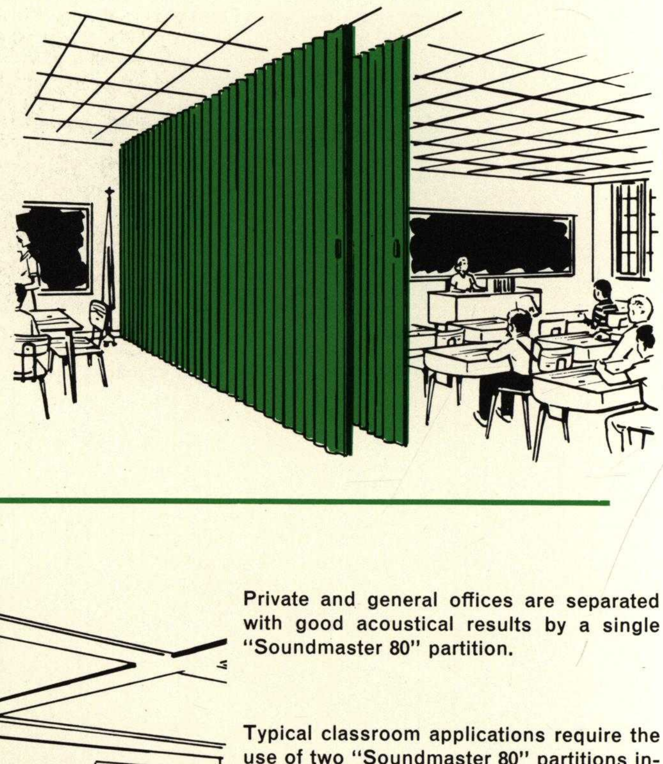
The highly complex nature of sound problems rules out the possibility of setting down any positive, inflexible regulations regarding its control. Such factors as background noise, unpleasant sounds, type of activity, etc. all play an important role in the overall picture.

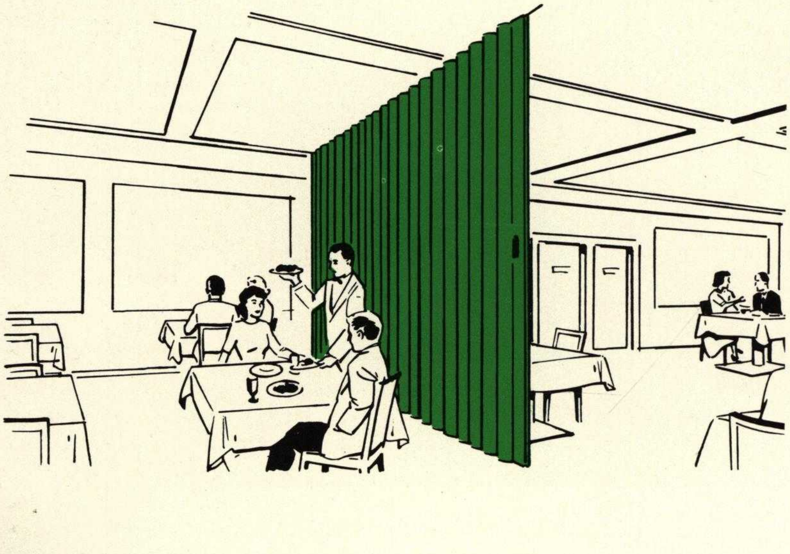
Nevertheless, a set of required transmission loss level curves has been established by Bolt, Beranek and Newman. This acoustic criteria has been tabulated for some of the more common situations, and along with each, the corresponding "Soundmaster" installation.

The following illustrations show three typical sound control situations, and the recommended "Soundmaster" solution.

For a detailed analysis of these—or any other specific installations—contact your MODERNFOLD distributor.







Private and general offices are separated with good acoustical results by a single "Soundmaster 80" partition.

Typical classroom applications require the use of two "Soundmaster 80" partitions installed parallel on 12" centers to achieve good acoustical performance.

A single "Soundmaster 120" provides good acoustical results in typical dining rooms, where private parties are often held while the public is being served in adjoining areas.

New Castle Products, Inc., New Castle, Indiana • Manufacturers of "Modernfold" Folding Doors, "Air Doors," "Modern-cote" Wall Coverings and "Peabody" School Furniture. In Canada: New Castle Products Canada, Ltd., St. Lambert, Que.

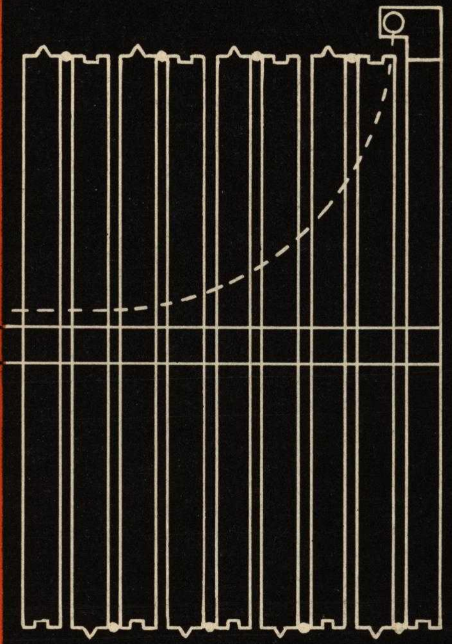
FORM 1240

PRINTED IN U. S. A.

Richards-Wilcox

R
W

FoldeR-Way®



PARTITIONS

1960

electrically operated

manually operated

RICHARDS-WILCOX
Manufacturing Company
AURORA • ILLINOIS

RICHARDS-WILCOX

FoldeR-Way® SOUND INSULATING and SOUND RETARDING

PARTITIONS

for gymnasiums • auditoriums • school and church classrooms • hotels • motor inns • motels • dining rooms • meeting halls • etc.

... a real answer to some of the problems of today's high construction costs! R-W FoldeR-Way partitions shave costs from the beginning—by permitting versatile and extensive use of every available foot of floor area in planning. In schools, churches, hotels, restaurants—for gymnasiums, auditoriums, classrooms, stages, swimming pools—FoldeR-Way partitions provide space-saving, profitable dividers for wide-open areas, selectively barring passage of sound, light and traffic.

Backed by seventy-five years of practical manufacturing experience, Richards-Wilcox offers a **complete** line of folding partitions—an answer to every problem. Outstanding installations in all parts of the country attest the popularity and practicality of FoldeR-Way partitions, automatically and manually operated. They can be furnished in all types and combinations of wood, vinyls, metals, or duck coverings to meet the most exacting decorating specifications.

Let your factory-trained R-W engineer survey your problem and recommend the right FoldeR-Way partition for the task. Contact the nearest Richards-Wilcox branch office, listed on back cover.

design

Competent Richards-Wilcox engineers are ready to survey your folding partition problems and recommend the FoldeR-Way partition to produce the desired result. Years of research engineering and manufacturing experience go into the design of each R-W folding partition.

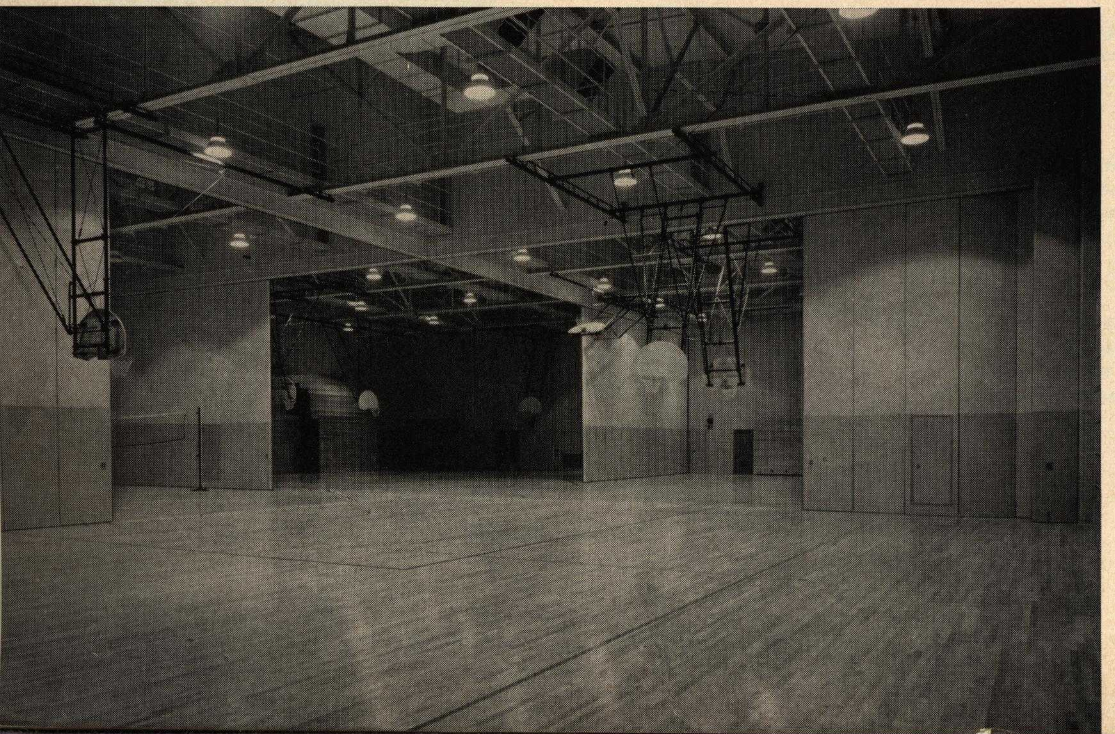
production

Extensive modern plant facilities and equipment, coupled with painstaking quality control, enable Richards-Wilcox to produce a complete line of unexcelled folding partitions for every purse and purpose. Materials for each component of every partition are carefully selected for maximum performance and minimum upkeep. Their assembly assures a partition of lasting satisfaction.

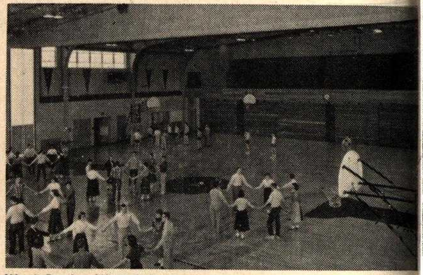
R-W guarantee

Upon completion of the installation of any R-W FoldeR-Way partition, the Richards-Wilcox Manufacturing Company will furnish its standard written guarantee.

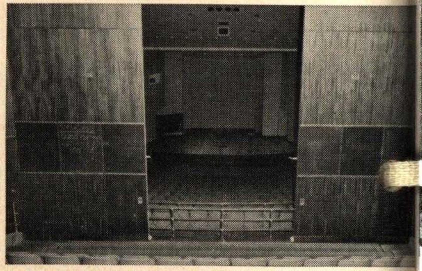
Four way FoldeR-Way partition. Janesville, Wisconsin Senior High School. Law, Law, Potter & Nystrom, Architects



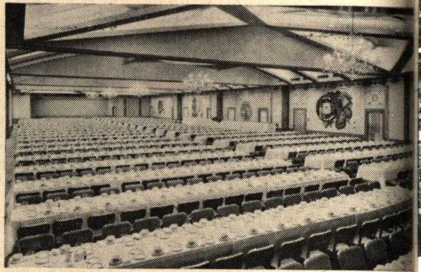
partitions folded



West Senior High School
Aurora, Illinois
Architects: Childs & Smith
Chicago, Illinois



University of Pittsburgh
Pittsburgh, Pennsylvania
Architects: Schmidt, Garden & Erickson, Chicago, Illinois

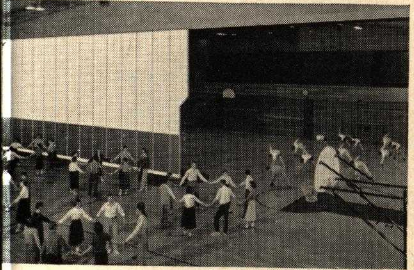


Hall of States
Hotel Leamington
Minneapolis, Minn.

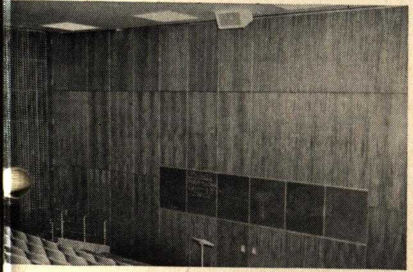
Grace McWayne School
Batavia, Illinois
Architect: Raymond A. Orput
Rockford, Illinois

Instruction area
U.S. Army Staff
and Command School

partitions in place

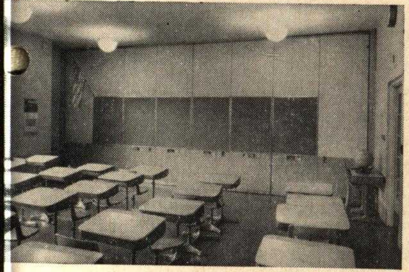


The first folding aluminum gym partition anywhere. Deluxe automatic, R-W No. 200 panels



Deluxe automatic
Specially veneered No. 368CC Panel with chalkboard.

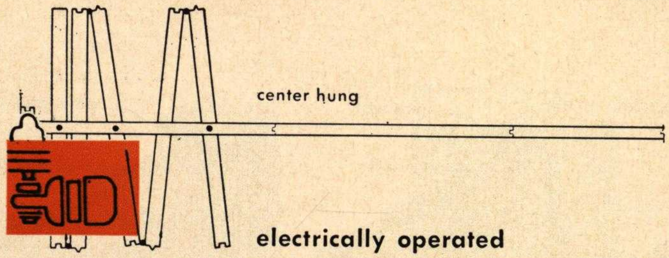
No. 135 top supported center hung. No. 368 panels. Special application.



No. 237 top supported edge hung installation. No. 368 panels with chalkboard.

Four way partition. No. 535 operation, floor supported, No. 368B panels.

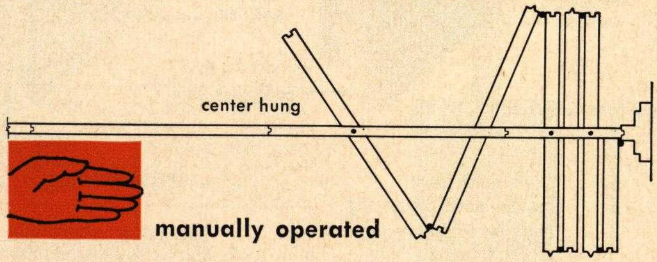
types of operation



electrically operated

fully automatic • top hung • height as required

Folding, unfolding, locking, unlocking, and sound-retarding accomplished by simply turning the switch key. Opened partition positively locks to floor without bolts, keepers, guides or tracks at floor. Positive roller chain drive. No opening is too wide or high for this automatic equipment. R-W Deluxe Automatic No. 405-888.

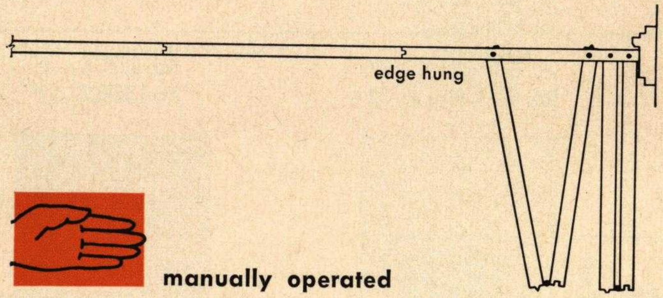


manually operated

all panels hinged together

top hung (at panel centers) • height as required

Recommended for all sizes and types of openings whenever manual operation is preferred and adequate overhead support is provided. Doesn't require floor track or guides. Floating floor seal available. Flush throw bolts provided. R-W No. 135.



manually operated

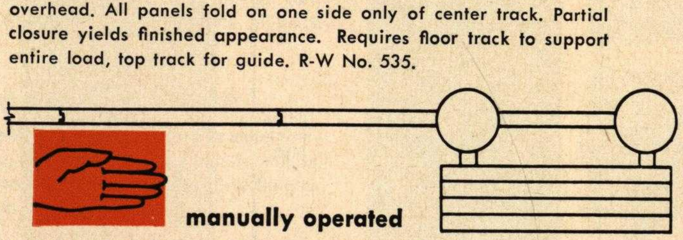
panels hinged in pairs

top hung (at panel edges) • heights up to 10'-0"

Recommended for all widths of openings where adequate overhead support is provided. Panels fold on one side only of the center track—ideal for proscenium arch installations. Requires floor track for guide purposes only. Pair operation permits partial closures with finished appearance. R-W No. 237.

floor bearing (at panel edges) • height as required

For use when load must be supported at floor rather than from overhead. All panels fold on one side only of center track. Partial closure yields finished appearance. Requires floor track to support entire load, top track for guide. R-W No. 535.



manually operated

individual top hung (at panel edges) • height as required

Recommended for installations that require the ultimate in flexibility and sound control. This modular system permits use of individual panels in any location. Panels require adequate means for supporting the load from overhead. Track, hangers and brackets can be completely concealed above the ceiling, no floor track or guides are required. R-W No. 442.

Richards-Wilcox
FoldeR-Way®
PARTITIONS

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R-W No. 535—floor bearing 9
R-W No. 442—top hung 10
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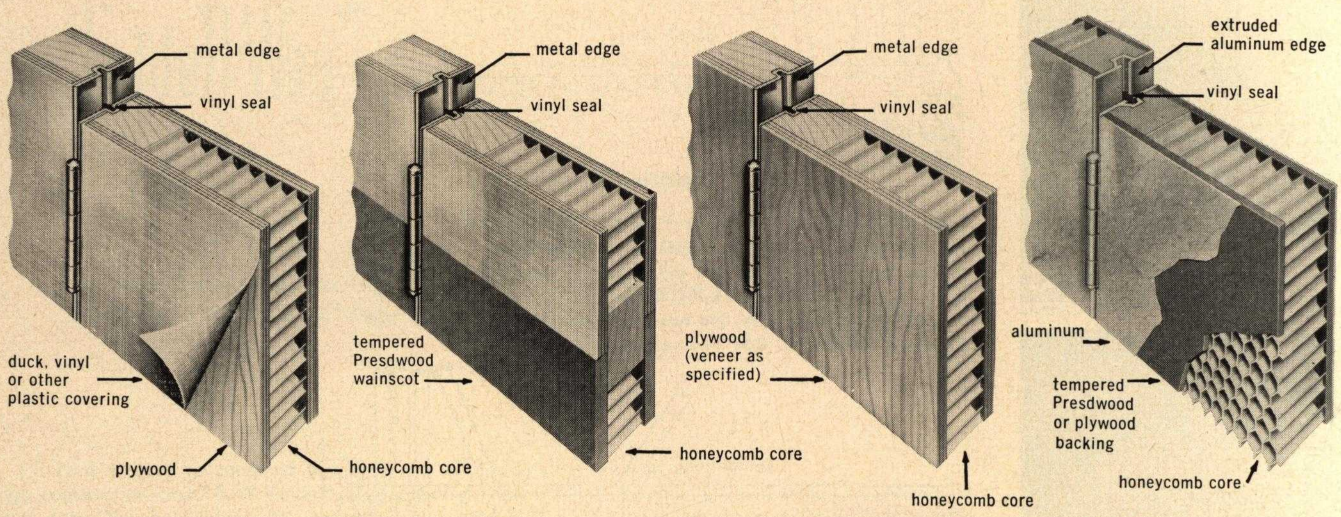
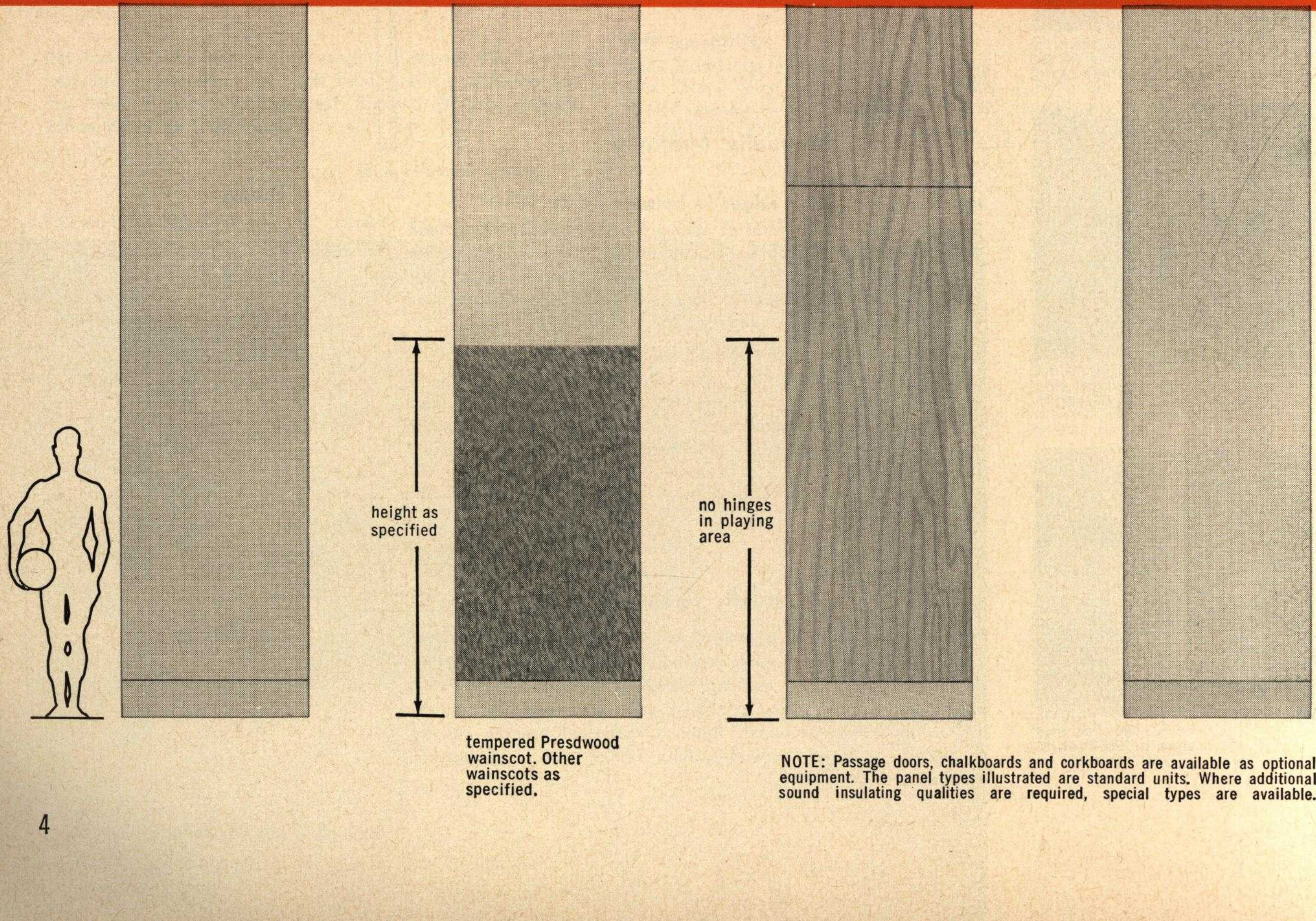
types of panels • construction


metal edge
vinyl seal
duck, vinyl or other plastic covering
plywood
honeycomb core
metal edge
vinyl seal
tempered Presdwood wainscot
honeycomb core
metal edge
vinyl seal
plywood (veneer as specified)
honeycomb core
extruded aluminum edge
vinyl seal
aluminum
tempered Presdwood or plywood backing
honeycomb core

partition operation	duck, vinyl or other plastic covering	duck, vinyl or other plastic covering	plywood facing	aluminum facing
electrical	No. 368—3″	No. 368B—3″ No. 368C—3″	No. 368CC—3″	No. 200—3″
manual	No. 368—3″ No. 1368—2″	No. 368 B or C—3″ No. 1368 B or C—2″	No. 368CC—3″ No 1368CC—2″	No. 200—3″


height as specified
no hinges in playing area

tempered Presdwood wainscot. Other wainscots as specified.

NOTE: Passage doors, chalkboards and corkboards are available as optional equipment. The panel types illustrated are standard units. Where additional sound insulating qualities are required, special types are available.

operating equipment

electrically operated

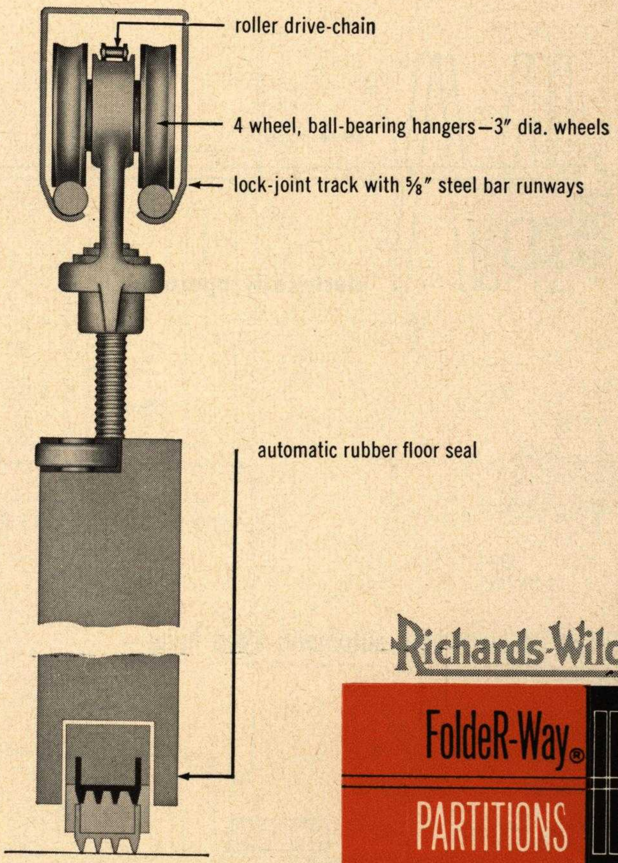
R-W DeLuxe fully automatic partition • top hung

power unit—Electrical equipment includes motor, speed reducer, magnetic brake, relay, friction clutch, limit switches and key switch with OPEN-STOP-CLOSE control. Unit is wired, assembled and ready for connection to power source. Emergency release provided permits manual operation in case of temporary power failure. Power unit assures correct operation under all conditions, eliminating entirely the human element.

motors	width of openings	rates of travel
¾ h.p.	to 75′ wide	30 ft. per min.
1 h.p.	75′ to 115′ wide	30 ft. per min.
1½ h.p.	115′ to 150′ wide	30 ft. per min.

hardware—No. 888 adjustable hangers and No. 888 lock-joint enclosed track (illustrated) guarantee satisfactory operation for the life of the building. Track is rigidly fixed to supporting truss by direct attachment through the use of steel brackets and ⅝″ threaded drop rods. Fully automatic floor seals are self-adjusting to uneven floors. Positive non-sag roller chain drive operates over ball bearing sprockets. Equipment also includes all necessary automatic folding and straightening devices.

You turn the switch key—R-W does the rest.


roller drive-chain
4 wheel, ball-bearing hangers—3″ dia. wheels
lock-joint track with ⅝″ steel bar runways
automatic rubber floor seal

Richards-Wilcox
FoldeR-Way®
PARTITIONS

manually operated

R-W No. 135 top-hung partition • height as required

Operating equipment includes four-wheel ball bearing adjustable hangers, lock joint enclosed track, steel supporting brackets, flush pulls, flush bolts, hinges and all operating devices for jamb and pocket doors. Hangers are located at each alternate full width door. Hardware correctly scaled to weight and size of doors.

R-W No. 237 top-hung partition • to 10′ high

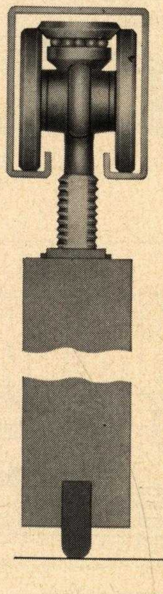
Operating equipment includes adjustable two-wheel ball bearing hangers, self-adjusting floor guides, R-W lock-joint enclosed track, steel supporting brackets, flush pulls, flush bolts, and either butt or invisible hinges. Hangers are located at outside corner of each panel pair.

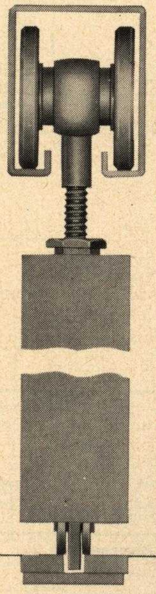
R-W No. 535 floor bearing partition • height as required

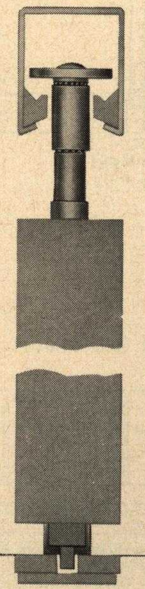
Operating equipment includes steel top and bottom tracks, adjustable bottom rollers, top guides, pivots, spring expansion units, safety folding-locking mechanism, and either butt or invisible hinges. Each pair of doors is carried on two bottom rollers.

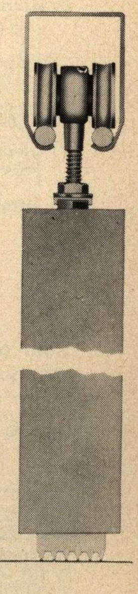
R-W No. 442 individual top hung partition • height as required

Operating equipment includes R-W No. 2035 or No. 888 enclosed track, steel supporting brackets, ball bearing hangers with anchor bolt attachment, flush pulls, directional positioner units and seals. Each door is carried on two hangers.

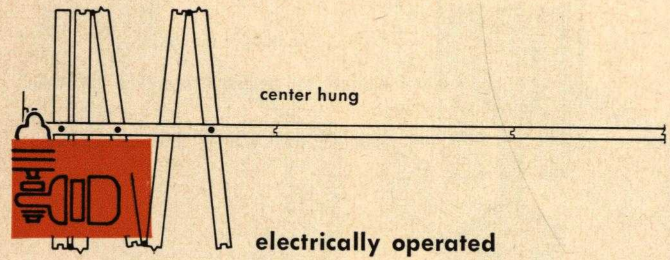

R-W No. 135


R-W No. 237


R-W No. 535

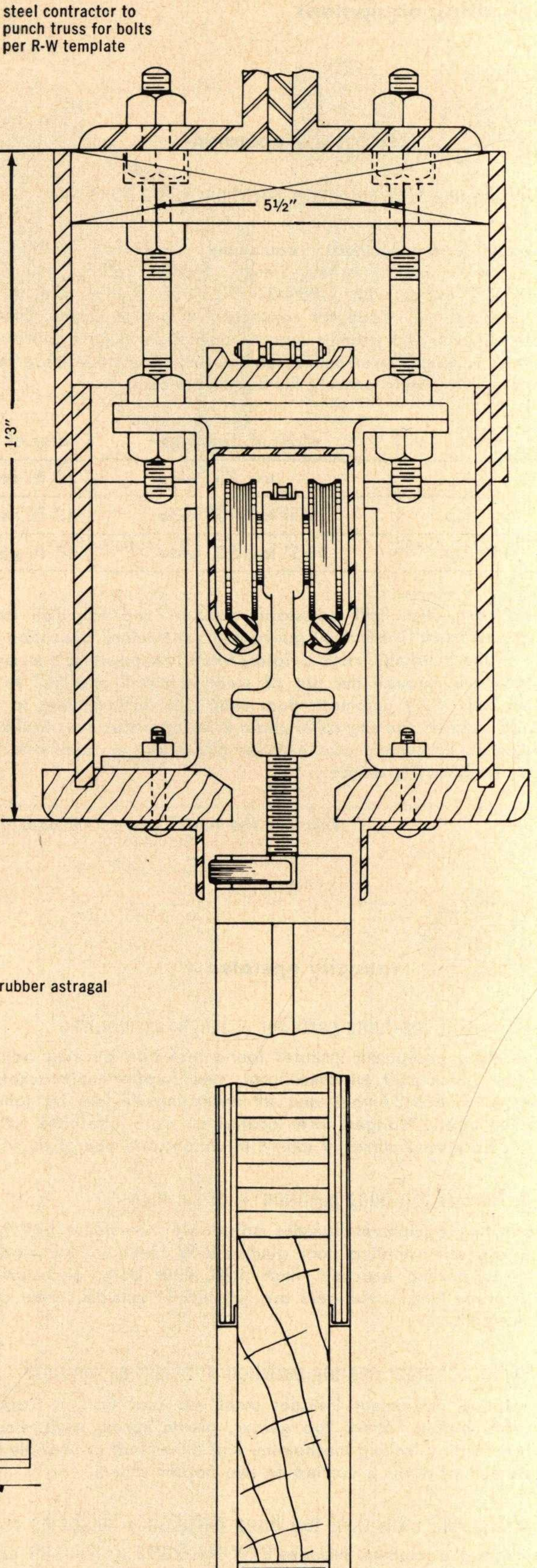

R-W No. 442

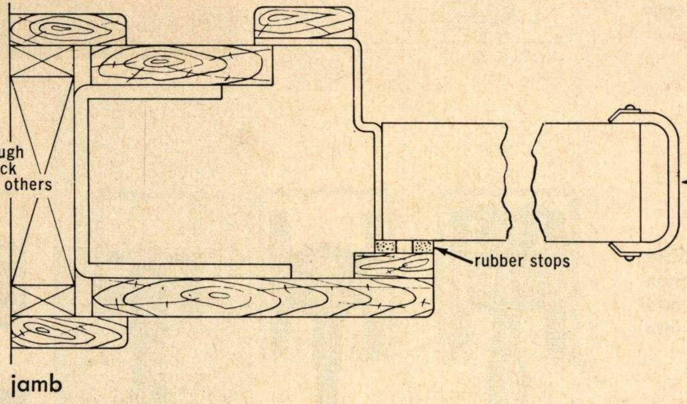
details scale: 3″ = 1′–0″


center hung

electrically operated

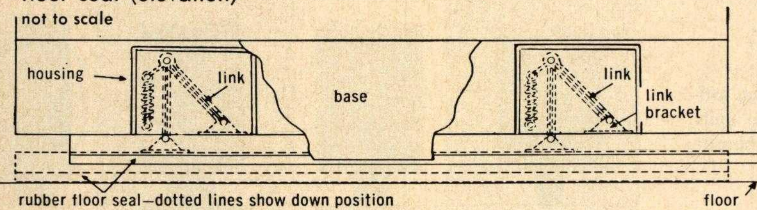
R-W De Luxe fully automatic — top hung —


steel contractor to punch truss for bolts per R-W template
5½″
1′3″


rough buck by others
rubber astragal
rubber stops

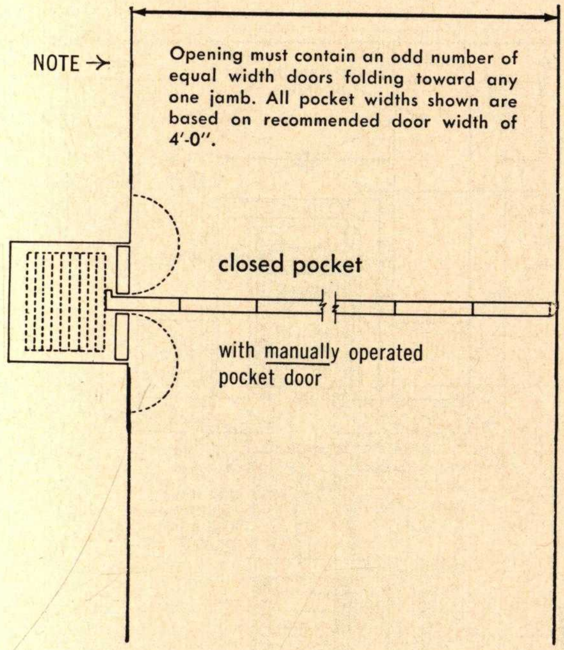
jamb

floor seal (elevation)
not to scale


housing
link
base
link
link bracket
rubber floor seal—dotted lines show down position
floor

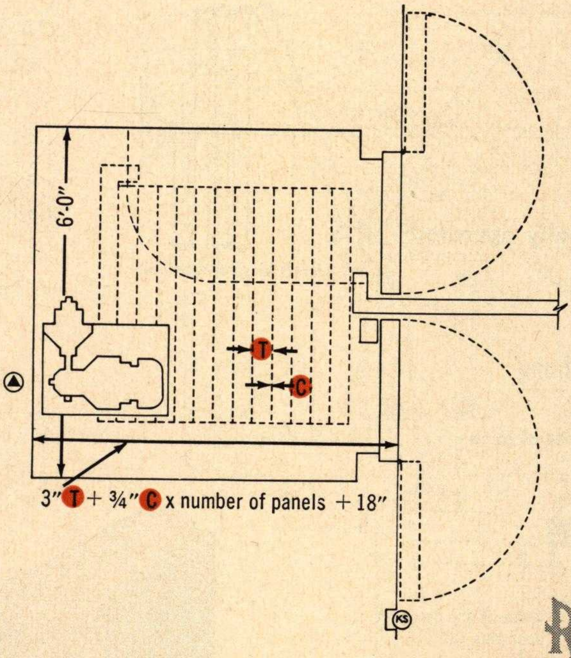
typical plans of installation

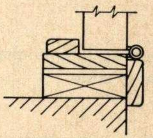
NOTE → Opening must contain an odd number of equal width doors folding toward any one jamb. All pocket widths shown are based on recommended door width of 4′-0″.



closed pocket

with manually operated pocket door


6′-0″
T
C
3″ T + ¾″ C x number of panels + 18″
KS



jamb
1½″ = 1′

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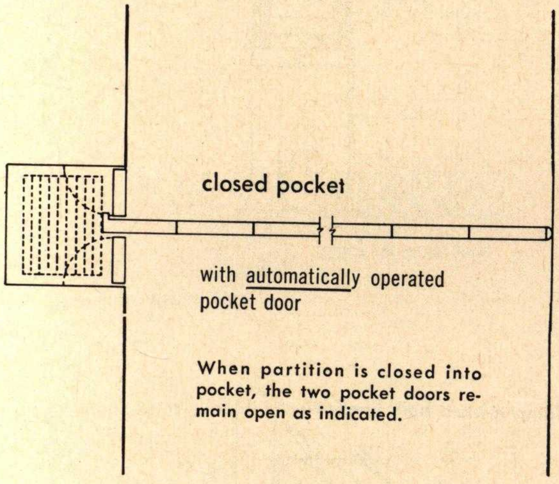
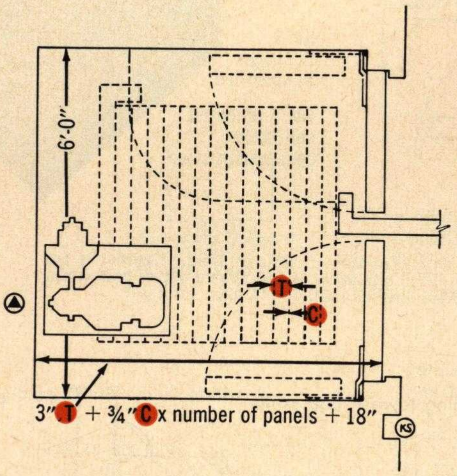
PARTITIONS

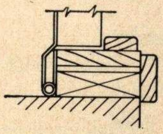


closed pocket

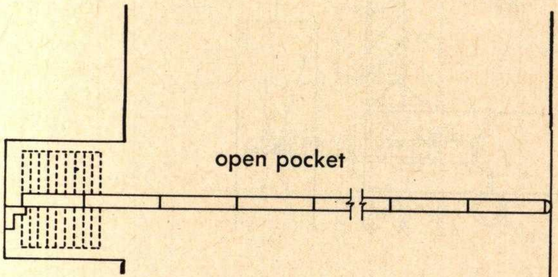
with automatically operated pocket door

When partition is closed into pocket, the two pocket doors remain open as indicated.

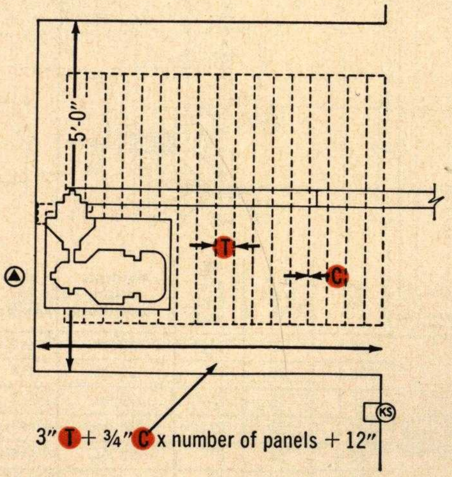

6′-0″
T
C
3″ T + ¾″ C x number of panels + 18″
KS



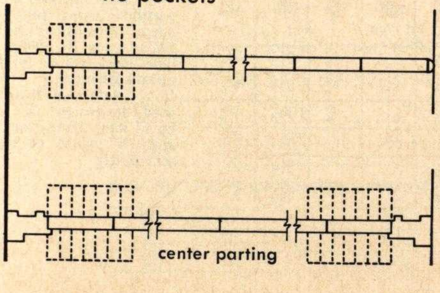
jamb
1½″ = 1′



open pocket


5′-0″
T
C
3″ T + ¾″ C x number of panels + 12″
KS

no pockets

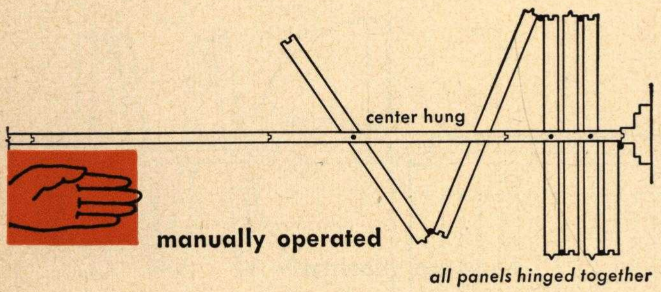


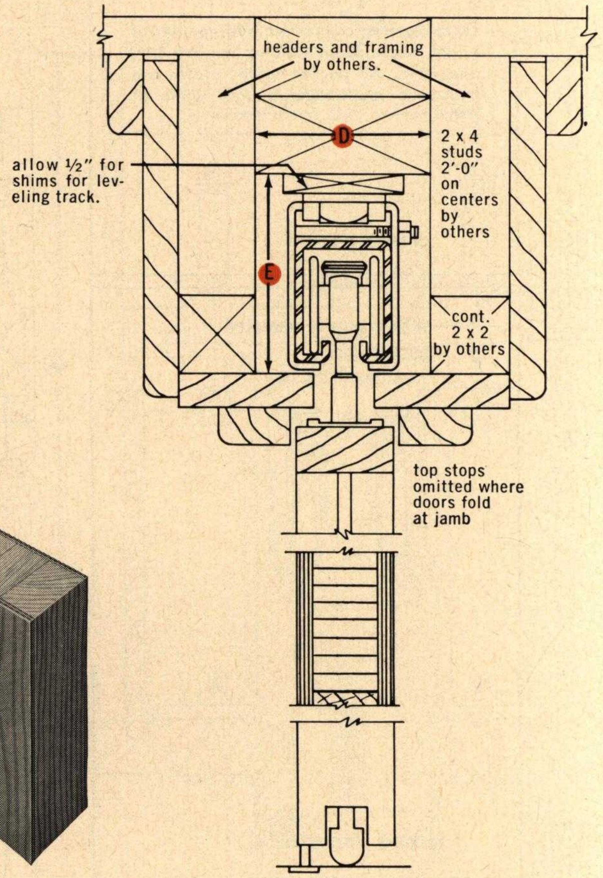
center parting

Ⓐ motor outlet
Motor outlet located at top of opening. Electrical contractor to provide 3 #14 wires from key switch. Recommended power: 220 or 440 volts, 60 cycle, 3 phase.

Ⓚ key switch
Key switch outlet recommended 4′-6″ above floor but far enough from pocket to permit 180° operation of pocket door.

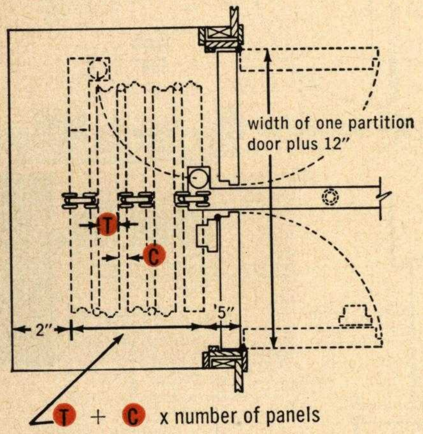
details scale: 3″ = 1′–0″

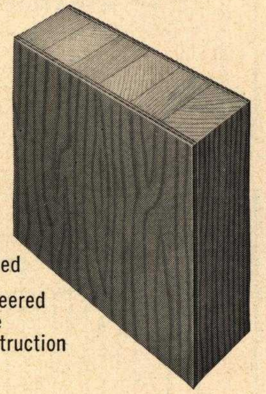

center hung
manually operated
all panels hinged together


headers and framing by others.
D
2 x 4 studs 2′-0″ on centers by others
allow ½″ for shims for leveling track.
E
cont. 2 x 2 by others
top stops omitted where doors fold at jamb

R-W No. 135—top hung

folding into pocket—special jamb
not to scale


width of one partition door plus 12″
T
C
2″
5″
T + C x number of panels

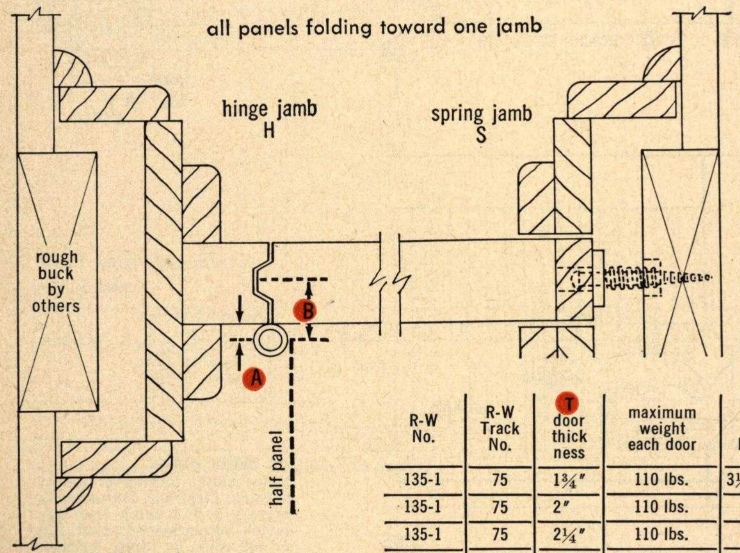


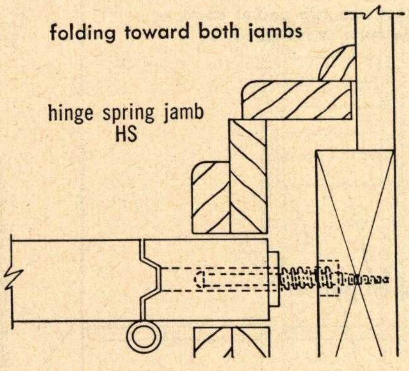
No. 9
thickness
as specified

wood veneered
solid core
door construction

Pocket arrangement shown requires an odd number of full size doors. If pocket is not used, a half door and an odd number of full size doors folding toward one or both jambs are required. Recommended door widths: 3′-0″ to 4′-0″.

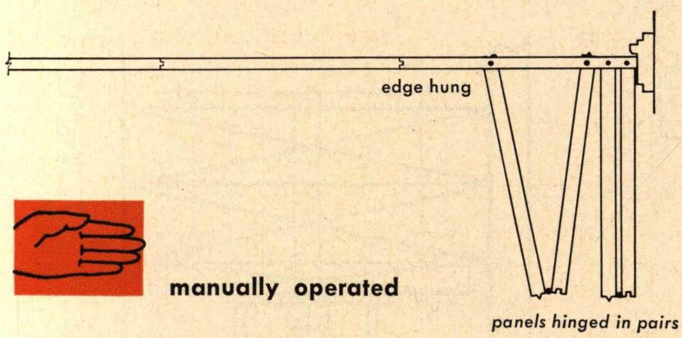
jambs


all panels folding toward one jamb
hinge jamb
H
spring jamb
S
rough buck by others
B
A
half panel


folding toward both jambs
hinge spring jamb
HS

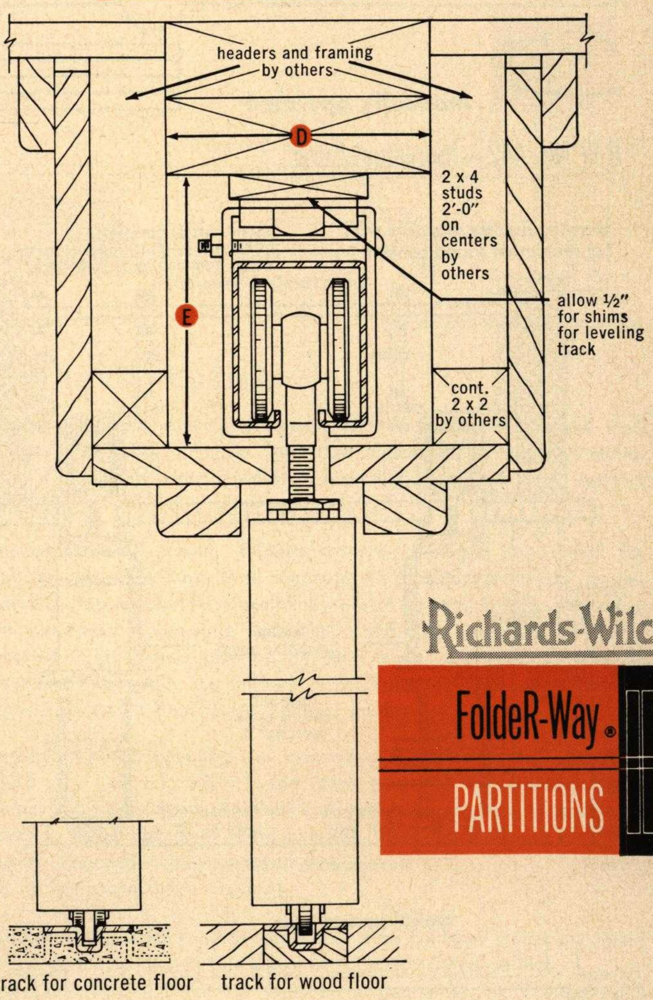
R-W No.	R-W Track No.	T door thickness	maximum weight each door	size of butts	A	B	C	D	E
135-1	75	1¾″	110 lbs.	3½x3½	⅜	1¼	¾	3⅝	4¼
135-1	75	2″	110 lbs.	4x4	⅜	1⅜	¾	3⅝	4¼
135-1	75	2¼″	110 lbs.	4x4	⅜	1½	¾	3⅝	4¼
135-2	33	2¼″	225 lbs.	4½x4½	½	1⅝	1	5⅝	5¾
135-2	33	3″	225 lbs.	4½x4½	½	2	1	5⅝	5¾
135-3	888	3″	Over 225 lbs.	4½x4½	½	2	1	5⅝	9

This table applies only to partitions using No. 9 wood doors. (Dimensions for partitions using No. 368 or 1368 type doors will be furnished upon application.)
If ¼″ slate chalkboards are used, dimension "C" must be 1″ min. Dimensions "A" and "B" must be revised accordingly.


edge hung
panels hinged in pairs

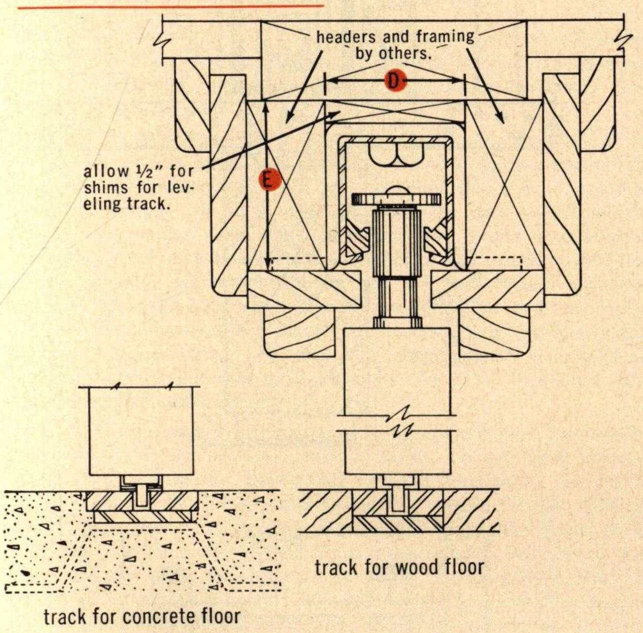
manually operated

R-W No. 237—top hung


headers and framing by others
D
E
2 x 4 studs 2'-0" on centers by others
allow ½" for shims for leveling track
cont. 2 x 2 by others

track for concrete floor track for wood floor

R-W No. 535—floor bearing


headers and framing by others.
D
E
allow ½" for shims for leveling track.

track for wood floor

track for concrete floor

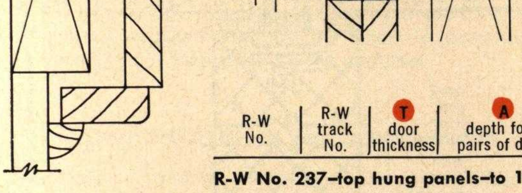
Richards-Wilcox

FoldeR-Way®

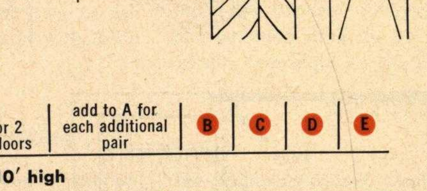
PARTITIONS

jambs

all panels folding toward one jamb

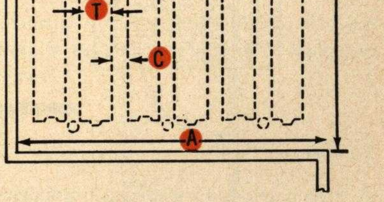

pivot jamb
P
spring jamb
S
rough buck by others

folding toward both jambs


pivot-spring jamb
PS

this door equipped with bottom roller and top guide instead of pivots

folding into pocket—special jambs
not to scale

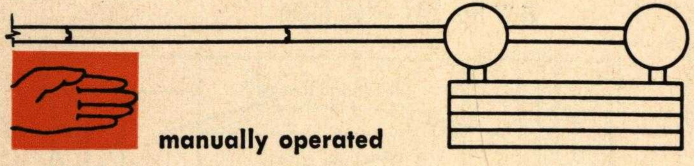


min. clear opening width equals width of one partition panel plus 2".

R-W No.	R-W track No.	Ⓣ door thickness	Ⓐ depth for 2 pairs of doors	add to A for each additional pair	Ⓑ	Ⓒ	Ⓓ	Ⓔ
R-W No. 237–top hung panels–to 10′ high								
237-2	75	1¾"	11"	4½"	3⅛"	½"	3"	4¼"
237-3	33	2¼"	14"	6"	3⅜"	¾"	4¼"	5¾"
237-3	33	3"	17"	7½"	3¾"	¾"	4¼"	5¾"
R-W No. 535–floor bearing panels–height as required								
535	535	1¾"	13¼"	5⅛"	2⅜"	13/16"	3"	3⅝"
535	535	2¼"	16¼"	6⅝"	2 13/16"	1 1/16"	3"	3⅝"
535	535	3"	19¾"	8⅜"	3½"	1 3/16"	3"	3⅝"

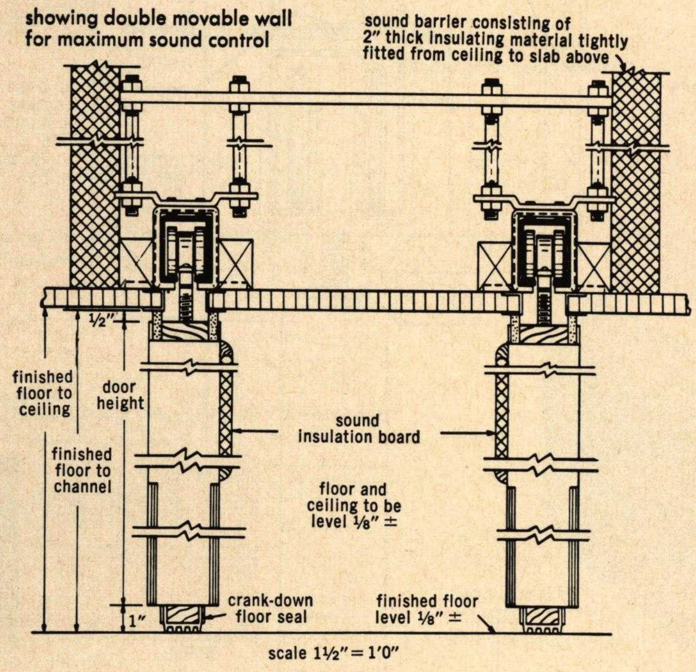
Table gives pocket clearances for partitions using No. 9 wood doors only. Clearances for No 368 or 1368 type doors on application.

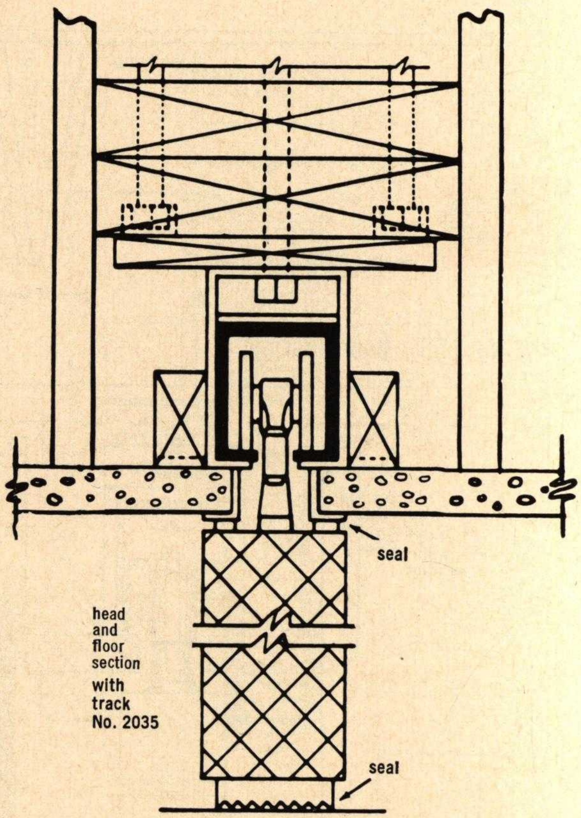
details scale: 3″ = 1′–0

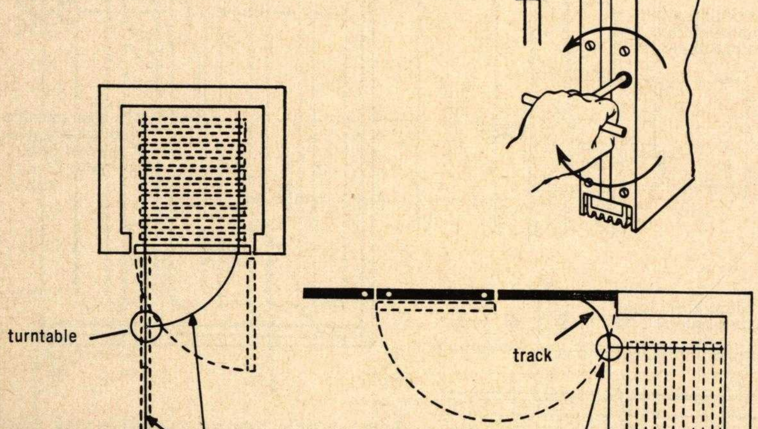


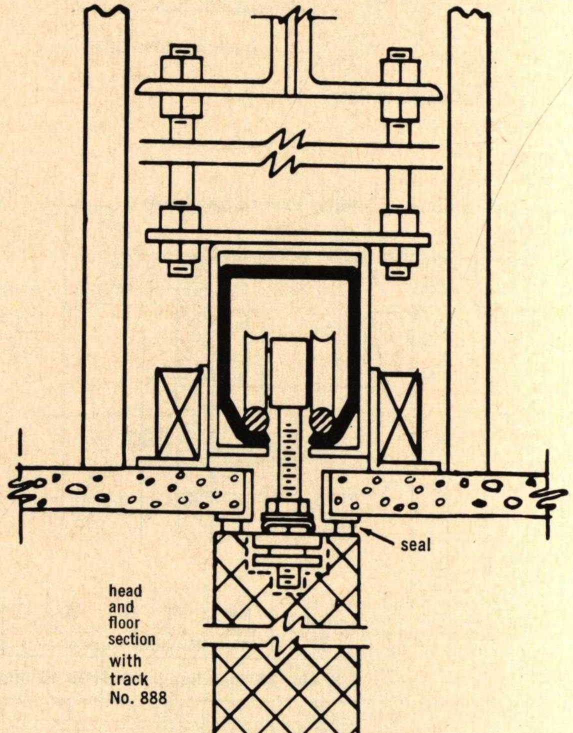
manually operated

R-W No. 442—individual hung

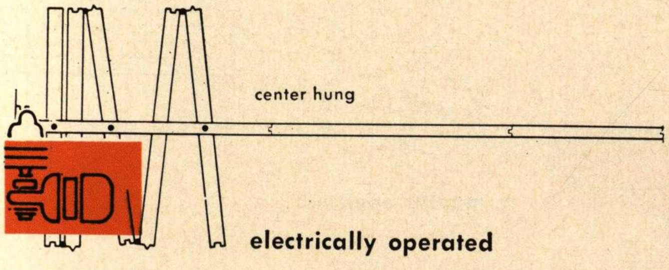

showing double movable wall for maximum sound control
sound barrier consisting of 2″ thick insulating material tightly fitted from ceiling to slab above
½″
finished floor to ceiling
door height
finished floor to channel
sound insulation board
floor and ceiling to be level ⅛″ ±
1″
crank-down floor seal
finished floor level ⅛″ ±
scale 1½″ = 1′0″

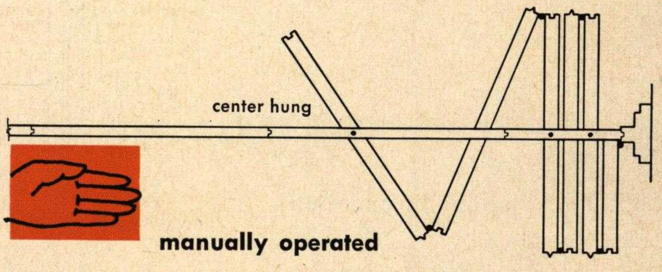

seal
head and floor section
with track No. 2035
seal


typical storage area
stacking area
turntable
track
track
turntables


seal
head and floor section
with track No. 888
seal

architectural specifications





R-W DeLuxe Fully Automatic—top hung

general—Sound-retarding folding partitions shown on plans shall be R-W DeLuxe Automatic Electric "FoldeR-Way" type as manufactured, installed and guaranteed by the Richards-Wilcox Company, Aurora, Illinois.

operation—A single electric operating mechanism located at top of opening at side jamb shall provide automatic folding and unfolding, locking and unlocking of all partition doors with complete electrical control of all operations from the key switch located as shown on plan. Operation shall provide a one inch minimum operating clearance between the bottom of the partition and floor during opening and closing cycle, but the final closing movement shall automatically cause the entire partition to seal this space against the transmission of sound by compressing the heavy continuous moulded rubber seal and also lock all doors in fully closed position without the use of floor bolts, keepers, levers or other manually operated devices.

operating equipment—The operating equipment shall be complete with motor, speed reducer, friction clutch, relays, limit switches, key control switch and emergency release mechanism. Supporting track shall be R-W No. 888 lock-joint enclosed type with ⅝″ cold rolled steel bar runways. Track shall be rigidly fixed to the supporting structure by direct attachment through the use of steel brackets and ⅝″ threaded drop rods. The partition shall be operated on No. 888 heavy duty four-wheel, ball-bearing hangers with 3″ diameter wheels. Installation shall also include all necessary automatic folding and straightening devices. All operating hardware shall be concealed.

panel construction—Partition doors shall be sound-retarding No. ...... (as detailed on page 4). All vertical edges shall be finished with continuous metal hinge strips insulated with vinyl.

trim—Finished head and side trim shall be considered a part of the partition installation.

other equipment (*optional*)—Pocket doors, passage doors, corkboards, chalkboards.

installation and guarantee—Upon their completion of the installation, the Richards-Wilcox Manufacturing Company shall furnish their written guarantee covering satisfactory workmanship, materials, installation, and operation.

work by others—All rough bucks, outlets, conduits, wiring, necessary electrical work and connections to operator and switches at the site, filling, staining, painting, and punching of truss to receive track brackets shall be by others in accordance with R-W standard details approved by the architect.

R-W No. 135—top hung

general—Sound-retarding folding partitions shown on plans shall be R-W No. 135 Manually Operated "FoldeR-Way" type as manufactured by the Richards-Wilcox Manufacturing Company, Aurora, Illinois.

operation—All panels folding toward a single jamb shall be hinged together and shall operate as a unit. Alternate panels shall be top-supported at center by a ball bearing hanger operating in overhead concealed lock-joint track. The partition shall be locked in its closed position by flush bolts operating in keepers installed flush with the finished floor. This operation shall not require the use of floor tracks or floor guides.

operating equipment—The operating equipment shall be R-W 135 .... (−1, −2, −3: see table page 8) with steel lock-joint track and necessary four wheel ball bearing hangers with concealed anchor bolt attachment, steel brackets, pulls, bolts, hinges and floor seals. Exposed hardware shall be finished .... (specify U. S. Standard finish number.)

panel construction—Partition doors shall be No.9 wood veneered solid core construction (see page 8) or sound retarding No............... (see details page 4). All vertical edges shall be finished with continuous metal hinge strips insulated with vinyl.

other equipment (*optional*)—Pocket doors, passage door, corkboards (one or both sides), chalkboards (one or both sides), floor seals (No. 135 full floating Sound-retarding Floor Seals recommended for all No. 135 partitions using sound-retarding panels).

installation—The partitions consisting of all operating hardware doors and trim as specified, shall be furnished and installed complete by Richards-Wilcox Manufacturing Company.

guarantee—Upon their completion of the installation, the Richards-Wilcox Manufacturing Company shall furnish its written guarantee covering satisfactory workmanship, materials, installation, and operation.

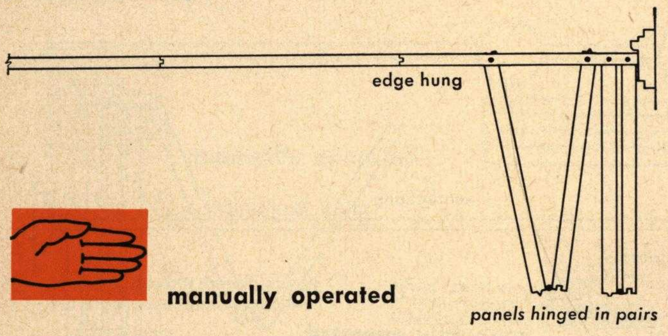
work by others—All rough bucks, track supports, filling, staining and painting shall be by others in accordance with R-W standard details approved by the architect.

. . . if your problem isn't answered in this catalog . . .

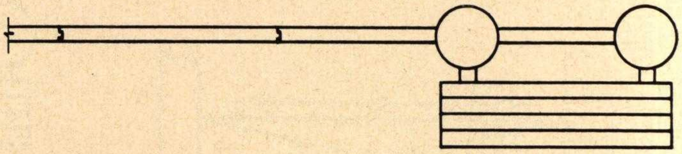
Many folding partition problems do not lend themselves to solution by the standard arrangements covered in this catalog. But there is an ideal R-W "FoldeR-Way" partition for every problem involving the effective division of space, traffic and sound. R-W Folding Partitions may be designed and "custom" constructed of economical standard component parts to meet almost any conceivable situation.

The Richards-Wilcox Manufacturing Company maintains a staff of partition Engineers backed by years of experience in the field. At your request they will make an engineering survey of your building plans or present facilities and submit a report graphically illustrating how R-W Folding Partitions will meet your need. Request your survey today. There is no charge or obligation for this R-W Service.

architectural specifications



manually operated



manually operated

R-W No. 237—top hung

heights up to 10′-0″ high

R-W No. 535—floor bearing

height as required

general—Sound-retarding pair-operated partitions as shown on plans shall be R-W No. .... (specify No. 237 if top hung or No. 535 if floor bearing) manually operated "FoldeR-Way" type as manufactured by Richards-Wilcox Manufacturing Company, Aurora, Illinois.

operation—Partition operation shall provide for subdivision into a series of independently operated units, each single unit to consist of two equal width edge-supported panels hinged together. Each pair shall be equipped with folding-locking mechanism which shall hold panels rigidly in their closed position.

operating equipment—The operating equipment shall be R-W No. .... (specify No. 237 if top hung—for doors up to 10′ high—or No. 535 if floor bearing—height as required). Equipment shall include top and bottom tracks, brackets, hangers, guides, pivots, spring expansion units, safety folding locking mechanism, butt (or invisible) hinges and all other operating equipment required for satisfactory operation.

panel construction—Partition doors shall be No. 9 wood veneered solid core construction (see page 8) or sound retarding No............ (see details page 4). All vertical edges shall be finished with continuous metal hinge strips insulated with vinyl.

other equipment (*optional*)—Pocket doors, passage doors, corkboards (one or both sides), chalkboards (one or both sides).

installation—The partitions consisting of all operating hardware, doors and trim as specified, shall be furnished and installed complete by Richards-Wilcox Manufacturing Company.

guarantee—Upon their completion of the installation, the Richards-Wilcox Manufacturing Company shall furnish their written guarantee covering satisfactory workmanship, materials, installation and operation.

work by others—All rough bucks, track supports (as needed), filling, staining and painting shall be by others in accordance with R-W standard details approved by the architect.

R-W No. 442—Individual top hung height as required.

general—Sound-retarding movable walls shown on plans shall be R-W manually operated "Door-Wall" type as manufactured by the Richards-Wilcox Manufacturing Company, Aurora, Illinois.

operation—All panels to be individually operated. Panels shall be supported at the top by ball bearing hangers of the proper size. The panels will be manually moved in or out of storage as required. Panels will be locked and stabilized in position by No. 442 Floor Seal Mechanisms. No hinges, floor guides or hazardous and unsightly floor tracks will be used.

operating equipment—The operating equipment shall be R-W No. 442-2035—R-W No. 442-888 (specify one as required) steel track and necessary four wheel ball bearing hangers with concealed anchor bolt attachment, steel brackets, pulls, bolts and floor seals. Exposed hardware shall be finished . . . (specify U.S. Standard Finish number).

panel construction—The panels shall be of . . . (specify type desired as shown on page 4). NOTE: As this type of operation usually involves usage in critical sound areas the panels can be designed and constructed to offer any degree of sound control as may be required after all conditions have been determined.

other equipment (*optional*)—Pocket doors, passage door, corkboards (one or both sides), and chalk-boards (one or both sides).

installation—The panels consisting of all operating hardware optional equipment and trim as specified, shall be furnished and installed complete by the Richards-Wilcox Manufacturing Company and shall be fully guaranteed as to workmanship, materials, installation and operation.

guarantee—Upon their completion of the installation, the Richards-Wilcox Manufacturing Company shall furnish its standard written guarantee.

work by others—All rough bucks, track supports, filling, staining and painting shall be by others in accordance with R-W standard details approved by the architect.

In the interest of progress and improvement the specifications in this catalog may be changed without notice.

Richards-Wilcox

FoldeR-Way

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AURORA • ILLINOIS

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DES MOINES 9—412 Hubbell Bldg.	CH 4-0231
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ST. LOUIS 10—5100 Oakland Ave.	OL 2-5567
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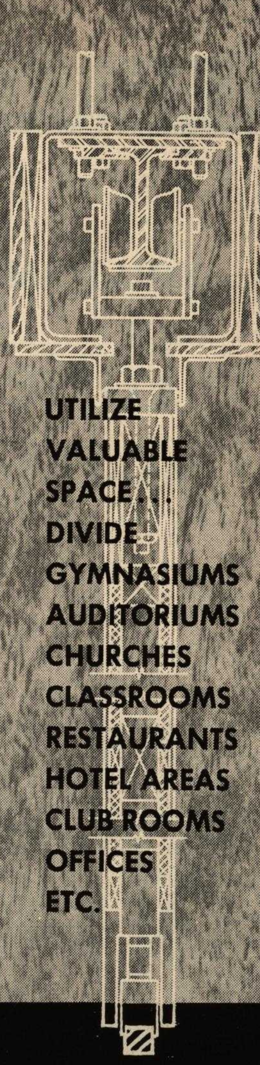
A.I.A. File No. 35-H-6

Torjesen "WALL-A-WAY"

FOLDING PARTITIONS



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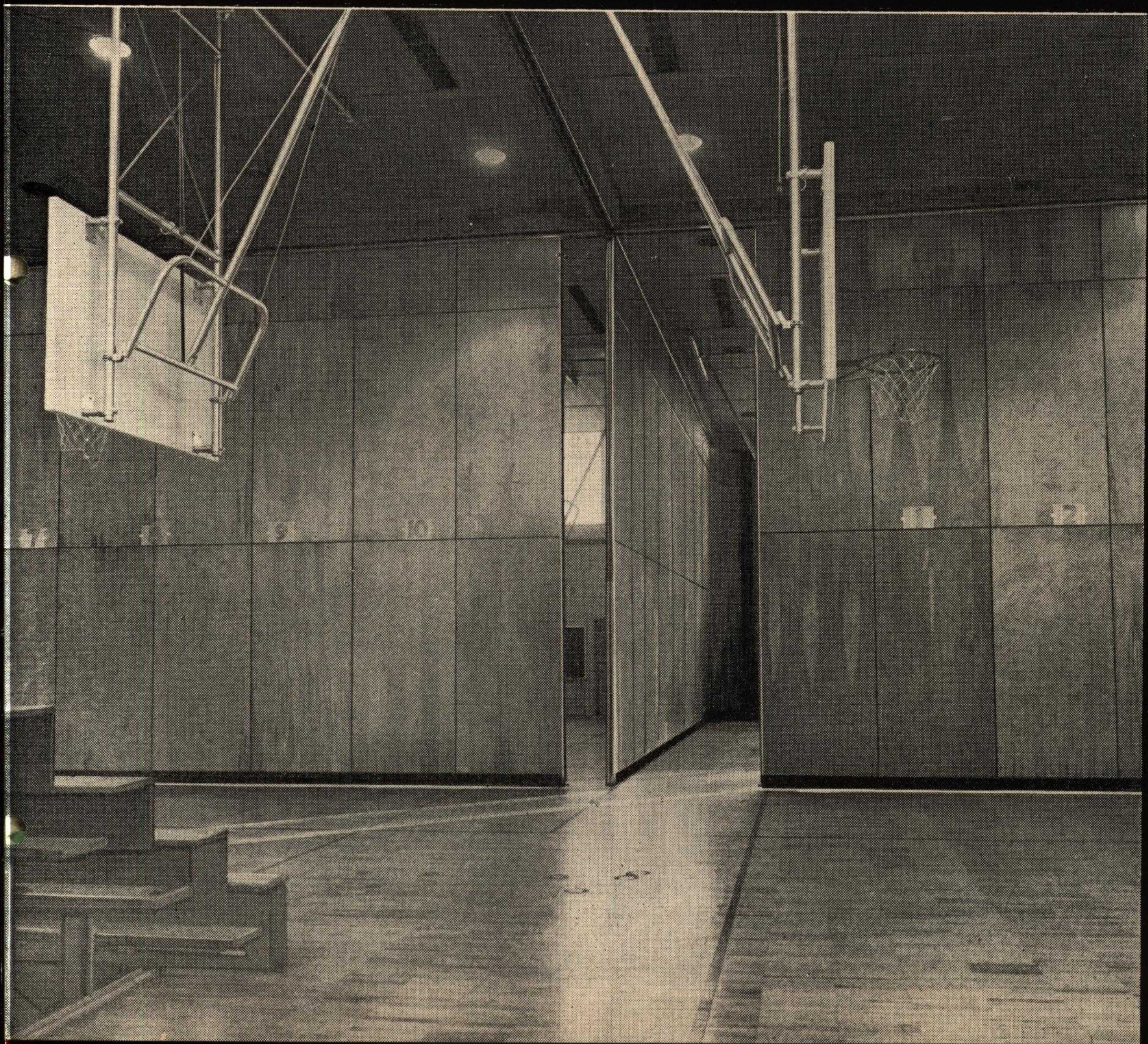

Clinton Place High School
Newark, N.J.
Architect: Kelley & Gruzen

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YOU NAME IT...

Torjesen

MAKES IT!

- **AUTOMATIC ELECTRIC PARTITIONS**
- **MANUAL PARTITIONS**
  - (a) Top Hung—Center Pivot—All Hinged
  - (b) Top Hung—Center Pivot—Pair or Individually Operated
  - (c) Top Hung—Edge Pivot—Pair Operated
  - (d) Bottom Bearing—Edge Pivot—Pair Operated
  - (e) Bottom Bearing—Edge Pivot—Individually Operated
- **HIDDEN PARTITIONS**
  - *No Floor Track* • *No Exposed Hardware* • *Remote Stacking*

Now available at the same price as Duck or Vinyl

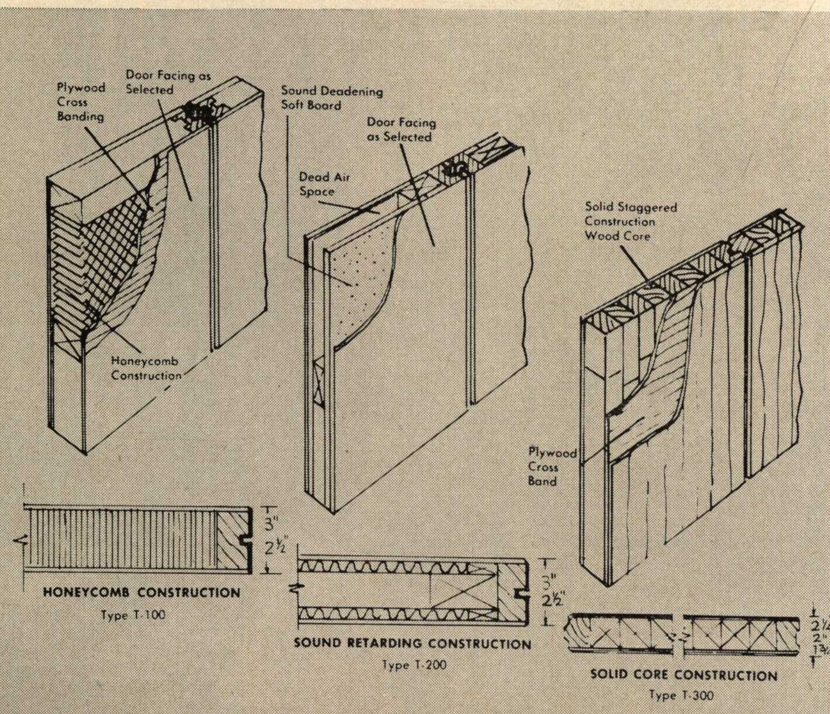
Torjesen "WALL-A-WAY" Folding Partitions with TOROPLY

America's newest, most economical, pre-finished wood paneling, in a choice of rich finishes. In addition to its economy and extreme durability there is no finishing required or necessary. Toroply is impervious to practically all stains such as ink, crayon, lipstick, etc. *Test results will be supplied upon request.*

PARTITION PANEL CONSTRUCTION

● All products described herein are manufactured in our modern plant of more than 75,000 square feet. You are cordially invited to visit us and see your job in process of fabrication.

Write for fully detailed catalog with 3" scale drawings


Plywood Cross Banding
Door Facing as Selected
Honeycomb Construction
Sound Deadening Soft Board
Door Facing as Selected
Dead Air Space
Solid Staggered Construction Wood Core
Plywood Cross Band
3"
2½"
3"
2½"
2¼
2"
1¾

HONEYCOMB CONSTRUCTION
Type T-100

SOUND RETARDING CONSTRUCTION
Type T-200

SOLID CORE CONSTRUCTION
Type T-300

TORJESEN AUTOMATIC ELECTRIC PARTITIONS

Specifications

1. Folding partition as shown on the plan shall be TORJESEN Wall-A-Way fully automatic, electrically operated, as manufactured by TORJESEN INC., 209 25th Street, Brooklyn 32, N. Y.

2. Operation shall be automatic, electric folding and unfolding of the entire partition, with complete electrical control from the key switch located at a convenient point. There shall be a 1 inch clearance between the bottom of the partition and the floor while the partition is in motion, but automatic floor seals shall drop and effectively grip the floor when the partition is in the closed position.

3. The operating mechanism shall consist of a 3/4 H.P., 3-phase, 60 cycle, 208 volt gearhead motor (see data sheet page to determine when 1 H.P. motor is required), limit switches, key control switch, drive mechanism, reversing motor starter, electro-magnetic slip clutch with control box and all necessary appurtenances for satisfactory and safe operation. The electro-magnetic clutch coupling shall automatically disengage the drive mechanism when power is shut off or fails ENABLING THE PARTITION TO BE OPERATED MANUALLY WITHOUT THE NECESSITY OF MANUALLY DISENGAGING THE CLUTCH LOCATED IN THE CEILING. The clutch control shall have a torque control setting so that clutch will slip when undue resistance occurs against moving partition. Key control switch shall require constant pressure while partition is in motion.

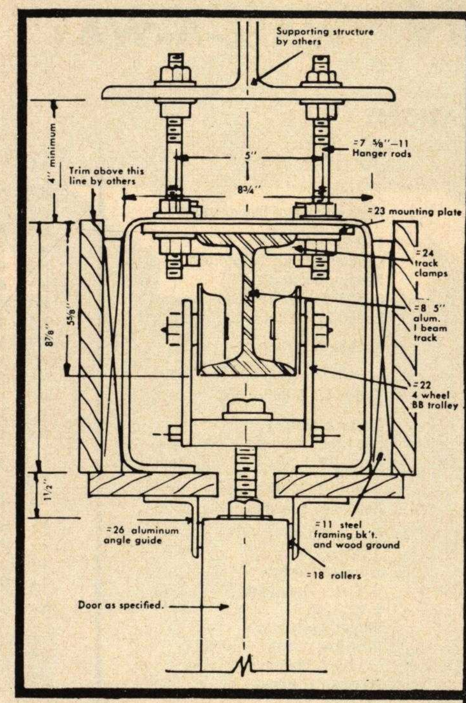
4. The partition shall be top hung by means of a 5" aluminum "I" Beam track and 4 wheel roller bearing adjustable hangers. The trolley shall be so designed for ease of servicing. The track with its framing and supporting members shall be securely fastened to the structural steel with 5/8" threaded rods. Floor track will not be permitted.

5. The partition sections shall be type...................

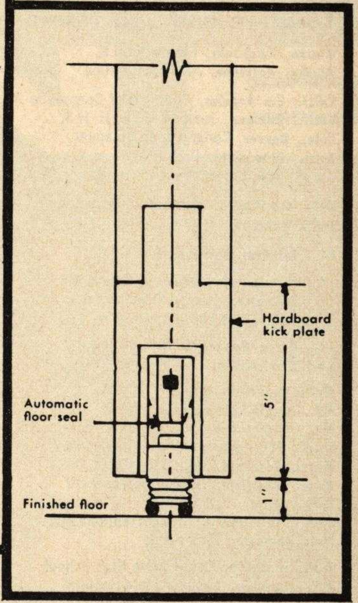
6. The overhead supporting structure shall be punched by others in accordance with a spacing template provided by the partition manufacturer. 5/8" hanger rods will be furnihsed by this manufacturer, but are to be installed by others. All rough bucks, staining, painting, conduit, rough boxes, wiring and power outlets by others.

7. The partition is to be installed by the manufacturer.

8. The manufacturer shall guarantee the materials and workmanship for a period of one year.


Supporting structure by others
4" minimum
Trim above this line by others
5"
8¾"
=7 5/8"—11 Hanger rods
=23 mounting plate
=24 track clamps
=8 5" alum. I beam track
=22 4 wheel BB trolley
8⅞"
5⅝"
1½"
=26 aluminum angle guide
=11 steel framing bk't. and wood ground
=18 rollers
Door as specified.

SECTION AT HANGER ASSEMBLY


Hardboard kick plate
Automatic floor seal
5"
Finished floor
1"

SECTION AT FLOOR

TORJESEN MANUALLY OPERATED FOLDING PARTITIONS

Specifications: Top Hung—Center Pivot

1. The Folding Partition as shown on the plans shall be TORJESEN "WALL-A-WAY," manually operated, as manufactured, installed and guaranteed by TORJESEN, INC., 209 25th STREET, BROOKLYN 32, NEW YORK.

2. The principle of operation shall provide that all doors shall be hinged together to enable them to operate as a unit. The partition shall be locked in its closed position by means of floor bolts. The space between the bottom of the doors and the floor shall be effectively sealed by means of floating floor seals.

3. The partition shall be top hung by means of trough tracks, ————, and 4-wheel ball bearing adjustable trolleys, ————. No floor track of any kind will be permitted.

4. The partition sections shall be type......................

5. The overhead supporting structure shall be punched by others in accordance with a spacing template provided by the partition manufacturer. Hanger rods will be furnished by this manufacturer, but are to be installed by others. All rough bucks, staining and painting by others.

6. The manufacturer shall guarantee the materials and workmanship for a period of one year.

Specifications: Bottom Bearing—Pair Operated

1. The Folding Partition as shown on the plans shall be TORJESEN "Wall-A-Way," manually operated, as manufactured, installed and guaranteed by TORJESEN, INC., 209 25th STREET, BROOKLYN 32, NEW YORK.

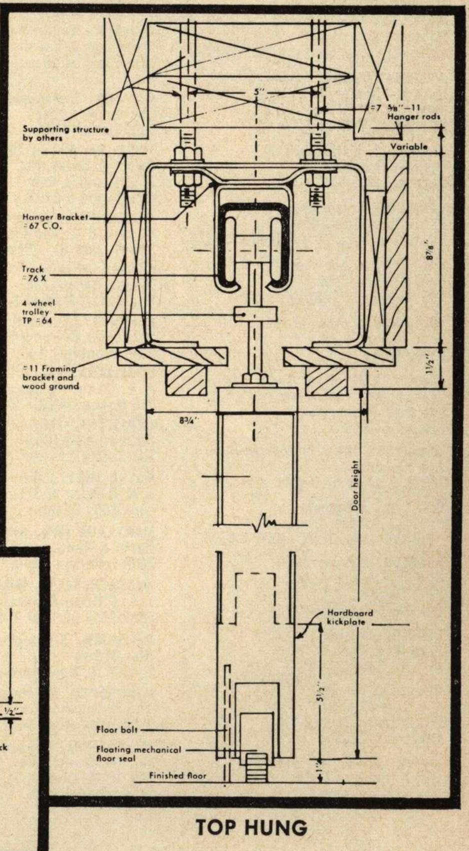
2. The principle of operation shall provide that the partition shall consist of a series of individually operated sections, each section consisting of two equal width doors hinged together. The partition shall be locked in its closed position by means of floor bolts. The space between the bottom of the doors and the floor shall be effectively sealed by means of floating floor seals.

3. Each door shall be supported by means of #T102 ball bearing bottom roller. This roller shall ride in #T1 floor track. The track shall be supported by means of a wood sleeper to be furnished and installed by others. The door shall be guided at the top by means of T11 and T005 trolleys.

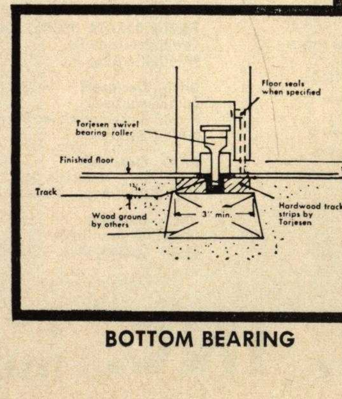
4. The partition sections shall be type................

5. The overhead supporting structure shall be punched by others in accordance with a spacing template provided by the partition manufacturer. Hanger rods will be furnished by this manufacturer, but are to be installed by others. All rough bucks, staining and painting by others.

6. The manufacturer shall guarantee the materials and workmanship for a period of one year.


5"
=7 5/8"—11 Hanger rods
Supporting structure by others
Variable
Hanger Bracket =67 C.O.
Track =76 X
4 wheel trolley TP =64
8⅞"
1½"
=11 Framing bracket and wood ground
8¾"
Door height
Hardboard kickplate
5½"
Floor bolt
Floating mechanical floor seal
Finished floor
1"

TOP HUNG


Floor seals when specified
Torjesen swivel bearing roller
Finished floor
½"
1¾"
Track
Wood ground by others
3" min.
Hardwood track strips by Torjesen

BOTTOM BEARING

TORJESEN "WALL-A-WAY" folding partitions

Write for fully detailed catalog with 3" scale drawings

PARTIAL LIST OF INSTALLATIONS

Location and Job Name	Architect
Alaska, Fairbanks, Fairbanks H.S.	
Alaska, Kotzebue, Air Force Station	Alaska Corps of Engineers
Calif., Los Angeles, Chamber of Commerce	Earl Heitschmidt
Calif., Oakland, Joaquin Miller Jr. H.S.	Oakland Unified School Dist.
Colo., Denver, Congregation Emanuel	Percival Goodman
Conn., Bloomfield, High School	S. F. Jetter & Associates
Conn., New Haven, Susan Sheridan Jr. H.S.	Pederson & Tilney
Del., New Castle, Elementary School	Marken & Watson
D.C., Wash., American Airlines	
Ga., Atlanta, Jewish Comm. Center	Alexander & Rothschild
Ill., Chicago, Amalgamated Litho Bldg.	Noess & Murphy
Ill., Wilmette, Howard School	Sandstedt & Knopp
Iowa, St. John's Lutheran Church	Donald R. Hollis
La., Baton Rouge, Hotel Heidelberg	Howard T. Musick
La., New Orleans, Hilton Inn	George A. Saunders
Maine, Sanford, Armory	Fred L. Strout
Md., Arcola, Elementary School	Arthur J. Kelsy
Md., Montgomery City, Takoma Park Jr. H.S.	Wilson & Denton
Mass., Framingham, School Department	S. Glazer Associates
Mass., Rockland, High School	J. W. Beal
Mass., Westfield, New State Teachers	Abbott Associates
Mich., Niles, High School	Eberle M. Smith
Miss., Hattiesburg, Student Alumni Bldg.	Landry & Matthis
Mo., Raytown, Junior H.S.	Marshall E. Brown
N.H., Hampton, Cooperative High School	Tracey & Hildreth
N.H., Laconia, Laconia State Hospital	Prescott & Erikson
N.J., Atlantic City, Dennis Hotel	
N.J., Franklin Lakes, High School	Sherwood, Mills & Smith
N.J., Lawrence Twp., Reg. Catholic H.S.	Wm. W. Slack & Son
N.J., Manville, Jr.-Sr. H.S.	A. Alvarez
N.J., Newark, Westbalmore School	Micklewright & Mountford
N.J., Paramus, Continental Restaurant	Morris Lapidus

Location and Job Name	Architect
N.J., Paterson, New H.S. and Convent	A. J. DePace
N.J., So. Plainfield, Elementary School	Merchant Associates
N.Y., Binghampton, Sheraton Binghampton Htl.	Samuel Glaser & Assoc.
N.Y., Bronx, Jr. H.S. No. 101	Rogers & Butler
N.Y., Dobbs Ferry, Activities Bldg.	Gugler, Kimball & Husted
N.Y., Glen Cove, East Elem. School	Gloster & Gloster
N.Y., Great Neck, Eliz. Mellick Baker School	More & Hutchins
N.Y., Hicksville, Fork Lane School	Knappe & Johnson
N.Y., Manhasset, North Shore Hospital	York & Sawyer
N.Y., New York, Bowery Savings Bank	York & Sawyer
N.Y., No. Tarrytown, High School	Ludders & Associates
N.Y., Roosevelt, Cerebral Palsy Assn.	F. P. Wiedwesum
N.Y., Schenectady, Linton School	Perkins & Will
N.Y., Schenectady, Oneida Elem. School	Skidmore, Owings & Merrill
Ohio, Beechwood, Temple Anshe Chesed	Percival Goodman
Ohio, Cincinnati, Hughes High School	Earl C. & Bruce Parker Henn
Ohio, Cleveland, Institute of Art	Garfield, Harris, Robinson & Schaefer
Pa., Allentown, Temple Kenneseth Israel	Harry M. Prince
Pa., Meadville, High School	I. Eckles
Pa., Upper Gwynedd Twp., Elem. School	John S. Carver
Pa., Worcester, Township School	Barney & Banwell
S.C., Greenville, Bobby Jones University	Harry M. Payne
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Texas, New Central, High School	Monroe, Licht & Higgins
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TORJESEN, INC.

209 - 25th STREET, BROOKLYN 32, N.Y.
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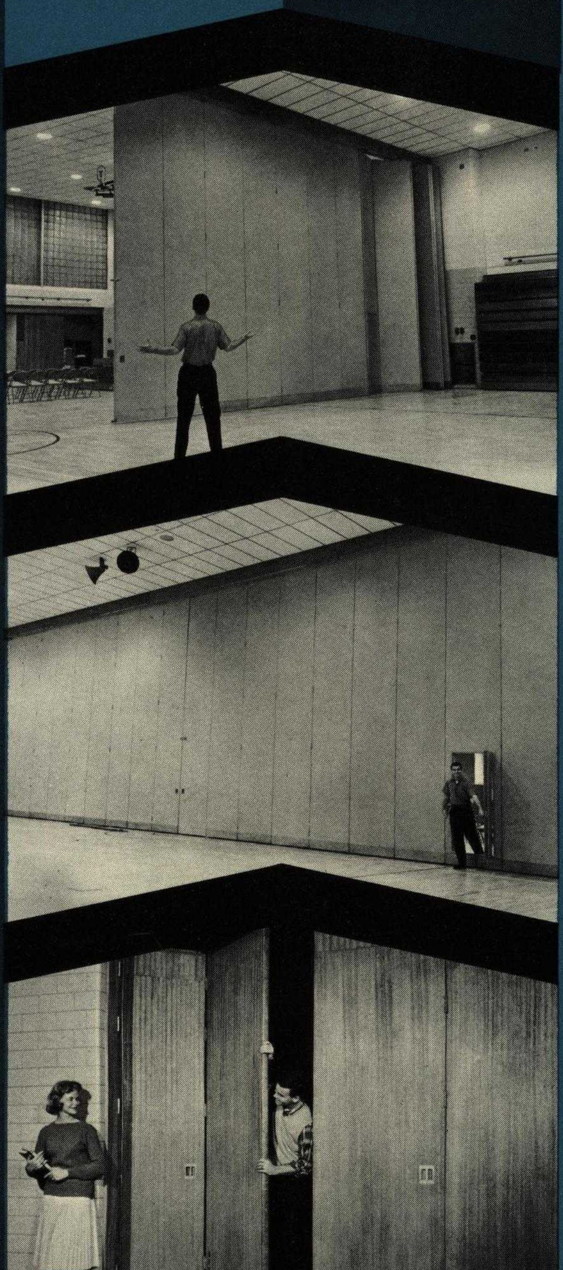
22d
Wa

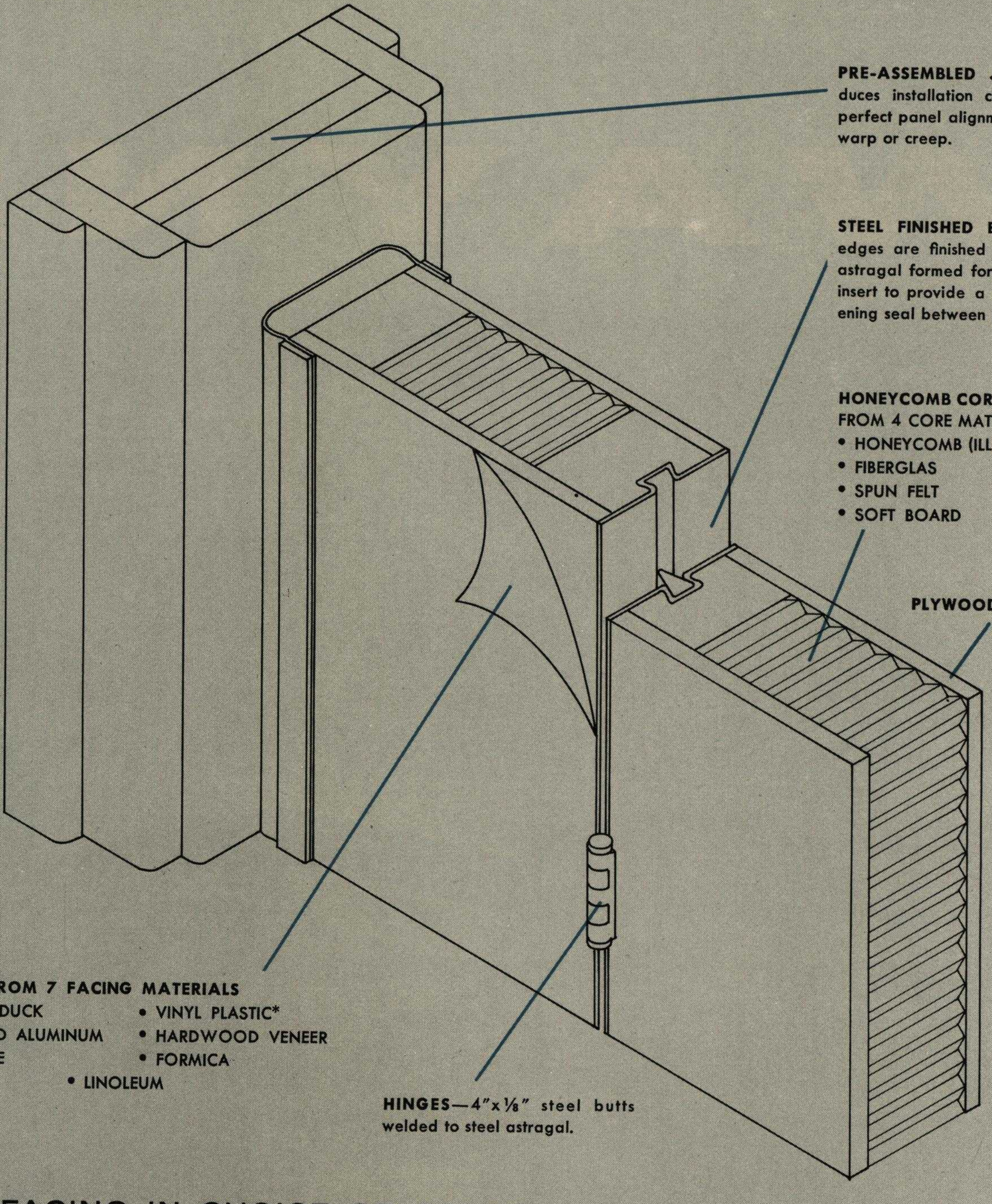
WAYNE

FOLDING PARTITIONS

AUTOMATIC ELECTRIC • MANUAL



PANEL CONSTRUCTION



PRE-ASSEMBLED JAMBS—Reduces installation costs—insures perfect panel alignment. Will not warp or creep.

STEEL FINISHED EDGE—Panel edges are finished with a steel astragal formed for rubber strip insert to provide a sound-deadening seal between panels.

HONEYCOMB CORE—CHOOSE FROM 4 CORE MATERIALS
- HONEYCOMB (ILLUSTRATED)
- FIBERGLAS
- SPUN FELT
- SOFT BOARD

PLYWOOD BACKING

CHOOSE FROM 7 FACING MATERIALS
- CANVAS DUCK
- EMBOSSED ALUMINUM
- MASONITE
- VINYL PLASTIC*
- HARDWOOD VENEER
- FORMICA
- LINOLEUM

HINGES—4″x⅛″ steel butts welded to steel astragal.

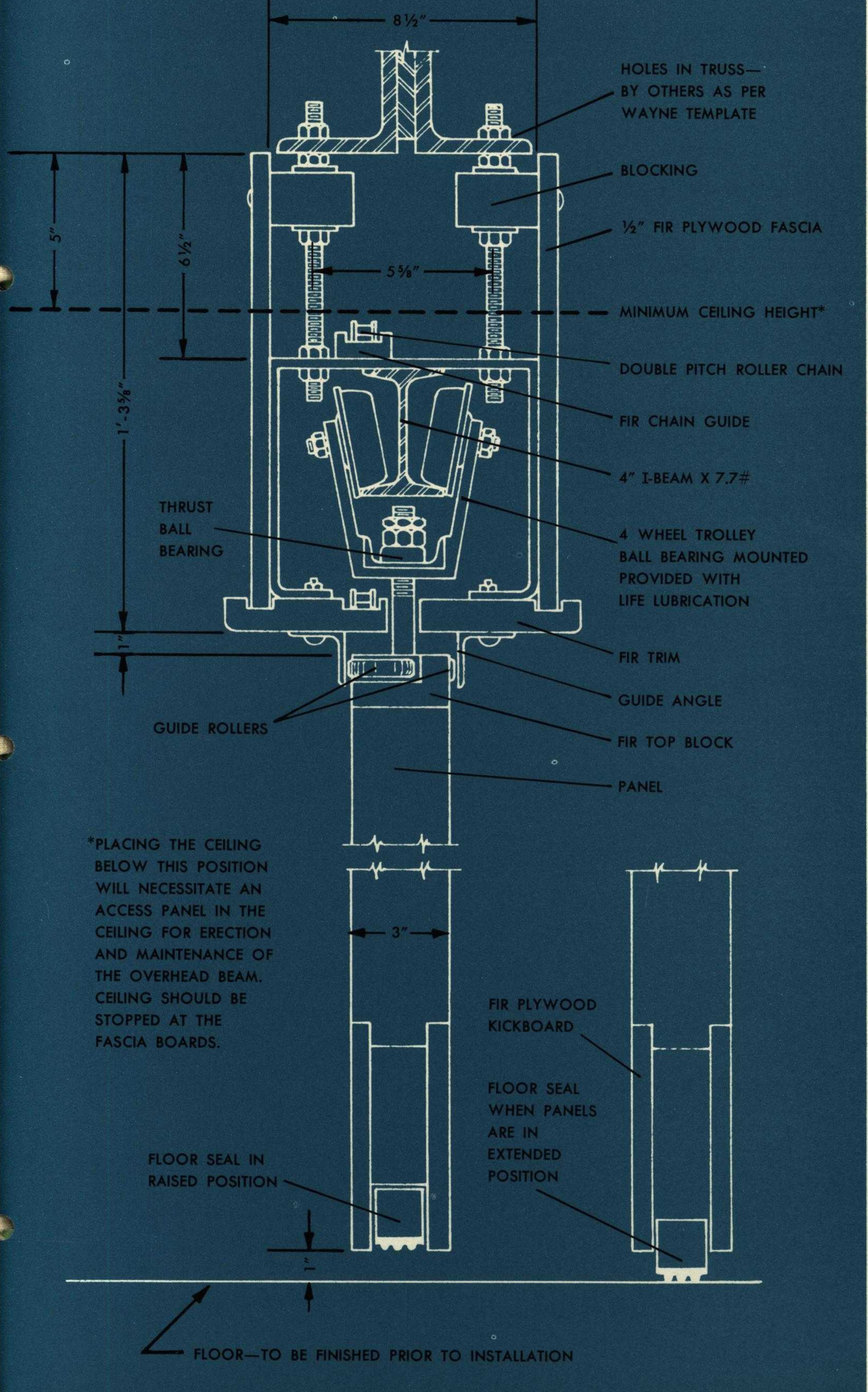
*VINYL FACING IN CHOICE OF COLOR AT NO EXTRA COST

"WEYMOLITE" FABRIC VINYL PLASTIC—COLORFAST • CLEANS EASILY • FADE RESISTANT • STUDENT PROOF

The Deaf and Blind School at St. Augustine, Florida . . . use Wayne Folding Partitions to convert their gymnasium into two separate gymclass areas. Wayne Rolling Gymstands contribute to the efficiency and smart appearance of this modern gymnasium.

ELECTRICALLY OPERATED
CROSS SECTIONAL DETAIL

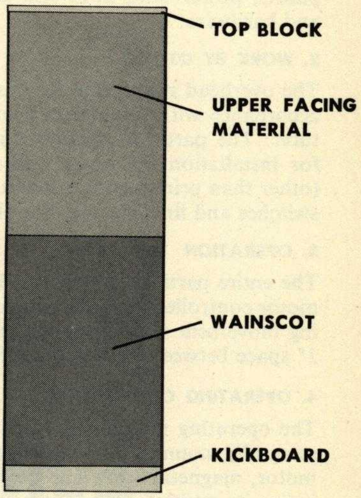
- KEY OPERATED
- POSITIVE POWER DRIVE
- I BEAM TOP HUNG TRACK
- ROLLER BEARING TROLLEY SYSTEM
- EFFICIENT CHAIN DRIVE
- AUTOMATIC BASE FLOOR SEAL
- NO FLOOR TRACK REQUIRED


8½"
HOLES IN TRUSS— BY OTHERS AS PER WAYNE TEMPLATE
BLOCKING
½" FIR PLYWOOD FASCIA
5"
6½"
5⅝"
MINIMUM CEILING HEIGHT*
DOUBLE PITCH ROLLER CHAIN
FIR CHAIN GUIDE
1'-3⅜"
4" I-BEAM X 7.7#
THRUST BALL BEARING
4 WHEEL TROLLEY BALL BEARING MOUNTED PROVIDED WITH LIFE LUBRICATION
1"
FIR TRIM
GUIDE ANGLE
GUIDE ROLLERS
FIR TOP BLOCK
PANEL
3"
FIR PLYWOOD KICKBOARD
FLOOR SEAL WHEN PANELS ARE IN EXTENDED POSITION
FLOOR SEAL IN RAISED POSITION
1"
FLOOR—TO BE FINISHED PRIOR TO INSTALLATION

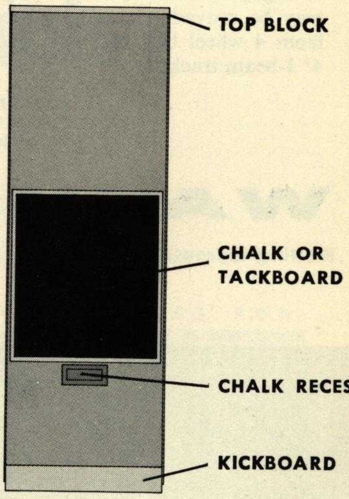
*PLACING THE CEILING BELOW THIS POSITION WILL NECESSITATE AN ACCESS PANEL IN THE CEILING FOR ERECTION AND MAINTENANCE OF THE OVERHEAD BEAM. CEILING SHOULD BE STOPPED AT THE FASCIA BOARDS.

PANEL VARIATIONS

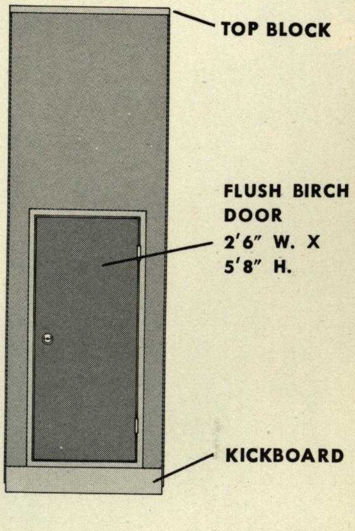
1


TOP BLOCK
UPPER FACING MATERIAL
WAINSCOT
KICKBOARD

2


TOP BLOCK
CHALK OR TACKBOARD
CHALK RECESS
KICKBOARD

3


TOP BLOCK
FLUSH BIRCH DOOR 2'6" W. X 5'8" H.
KICKBOARD

SPECIFICATIONS

1. SCOPE OF WORK

Furnish and install Wayne Electric Folding Partition(s) as shown on the plans and described below. The partition manufacturer shall furnish and install all material including track, trolleys, panels, power unit, limit and key switches, drive chain, jambs and hardware.

2. WORK BY OTHERS

The overhead supporting structure shall be punched by others in accordance with a template provided by the partition manufacturer. The partition manufacturer will furnish ½″ hanger rods for installation by others. All rough bucks, staining, painting (other than prime coat), conduit, rough boxes, wiring, disconnect switches and final electrical hook-up are by others.

3. OPERATION

The entire partition operation shall be automatic with the single motor controlled by a spring-loaded key switch. The final extending movement shall cause the partition to seal automatically the 1″ space between itself and the floor.

4. OPERATING COMPONENTS

The operating mechanism shall consist of roller chain drive; an integrally mounted 208/or 220/or 440 Volt, 3 ph., 60 cyc. electric motor, magnetic brake and permanently lubricated speed reducing unit; multiple disc clutch; magnetic reversing starter; limit switches and all necessary equipment to assure the fully automatic operation of the partition. The clutch shall be capable of being disengaged, in the event of power failure, so that the partition may be moved manually. Alternate panels shall be suspended from 4 wheel ball bearing trolleys. Trolleys shall operate on a 4″ I-beam track.

5. PANEL CONSTRUCTION

Partition panels shall have a nominal three inch thickness. They shall be built-up of two layers of ⅜″ fir plywood over fir stiles and rails.

(Optional) The panels shall be covered with____________________.
(Canvas Duck, Vinyl Plastic, or Aluminum Sheet)

(Optional) A wainscot shall be provided of____________________.
(Linoleum, Hardboard, Birch Veneer, Oak Veneer, or Formica)

(Optional) The panel core shall be filled with____________________.
(Fiberglas, Spun-Felt, Honeycomb, or Softboard)

Vertical edges of panels shall be provided with continuous rolled steel hinge strips (astragals) with a molded rubber seal between panels. Hinges shall be 4″x⅛″ steel butts welded to the hinge strips.

6. FINISH

All exposed canvas duck shall receive one shop coat of sizing. All exposed wood and hardboard shall receive one shop coat of wood undercoater unless the final finish is to be natural. All exposed steel shall receive one shop coat of aluminum oil base paint. All overhead track, trolleys and supporting steel shall receive one shop coat of zinc chromate base paint. All exposed hardware shall be dull brass.

7. INSTALLATION

Installation of the partition shall be performed in a skillful, workmanlike manner to insure correct operation of all its components. This work shall be under the direction of a qualified installation superintendent trained by the manufacturer.

8. GUARANTEE

The manufacturer shall guarantee that all work performed under these specifications shall be free from defects in material and workmanship for a period of one year from completion of installation.

PLEASE NOTE—Wayne Iron Works pursues a continuing program of design and product improvement for better Partition Engineering. When such improvements occur, or, when conditions exist over which we have no control, Wayne Iron Works reserves the right to supply partitions considered to be standard at the time of shipment.

WAYNE IRON WORKS, WAYNE, PENNSYLVANIA

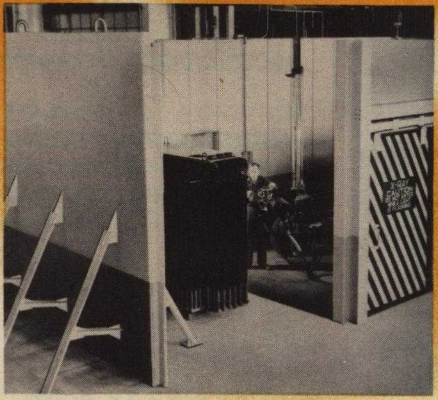
Rolling Gymstands • Folding Bleachers • Outdoor Seating • Folding Partitions • Basketball Backstops • Folding Stages

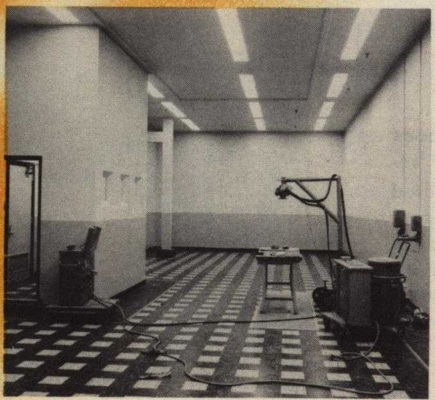
40M—9314—859-B

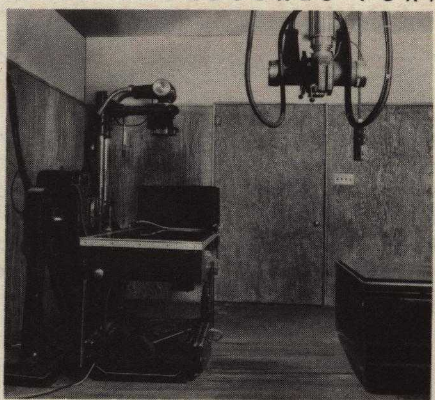
ameray

x-ray protective materials

AMERAY DESIGNED, FABRICATED AND INSTALLED THESE ENCLOSURES FOR:


WESTINGHOUSE ELECTRIC CORPORATION


BOEING AIRPLANE COMPANY


DEBORAH SANATORIUM, NEW JERSEY

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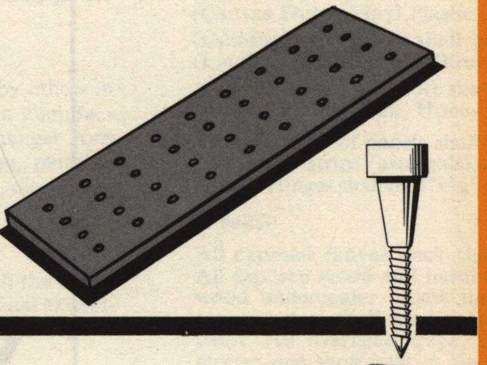
CORPORATION
150 Route 46 — Kenvil, New Jersey
N. J. Phone: FOxcroft 6-4100
N. Y. Phone: BOwling Green 9-0412

lath, blocks, panels, linings

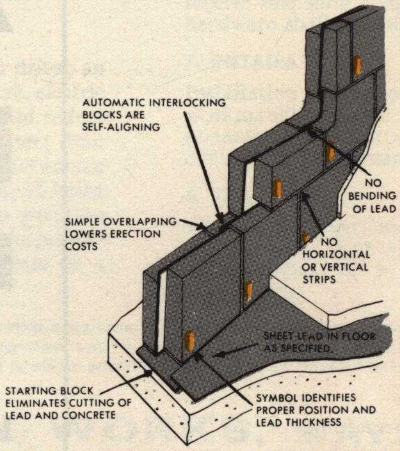
LEAD INSULATED LATH

Easy-to-erect Ameray lead insulated lath is available in all required lead thicknesses. The specified lead lining and plasterboard are permanently bonded by hydraulic pressure . . . Ameray lead lath is a perfect base for plaster. Specially designed Ameray lead-headed nails are supplied for the installation of the lath.



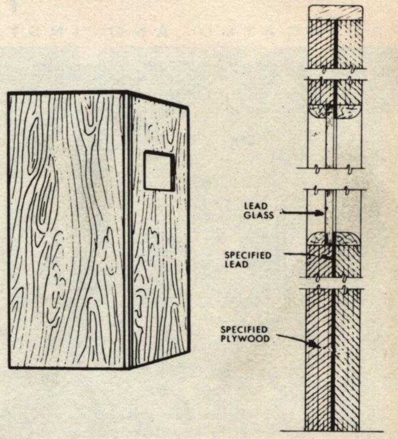
LEAD CORE BLOCKS

Supplied ready-to-use, Ameray lead core partition blocks offer complete protection and easy erection because of their exclusive **tapered*** design. This unique shape eliminates the necessity of bending the lead or inserting lead strips and **automatically** affords a plumb, true wall. These blocks are made of a quality cinder concrete with an unpierced lead core of the required lead thickness.


AUTOMATIC INTERLOCKING BLOCKS ARE SELF-ALIGNING
NO BENDING OF LEAD
SIMPLE OVERLAPPING LOWERS ERECTION COSTS
NO HORIZONTAL OR VERTICAL STRIPS
SHEET LEAD IN FLOOR AS SPECIFIED.
STARTING BLOCK ELIMINATES CUTTING OF LEAD AND CONCRETE
SYMBOL IDENTIFIES PROPER POSITION AND LEAD THICKNESS

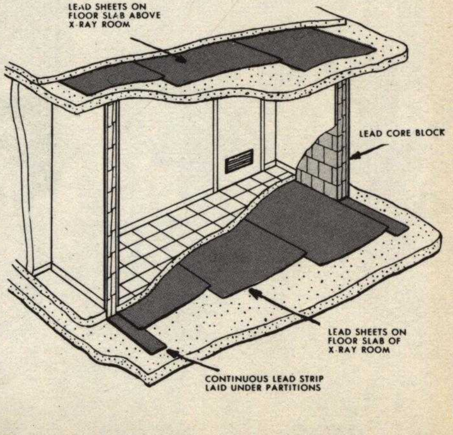
LEAD INSULATED PANELS — CONTROL SCREENS

Both paint and stain grade veneered plywoods are hydraulically bonded to lead sheets of required thickness to form Ameray's lead insulated panels. Delivered cut-to-fit to meet job conditions, Ameray's lead insulated control screens with lead-glass vision panels and hardware, are custom-built to individual specifications.


LEAD GLASS
SPECIFIED LEAD
SPECIFIED PLYWOOD

LEAD LINING FOR FLOOR AND CEILING SLAB

When an installation requires the shielding of spaces above and below the X-Ray room, Ameray sheet lead is the economical answer because it is sized-to-suit job conditions. Lead lined floor and ceiling slab structures are economical in many specific applications. See Ameray A.I.A. File.


LEAD SHEETS ON FLOOR SLAB ABOVE X-RAY ROOM
LEAD CORE BLOCK
LEAD SHEETS ON FLOOR SLAB OF X-RAY ROOM
CONTINUOUS LEAD STRIP LAID UNDER PARTITIONS

*Patented

ameray's

SAFETY ENGINEERED RADIATION PROTECTION

LEAD LINED —
BLOCK
LATH
PANELS
CONTROL SCREENS
DOORS
DOOR FRAMES
THRESHHOLDS
CEILING STRUCTURES
FLOOR PROTECTION

LIGHT PROOF —
SHADES
LEAD LOUVERS
STEEL LOUVERS
DOOR SEALS
PANELS FOR DOOR LITES

WINDOWS —
X-RAY CONTROL
COBALT 60
ZINC BROMIDE

LEAD GLASS
CASSETTE TRANSFER CABINETS
HANGER PASS BOXES
ELECTRIC DOOR OPERATORS

NON-DESTRUCTIVE TESTING EQUIPMENT — FLUOROSCOPIC, RADIOGRAPHIC INSPECTION CABINETS

A NEW PUBLICATION
FOR YOUR REFERENCE FILES

AMERAY'S X-RAY PROTECTIVE
A. I. A. CATALOG NO. S-50

Full technical specifications, dimensional and cutaway drawings, construction features and details of all Ameray's X-ray protective materials.

For your **COMPLIMENTARY COPY,**
write to our
X-RAY PROTECTIVE DIVISION

ameray's

doors, pass boxes, light proof shades

NUCLEAR SHIELDING PRODUCTS AND HANDLING DEVICES

HIGH DENSITY CONCRETE
LEAD BRICK
LEAD GLASS BRICK
CASTINGS AND SHIELDING COMPONENTS

LEAD LINED FUME HOODS
SHIPPING AND STORAGE CONTAINERS
SHIELDING DOORS
HOT CELLS

RADIATION SHIELDING GLASS
DECONTAMINATION CHAMBERS
IRON SHIELDED ROOMS
SAFES-(RADIOACTIVE MATERIAL)
GLOVE BOXES

LEAD SHIELDS FOR GLOVE BOX
SCINTILLATION DETECTOR SHIELD
REMOTE HANDLING TONGS
TRANSFER DRAWERS
HOT CELL WINDOWS

PORTABLE LEAD PARTITIONS
LEAD DOORS (STEEL CLAD)
ARTICULATED TONGS
FUEL ELEMENT SHIPPING CONTAINERS

A NEW PUBLICATION
FOR YOUR REFERENCE FILES

AMERAY'S NUCLEAR SHIELDING CATALOG NO. S-100

Packed with authoritative information, complete with specifications, photographs and drawings of Ameray's proven nuclear shielding products and handling devices.

For your **COMPLIMENTARY COPY,**
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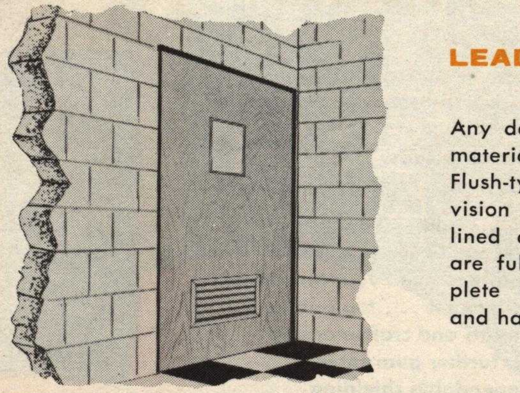
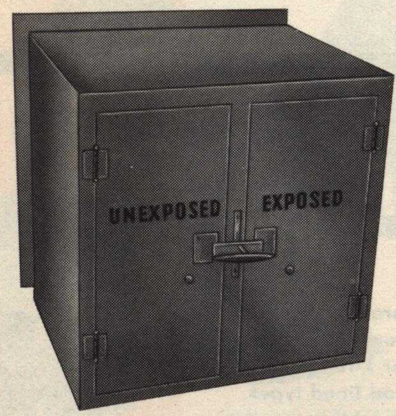
NUCLEAR PRODUCTS DIVISION



LEAD CORE DOOR

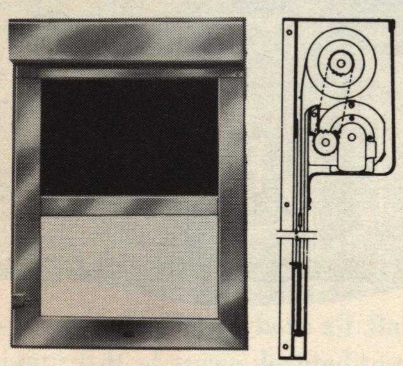
Any door size, lead core thickness and facing material, to meet specification, is available. Flush-type doors can be furnished with Ameray vision panels and ventilating louvers. Lead lined door bucks and light proof door seals are fully detailed in our A.I.A. Catalog. Complete components including electric operator and hardware can be supplied for sliding doors.



LEAD LINED FILM TRANSFER CABINETS

Fully lead lined with unique interlocking door hardware . . . prevents passage of X-rays or light through the cabinet, while also protecting film from accidental exposure by X-rays.

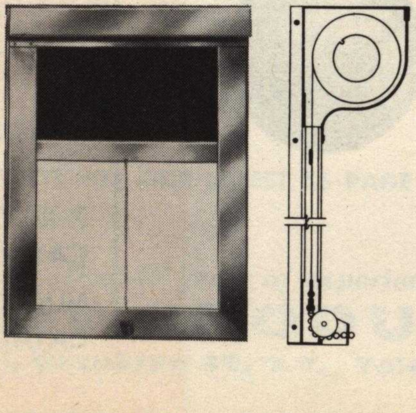
The ideal unit for passage of loaded cassettes between darkroom and X-ray room.



ELECTRICALLY OPERATED LIGHT PROOF SHADES

Ameray electrical light proof shades are installed with individual or remote control for single units or ganged remote control for banks of units.

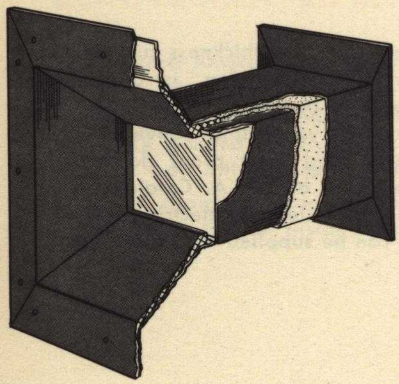
The extruded aluminum frame requires no maintenance and beautifies every installation.



MANUALLY OPERATED LIGHT PROOF SHADES

Easy-to-work pull chain operation. A unique chain lock provides positive shade locking and also allows positioning at any point. Both manual and electrical units are shipped factory-assembled for ease of installation.

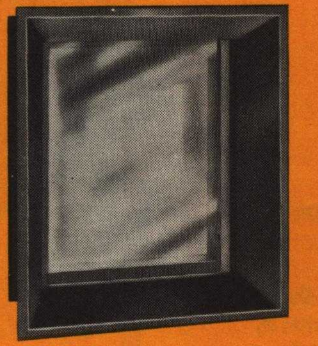
COBALT 60 LEAD GLASS AND ZINC BROMIDE WINDOWS



Custom-engineered Ameray windows afford perfect viewing with absolute safety. For large openings Ameray zinc bromide windows are recommended.

Each window — lead glass or zinc bromide — is designed **specially** to meet your individual requirements . . . top quality materials and craftsmanship are a further guarantee of dependable shielding performance.

CONTROL WINDOWS



Ameray X-Ray protective windows feature: an attractive aluminum frame with concealed lead lining or cast lead frame upon request; special Ameray lead glass; unique X-Ray protective voice passage for easy communication; available in standard sizes or as specified.

LOUVERS

Ameray louvers provide maximum air ventilation while giving light proof and/or X-ray protective service. Lead lined types offer the same shielding as the wall or door in which they are installed.

Both X-ray protective and light-proof types have a clean, modern appearance; sizes for all applications.

FUME HOODS

Ameray fume hoods are designed with a structural steel frame and stainless steel exterior-interior which conceal the unit's complete lead lining. Individually developed to fit **exact** job specifications, they offer increased gamma ray protection and facilitate the handling of all types of radioactive materials.

A.I.A. File No. 37-E

AN INTERNATIONAL NAME IN X-RAY AND RADIATION PROTECTION

Numerous diversified installations throughout the United States and in many foreign countries testify to the quality of Ameray craftsmanship.

No installation is too complex . . . no unit too specialized . . . to be tackled by Ameray's skilled engineering production team.

Send us details of your X-ray protective or nuclear shielding application for a thorough competent evaluation and recommendation at no cost or obligation.

ameray
CORPORATION
150 Route 46 — Kenvil, New Jersey
N. J. Phone: FOxcroft 6-4100
N. Y. Phone: BOwling Green 9-0412

TWO NEW PUBLICATIONS AVAILABLE ON REQUEST

X-RAY PROTECTIVE A. I. A. CATALOG No. S-50

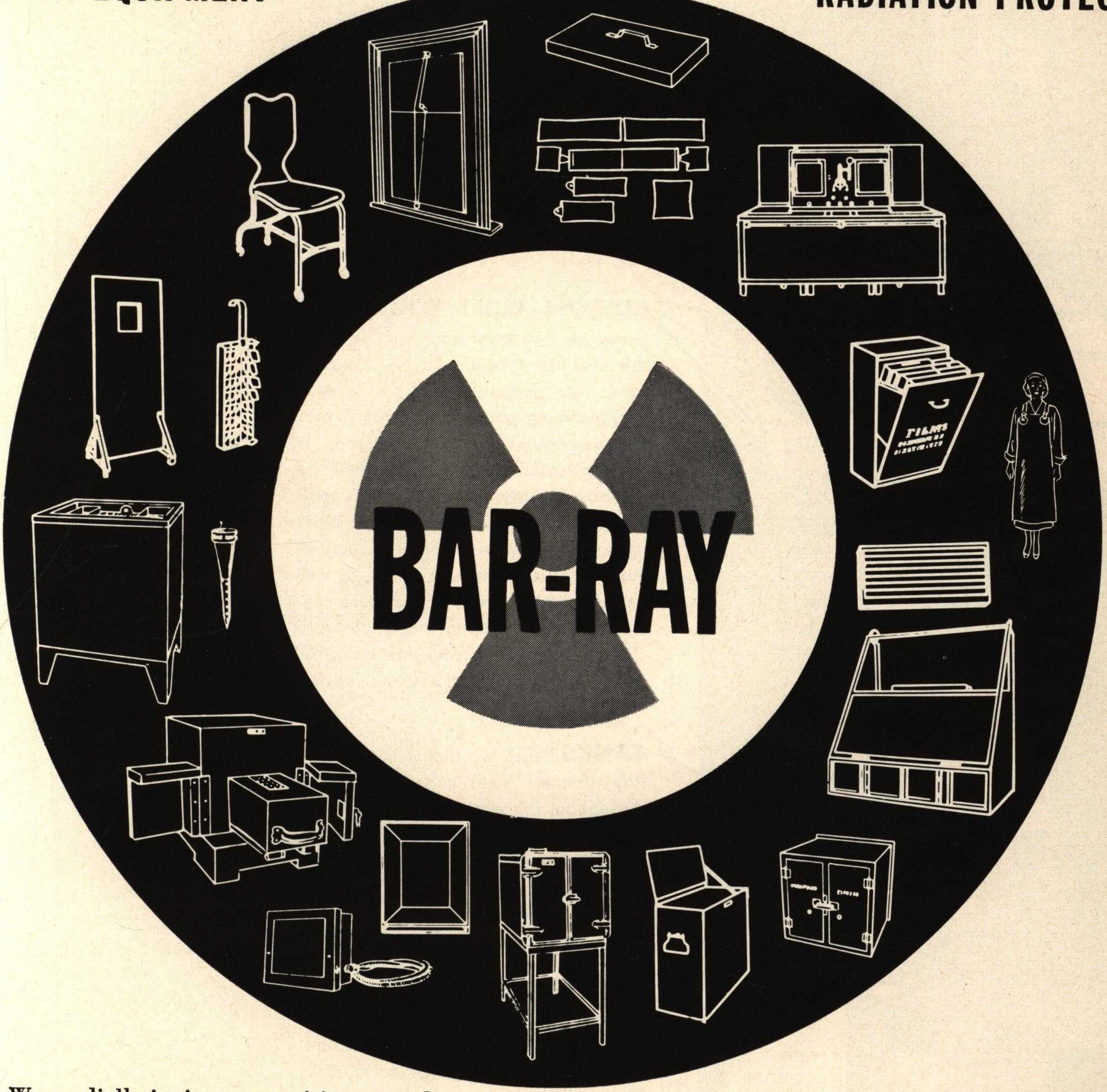
NUCLEAR SHIELDING PRODUCTS CATALOG No. S-100

Printed in U. S. A.

24 M-9-59

X-RAY ACCESSORIES
ISOTOPE EQUIPMENT

X-RAY FILM PROCESSING SYSTEMS
RADIATION PROTECTION



We cordially invite you to visit our modern plant where all Bar-Ray products are manufactured under one roof... more than 65,000 square feet of space devoted to the manufacture of:

- X-ray developing tanks
- Cobalt 60 irradiators
- Dark room benches and cabinets
- Film loading cabinets
- Lead lined fume hoods
- Radioisotope conveyors
- X-ray water coolers
- Irradiation equipment
- Film driers
- Protective mobile screens
- Observation booths
- Radium storage and handling units
- Lightproof shades
- Lightproof door seals
- Motor driven ventilators
- Lightproof louvers
- Industrial inspection units
- Temperature controls
- Photographic sinks
- Explosion-proof illuminators
- Cubicle curtains and track
- Special lead castings
- Folding partitions and doors

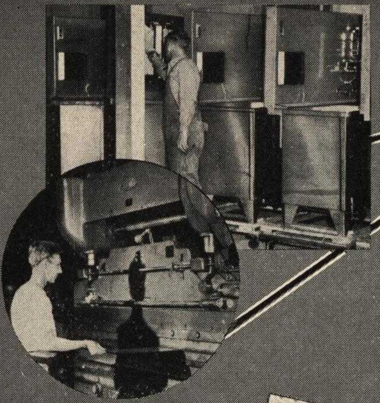
WRITE FOR OUR LATEST 56 PAGE CATALOG

We invite your inquiries. Our 40 years of experience is yours, without obligation

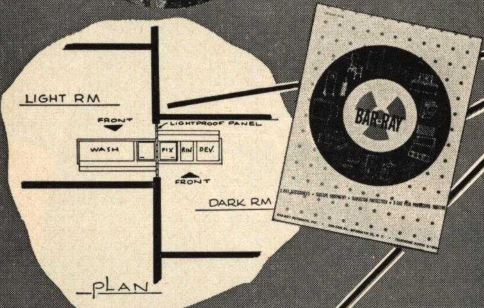
BAR-RAY PRODUCTS, INC.

209-25th Street, Brooklyn 32, N.Y. Telephone: SOuth 8-1020

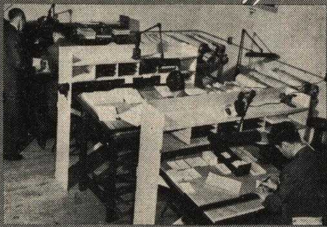
Affiliates: **CAPITAL CUBICLE CO., INC.**—*Hospital Cubicles* • **TORJESEN INC.**—*Folding Partions*

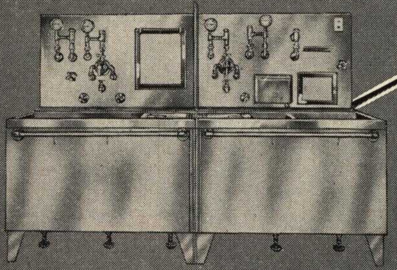


BAR-RAY has pioneered in the x-ray field for more than twenty years. Here, under one roof, are manufactured all the x-ray accessories, film processing systems, radiation protective materials, refrigeration apparatus, and other equipment required by hospitals, radiologists, and industrial plants.

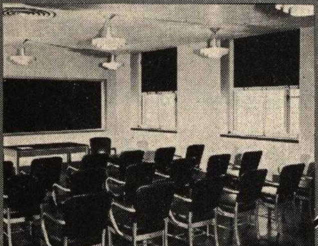

LIGHT RM
FRONT
LIGHTPROOF PANEL
WASH
FIX
RIN
DEV
FRONT
DARK RM
PLAN
BAR-RAY

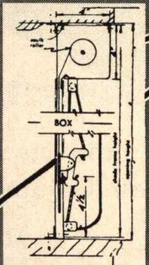
CUSTOM-BUILT EQUIPMENT is designed to meet particular needs in this rapidly growing, ever changing field. Our latest fifty-six page catalog, including photographs and details of the equipment manufactured, is available without charge, and will be mailed promptly on request. This comprehensive book is invaluable in planning the darkroom. It describes equipment for processing x-ray films, as well as refrigeration units, temperature controls, film filing apparatus, lightproof shades, radiation protection, industrial x-ray equipment, radioisotope laboratories, etc.





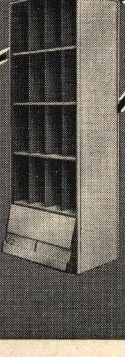
TANKS, such as thousands of Bar-Ray stainless steel units now in use throughout the world, are illustrated in this catalog. We welcome the opportunity to assist in the planning of the department, to advise on efficient layout and "*made-to-order*" equipment at "*standard*" prices.





LIGHTPROOF window shades, drapes, lightproof door seals, are made to meet individual job conditions, and are designed for minimum maintenance costs and maximum efficiency.

FILMS
DO NOT OPEN
IN THE LIGHT



X-RAY ROOM accessories, such as loading benches, film dryers, illuminators, lightproof ventilators, lead lined transfer cabinets, and cubicle dressing rooms are stock items, all produced in our plant, and in most cases available for immediate delivery.

We cordially invite you to visit our modern plant where all Bar-Ray products are manufactured under one roof. Parking facilities for your convenience.

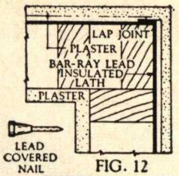

LAP JOINT
PLASTER
BAR-RAY LEAD INSULATED LATH
PLASTER
LEAD COVERED NAIL

FIG. 12
EXTERIOR ANGLE IN PARTITION

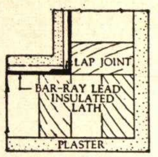

LAP JOINT
BAR-RAY LEAD INSULATED LATH
PLASTER

FIG. 13'
INTERIOR ANGLE IN PARTITION

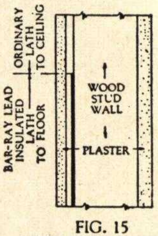

ORDINARY LATH TO CEILING
BAR-RAY LEAD INSULATED LATH TO FLOOR
WOOD STUD WALL
PLASTER

FIG. 15
USED PART HEIGHT OF PARTITION

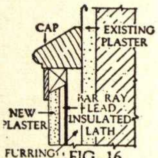

CAP
EXISTING PLASTER
NEW PLASTER
BAR RAY LEAD INSULATED LATH
FURRING

FIG. 16
WAINSCOT HEIGHT OVER EXISTING PLASTER

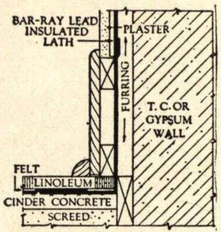

BAR-RAY LEAD INSULATED LATH
PLASTER
FURRING
T.C. OR GYPSUM WALL
FELT
LINOLEUM
CINDER CONCRETE
SCREED

FIG. 18
AT LINOLEUM FLOOR

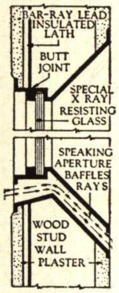
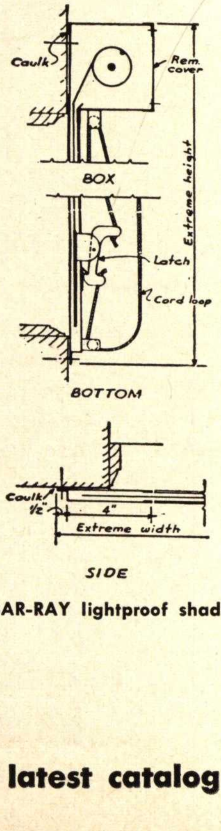

BAR-RAY LEAD INSULATED LATH
BUTT JOINT
SPECIAL X RAY RESISTING GLASS
SPEAKING APERTURE BAFFLES RAYS
WOOD STUD WALL
PLASTER

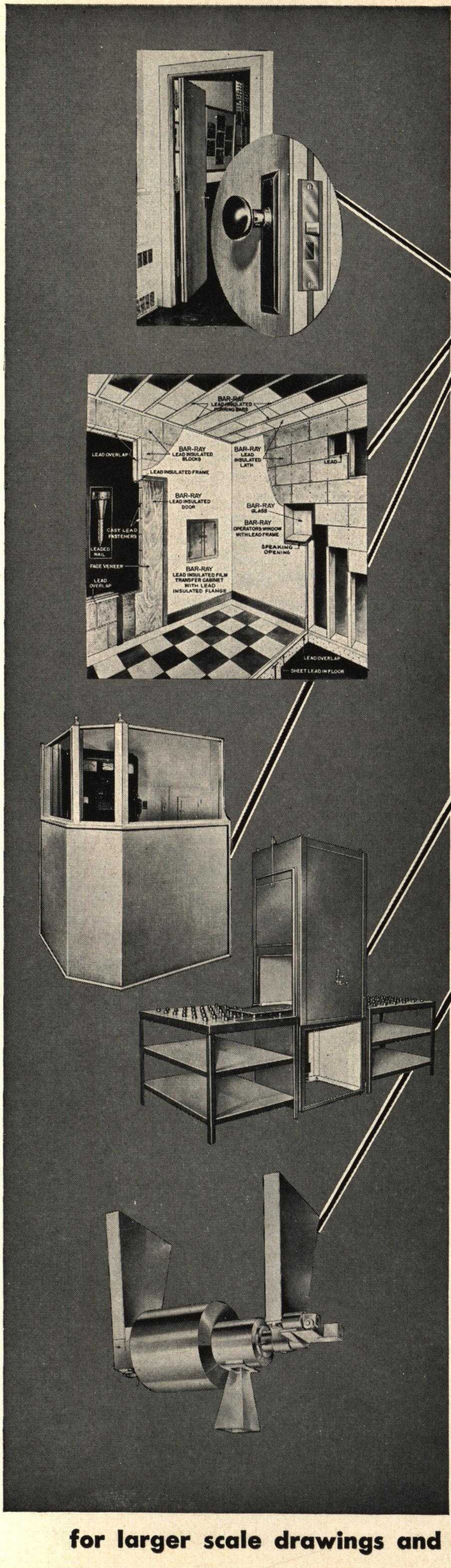
FIG. 19
OPERATORS WINDOW

BAR-RAY lead insulated lath


Caulk
Rem. cover
BOX
Extreme height
Latch
Cord loop
BOTTOM
Caulk
1/2"
4"
Extreme width
SIDE

BAR-RAY lightproof shade

for larger scale drawings and complete specifications, write for our latest catalog


BAR-RAY
LEAD INSULATED FORMING BARS
LEAD OVERLAP
BAR-RAY LEAD INSULATED BLOCKS
BAR-RAY LEAD INSULATED LATH
LEAD
LEAD INSULATED FRAME
BAR-RAY LEAD INSULATED DOOR
CAST LEAD FASTENERS
LEADED NAIL
BAR-RAY GLASS
BAR-RAY OPERATORS WINDOW WITH LEAD FRAME
SPEAKING OPENING
FACE VENEER
BAR-RAY LEAD INSULATED FILM TRANSFER CABINET WITH LEAD INSULATED FLANGE
LEAD OVERLAP
LEAD OVERLAP
SHEET LEAD IN FLOOR

EXPLOSION-PROOF illuminators, water coolers, lead lined doors, special radiation protective screens and safes, manufactured here, are shown in the Bar-Ray catalog.

RADIATION PROTECTION is a field in which Bar-Ray has pioneered since 1930. In the intervening years we have developed and produced products for every phase of radiation protection. These range from lead headed nails, lead insulated cinder blocks, operator's control frame windows, to wood and steel doors lined with lead up to two and one-half inches thick. We supplied protective material for the first atomic blast in New Mexico, the first hospital radioisotope laboratory ever built, the isotope laboratory apparatus installed at Brookhaven National laboratory, and elsewhere.

INDUSTRIAL firms are using x-ray and radioisotopes in ever increasing numbers. Whether x-ray installation for the health and safety department, or radioisotopes as a non-destructive testing tool, Bar-Ray protective products are essentials.

RADIOISOTOPES are employed in medical research, therapy and industry. The new Bar-Ray catalog illustrates and describes much of the special equipment we have produced, including Cobalt^{60} Irradiators, Isotope Conveyor Systems, Stainless Steel and Lead Lined Fume Hoods, Storage Rooms, Heavy lead castings, etc. In this highly specialized field, the wealth of experience we have accumulated in meeting unusual problems may be of help to you.

We invite you to write or telephone us for any information, specifications, details or quotations you may require. There is no charge or obligation attached. We consider this service as good public relations, and one of our contributions to the advancement of this ever growing industry.

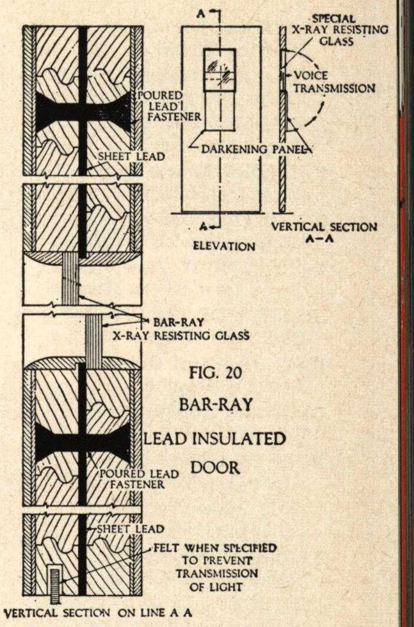

A
SPECIAL X-RAY RESISTING GLASS
VOICE TRANSMISSION
POURED LEAD FASTENER
DARKENING PANEL
SHEET LEAD
A
ELEVATION
VERTICAL SECTION A–A
BAR-RAY X-RAY RESISTING GLASS
POURED LEAD FASTENER
SHEET LEAD
FELT WHEN SPECIFIED TO PREVENT TRANSMISSION OF LIGHT
VERTICAL SECTION ON LINE A A

FIG. 20 BAR-RAY LEAD INSULATED DOOR

BAR-RAY door

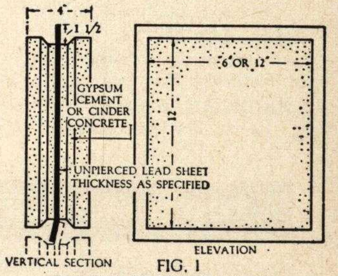

4"
T 1 1/2
GYPSUM CEMENT OR CINDER CONCRETE
UNPIERCED LEAD SHEET THICKNESS AS SPECIFIED
6" OR 12"
12"
VERTICAL SECTION
ELEVATION

FIG. 1
BAR-RAY LEAD INSULATED PARTITION BLOCK

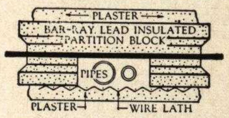
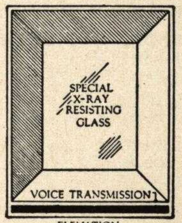
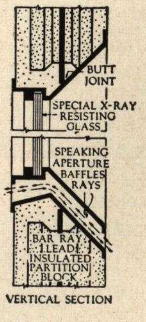

PLASTER
BAR-RAY LEAD INSULATED PARTITION BLOCK
PIPES
PLASTER
WIRE LATH

FIG 6 SHALLOW PIPE CHASE

BAR-RAY lead insulated partition blocks


SPECIAL X-RAY RESISTING GLASS
VOICE TRANSMISSION

ELEVATION
FIG. 10


BUTT JOINT
SPECIAL X-RAY RESISTING GLASS
SPEAKING APERTURE BAFFLES RAYS
BAR RAY LEAD INSULATED PARTITION BLOCK

VERTICAL SECTION

BAR-RAY lead operators window

for larger scale drawings and complete specifications, write for our latest catalog

typical installations

ALABAMA, Birmingham
Jefferson Hospital

ARIZONA, Douglas
Phelps Dodge Hospital

ARKANSAS, Pine Bluff
Pine Bluff Arsenal

CALIFORNIA, Los Angeles
Clinic for Children's Hospital

COLORADO, Denver
National Jewish Hospital

CONNECTICUT, New Haven
Grace New Haven Hospital

DISTRICT OF COLUMBIA
Children's Hospital

FLORIDA, Coral Gables
Doctor's Hospital

GEORGIA, Atlanta
Grady Memorial Hospital

INDIANA, Jefferson
Clark City Memorial Hospital

IOWA, Davenport
St. Luke's Hospital

KANSAS, Lawrence
University of Kansas

KENTUCKY
10 Memorial Hospitals
United Mine Workers

MARYLAND, Bethesda
National Institutes of Health

MASSACHUSETTS, Great Barrington
Fairview Hospital

MICHIGAN, Detroit
Henry Ford Hospital

MINNESOTA, Rochester
Mayo Clinic

MISSISSIPPI, Jackson
Jackson Memorial Hospital

MISSOURI, Kansas City
Menorah Hospital

NEBRASKA, St. Paul
Howard County Hospital

NEW MEXICO, Albuquerque
Sandia Base

NORTH CAROLINA, Winston Salem
North Carolina Baptist Hospital

NORTH DAKOTA, Hellsboro
Community Hospital

OHIO, Zanesville
People's Hospital

PENNSYLVANIA, Philadelphia
Jefferson Hospital

SOUTH CAROLINA, Dunbarton
Savannah River AEC Plant

TEXAS, Austin
Brackenridge Hospital

VERMONT
Brattleboro Memorial Hospital

VIRGINIA, Richmond
Richmond Memorial Hospital

WASHINGTON, Seattle
Children's Orthopedic Hospital

WEST VIRGINIA, Phillipi
Broaddus Hospital

WISCONSIN, Shawand
Contwell Petersen Clinic

industrial installations

Aluminum Co. of America
Bethlehem Steel Corp.
Eastern Aircraft
E. I. DuPont de Nemours & Co.
Fairchild Aircraft
Ford Motor Co.
Fruehauf Trailer Co.
General Electric Corp.
General Motors Corp.
Kaiser Co. Inc.
M. W. Kellogg Co.
Pratt & Whitney Aircraft
Remington Rand
Sperry Gyroscope Co.
U.S. National Bureau of Standards
Western Electric Co.
Westinghouse Elec. & Mfg. Co.
Wright Aeronautical Corp.

architects who have specified BAR-RAY

Associated Hospital Architects
Auler, Jensen & Brown
Baskerville & Son
Bauman & Bauman
Bennett & Straight
Buelk, Thomas
Chandler & Palmer
Clarkson, W. G. & Co.
Coolidge, Shepley, Bullfinch, Abbott
Cramer, Ambrose C.
DePace & Juster
Dohmen, A. G.
Dreyfous & Steiferth
Eggers & Higgins
Ellerbe & Co.
Farrot, Reed & Assoc.
Fountain & Choate
Grimes, Gaarwood M.
Heaton, A. B.
Hedrick, Wyatt C.
Kahn, Albert
Kling, Vincent
Lovelace-Spillman
Maguolo & Quick
Mayhew, Clarence W.
McCauley, Charles H.
McKim, Mead & White
McLaughlin, Thomas D.
Meyers, C. B., & Assoc.
Palmer & Lamdin
Rowland, T. H.
Scheide, Lester B.
Schmidt, Garden & Erikson
Tucker & Silling
Voorhees, Walker, Foley & Smith
White, Harry Keith
Wittenberg & Davidson
York & Sawyer

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Haskell-Thomas Inc.
3808 N. Central Ave.
CRestwood 7-5488

ARKANSAS, Little Rock
Berlin-Wilson Co.
Gazette Bldg.—F R 2-1210

CALIFORNIA, Los Angeles
Frank Peck Specialty Co.
347 S. Clarence St.—ANgelus 2-1185

CALIFORNIA, San Francisco
Fred E. Turner Cc.
788 Mission St.-SUtter 1-5056

CANADA, Montreal P.Q.
Villepre Sales. Co.
12507 Dion, Cartierville

Welcross, Ltd.
2153 Mackay St.—VI 2-4639

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10305 W. 17th Place

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Lawrence R. Smith, Inc.
942 New Britain Ave.
CHapel 6-5659

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T. J. Vandoren
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WOodley 6-5566

FLORIDA, Jacksonville
Geo. P. Coyle & Sons
2361 Dennis (POB 2267)
ELgin 6-4821

FLORIDA, Miami
John N. Kohnen & Co.
45 N.W. 54th St.—PLaza 4-2576

GEORGIA, Atlanta
J. R. Ulery Co.
565 Plum St., N.W.—JAckson 1-2299

IDAHO, (UTAH, Salt Lake City)
Joel P. Paulson & Co.
P.O.B. 132 (Sugar Hse. Sta.)
HUnter 5-9251

ILLINOIS, Chicago
Tri States Mfgs. Rep. Inc.
3044 N. Laramie Ave.
AVenue 2-2828

INDIANA, Evansville
Greenman & Smith
1411 Division St.—HA 5-7121

INDIANA, Indianapolis
M. S. Churchman Co.
1107 Burdsal Parkway
MElrose 7-5523

IOWA, Des Moines
Swanson Sales, Inc.
2737 Douglas Ave.
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KANSAS (MO., Kansas City)
Howard & Arnold Co.
226 W. 39th St.—PLaza 3-3980

KANSAS, Wichita
Claude Balzer, Inc.
P.O.B. 2141—MUrray 3-8241

KENTUCKY, Louisville
Schneider Building Products
2345 Frankfort Ave.

LOUISIANA, New Orleans
A. F. Livaudais Co.
816 Howard Ave. (309 Jahncke Bldg.)
MAgnolia 1910

LOUISIANA, Shreveport
Harold Lipper Co.
301 Spring St.—4-6686

MAINE (MASS., W. Newton)
J. A. O'Brien & Sons
POB 205—DEcatur 2-4158

MARYLAND (PA., Phila.)
J. W. Kiedaisch
225 S. Sartain St.—WAlnut 3-3163

MASSACHUSETTS, W. Newton
J. A. O'Brien & Sons
POB 205—DEcatur 2-4158

MICHIGAN, Detroit
Building Accessories
155 W. Congress St.

MINNESOTA, Minneapolis
The Hutchinson Co.
9824 Elliot Ave. S.

MISSSISIPPI, Jackson
John B. Howard Co.
600 W. Monument St.
FLeetwd. 4-2346

MISSOURI, Kansas City
Howard & Arnold Co.
226 W. 39th St.—PLaza 3-3980

MISSOURI, St. Louis
Howard F. Willis Co.
P.O.B. 3818 Kirkwood Sta.
YO 6-3556

NEBRASKA, Lincoln
Pavich Kohler Co.
1140 N. 21st St.—2-5777

NEW HAMPSHIRE, (MASS., W. Newton)
J. A. O'Brien & Sons
P.O.B. 205—DEcatur 2-4158

NEVADA, (UTAH, Salt Lake City)
Joel P. Paulson & Co.
P.O.B. 132—HUnter 5-9251

NEW MEXICO, Albuquerque
Mayhew & Rademacher, Inc.
Box 8301—CH 7-4131

NEW YORK, Buffalo
James M. Hawkins Corp.
448 Franklin St.—ELmwood 2315

NEW YORK, Rochester
James M. Hawkins Corp.
116 Humboldt St.—BUtler 8-1318

NEW YORK, Syracuse
W.G.S. Corp.
1002 W. High Terrace
HUnter 8-7770

N.C., Charlottte
A. J. Yates, Inc.
P.O.B. 3062—FR 7-7718

N.D., (MINN., Minn.)
The Hutchinson Co.
9824 Elliot Ave. S.

OHIO, Cincinnati
Tom Ragouzis Co.
N 207 Cincinnati Union Term.
MAin 1-6150

OHIO, Cleveland
Aluminum Bldg. Materials Co.
6007 Gilbert Ave.—TUxedo 6-1234

OHIO, Columbus
Columbus Sash Door
655 N. Cassady Ave.—CL 3-5505

OHIO, Dayton
Modern Fold Door Co. of Dayton
134 Salem Ave.

OHIO, Toledo
R. V. Krausquin
3304 W. Lincolnshire—JOrdan 9902

OKLAHOMA, Oklahoma City
L. E. Acker Co.
1809 W. Main St.—CEntral 2-3771

OREGON, Portland
Gamble-Hawkins Co.
1617 N.W. 14th—CApital 7-2546

PENNSYLVANIA, Harrisburg
Robert-Mason Co.
402 Beaver Rd.—KIngswd. 5-5872

PENNSYLVANIA, Phila.
J. W. Kiedaisch
225 S. Sartain St.—WAlnut 3-3163

PENNSYLVANIA, Pittsburgh
Commerical Door & Sash Erectors
36 Hart Street—PEnhurst 1-1371

R.I., (MASS., W. Newton)
J. A. O'Brien & Sons
P.O.B. 205—DEcatur 2-4158

SOUTH CAROLINA, Greenville
J. Edgeworth Beattie
P.O.B. 82—CEdar 3-1721

S.D. (MINN. Minn.)
The Hutchinson Co.
9824 Elliot Ave. S.

TENNESSEE, Knoxville
Bldg. & Utilities Spec. Co.
P.O.B. 10196—5-5197

TENNESSEE, Memphis
Modern Doors & Windows
P.O.B. 5161—GL 8-3332

TENNESSEE, Nashville
Boyd Jacoway
P.O.B. 6151—CY 7-1348

TEXAS, Dallas
Winzer-Chatham Co.
5526 Dyer St.—EMerson 8-2122

TEXAS, El Paso
Hunt Bldg. Materials
2212 E. Yandell St.

TEXAS, Fort Worth
Germond Co. Inc.
1609 W. Allen St.

TEXAS, Houston
Charles E. Musick
4665 Calhoun Rd.

TEXAS, San Antonio
Merbeth & White Co.
146 Olmos Dr. W.—TAylor 6-8641

UTAH, Salt Lake City
Joel P. Paulson & Co.
P.O.B. 132—HUnter 5-9251

VT. (MASS. W. Newton)
J. A. O'Brien & Sons
P.O.B. 205—DEcatur 2-4158

VIRGINIA, Norfolk
Door Engineering Co.
700 Front St.—MAdison 2-5355

VIRGINIA, Richmond
J. S. Archer Co.
328 W. Cary St.—MIlton 4-7846

VIRGINIA, Roanoke
Roanoke Engrg. Sales Co.
P.O.B. 1628—DIamond 5-8119

WASHINGTON, Seattle
F. T. Crowe & Co.
329 2nd Ave. W.—ATwater 4-8484

W. VA. (PA., Pittsburgh)
McKnight Co.
314 26th St.

WISCONSIN (ILL. Chicago)
Tri-States Mfg. Rep. Inc.
3044 Laramie Ave. N.
AVenue 2-2828

WISCONSIN (MINN. Minn.)
The Hutchinson Co.
9824 Elliot Ave. S.

WYOMING (UTAH, Salt Lake City)
Joel P. Paulson Co.
P.O.B. 132—HUnter 5-9251

P.R., San Juan
Julio T. Rodriquez
P.O. Box 1325

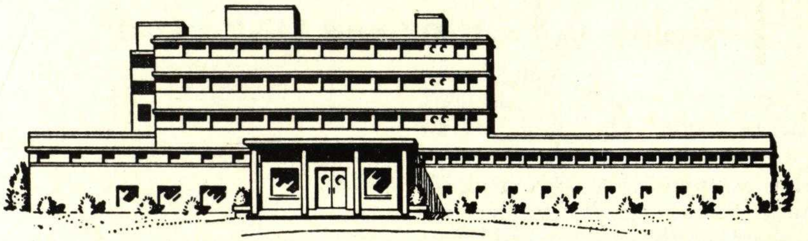
MEXICO 5, D F
Sistemas Industriales e
Inversiones, S.A.
Mechor Ocampo No. 463-503

BAR-RAY PRODUCTS, INC.

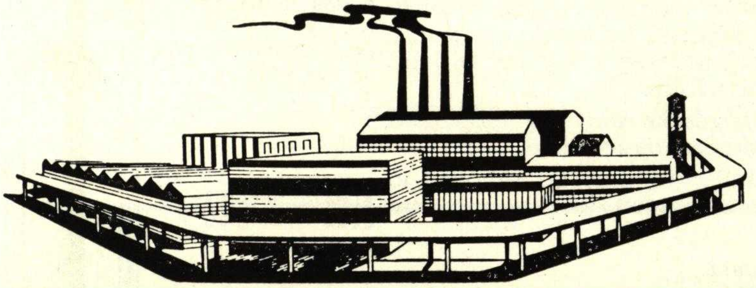
209 Twenty-fifth Street, Brooklyn 32, N. Y. Telephone: SOuth 8-1020

LEAD

radiation protection



hospitals



radiographic rooms
for
industrial plants

LEAD

- **dense concrete blocks**
- **isotope storage vaults**
- **reactor shielding installations**
- **lead bricks**
- **test booths**

specialists in lead and saraloy rubber lining application

GENERAL LEAD CONSTRUCTION CORPORATION
engineering • fabrication • installation

GENERAL LEAD CONSTRUCTION CORPORATION

Specialists in Radiation Protective Equipment

engineering, fabrication, installation

The primary requisite of complete lead protection against radiation, is a guarantee of responsibility.

Where materials are made by one responsible manufacturer and installed by one or more subcontractors on the job, the responsibility for complete radiation protection frequently rests with a third party, the general contractor, who must police the manufacture, handling and installation To eliminate split responsibility, it should be specified that manufacturer will assume complete responsibility for lead protecton, not only of the manufactured items, but also of the installation of them.

The manufacturer can do this either using his own lead mechanics to install his lead protective materials, or at least to provide an experienced supervisor for the few days usually required to install this material.

General Lead Construction Corp.

offers a threefold service to the construction industry:

1. Engineering and Design for the architect.
2. Fabrication of lead protective materials for the General Contracor.
3. Physical installation of lead protective materials, either by:
    a. our own skilled lead mechanics and masons, or by:
    b. providing an experienced supervisor during installation of lead protective materials.

lead core partition blocks

scales: ¼"=1'-0" and 1½"=1'-0"

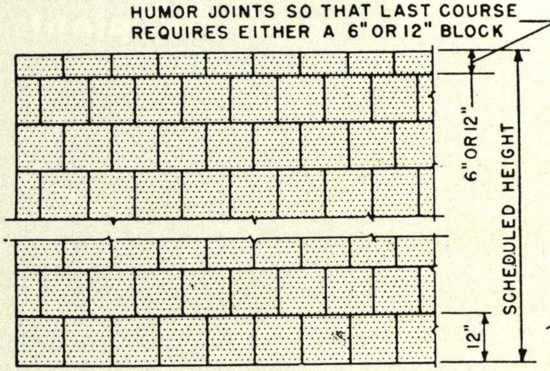
Where first class building construction of partitions is required, as well as Lead Protection, Lead Core cinder blocks should be specified.

Blocks are 12"x12"x4" thick of cinder concrete cast with a single piece of unpierced sheet lead through the center. Blocks have a cinder aggregate composition and sheet lead core has sufficient anchors to guarantee a testing compression strength of not less than 300 lbs. per square inch on edge after 28 days.

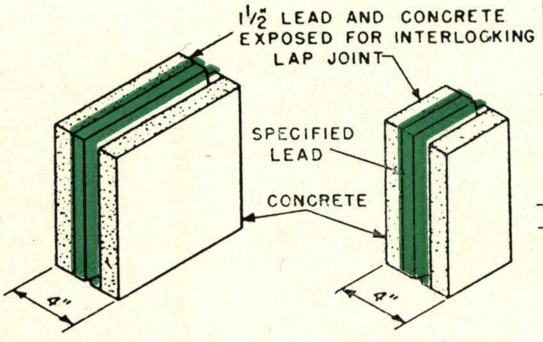
Thickness of sheet lead core to be determined by voltage of x-ray machine. Sheet Lead Core shall be exposed on all four bearing sides not less than 1½ inches to permit necessary lapping of lead with adjoining blocks, door bucks or windows.

Where building construction requires, blocks may be fabricated of 6" thickness, or of other varied thickness, as required.

Cinder slab on either side of sheet lead core, may be removed to permit plumbers pipes or electricians conduit to pass, without damage to lead.

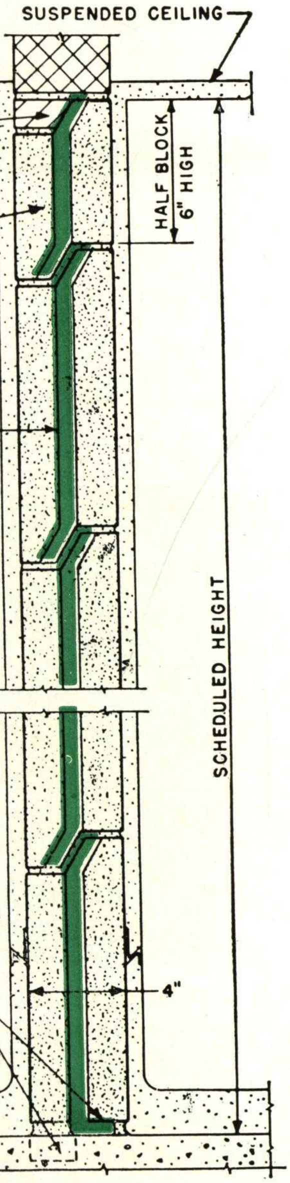

HUMOR JOINTS SO THAT LAST COURSE REQUIRES EITHER A 6" OR 12" BLOCK
6" OR 12"
SCHEDULED HEIGHT
12"
12"

TYPICAL ELEVATION
SCALE ¼"=1'-0"

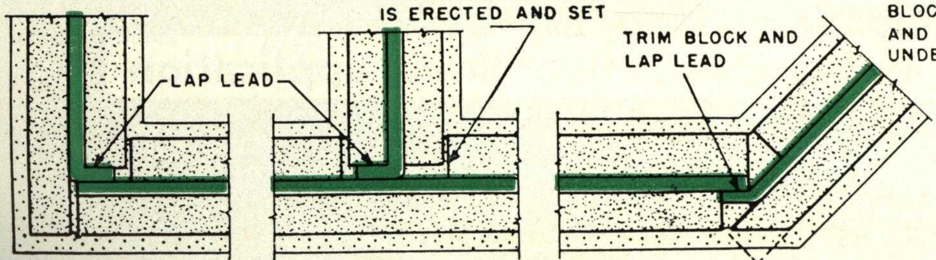

1½" LEAD AND CONCRETE EXPOSED FOR INTERLOCKING LAP JOINT
SPECIFIED LEAD
CONCRETE
4"
4"

FULL BLOCK

HALF BLOCK


SUSPENDED CEILING
BRICK FILL
HALF BLOCK 6" HIGH
HUMOR JOINTS TO OBTAIN USE OF A FULL OR HALF BLOCK AT TOP COURSE
ALWAYS SPECIFY LEAD THICKNESS REQUIRED
SCHEDULED HEIGHT
CUT FIRST COURSE BLOCKS ONLY AND BEND LEAD UNDER
4"
FINISH FLOOR

VERTICAL SECTION


LAP LEAD
CHASE WALL AFTER PARTITION IS ERECTED AND SET
TRIM BLOCK AND LAP LEAD
CORNER
INTERSECTION

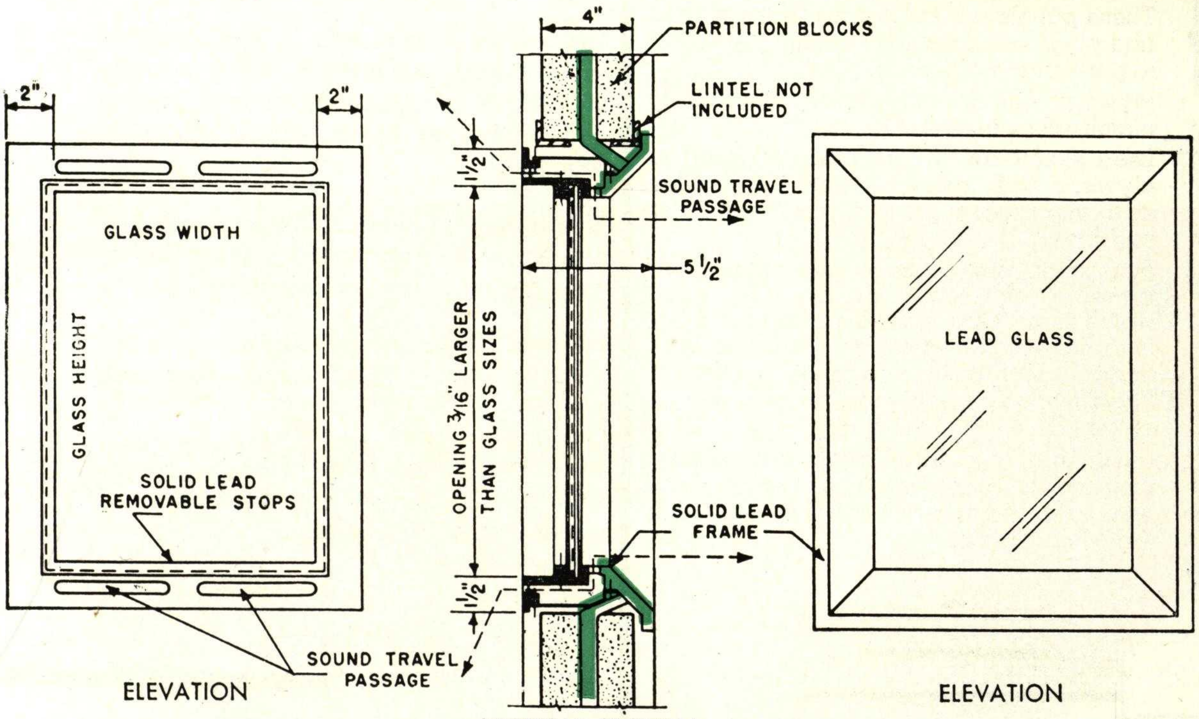
HORIZONTAL SECTION

SCALE 1½"=1'-0"

control frames

for lead operators windows

scale: 1 1/2" = 1'-0"


2"
2"
GLASS WIDTH
GLASS HEIGHT
SOLID LEAD REMOVABLE STOPS
SOUND TRAVEL PASSAGE
4"
PARTITION BLOCKS
LINTEL NOT INCLUDED
SOUND TRAVEL PASSAGE
1 1/2"
5 1/2"
OPENING 3/16" LARGER THAN GLASS SIZES
1 1/2"
SOLID LEAD FRAME
LEAD GLASS

ELEVATION

VERTICAL SECTION

ELEVATION

Frames are made of solid lead, in one piece, with glass mouldings of lead.

For voice transmission, a special periscope type opening is built into the frame at bottom to allow voice transmission and still give necessary lead protection. If specified, this voice opening, can also be built into top of frame.

Frame is splayed on all four sides to give wide range of vision.

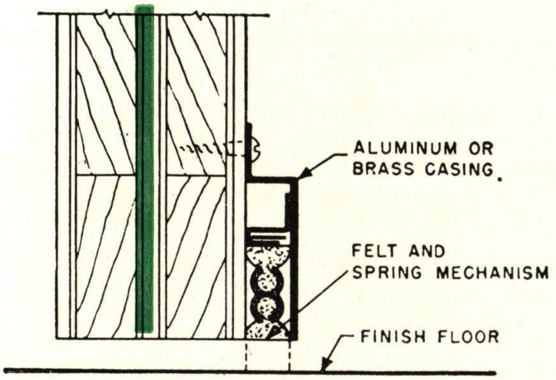
Lead glass size is usually 12" wide by 16" high, and frame is set 5' 2" from finished floor to center line of glass.

Lead glass is manufactured in standard 1/4" thickness, which is approximately the equivalent of 1/16" sheet lead protection.

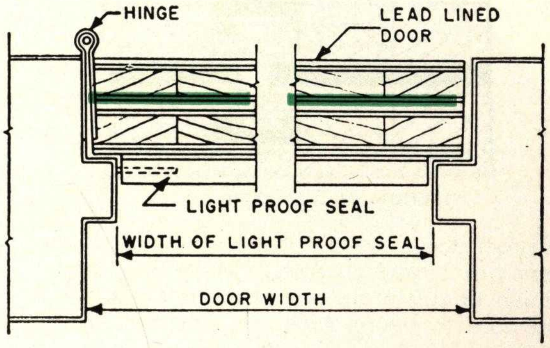
lightproofing

shades and doors

scale: 3" = 1'-0"


ALUMINUM OR BRASS CASING
FELT AND SPRING MECHANISM
FINISH FLOOR

VERTICAL SECTION


HINGE
LEAD LINED DOOR
LIGHT PROOF SEAL
WIDTH OF LIGHT PROOF SEAL
DOOR WIDTH

HORIZONTAL SECTION

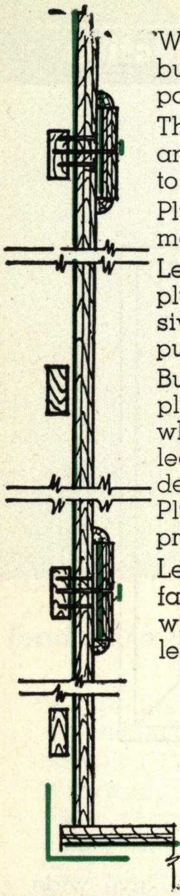
It is frequently desirable that lightproofing of doors and windows be considered a part of the radiation protection.

Lightproof window shades may be manually, mechanically or electrically operated.

Frames are of furniture steel with baked enamel finish. Frame is constructed so that parts may be removed and replaced. Cloth is lightproof, crack proof, fade proof, odorless.

Door openings to be lightproofed with heavy felt, metal bound. Bottoms may have automatic operation, if desired.

lead lined plywood panels



Where partitions require lead protection but not plastering, lead lined plywood panels should be specified.

These panels are tailor-made units of lead and plywood in sizes geometrically suited to particular wall areas.

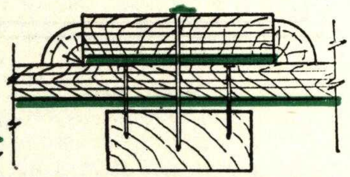
Plywood can be any finish required to match other finishes.

Lead sheets are in one piece fastened to plywood with special plastic base adhesive, guaranteed not to dry out, set up or pull loose.

Butt joints are protected by lead lined plywood joint strips, usually 1¾″ wide, which span joints providing the necessary lead protection and giving a finished wall design which has eye appeal.

Plywood may be stained or painted as preferred.

Lead lined plywood panels are usually fastened to wood studs or furring with wire nails. Joint strips are fastened with lead head nails.



lead lath

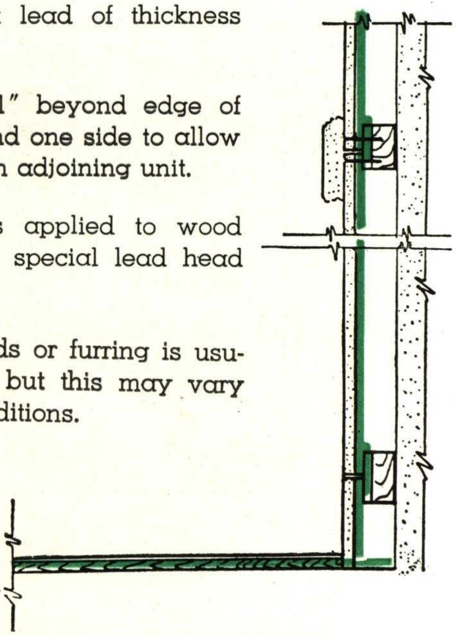
Where partitions require lead protection, plus a surface of plaster finish, lead plaster board lath should be specified.

Lead plasterboard lath is manufactured in standard commercial sizes, usually 16″x48″, of ⅜″ thick plasterboard, backed with unpierced sheet lead of thickness required.

Sheet lead projects 1″ beyond edge of plasterboard at top and one side to allow overlapping of lead on adjoining unit.

Lead plasterboard is applied to wood studs or furring with special lead head nails.

Spacing of wood studs or furring is usually 16″ on centers, but this may vary under particular conditions.



lead insulated plasterboard

Where first class building code construction of partitions is not required or for remodeling of existing rooms to permit use of x-ray equipment with adequate lead protection, and still have plaster wall surfaces, lead insulated plasterboard should be specified.

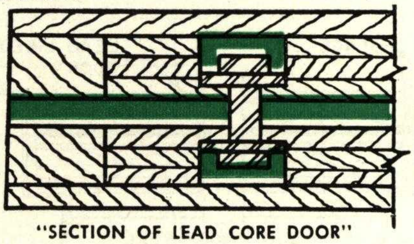
Plasterboard is made up in standard commercial sizes, usually 16″ x 48″, of ⅜″ thick plasterboard or other standard commercial unit, backed with unpierced sheel lead of thickness specified.

Lead projects 1″ beyond edge of plasterboard at top and one side to allow overlapping of lead on adjoining lead plasterboard.

Sheet lead is fastened to plasterboard with a special plastic base adhesive, guaranteed not to dry out, set up or pull loose.

Lead insulated plasterboard is applied to wood studding or furring with special lead head nails. Spacing of studs or furring is usually 16″ on centers, but this may vary under particular conditions.

lead core doors



"SECTION OF LEAD CORE DOOR"

Radiation proof doors are usually specified as flush type. Doors are manufactured in any size, thickness or finish to suit architects specifications, with sheet lead core to be of thickness commensurate with radiation.

Where vision is required, doors may have radiation protective lead glass panels installed during manufacture.

Where ventilation is required, doors may have radiation protective lead louvres built in.

Lead core shall be in one single piece and full size of door.

Door is constructed of two wood cores, preferably plywood at least ¾″ thick, with sheet lead core in between and fastened together with steel bolts, countersunk in cores. Poured lead covers bolt heads and nuts to guarantee complete lead protection.

Hardware may be installed on job if adequate care is taken to maintain protection by competently lining lock and hinge recesses.

Where voice control, as well as vision is required, this is accomplished by installing two lights of lead glass, offset and overlapping.

Door frames, whether metal bucks or wood must be lined with sheet lead, taking care that lead overlaps between door and frame.

GENERAL LEAD CONSTRUCTION CORPORATION

1821 Harrison Avenue **Kearny, New Jersey**

Agents in Principal Cities

NELCO

X-RAY PROTECTION

NEW ENGLAND LEAD BURNING CO., INC. • SAN LEANDRO, CALIF.

Contractors in Lead

NELCO

X-RAY PROTECTION

Manufacturers and Installers since 1935, New England Lead Burning Co., Inc., has been furnishing and installing lead protection in hospitals, clinics, and medical schools throughout the country, and with our five factories and offices strategically located, we are prepared to handle any job.

FLOOR LAPS:

Three practical methods for installation of sheet lead on floors: butt and burnt joint, lead strips recessed in slab, and a lap seam.

DOORS:

"NELCO" lead core doors, either with poured lead fasteners or bolts.

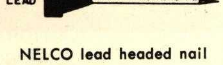
WINDOWS:

"NELCO" extruded lead window with or without voice passage, and the split lead glass type for doors or narrow partitions.

GUARANTEE AND SPECIFICATIONS:

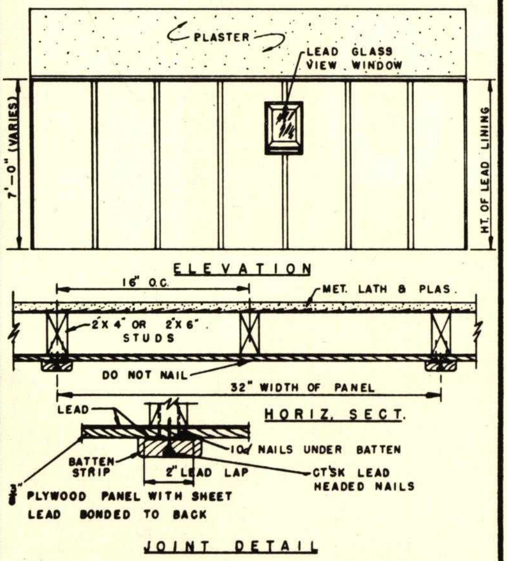
All X-Ray protection material and equipment as manufactured and installed by New England Lead Burning Company, Inc., is guaranteed to conform to the United States Department of Commerce, National Bureau of Standards.

We have given specifications of construction with our illustrated details in the following pages. If further information is desired, contact our nearest location.



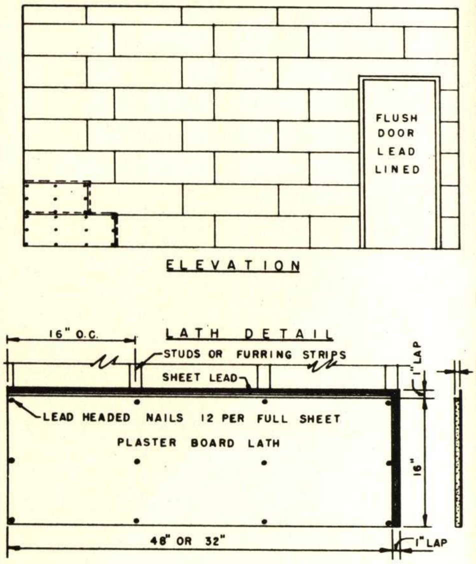
NELCO lead headed nail

PLYWOOD PANELS


PLASTER
LEAD GLASS VIEW WINDOW
7'-0" (VARIES)
HT. OF LEAD LINING
ELEVATION
16" O.C.
MET. LATH & PLAS.
2"X 4" OR 2"X 6" STUDS
DO NOT NAIL
32" WIDTH OF PANEL
HORIZ. SECT.
LEAD
10d NAILS UNDER BATTEN
BATTEN STRIP
2" LEAD LAP
CT'SK LEAD HEADED NAILS
PLYWOOD PANEL WITH SHEET LEAD BONDED TO BACK
JOINT DETAIL

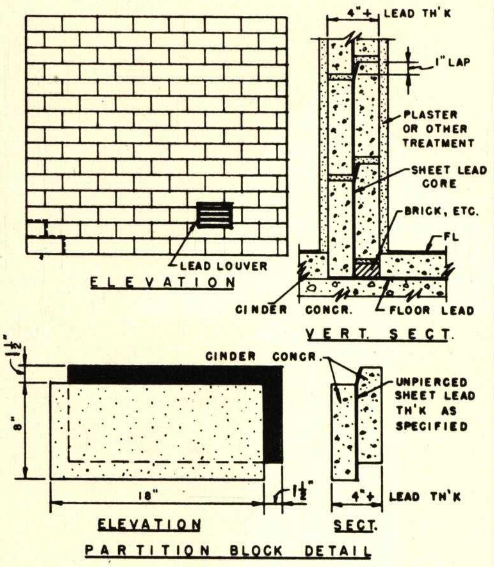
NELCO lead line plywood panels; 3/8" thick plywood with sheet lead bonded to the back with special adhesive. Joints protected by battenstrips. Specified when plastering not required — may be finished in any desired finish, except plaster.

ROCK LATH PANELS


FLUSH DOOR LEAD LINED
ELEVATION
16" O.C.
LATH DETAIL
STUDS OR FURRING STRIPS
SHEET LEAD
1" LAP
LEAD HEADED NAILS 12 PER FULL SHEET
PLASTER BOARD LATH
16"
48" OR 32"
1" LAP

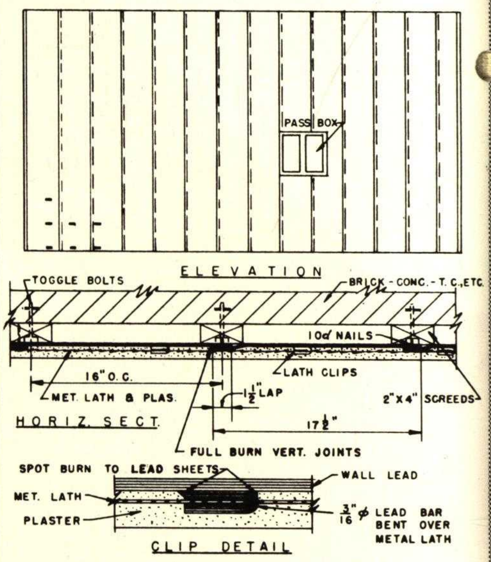
NELCO lead backed lath; 3/8" thick plasterboard lath 16" x 48" with a sheet of unpierced lead bonded to the back, thickness as specified. Specified when required plaster finish, standard sizes—special sizes to order.

CINDER BLOCK WALLS


4"+ LEAD TH'K
1" LAP
PLASTER OR OTHER TREATMENT
SHEET LEAD CORE
BRICK, ETC.
FL
LEAD LOUVER
ELEVATION
CINDER
CONCR.
FLOOR LEAD
VERT. SECT.
1½"
CINDER CONCR.
UNPIERCED SHEET LEAD TH'K AS SPECIFIED
8"
18"
1½"
4"+
LEAD TH'K
ELEVATION
SECT.
PARTITION BLOCK DETAIL

NELCO lead lined cinder blocks; specially designed with a tapered edge at top and one side to form a positive keyed mortar joint.

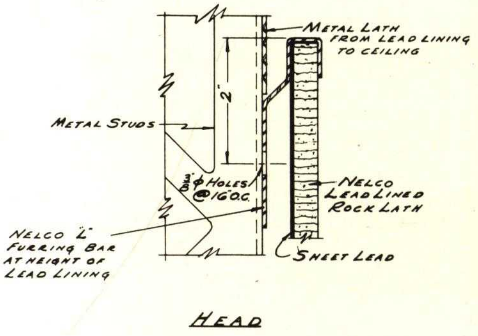
SHEET LEAD BURNED

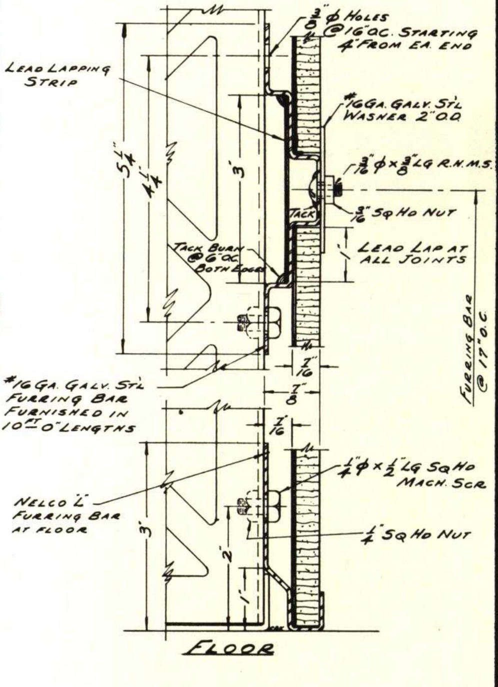

PASS BOX
ELEVATION
TOGGLE BOLTS
BRICK - CONC. - T. C., ETC.
10d NAILS
LATH CLIPS
16" O.C.
MET. LATH & PLAS.
1½" LAP
2"X4" SCREEDS
HORIZ. SECT.
17½"
FULL BURN VERT. JOINTS
SPOT BURN TO LEAD SHEETS
WALL LEAD
MET. LATH
PLASTER
3/16" ϕ LEAD BAR BENT OVER METAL LATH
CLIP DETAIL

Method recommended where lead is 1/4" or over. Sheets lapped a minimum of 2", with all joints burned. Lead lath clips spot burned to hold metal lath in place.

NELCO X-RAY PROTECTION

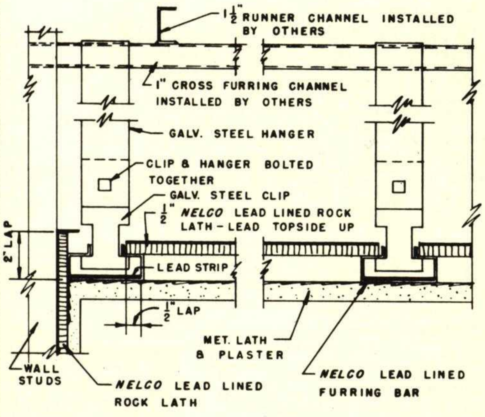
FURRING BAR


METAL LATH FROM LEAD LINING TO CEILING
2"
METAL STUDS
3/8" ϕ HOLES @16" O.C.
NELCO LEAD LINED ROCK LATH
NELCO "L" FURRING BAR AT HEIGHT OF LEAD LINING
SHEET LEAD
HEAD


3/8" ϕ HOLES @16" O.C. STARTING 4" FROM EA. END
LEAD LAPPING STRIP
#16 GA. GALV. ST'L WASHER 2" O.D.
5 1/4"
4 1/4"
3"
3/16" ϕ x 3/8" LG R.H.M.S.
TACK
3/16" SQ HD NUT
TACK BURN @6" O.C. BOTH EDGES
1"
LEAD LAP AT ALL JOINTS
FURRING BAR @ 17" O.C.
7/16"
7/8"
#16 GA. GALV. ST'L FURRING BAR FURNISHED IN 10FT–0" LENGTHS
1/4" ϕ x 1/2" LG SQ HD MACH. SCR
NELCO "L" FURRING BAR AT FLOOR
1/4" SQ HD NUT
3"
2"
1"
FLOOR

NELCO lead lined wall furring bar where wood nailing strips or studs are not allowed in the construction.

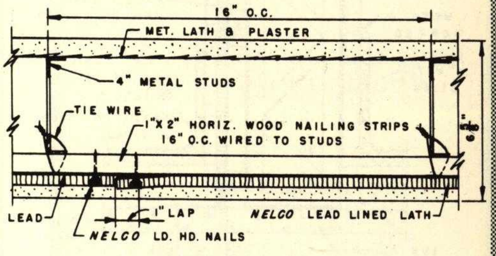
SUSPENDED CEILINGS


1 1/2" RUNNER CHANNEL INSTALLED BY OTHERS
1" CROSS FURRING CHANNEL INSTALLED BY OTHERS
GALV. STEEL HANGER
CLIP & HANGER BOLTED TOGETHER
GALV. STEEL CLIP
1/2" NELCO LEAD LINED ROCK LATH – LEAD TOPSIDE UP
2" LAP
LEAD STRIP
1/2" LAP
MET. LATH & PLASTER
WALL STUDS
NELCO LEAD LINED ROCK LATH
NELCO LEAD LINED FURRING BAR

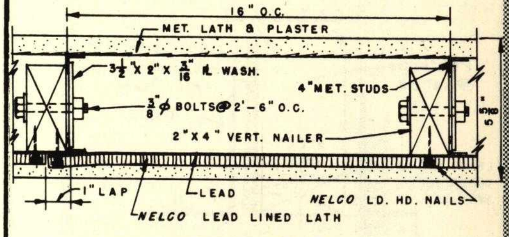
SECTION
FURRING BAR & HANGER DETAIL

Suspended ceiling of NELCO lead lined furring channels installed with metal clips and hangers adjoining lead insulated walls.

ROCK LATH METAL STUDS


16" O.C.
MET. LATH & PLASTER
4" METAL STUDS
TIE WIRE
1" x 2" HORIZ. WOOD NAILING STRIPS 16" O.C. WIRED TO STUDS
6"
LEAD
1" LAP
NELCO LEAD LINED LATH
NELCO LD. HD. NAILS

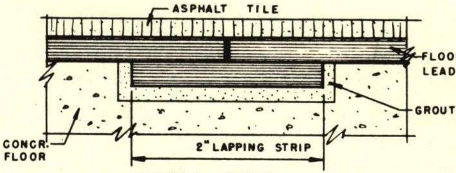
HORIZ. SECT.


16" O.C.
MET. LATH & PLASTER
3 1/2" x 2" x 3/16" FL. WASH.
4" MET. STUDS
3/8" ϕ BOLTS @ 2'–6" O.C.
5 5/8"
2" x 4" VERT. NAILER
1" LAP
LEAD
NELCO LD. HD. NAILS
NELCO LEAD LINED LATH

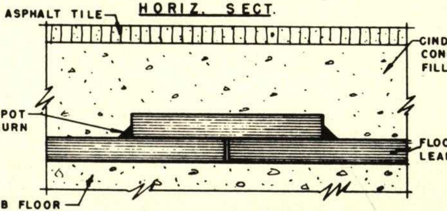
HORIZ. SECT.

Two practical methods of installing NELCO lath on metal studs, vertical 2" x 4" bolted to metal stud or 1" x 2" nailing strip wired horizontally.

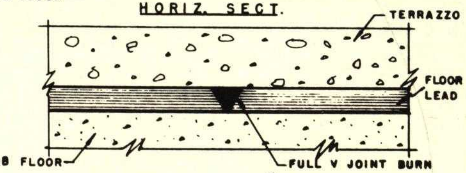
FLOOR LAPS


ASPHALT TILE
FLOOR LEAD
GROUT
CONCR. FLOOR
2" LAPPING STRIP

HORIZ. SECT.


ASPHALT TILE
CINDER CONCR. FILL
SPOT BURN
FLOOR LEAD
SUB FLOOR

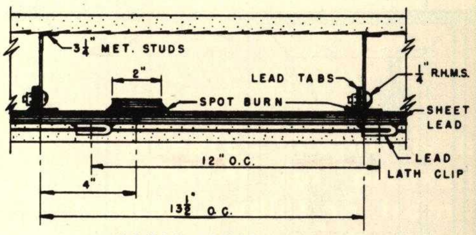
HORIZ. SECT.


TERRAZZO
FLOOR LEAD
SUB FLOOR
FULL V JOINT BURN

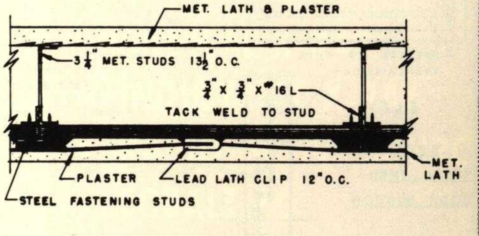
THIS METHOD FOR LEAD 1/8" TH'K AND UP

Three common methods used for installing sheet lead on floors. Lap seam with strip in a chase, recessed in slab and a butt and burnt joint.

HEAVY LEAD ON STUDS


3 1/4" MET. STUDS
2"
LEAD TABS
1/4" R.H.M.S.
SPOT BURN
SHEET LEAD
LEAD LATH CLIP
12" O.C.
4"
13 1/2" O.C.

HORIZ. SECT.


MET. LATH & PLASTER
3 1/4" MET. STUDS 13 1/2" O.C.
3/4" x 3/4" x #16 L
TACK WELD TO STUD
MET. LATH
PLASTER
LEAD LATH CLIP 12" O.C.
STEEL FASTENING STUDS

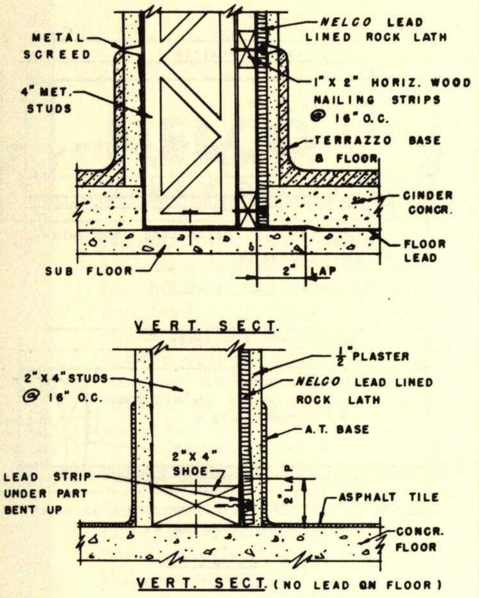
HORIZ. SECT.

(ALTERNATE METHOD)
DEVELOPED BY NELCO

Suggested methods when lead is 1/2" thick and up to allow a minimum partition width.

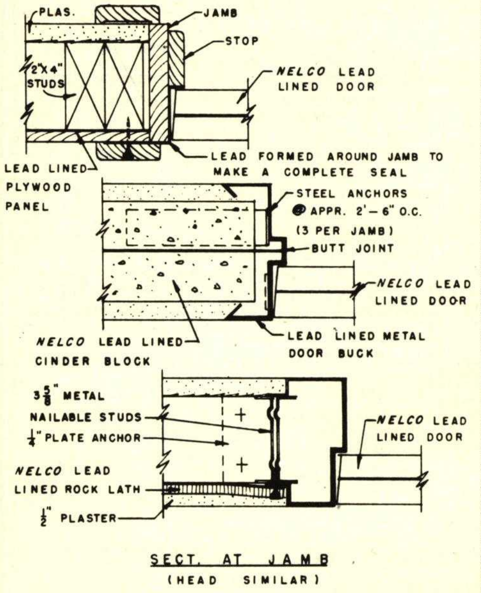
NELCO X-RAY PROTECTION

PARTITION AND FLOOR LAP


METAL SCREED
4" MET. STUDS
NELCO LEAD LINED ROCK LATH
1" X 2" HORIZ. WOOD NAILING STRIPS @ 16" O.C.
TERRAZZO BASE & FLOOR
CINDER CONCR.
FLOOR LEAD
SUB FLOOR
2" LAP
VERT. SECT.
2" X 4" STUDS @ 16" O.C.
1/2" PLASTER
NELCO LEAD LINED ROCK LATH
A.T. BASE
2" X 4" SHOE
LEAD STRIP UNDER PART BENT UP
2" LAP
ASPHALT TILE
CONCR. FLOOR
VERT. SECT. (NO LEAD ON FLOOR)

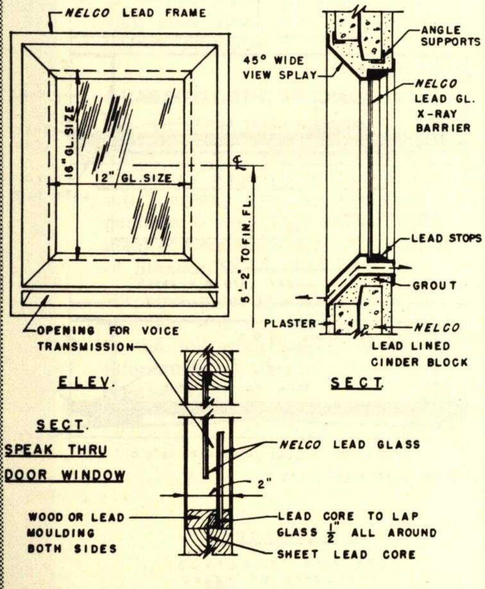
Typical methods used where lead lined walls join lead lined floor or plain floor.

LEAD LINED DOOR FRAMES


PLAS.
JAMB
STOP
2"X4" STUDS
NELCO LEAD LINED DOOR
LEAD LINED PLYWOOD PANEL
LEAD FORMED AROUND JAMB TO MAKE A COMPLETE SEAL
STEEL ANCHORS @ APPR. 2'-6" O.C. (3 PER JAMB)
BUTT JOINT
NELCO LEAD LINED DOOR
NELCO LEAD LINED CINDER BLOCK
LEAD LINED METAL DOOR BUCK
3 5/8" METAL NAILABLE STUDS
1/4" PLATE ANCHOR
NELCO LEAD LINED DOOR
NELCO LEAD LINED ROCK LATH
1/2" PLASTER
SECT. AT JAMB
(HEAD SIMILAR)

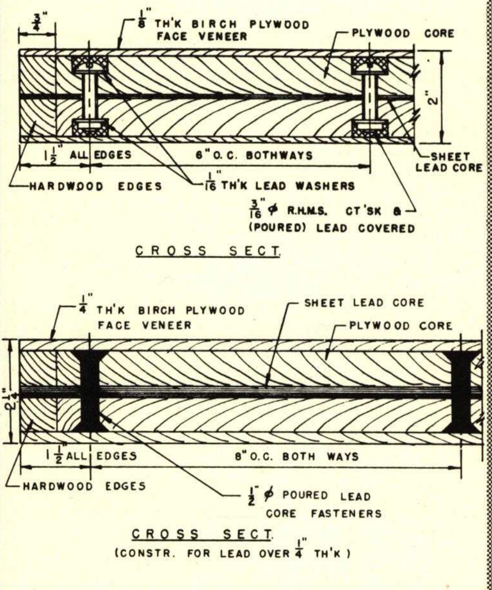
Several practical methods of installing sheet lead lining in metal door frames or around wood jambs.

WINDOWS


NELCO LEAD FRAME
16" GL. SIZE
12" GL. SIZE
5'-2" TO FIN. FL.
OPENING FOR VOICE TRANSMISSION
ELEV.
ANGLE SUPPORTS
45° WIDE VIEW SPLAY
NELCO LEAD GL. X-RAY BARRIER
LEAD STOPS
GROUT
PLASTER
NELCO LEAD LINED CINDER BLOCK
SECT.
SECT. SPEAK THRU DOOR WINDOW
NELCO LEAD GLASS
2"
WOOD OR LEAD MOULDING BOTH SIDES
LEAD CORE TO LAP GLASS 1/2" ALL AROUND
SHEET LEAD CORE

NELCO lead window frames with or without voice passage. Also split lead glass type for doors or narrow partitions furnished in desired sizes.

DOORS


3/4"
1/8" TH'K BIRCH PLYWOOD FACE VENEER
PLYWOOD CORE
2"
1 1/2" ALL EDGES
6" O.C. BOTHWAYS
SHEET LEAD CORE
HARDWOOD EDGES
1/16" TH'K LEAD WASHERS
3/16" φ R.H.M.S. CT'SK & (POURED) LEAD COVERED
CROSS SECT.
1/4" TH'K BIRCH PLYWOOD FACE VENEER
SHEET LEAD CORE
PLYWOOD CORE
2 1/4"
1 1/2" ALL EDGES
8" O.C. BOTH WAYS
HARDWOOD EDGES
1/2" φ POURED LEAD CORE FASTENERS
CROSS SECT.
(CONSTR. FOR LEAD OVER 1/4" TH'K)

NELCO lead core doors, bolted construction with bolts covered with poured lead or poured fastener units when core is over 1/4" thick.

typical installations

Baird Memorial Hospital
Lovelace Foundation
Albuquerque, New Mexico
Architect: Ferguson, Stevens & Associates

• •

Cascade Sanatorium
Redding, California
Architect: E. Geoffrey Bangs

• •

Air Force Indoctrination Center
Processing Bldg. No. 2
Camp Parks, Pleasanton, Calif.
Architect: Frederick W. Whittlesey

• •

Northwest Texas Hospital
Amarillo, Texas
Architect: Guy Carlander

• •

Massachusetts General Hospital
Boston, Mass.
Architects: Coolidge, Shepley, Bulfinch & Abbott

• •

O'Connor Hospital
San Jose, California
Architect: Maguolo, Quick & Franklin T. Georgenson

• •

Peninsula Hospital
Mills Estate, El Carmino Real, South of Millbrae
San Mateo County
Architect: Stone & Mulloy

• •

St. Vincents Hospital
Santa Fe, New Mexico
Architect: Meem, Zehoer, Hollen

• •

New England Deaconess Hospital
Cancer Research-Palmer Memorial
Boston, Mass.
Architects: Coolidge, Shepley, Bulfinch & Abbott

• •

Radiological Laboratory
San Francisco, California
Architect: Blanchard & Maher

• •

Bernalillo County Indian Hospital
Albuquerque, New Mexico
Architect: Ferguson, Stevens & Associates

• •

Roger Williams General Hospital
Providence, R. I.
Architects: Howe, Prout & Ekman

• •

Eden Township Hospital
Castro Valley, California
Architect: Stone & Mulloy

• •

Emanuel Hospital
Portland, Oregon
Architect: Church, Newberry & Roehr

• •

West Contra Costa Hospital
San Pablo, California
Architect: Stone & Mulloy

• •

University of California
Teaching Hospital
San Francisco, California
Architect: Milton T. Pflueger

• •

Day Kimball Hospital
Putnam, Connecticut
Architects: Ebbets, Frid & Prentice, Hartford, Conn.

• •

California Medical Facilities
Vacaville, California
Architect: Division of Architecture, Dept. of Public Works

factories and offices

New England Lead Burning Co., Inc.
98 Balwin Ave., Woburn, Mass.

New England Lead Burning Co., Inc.
535 W. Putnam Drive, Whittier, Calif.

New England Lead Burning Corp.,
4975 Fyler Ave., St. Louis, Mo.

"Nelco" of Texas,
4600 Homestead Rd. Houston, Texas

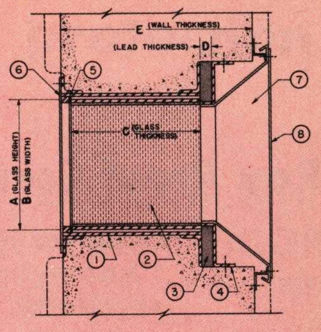
NEW ENGLAND LEAD BURNING CO., INC.

1840 WILLIAMS ST., SAN LEANDRO, CALIFORNIA

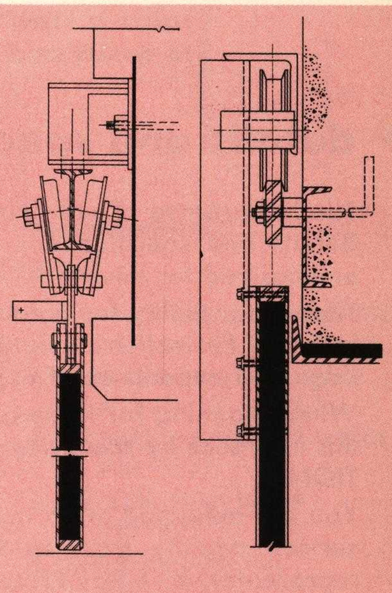
Printed in U.S.A.

RADIATION SHIELDING
X-RAY PROTECTION
LIGHT PROOFING

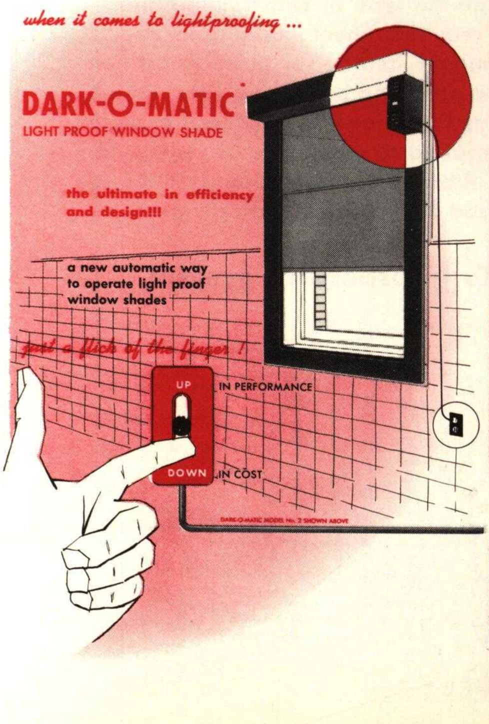
TRADE MARK
RAY PROOF
REG. US PAT OFF


E (WALL THICKNESS)
(LEAD THICKNESS) D
C (GLASS THICKNESS)
A (GLASS HEIGHT)
B (GLASS WIDTH)
①
②
③
④
⑤
⑥
⑦
⑧

STANDARD COBALT ROOM
VIEWING WINDOW



COBALT ROOM
SHIELDED DOORS



when it comes to lightproofing ...

DARK-O-MATIC
LIGHT PROOF WINDOW SHADE

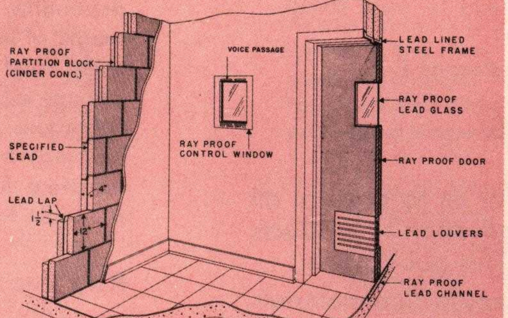
the ultimate in efficiency
and design!!!

a new automatic way
to operate light proof
window shades

just a flick of the finger !

UP
IN PERFORMANCE
DOWN
IN COST

DARK-O-MATIC MODEL No. 2 SHOWN ABOVE


RAY PROOF
PARTITION BLOCK
(CINDER CONC.)
SPECIFIED
LEAD
LEAD LAP
$1\frac{1}{2}$"
4"
12"
VOICE PASSAGE
RAY PROOF
CONTROL WINDOW
LEAD LINED
STEEL FRAME
RAY PROOF
LEAD GLASS
RAY PROOF DOOR
LEAD LOUVERS
RAY PROOF
LEAD CHANNEL

Ray Proof lead lined blocks

engineered materials an
equipment for protectio
against radiation from . .

- MEDICAL X-RAY
- INDUSTRIAL X-RAY
- RADIO ACTIVE SOURCES
- COBALT 60

RAY PROOF CORPORATION

843 Canal Street, P.O. Box 1454, Stamford, Conn.
Telephone: DAvis 5-2201

Ray Proof Corporation

Superior materials resulting from "know-how", skill, and high standards in manufacturing.

Over 30 years experience in manufacturing of x-ray protective and light proofing materials.

The Ray Proof Corporation maintains a staff of trained engineers to assist and solve your problems.

details and specifications

The importance of obtaining correctly engineered details and specifications cannot be too strongly emphasized for this work.

The responsibility for obtaining results so desirable in X-Ray Protection depends entirely on the knowledge and experience of experts.

When planning for these results, be sure to obtain this insurance by specifying RAY PROOF CORPORATION.

You are obligated in no way when you request this service directly from us or our nearest branch representative. X-Ray Protection and Lightproofing is our only business and the biggest part of it is service for your interests.

catalog and design data

Ray Proof Corporation's new enlarged edition of award Winning X-Ray Manual is now available to architects upon request.
Address your requests to Department E-4.

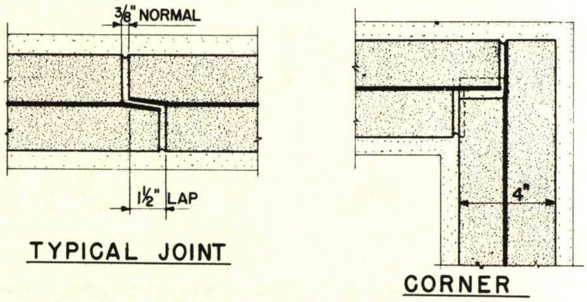
Ray Proof products

- It is impossible for us to present all Ray Proof Corporation's products and materials in this publication.
- We design and manufacture materials and equipment to meet every possible requirement from x-ray radiation sources.
- The addition of new products and methods keeps pace with the latest scientific developments.

Ray Proof partition blocks

Ideal partition material for new construction, simple erection, will take normal wall finishes. Blocks are manufactured 4″ thick with lead up to 8.0mm thick. For heavier lead 6″ thick blocks are used.

Details of 4″ thick Ray Proof blocks

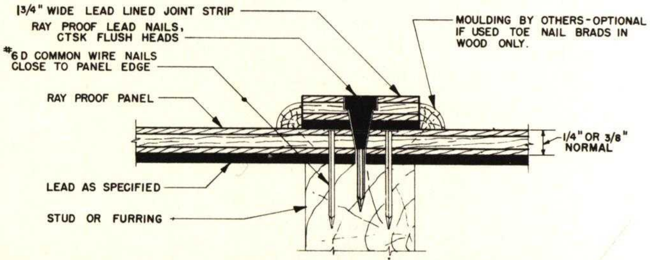

3/8" NORMAL
1½" LAP
4"

TYPICAL JOINT

CORNER

Ray Proof lead insulated panels

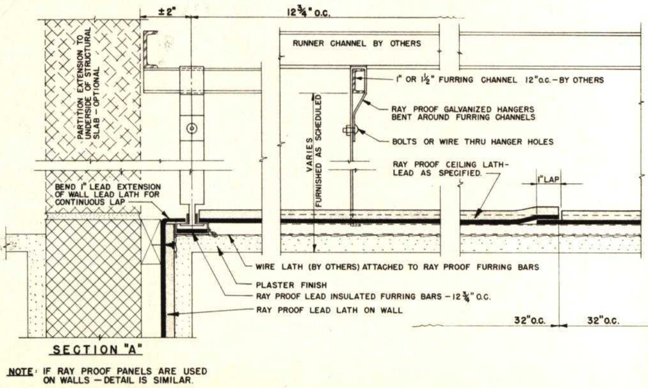
This RAY PROOF material is suitable to use for dry construction, to lead line existing rooms, or for temporary installations. Furnished in tailored sizes—simple to install. Panels are re-useable.


1 3/4" WIDE LEAD LINED JOINT STRIP
RAY PROOF LEAD NAILS, CTSK FLUSH HEADS
#6 D COMMON WIRE NAILS CLOSE TO PANEL EDGE
RAY PROOF PANEL
LEAD AS SPECIFIED
STUD OR FURRING
MOULDING BY OTHERS-OPTIONAL IF USED TOE NAIL BRADS IN WOOD ONLY.
1/4" OR 3/8" NORMAL

Floor and ceiling protection

A variety of materials are available for this purpose, depending upon the type of construction and the weight of lead required. Sheet lead placed on slabs is the most common method for protecting floors. Ceilings may be protected by placing sheet lead on slab above X-Ray Room, or Ray Proof lead insulated lath may be applied to underside of ceiling construction. Ray Proof lath suspension systems are available for lead lining suspended ceilings.

Ray Proof lath suspension system

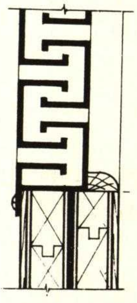

±2"
12¾" O.C.
PARTITION EXTENSION TO UNDERSIDE OF STRUCTURAL SLAB - OPTIONAL
RUNNER CHANNEL BY OTHERS
1" OR 1½" FURRING CHANNEL 12" O.C. - BY OTHERS
RAY PROOF GALVANIZED HANGERS BENT AROUND FURRING CHANNELS
BOLTS OR WIRE THRU HANGER HOLES
VARIES
FURNISHED AS SCHEDULED
RAY PROOF CEILING LATH-LEAD AS SPECIFIED.
1" LAP
BEND 1" LEAD EXTENSION OF WALL LEAD LATH FOR CONTINUOUS LAP
WIRE LATH (BY OTHERS) ATTACHED TO RAY PROOF FURRING BARS
PLASTER FINISH
RAY PROOF LEAD INSULATED FURRING BARS - 12¾" O.C.
RAY PROOF LEAD LATH ON WALL
32" O.C.
32" O.C.
SECTION "A"

NOTE: IF RAY PROOF PANELS ARE USED ON WALLS — DETAIL IS SIMILAR.

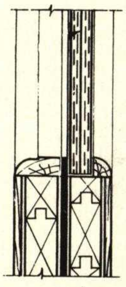
X-RAY protection

Ray Proof doors and accessories

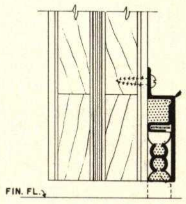
Flush solid core doors available with all common face veneers and specified lead thicknesses. Construction of this door will meet any wood door specification. May be furnished with lead glass, light proof lead louver and/or with light proof seal.



LEAD LIGHT PROOF LOUVER



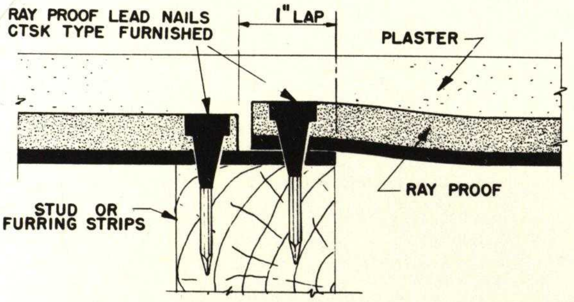
VIEWING PANEL
RAY PROOF X-RAY GLASS



LIGHT PROOF SEAL

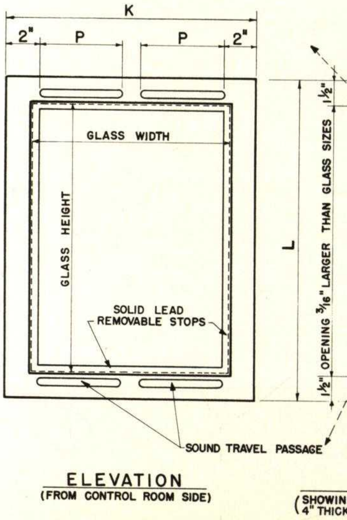
Ray Proof lead insulated lath

This RAY PROOF material performs two operations in one: lead lining and lathing. May be used on new or existing walls. Standard sizes 48″x16″ and 32″x12″. Applied with RAY PROOF nails.

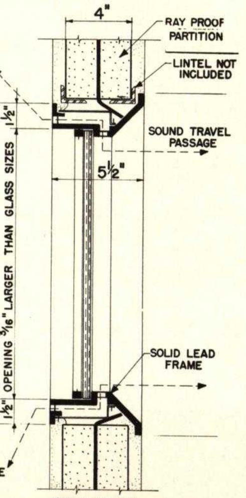

RAY PROOF LEAD NAILS
CTSK TYPE FURNISHED
1" LAP
PLASTER
RAY PROOF
STUD OR
FURRING STRIPS

Ray Proof control windows

These windows permit observation of x-ray rooms and the passage of sound, and simultaneously afford complete x-ray protection for the operator. Frames are solid lead construction, ¼″ thick, splayed on four sides for wide vision. Glazed with RAY PROOF lead glass. Available for the following standard glass sizes: 12″x12″, 12″x16″, 13″x17″ and 16″x24″.


K
2"
P
P
2"
GLASS WIDTH
GLASS HEIGHT
L
SOLID LEAD
REMOVABLE STOPS
SOUND TRAVEL PASSAGE

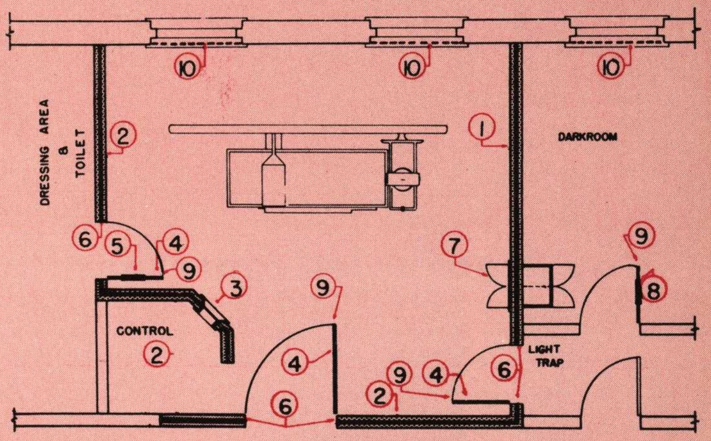
ELEVATION
(FROM CONTROL ROOM SIDE)


4"
RAY PROOF
PARTITION
LINTEL NOT
INCLUDED
SOUND TRAVEL
PASSAGE
5½"
1½"
OPENING 3/16" LARGER THAN GLASS SIZES
1½"
SOLID LEAD
FRAME

SECTION
(SHOWING TYPICAL INSTALLATION IN 4" THICK RAY PROOF BLOCK PARTITION)

RADIOGRAPHIC AND FLUOROSCOPY

FOR 100 KVP 2000 MA-MIN/WEEK


DRESSING AREA & TOILET
DARKROOM
CONTROL
LIGHT TRAP
1
2
2
2
3
4
4
4
5
6
6
6
7
8
9
9
9
9
10
10
10

LEGEND:

1. **RAY PROOF LEAD LINED BLOCKS** 1.5mm lead from floor slab to ceiling. See plate No. 4, fig. 4-B or 4-C.
2. **RAY PROOF LEAD LINED BLOCKS** 1.5mm lead from floor slab to the height of 7′-0″. See plate No. 4, fig. 4-A.
3. **RAY PROOF CONTROL WINDOW** With one ply of Ray Proof Glass. See plate No. 33.
4. **RAY PROOF DOOR** 1.5mm lead lined, 2″ thick. See plate No. 25.
5. **RAY PROOF LEAD LIGHT PROOF LOUVER** See plate No. 25 & 35.
6. **1.5MM LEAD LINED DOOR FRAME** See plate No. 29, fig. 29-E.
7. **RAY PROOF FILM TRANSFER CABINET** See plate No. 38.
8. **STEEL LIGHT PROOF LOUVER** See plate No. 35.
9. **LIGHT PROOF DOOR SEAL** See plate No. 31.
10. **LIGHT PROOF SHADE** See plates No. 41, 42 & 44.

PLATES REFERED TO ABOVE WILL BE FOUND IN RAY PROOF CORPORATION CATALOG No. 53.

NOTES

Above layout shows the use of Ray Proof materials in a typical X-Ray room. These material requirements vary for each installation. For properly determining the true factors for X-Ray protection a full knowledge is necessary of existing or proposed construction as follows—

1—Type of construction of floors and ceilings—existing or proposed.
2—Type of construction of walls—if existing.
3—Occupancy of spaces above, below and adjacent to the proposed X-Ray installation.
4—Distance from floor to ceiling.
5—Geographical location of X-Ray installation with respect to walls of X-Ray room.
6—The KVP (peak kilo volts) and MA (milliampere) of equipment selected for installation.

Consult the RAY PROOF CORPORATION engineering dep't. for recommendations.

partial list of Ray Proof Installations

ARGONNE CANCER RESEARCH HOSPITAL
Chicago, Illinois
M. D. ANDERSON HOSPITAL
Houston, Texas
ATHOL MEMORIAL HOSPITAL
Athol, Massachusetts
BAPTIST HOSPITAL
Pensacola, Florida
CONFEDERATE MEMORIAL HOSPITAL
Shreveport, Louisiana
CANCER RESEARCH INSTITUTE
Denver, Colorado
ELMHURST HOSPITAL
New York, New York
FRANCIS DELAFIELD HOSPITAL
New York, New York
GEORGIA BAPTIST HOSPITAL
Atlanta, Georgia
GRACE HOSPITAL
New Haven, Connecticut
LANKENAU HOSPITAL
Overbrook, Pennsylvania
MEMORIAL HOSPITAL
Dallas, Texas
MEMORIAL HOSPITAL
New York, New York
MOBILE INFIRMARY
Mobile, Alabama
MOUNT SINAI HOSPITAL
Chicago, Illinois
MOUNT SINAI HOSPITAL
New York, New York
NEW YORK INFIRMARY
New York, New York
PRESBYTERIAN MEDICAL CENTER
New York, New York
PARKVIEW HOSPITAL
Toledo, Ohio
PERCY JONES HOSPITAL
Battle Creek, Michigan
ROSWELL PARK HOSPITAL
Buffalo, New York
SAN BERNARDINO T. B. HOSPITAL
San Bernardino, California
ST. ANTHONY'S MEMORIAL HOSPITAL
Effingham, Illinois
ST. CHARLES HOSPITAL
Bend, Oregon
ST. MARY'S HOSPITAL
Tucson, Arizona
VETERANS ADMINISTRATION HOSPITAL
Fort Hamilton, New York
VETERANS ADMINISTRATION HOSPITAL
Kansas City, Missouri

Ray Proof sales representatives

		TELEPHONE
ALA.	Mobile: Shearer & Rayford 2504 Old Shell Road	GR 9-4581
ARK.	Little Rock: John F. Brett & Co. 315 W. Markham Street	FRanklin 5-4928
ARIZ.	Phoenix: Baker Thomas Woolsey Wholesalers, Inc. 300 S. 12th Street	ALpine 4-5503
COLO.	Denver 4: Builders Service Bureau, Inc. 1221 Bannock Street	TA 5-5244
DIST. OF COL.	Washington: James A. Cassidy Company, 3329 8th Street, N. E.	HUdson 3-8300
FLA.	Coral Gables 34: Henderson and Johnson, 389 Granello Avenue	HIghland 8-4486
	Jacksonville: E. F. Zibell 6134 Stetson Road	EXbrook 8-2862
	Sarasota: M. M. Bayard, 949 Caloosa Drive	RIngling 7-6840
GA.	Atlanta 5: L. E. Murray Northside Station, Box 11975	CEdar 3-3375
ILL.	Chicago 6: Walter W. Mitchell Co. Inc. 549 W. Randolph Street	CEntral 6-3085
	Decatur: Hugh J. Baker & Co. 560 Citizens Bldg.	2-2810
IND.	Evansville: Hugh J. Baker Co. 2901 E. Oak Street	GReenleaf 7-1491
	Fort Wayne: Hugh J. Baker & Co. 1028 South Barr Street	ANthony 0286
	Indianapolis 6: Hugh J. Baker & Company 602 West McCarty Street	MElrose 5-3322
	South Bend: Hugh J. Baker & Company 2521 Miami Road	ATlantic 9-9042
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KANSAS	Wichita: Contractors Supply 703 East 15th Street	AM 7-2771
KY.	Louisville: John W. Bishop 5330A South Third Street,	EM 8-1691
LA.	New Orleans 25: McDougall-Parsons Company Inc. 909 So. White Street	JA 2-3685
	Shreveport: Ideal Building Materials, Inc. 1730 Claiborne Avenue	7-0521
MD.	Baltimore 18: Charles Ingram and Company 2437 North Calvert Street	TUxedo 9-2443
MASS.	Boston 15: Construction Specialties Co. 126 Massachusetts Avenue	COpley 7-1503
MICH.	Detroit 7: M. W. Hamill Company 1430 Larned Street	WO 1-0534
	Grand Rapids: H. Edward Brunhoff, Jr. 520 Gladstone S E	GL 2-4808
MINN.	Minneapolis: Bartley Sales Company, Inc. 134 South 10th Street	FE 8-7838
MO.	Kansas City: B-D-R Engineering Corporation 4243 Pennsylvania Avenue	JE 1-8366
MONT.	Butte: Construction Materials Co. Box 198	2-7782
NEB.	Omaha 2: Earl S. Lewis & Co., Inc. 708 Woodmen of the World Bldg.	ATlantic 1633
N.Y.C.	Ray Proof Corporation	PLaza 7-0810
N. Y.	Buffalo 13: Troup Engineering Co. 295 Auburn Avenue	GArfield 0900
N.C.	Charlotte: W. Fred Casey and Company 401 South Mint Street, P.O. Box 904	ED 3-5820
	Raleigh: W. Fred Casey & Co., P.O. Box 1131	TE 3-0517
OHIO	Cleveland 15: Hume Sales Inc. 1900 Euclid Avenue	CHerry 1-6668
	Springfield: Columbia Sales Agency 21 South Limestone Street	FAirfax 3-0277
OKLA.	Oklahoma City: Scovil & Sublett, Inc. 100 N. E. 26th Street	JA 8-6365
	Tulsa: Murray R. Womble Company 216 East 16th Street	LUther 4-2414
ORE.	Portland 4: W. H. Cress Company 201 Concord Building	CApital 8-1714
PA.	Harrisburg: R. P. Campbell 608 No. 17th Street	CE 8-7924
	Philadelphia 2: M. O. Sundelius 1321 Arch Street	LO 7-2984
	Pittsburgh 22: Building Specialties Co. 951 Century Building	ATlantic 1-1890
TENN.	Chattanooga: Hale Specialties, Inc. 1077 Duncan Avenue	MA 4-3391
	Knoxville: Wm. S. Trimble Co., Inc. 2200 Atchley Street	5-2133
	Memphis 14: Maury and Company 1612 Lamar Avenue	BR 2-9656
	Nashville: Builders Specialties Co., Inc. of Tennessee, 1523 Demonbreum Street	AL 6-0325
TEXAS	Dallas: R. J. DeWees & Son, Inc. 5911 Maple Avenue	FLeetwood 2-4181
	El Paso: Electrical & Mechanical Supply Co. Inc., 2000 Texas Street	KEystone 2-4614
	Houston 6: Henry W. Garrett & Company 2027 Harold Avenue	JAckson 9-2708
	Lubbock: J. Sterling Crumpler 222 Whiteside Building	PO 5-2856
	San Antonio 9: R. J. DeWees & Son, Inc. P.O. Box 6534	CApitol 5-2251
UTAH	Salt Lake City 1: S. A. Roberts & Company 109 West 2nd South Street	EMpire 4-4431
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WISC.	Milwaukee 2: J. M. Mitchell Products Co. 759 N. Milwaukee Street	BRoadway 6-6152

FOREIGN AGENTS

CANADA	Edmonton, Alberta: Western Porcelain and X-Ray Protection Sales, Ltd. 11611 106th Avenue	884482
PUERTO RICO	International General Electric P.O. Box 9387, Santurce	

RAY PROOF CORPORATION

843 Canal St., P.O. Box 1454, Stamford, Conn.

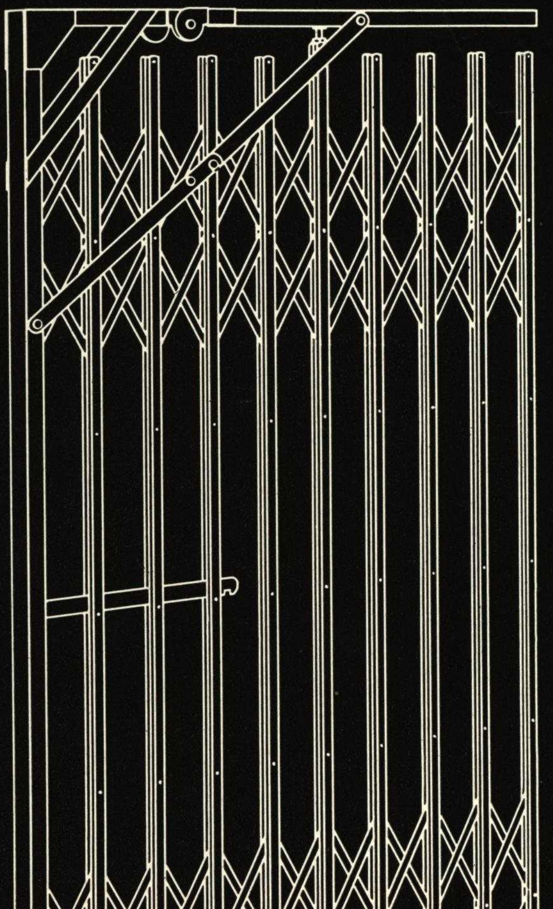
DAvis 5-2201

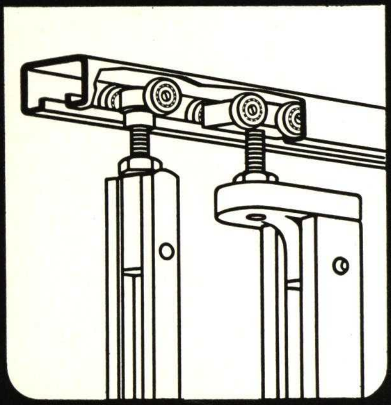
22f/Ac

folding gates

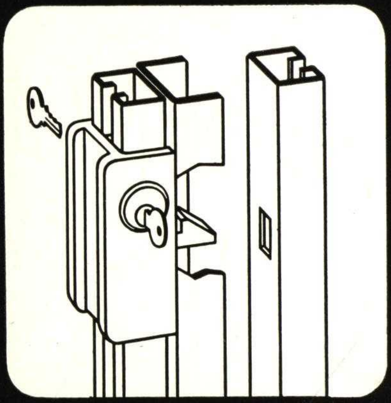
Acorn Wire and Iron Works, Inc.
New York—Chicago—Los Angeles

construction

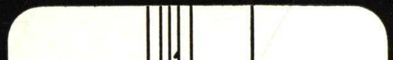




Adjustable ball bearing trucks in box type tracks for smooth operation—(4 wheel trucks on end bar—2 wheel trucks on intermediate).



Cylinder locks mortised into gate end bar. Keyed both sides. Yale mortise cylinders, or master-keyed to building system.



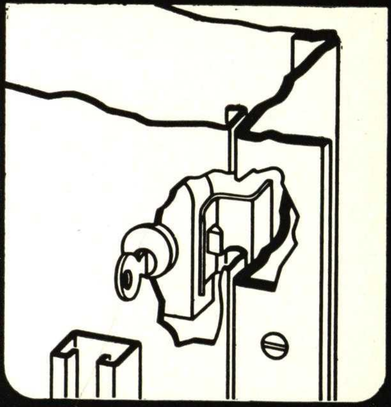
Machined roller bearings in all vertical channels assure ease of operation, proportionate spacing of lattice bars.

Copyright 1958 Acorn Wire and Iron Works, Inc.

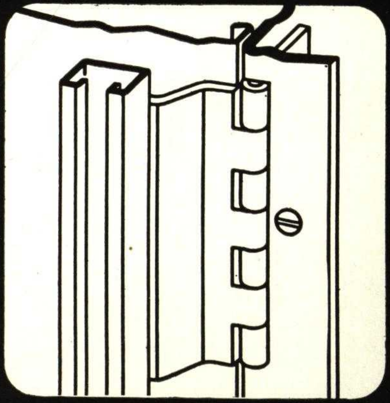
folding gates

Acorn folding gates are designed for use as traffic control units in school corridors, institutions and commercial buildings. They are used as control units for driveways, loading platforms, and permit doors to be opened for ventilation without loss of security. Compact, easy to operate, they can be adapted to fit most conditions.

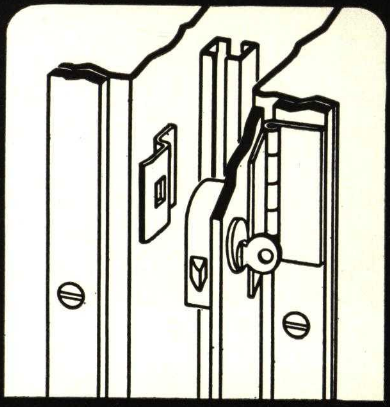
advantages
- strength
- security
- simplicity



$^3/_{16}$″ cold rolled Z bar frame at sides and top of shallow cabinets for adequate strength. C section door edges prevent distortion.



8″ seven knuckle gate hinge, $^3/_{16}$″ leaf, $^7/_{16}$″ pin, mortised into Z bar frame. Offset hinge permits cabinet door to close with gate in either position.



$^3/_{16}$″ thick cold rolled facia strip and door on deep type cabinets for adequate strength and better finished appearance.

a

surface mounted folding gates

Bostwick, 5700 series, Lazy Tong, 5600 series, for use where recessed features are not required.

b

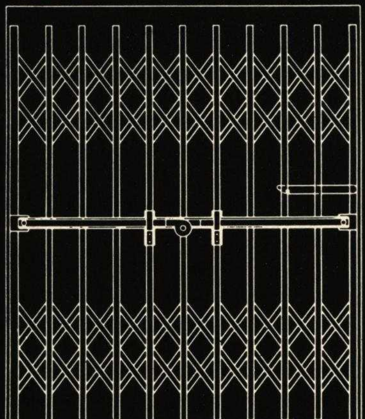
recessed folding gates

Bostwick, 5700 series, gates complete with flush, recessed wall cabinets and lock bars.

a¹—Bostwick

no. 5750S, single, 12′ maximum width

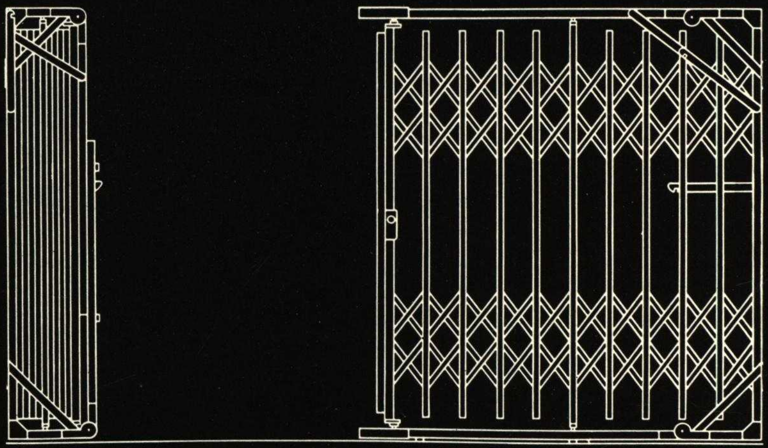
Jack-knife brace on gates over 4′ wide. Folding bottom track over 8′ wide. Hasp or cylinder lock.



no. 5743D, double, 15′ maximum width

no. 5743S, single, 14′ maximum width

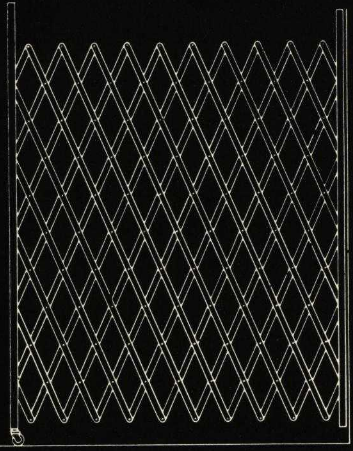
Hinged top and bottom tracks. Hasp or cylinder lock. Maximum height 7′-6″



a²—Lazy Tong

no. 5654, single, 8′ maximum width

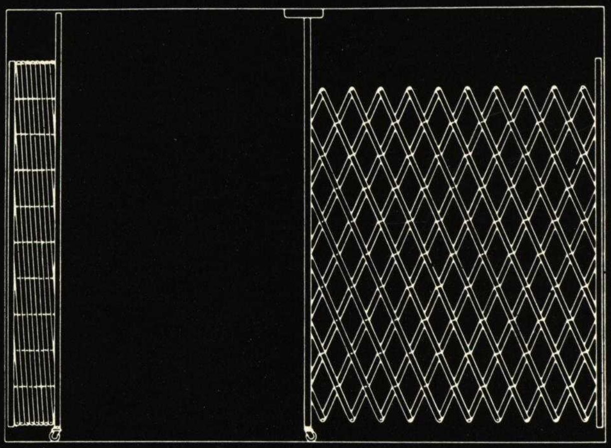
Gate hinged or fixed at side. May be used with hasp for padlock or cylinder lock.



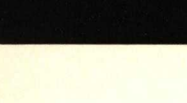
no. 5641, double, 16′ maximum width

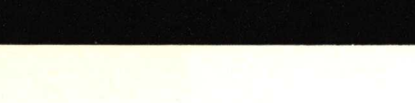
Gates hinged or fixed at sides. Center bar extends opening height.

Fixed top brace, locking floor bolt. Equipped with hasp for padlock or cylinder lock.



typical plans for gate placement



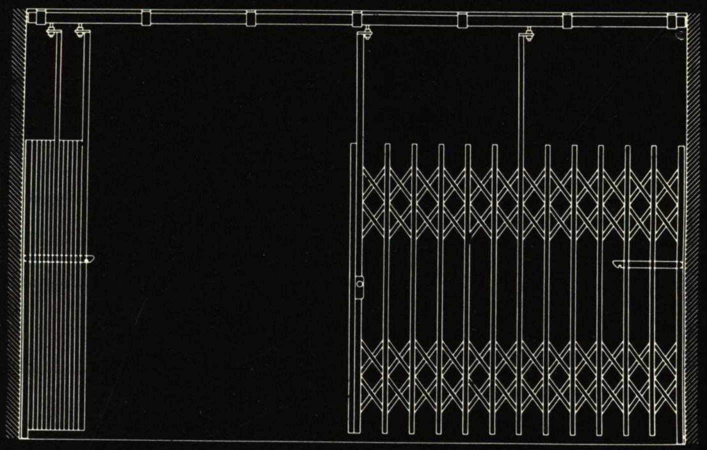


◀ **plan 2A** Gates placed in the opening stack fixed in line or flat against wall.

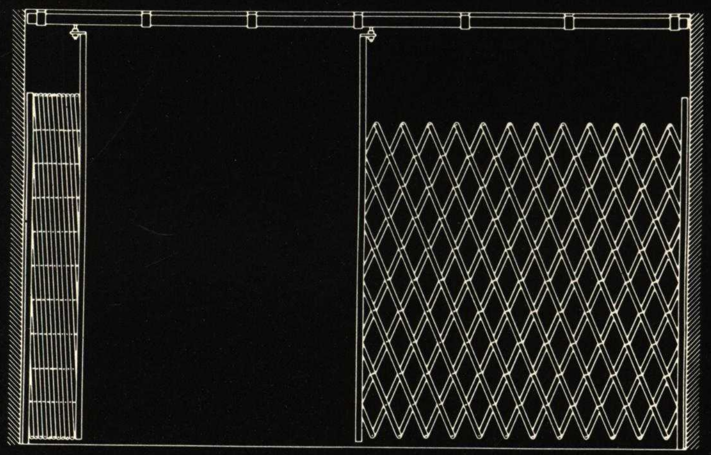
Gates placed on face of wall, stack clear of opening.

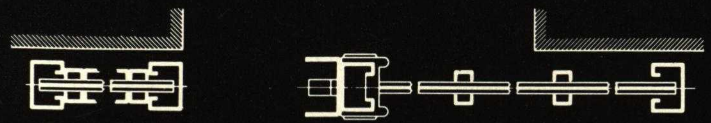
plan 2B ▶

no. 5748D, double, 30′ maximum width
no. 5748S, single, 15′ maximum width
Fixed overhead track. Floor bolts or folding bottom track. Hasp or cylinder lock.



no. 5649, sectional, unlimited width
Permanent overhead track. Gates in sections with padlocking floor bolts. Gates may stack flat against wall or clear of opening.





surface mounted folding gates

Bostwick, 5700 series; Lazy Tong, 5600 series, for use where recessed features are not required.

specifications:

a^{1}—Bostwick

no. 5750—Gate to be no. 5750, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels spaced vertically not over 6″ o.c. Lattice bars ⅝″ x $\frac{3}{16}$″. Fully enclosed end bars. All moving parts fitted with rollers. All cold rolled material. Hasp for padlock or cylinder lock.

no. 5743—Gate to be no. 5743, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels spaced vertically not over 6″ o.c. Lattice bars ⅝″ x $\frac{3}{16}$″. Fully enclosed end bars. All moving parts fitted with rollers. All cold rolled material. Hasp for padlock or cylinder lock.

no. 5748—Gate to be no. 5748, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels spaced vertically not over 6″ o.c. Lattice bars ⅝″ x $\frac{3}{16}$″. Fully enclosed end bars. All moving parts fitted with rollers. All cold rolled material. Hasp for padlock or cylinder lock.

a^{2}—Lazy Tong

note: Gate drops 1½″ per foot in height when extended.

no. 5654—Gate to be no. 5654, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels riveted back to back not over 6″ o.c. Fully enclosed end bars to receive rollers. All cold rolled material. Hasp for padlock or cylinder lock.

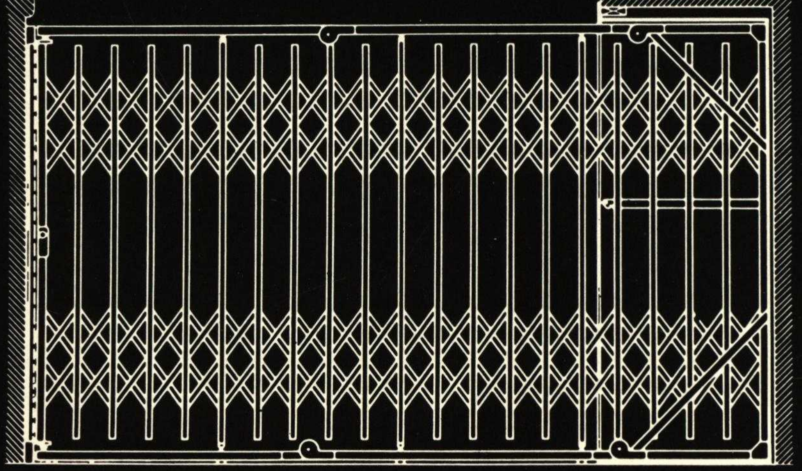
no. 5641—Gate to be no. 5641, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels riveted back to back not over 6″ o.c. Fully enclosed end bars to receive rollers. All cold rolled material. Hasp for padlock or cylinder lock.

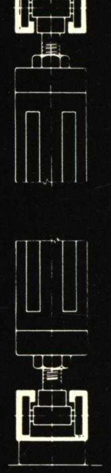
no. 5649—Gate to be no. 5649, as manufactured by Acorn Wire and Iron Works, Inc.
Constructed of ¾″ channels riveted back to back not over 6″ o.c. Fully enclosed end bars to receive rollers. All cold rolled material. Hasp for padlock or cylinder lock.

deep cabinet—12′ maximum corridor width

no. 5762S

Single type folding gate. 7′6″ recommended maximum height. Hinged top and bottom tracks. Roller bearing construction throughout. All cold rolled material for better appearance. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.

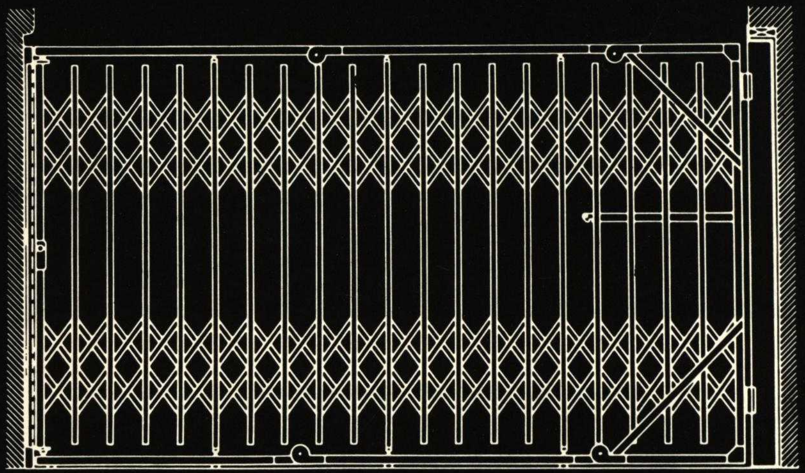


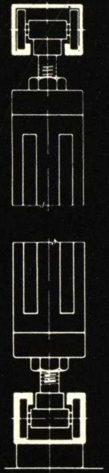


shallow cabinet—14′ maximum corridor width

no. 5761S

Single type folding gate. 7′6″ recommended maximum height. Hinged top and bottom tracks. Roller bearing construction throughout. All cold rolled material for better appearance. Cabinet door can be closed and locked when gate is in use. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.

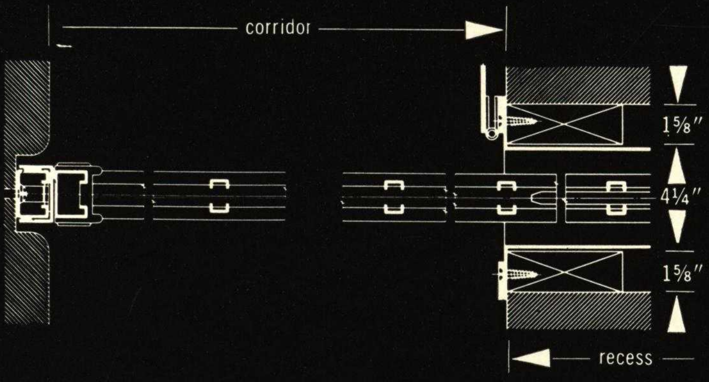




recessed folding gates

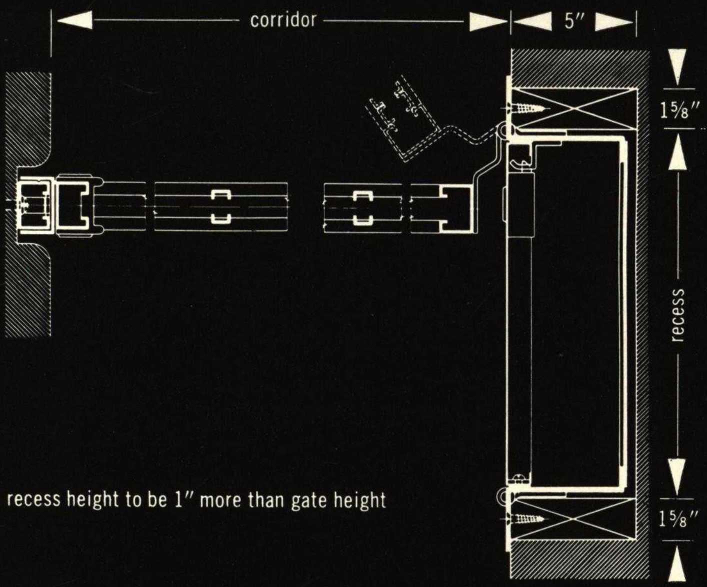
- single type
- hinged top track
- hinged bottom track

corridor [feet]	4	6	8	10	12
recess [inches]	17	21	27½	32	35



recess height to be 1" more than gate height

corridor [feet]	4	6	8	10	12	14
recess [inches]	18	21	24	31	34	37



recess height to be 1" more than gate height

specifications:

no. 5762S—Gate to be no. 5762S as manufactured by Acorn Wire and Iron Works, Inc.

______Vertical members to be two ¾" x ⅜" cold rolled channels spaced not over 6" o.c. Lattice bars ⅝" x 3/16" cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Hinged top and bottom tracks to have gusset braces in all corners, automatic hold up for top track, rubber floor rests for bottom track. Gate to have self locking tie back arm. Cabinet constructed of 12 gauge formed sheet steel with 3/16" thick cold rolled facia strips and door. Gate and cabinet locks to have Yale 1 5/32" diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

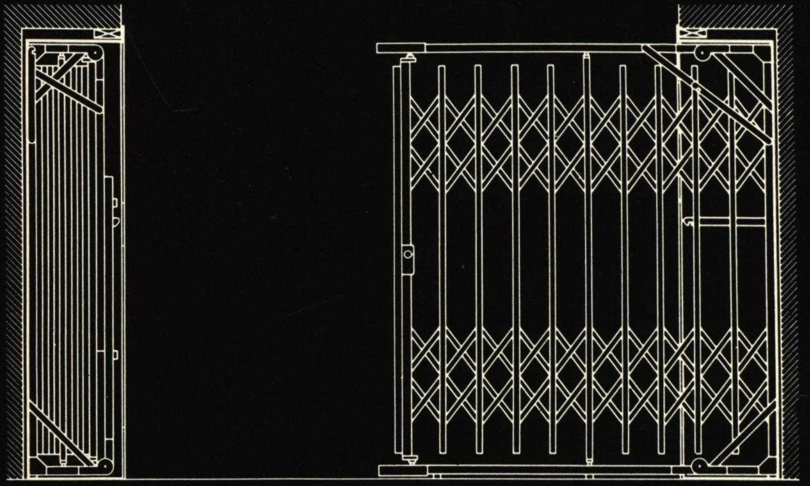
no. 5761S—Gate to be no. 5761S as manufactured by Acorn Wire and Iron Works, Inc.

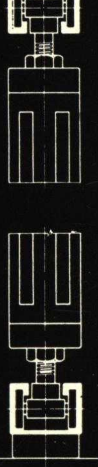
______Vertical members to be two ¾" x ⅜" cold rolled channels spaced not over 6" o.c. Lattice bars ⅝" x 3/16" cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Hinged top and bottom tracks to have gusset braces in all corners, automatic hold up for top track, rubber floor rests for bottom track. Gate to have self locking tie back arm. Cabinet constructed of 3/16" cold rolled Z bar frame with 16 gauge steel back. Flush 16 gauge door to have formed C edges. Gate to have special hinges permitting cabinet door to close and lock when gate is in both stacked and extended position. Gate and cabinet locks to have Yale 1 5/32" diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

deep cabinet—12′ maximum corridor width

no. 5762D

Double type folding gate, 7′6″ recommended maximum height. Hinged top and bottom tracks. Roller bearing construction throughout. All cold rolled material for better appearance. Cylinder locks on gate and cabinets keyed regular or master-keyed to building system.

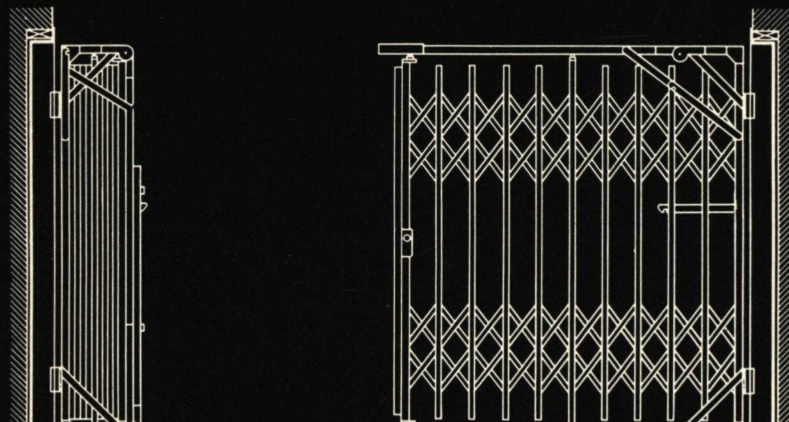


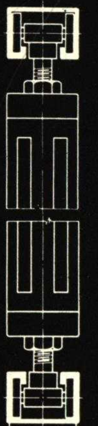


shallow cabinet—16′ maximum corridor width

no. 5761D

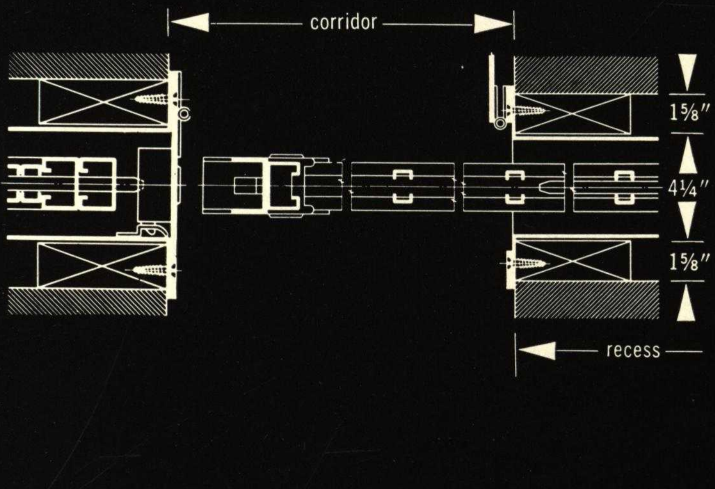
Double type folding gate, 7′6″ recommended maximum height. Hinged top and bottom tracks. Roller bearing construction throughout. All cold rolled material for better appearance. Cabinet doors can be closed and locked when gate is in use. Cylinder locks on gate and cabinets keyed regular or master-keyed to building system.





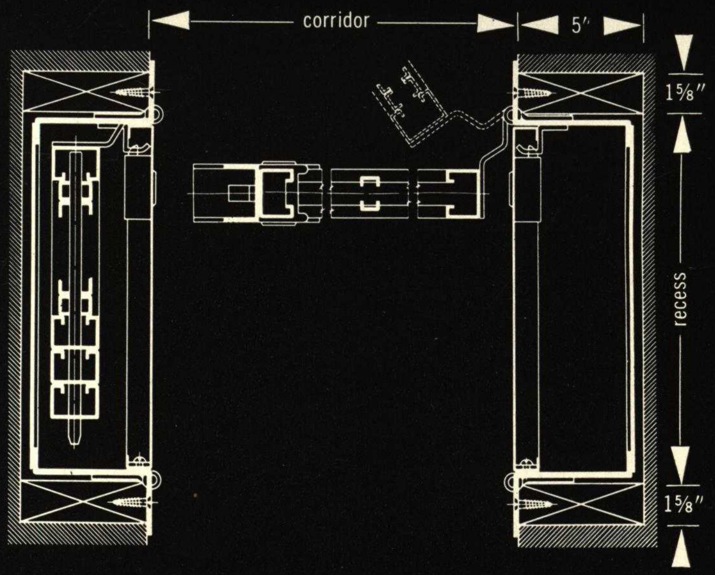
recessed folding gates (cont.)

corridor [feet]	8	9	10	11	12
recess [inches]	18½	19¼	20	20¾	22½



recess height to be 1″ more than gate height

corridor [feet]	8	10	12	14	16
recess [inches]	18	19½	21	23	24½



recess height to be 1″ more than gate height

- double type
- hinged top track
- hinged bottom track

specifications:

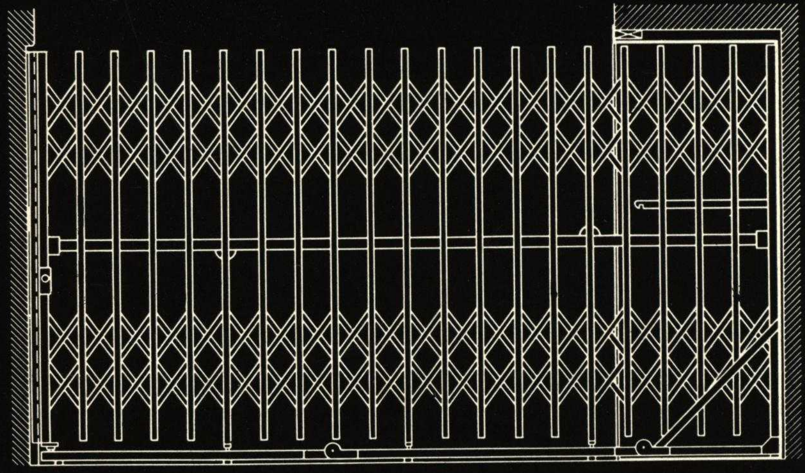
no. 5762D—Gate to be no. 5762D as manufactured by Acorn Wire and Iron Works, Inc. ______Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x $\frac{3}{16}$″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Hinged top and bottom tracks to have gusset braces in all corners, automatic hold up arms for top tracks, rubber floor rests for bottom tracks. Gate to have self locking tie back arms. Cabinets constructed of 12 gauge formed sheet steel with $\frac{3}{16}$″ thick cold rolled facia strips and doors. Gate and cabinet locks to have Yale 1$\frac{5}{32}$″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinets to have standard factory finish, color as selected.

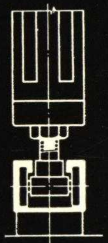
no. 5761D—Gate to be no. 5761D as manufactured by Acorn Wire and Iron Works, Inc. ______Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x $\frac{3}{16}$″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Hinged top and bottom tracks to have gusset braces in all corners, automatic hold up arms for top tracks, rubber floor rests for bottom tracks. Gate to have self locking tie back arms. Cabinets constructed of $\frac{3}{16}$″ cold rolled Z bar frames, with 16 gauge steel backs. Flush 16 gauge doors have formed C edges. Gate to have special hinges permitting cabinet doors to close and lock when gate is in both stacked and extended position. Gate and cabinet locks to have Yale 1$\frac{5}{32}$″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinets to have standard factory finish, color as selected.

deep cabinet—12′ maximum corridor width

no. 5764S

Single type folding gate, 7′6″ recommended maximum height. Channel jack-knife brace with malleable iron hinges. Hinged bottom track, except on corridors under 8′ wide. Roller bearing construction throughout. All cold rolled material for better appearance. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.



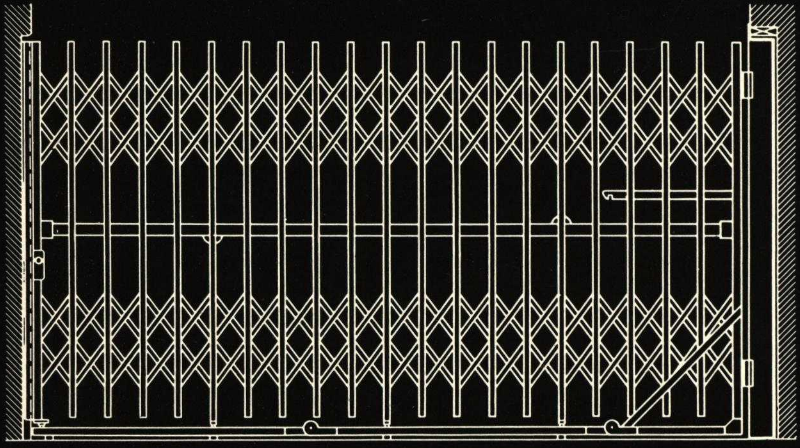


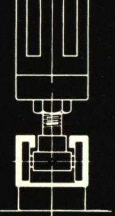
note: Rigid only when fully extended. Operator must guide gate in vertical position while opening or closing

shallow cabinet—12′ maximum corridor width

no. 5763S

Single type folding gate, 7′-6″ recommended maximum height. Channel jack-knife brace with malleable iron hinges. Hinged bottom track, except on corridors under 10′ wide. Roller bearing construction throughout. Cabinet door can be closed and locked when gate is in use. All cold rolled material for better appearance. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.



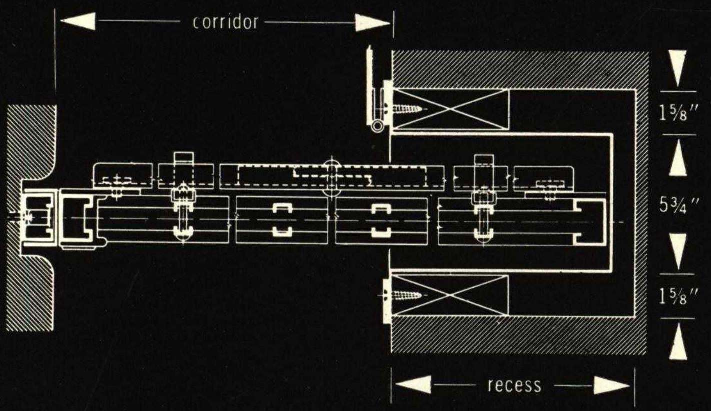


note: Rigid only when fully extended. Operator must guide gate in vertical position while opening or closing

recessed folding gates (cont.)

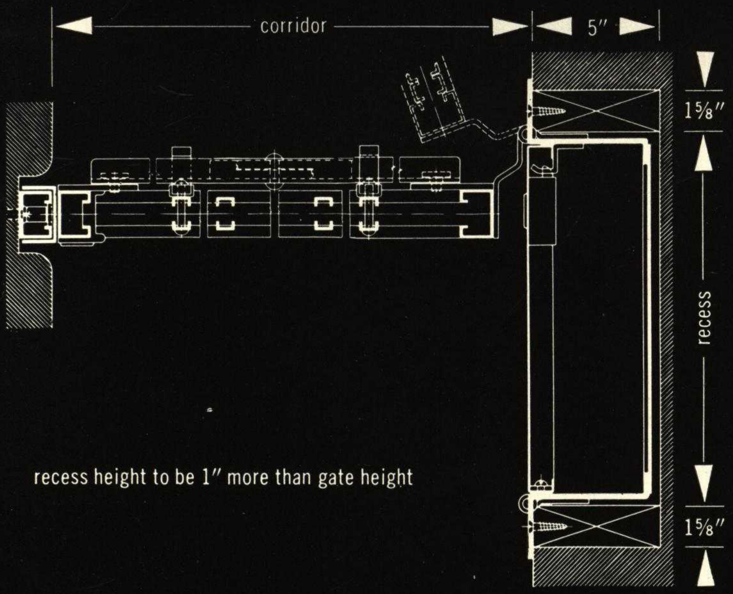
- single type
- without top track
- hinged bottom track

corridor [feet]	6	7	8	9	10	11	12
recess [inches]	19½	21	26	27½	29	32½	34



recess height to be 1″ more than gate height

corridor [feet]	6	7	8	9	10	11	12
recess [inches]	17½	19	20½	22	27½	29¼	31



recess height to be 1″ more than gate height

specifications:

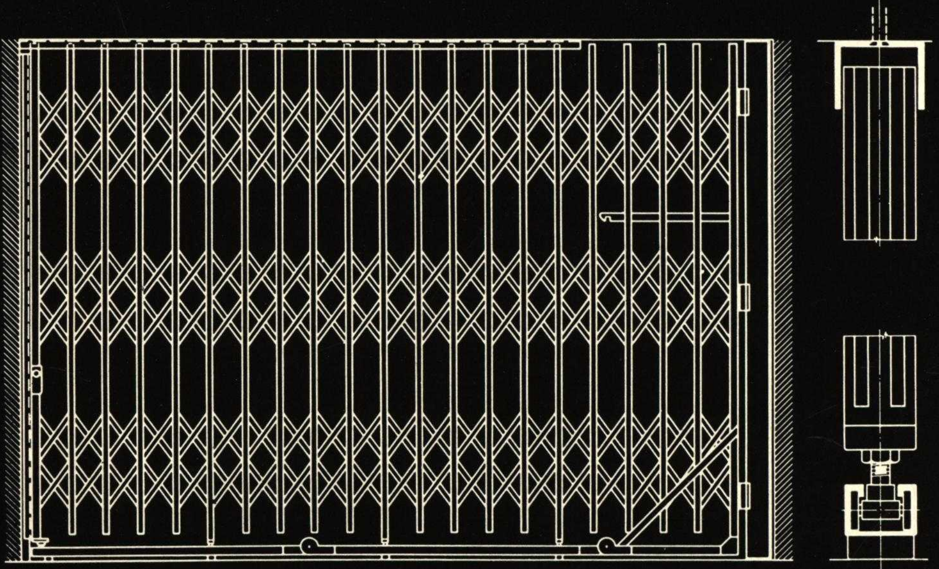
no. 5764S— Gate to be no. 5764S as manufactured by Acorn Wire and Iron Works, Inc. ——Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x 3/16″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Jack-knife brace to be 2¼″ x 1″ cold rolled channel. Bottom track to have gusset braces and rubber floor rests. No track for corridors under 8′ wide. Gate to be fitted with self locking tie back arm. Cabinet constructed of 12 gauge formed sheet steel with 3/16″ thick cold rolled facia strips and door. Gate and cabinet locks to have Yale 1 5/32″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

no. 5763S— Gate to be no. 5763S as manufactured by Acorn Wire and Iron Works, Inc. ——Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x 3/16″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Jack-knife brace to be 2¼″ x 1″ cold rolled channel. Bottom track to have gusset braces and rubber floor rests. No track for corridors under 10′ wide. Gate to be fitted with self locking tie back arm. Cabinet constructed of 3/16″ cold rolled Z bar frame with 16 gauge steel back. Flush 16 gauge door to have formed C edges. Gate to have special hinges permitting cabinet door to close and lock when gate is in both stacked and extended position. Gate and cabinet locks to have Yale 1 5/32″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

shallow cabinet—12′ maximum corridor width

no. 5766S

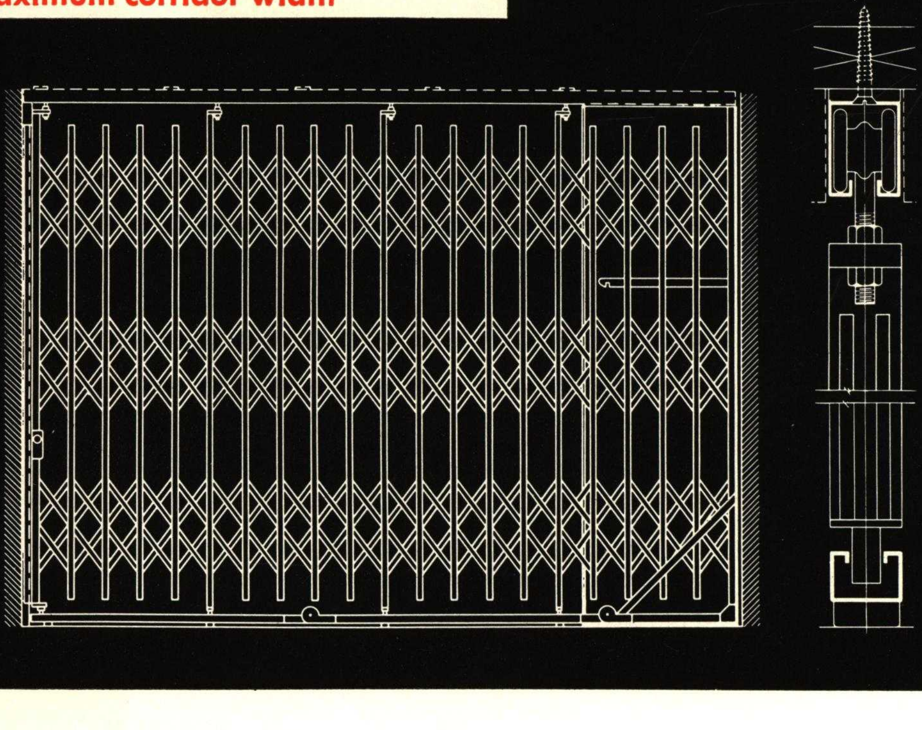
Single type folding gate, full opening height. Over 8′ high, 3 row lattice. Hinged bottom track, permanent overhead guide channel notched at side to permit gate to hinge into cabinet. All roller bearing construction. Cabinet door can be closed and locked when gate is in use. All cold rolled material. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.



deep cabinet—14′ maximum corridor width

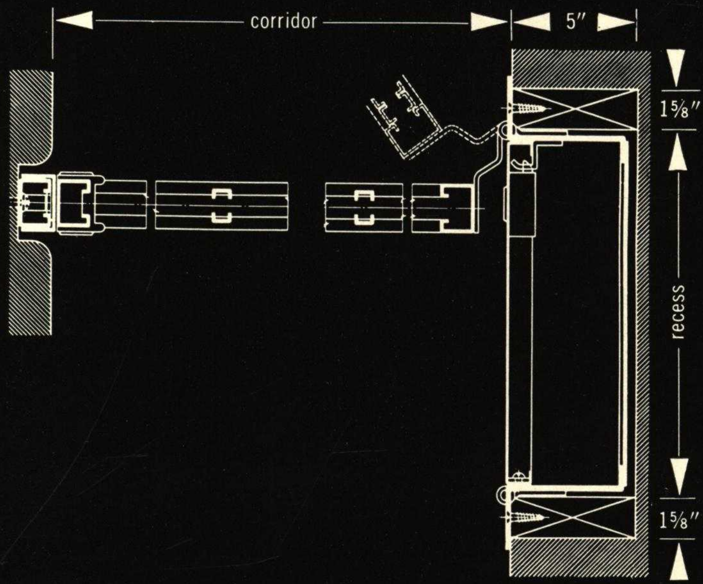
no. 5765S

Single type folding gate, full opening height. Over 8′ high, 3 row lattice. Hinged bottom track, permanent top track recessed into ceiling. Roller bearing construction for easy operation. All cold rolled material for better appearance. Cylinder locks on gate and cabinet keyed regular or master-keyed to building system.

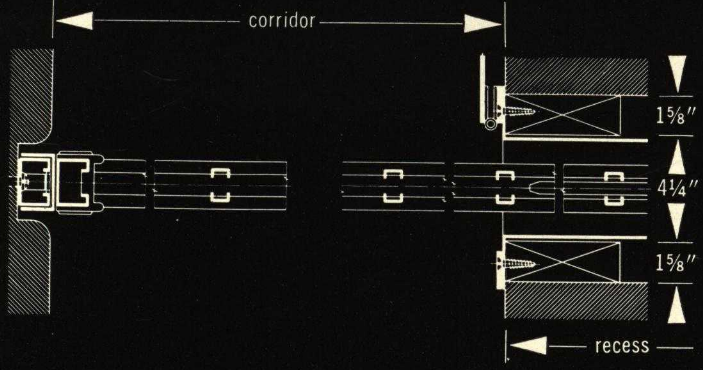


recessed folding gates (cont.)

corridor [feet]	6	8	10	12
recess [inches]	19¾	23¼	27½	31



corridor [feet]	6	8	10	12	14
recess [inches]	21¼	26	30	33	37



- single type
- fixed top track
- hinged bottom track

specifications:

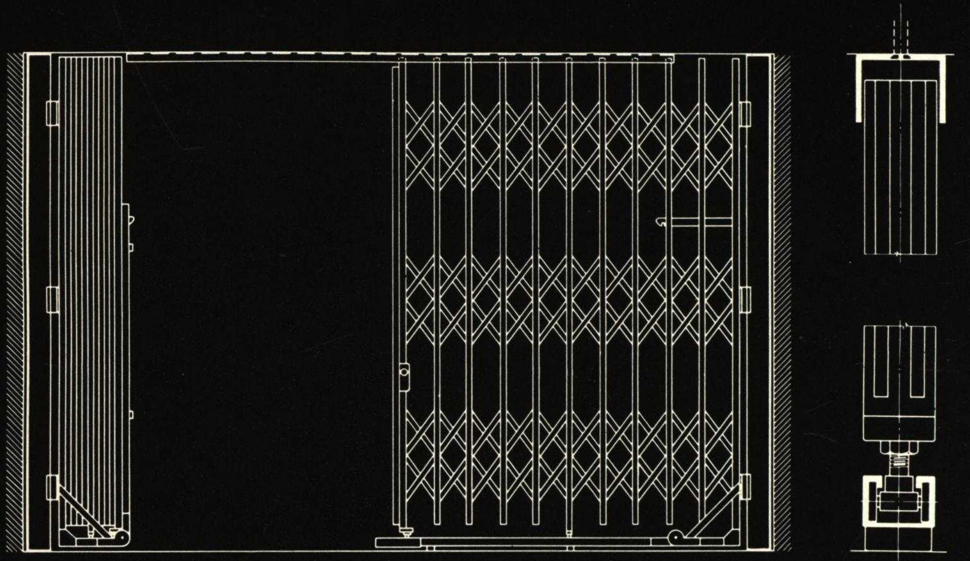
no. 5766S—Gate to be no. 5766S as manufactured by Acorn Wire and Iron Works, Inc. ______Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x 3⁄16″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Top guide to be 2⅜″ x 2¼″ channel. Bottom track to have gusset braces and rubber floor rests. Gate to be fitted with self locking tie back arm. Cabinet constructed of 3⁄16″ cold rolled Z bar frame with 16 gauge steel back. Flush 16 gauge door to have formed C edges. Gate to have special hinges permitting cabinet door to close and lock when gate is in both stacked and extended position. Gate and cabinet locks to have Yale 1 5⁄32″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

no. 5765S—Gate to be no. 5765S as manufactured by Acorn Wire and Iron Works, Inc. ______Vertical members to be two ¾″ x ⅜″ cold rolled channels spaced not over 6″ o.c. Lattice bars ⅝″ x 3⁄16″ cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Top track to be 14 gauge box type section to receive roller bearing hangers. Bottom track to have gusset braces and rubber floor rests. Gate to be fitted with self locking tie back arm. Cabinet constructed of 12 gauge formed sheet steel with 3⁄16″ thick cold rolled facia strips and door. Gate and cabinet locks to have Yale 1 5⁄32″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinet to have standard factory finish, color as selected.

shallow cabinet—20' maximum corridor width

no. 5766D

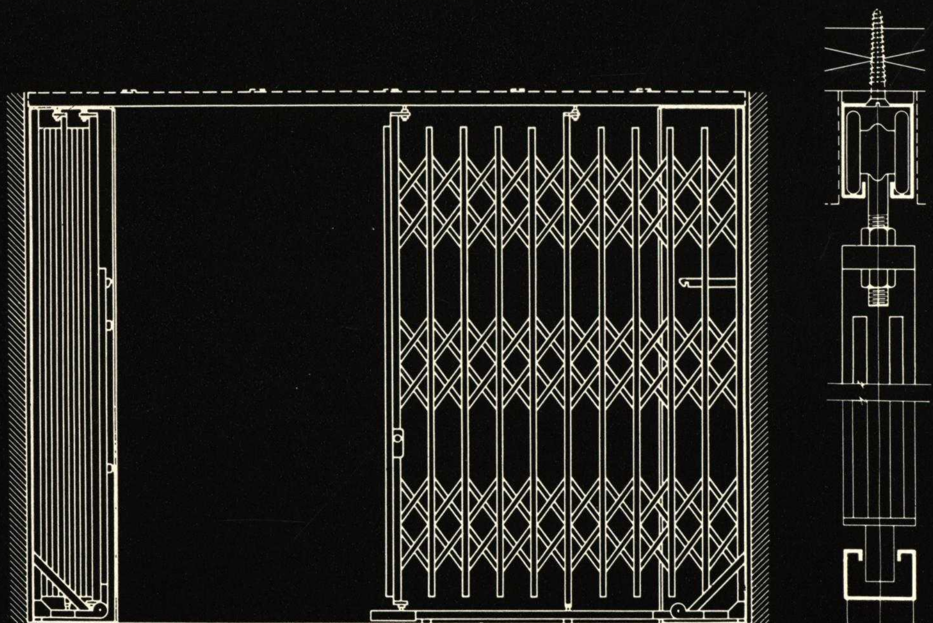
Double type folding gate, full opening height. Over 8' high, 3 row lattice. Hinged bottom tracks, permanent overhead guide channel notched at ends to permit gates to hinge into cabinets. All roller bearing construction. Cabinet doors can be closed and locked when gate is in use. All cold rolled material. Cylinder locks on gate and cabinets keyed regular or master-keyed to building system.



deep cabinet—24' maximum corridor width

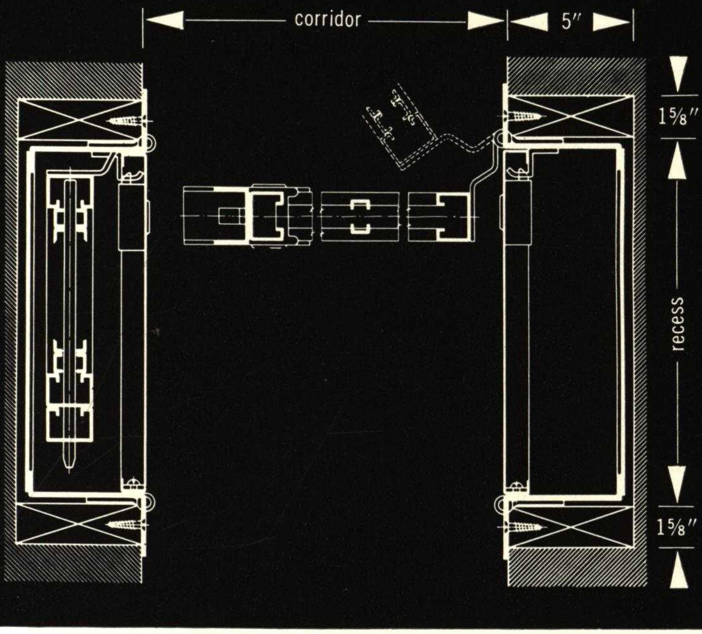
no. 5765D

Double type folding gate, full opening height. Over 8' high, 3 row lattice. Hinged bottom tracks, permanent top track recessed into ceiling. Roller bearing construction for easy operation. All cold rolled material for better appearance. Cylinder locks on gate and cabinets keyed regular or master-keyed to building system.

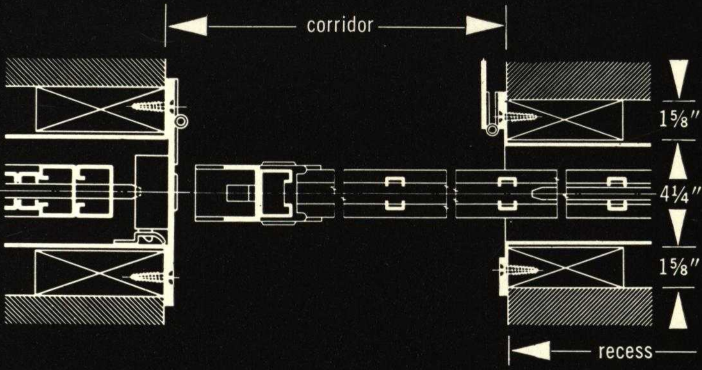


recessed folding gates (cont.)

corridor [feet]	8	10	12	14	16	18	20
recess [inches]	16¾	18¼	19¾	21¾	23¼	24¾	26½



corridor [feet]	8	10	12	14	16	18	20	22	24
recess [inches]	17¼	18¾	21¼	22¾	26	27½	30	31½	34



- double type
- fixed top track
- hinged bottom track

specifications:

no. 5766D—Gate to be no. 5766D as manufactured by Acorn Wire and Iron Works, Inc.

______Vertical members to be two ¾" x ⅜" cold rolled channels spaced not over 6" o.c. Lattice bars ⅝" x 3⁄16" cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Top guide to be 2⅜" x 2¼" channel. Bottom tracks to have gusset braces in all corners and rubber floor rests. Gate to be fitted with self locking tie back arms. Cabinets constructed of 3⁄16" cold rolled Z bar frames with 16 gauge steel backs. Flush 16 gauge doors to have formed C edges. Gate to have special hinges permitting cabinet doors to close and lock when gate is in both stacked and extended position. Gate and cabinet locks to have Yale 1 5⁄32" diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinets to have standard factory finish, color as selected.

no. 5765D—Gate to be no. 5765D as manufactured by Acorn Wire and Iron Works, Inc.

______Vertical members to be two ¾" x ⅜" cold rolled channels spaced not over 6" o.c. Lattice bars ⅝" x 3⁄16" cold rolled flat steel. Vertical end bars to be cold rolled box type sections to receive roller bearings and cylinder lock. All moving parts to be fitted with rollers. Top track to be 14 gauge box type section to receive roller bearing hangers. Bottom tracks to have gusset braces in all corners and rubber floor rests. Gate to be fitted with self locking tie back arms. Cabinets constructed of 12 gauge formed sheet steel with 3⁄16" thick cold rolled facia strips and doors. Gate and cabinet locks to have Yale 1 5⁄32" diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to building system. Gate and cabinets to have standard factory finish, color as selected.

installations

New Mesa High School	Phoenix, Arizona
University Hill Jr. H. S.	Boulder, Colorado
Berlin High School	Berlin, Connecticut
Willard-Belltown School	Stamford, Connecticut
Sun Oil Co. Stations	State of Florida
Herbert Hoover School	Mason City, Iowa
Williams Elementary School	Chicago, Illinois
Curtis School	Wichita, Kansas
Custom Parking Co.	Baltimore, Maryland
Villa Cresta Elementary School	Baltimore, Maryland
South Jr. High School	Pittsfield, Massachusetts
Southfield High School	Detroit, Michigan
High School	Sleepy Eye, Minnesota
High School	Rolling Fork, Mississippi
Canastota Central School	Canastota, New York
Shenendehowa	Clifton Park, New York
Ohio State University	Columbus,Ohio
Pierce School	Hamilton, Ohio
Oklahoma City Public Library	Oklahoma City, Oklahoma
Springfield School	Springfield, Oregon
Downey Elementary School	Harrisburg, Pennsylvania
United States Gypsum Co.	Philadelphia, Pennsylvania
Warminster School	Philadelphia, Pennsylvania
Jefferson Davis School	Dallas, Texas
West Jordan School	Salt Lake City, Utah
Elementary School	Rutland, Vermont
Fairfax High School	Alexandria, Virginia
Atomic Energy Commission	Hanford, Washington
St. Mary's School	Platteville, Wisconsin
Churchill School	Cheyenne, Wyoming

Acorn Wire and Iron Works, Inc.

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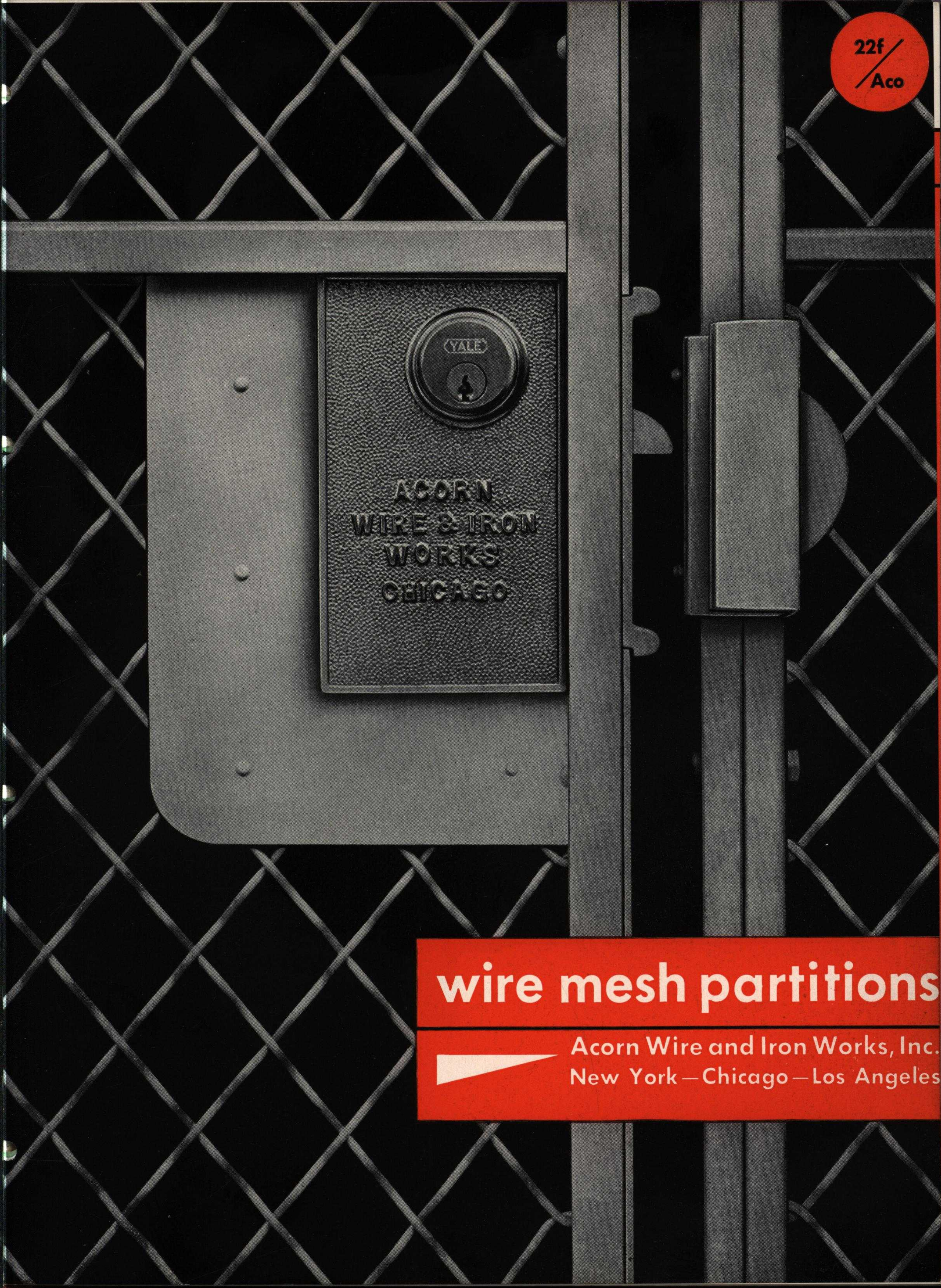
101 Park Avenue, New York 17, New York
1709 West 8th Street, Los Angeles 17, California

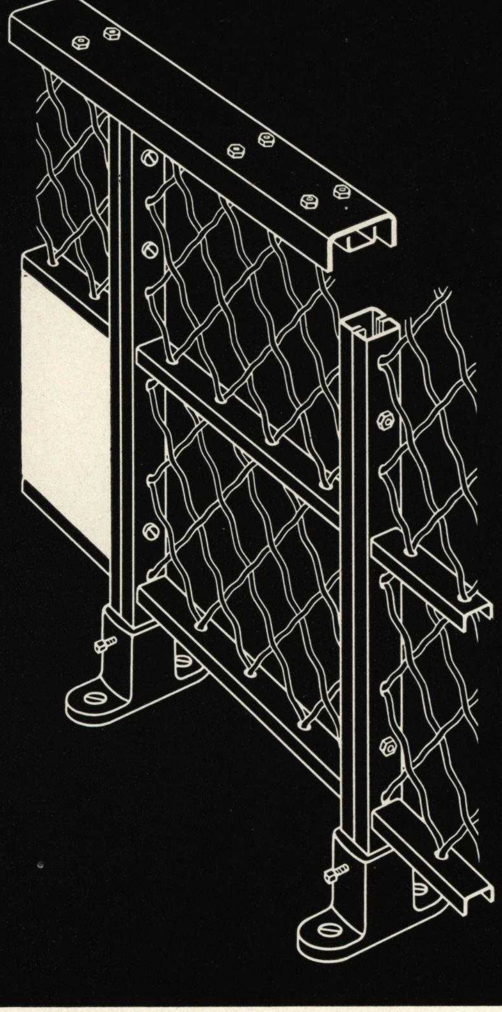
22f/Aco

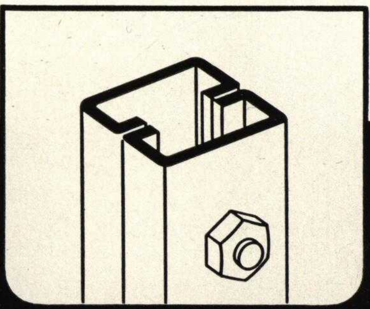

YALE
ACORN
WIRE & IRON
WORKS
CHICAGO

wire mesh partitions

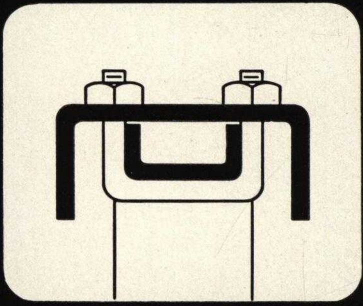
Acorn Wire and Iron Works, Inc.
New York—Chicago—Los Angeles

construction

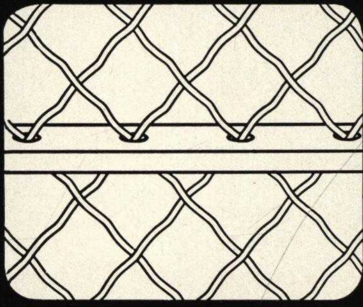




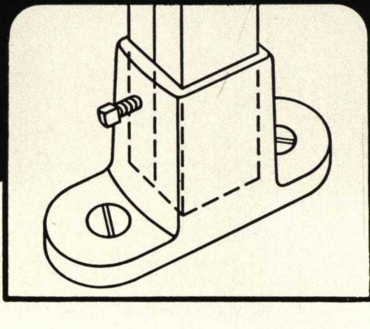
Formed "turned-in-toe" channel uprights prevent telescoping, assure permanent alignment.



Capping channel 'U' bolted to panels simplifies installation and re-arrangement.



Woven in center channel provides better appearance, additional rigidity.



Adjustable cast iron floor sockets permit level installation, secure anchorage.

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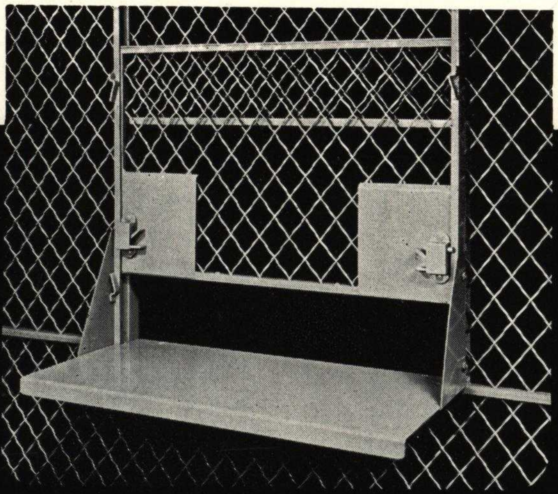
wire mesh partitions

Acorn partitions are made up of a series of standardized units. Panels, doors, service windows and corners can be arranged in any combination, giving maximum flexibility in layout. Standardization permits expansion at any time with no loss of component parts.

advantages
- strength
- security
- simplicity

types:

no. 130A	All wire type for normal industrial use. 7′, 8′, 9′ and 10′ standard heights.	a
no. 139A	Sheet base type. Additional strength, better appearance. 7′, 8′, 9′, 10′ standard heights.	b
no. 130AL	All wire type using vertical flat bar posts. 11′ to 20′ standard heights.	c
no. 139AL	Sheet base type using vertical flat bar posts. 11′ to 20′ standard heights.	
no. 135	All wire type for extra heavy industrial use. 7′ to 20′ heights.	d
how to order		back cover

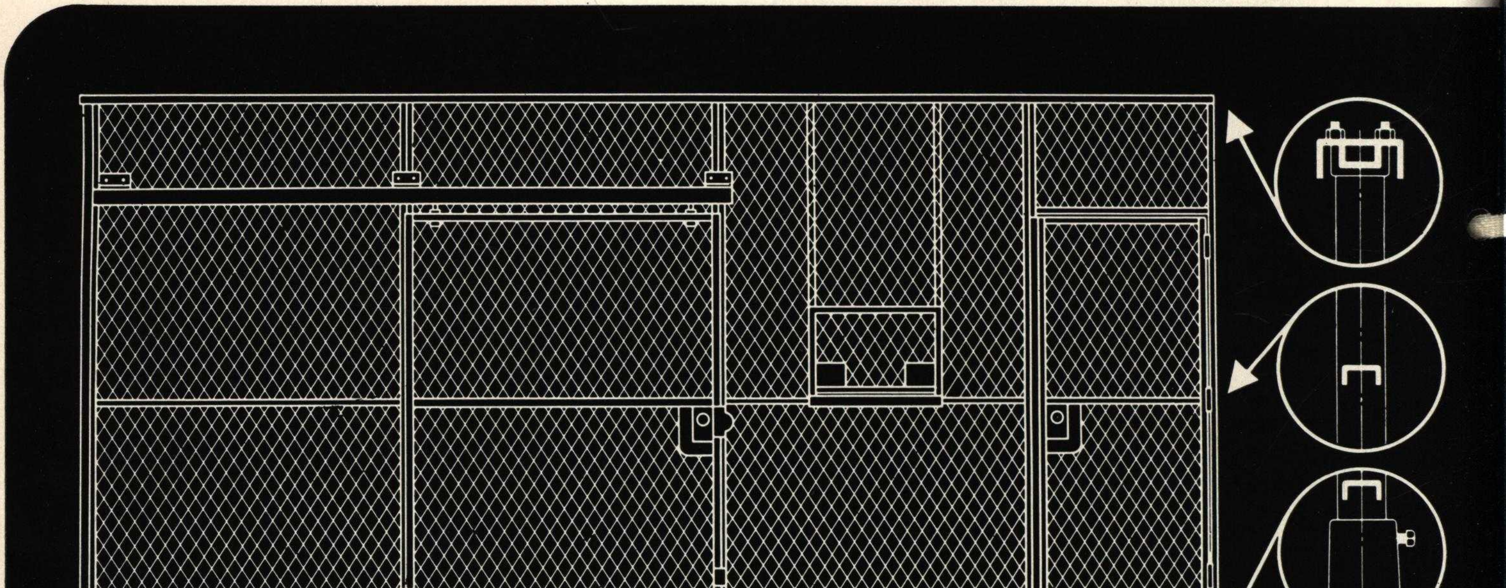


Slide-up service windows for use in any location. Standard size 24″ wide by 15″ high, special sizes to order. Windows lock in opened and closed positions with spring catches. Shelf is 12 gauge steel, 12″ deep x 25″ wide (optional)

Door locks are pick-proof bronze mortise type operated by key outside, recessed knob inside. Can be keyed alike, different or master-keyed. Cylinder locks are standard equipment on all doors unless otherwise specified.

ACORN
WIRE & IRON
WORKS
CHICAGO

typical grouping of no. 130A sections


standard panel
sliding door sect.
service window panel
hinged door sect.

7′—10′ wire mesh partitions

all wire type—no. 130A

Basic all wire type for normal industrial use. 7′, 8′, 9′ and 10′ standard heights.

components—nominal sizes

standard panels:

Stock sizes—5′ wide, 7′, 8′, 9′ and 10′ high. Special heights up to 10′ made to order.

sliding door sections:

Stock sizes—3′, 4′, 5′ and 6′ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

service window panels:

Stock sizes—24″ x 15″ standard service window (see page 3) in standard 5′ panels. Special windows and panels to order.

hinged door sections:

Stock sizes—2′-6″, 3′ and 3′-6″ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5′ wide panels cannot be used.

corners and intersections:

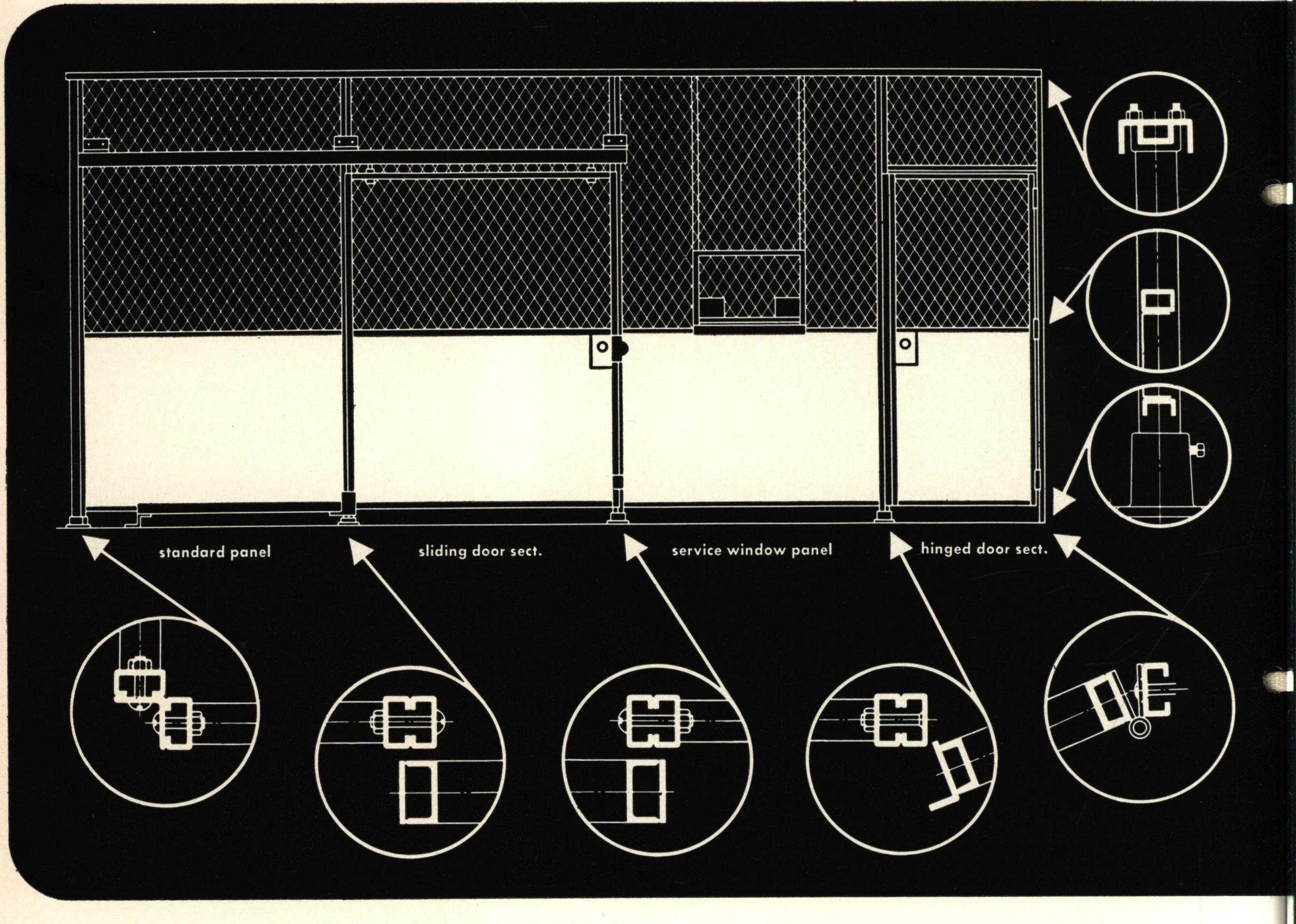
Stock sizes—1¼″ angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 1$\frac{5}{16}$″ O.D. pipe post for other than 90° corner.

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

specifications

Partitions to be no. 130A as manufactured by Acorn Wire and Iron Works, Inc. ——All wire type constructed of 10 gauge steel wire woven into 1½″ diamond mesh, securely clinched to frames——Vertical frames to be 1¼″ x ⅝″ cold rolled 'C' section channels with ¼″ bolt holes 12″ o.c.——Horizontal frames 1″ x ½″ cold rolled channels ——All joints mortised and tenoned——Center reinforcing bar 1″ x ½″ cold rolled channel tenoned to side frames. All wires passed through center bar——Top capping bar 2¼″ x 1″ cold rolled channel with ¼″ 'U' bolts 2′4″ o.c. ——Corner posts 1¼″ x 1¼″ angles with ¼″ bolt holes to match partition——Cast iron floor sockets 2½″ high with set screw adjustment——Sliding door frames 1½″ x ¾″ channel with 1½″ x ⅛″ flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel——Hinged door frames 1¼″ x ½″ channel with 1¼″ x ⅛″ flat bar cover three sides, 1⅜″ x ¾″ x ⅛″ angle riveted to lock side. Each door to have 1½ pairs butt hinges riveted to both door and transom bar——All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside ——All bolts, hardware, and accessories for complete installation to be included—— Field bracing furnished by erector——Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.

typical grouping of no.139A sections


standard panel
sliding door sect.
service window panel
hinged door sect.

7′—10′ wire mesh partitions

sheet base type—no. 139A

Deluxe sheet base type for normal industrial use. 7′, 8′, 9′ and 10′ standard heights.

components—nominal sizes

standard panels:

Stock sizes—5′ wide, 7′, 8′, 9′ and 10′ high. Special heights up to 10′ made to order.

sliding door sections:

Stock sizes—3′, 4′, 5′ and 6′ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

service window panels:

Stock sizes—24″ x 15″ standard service window (see page 3) in standard 5′ panels. Special windows and panels to order.

hinged door sections:

Stock sizes—2′-6″, 3′ and 3′-6″ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5′ wide panels cannot be used.

corners and intersections:

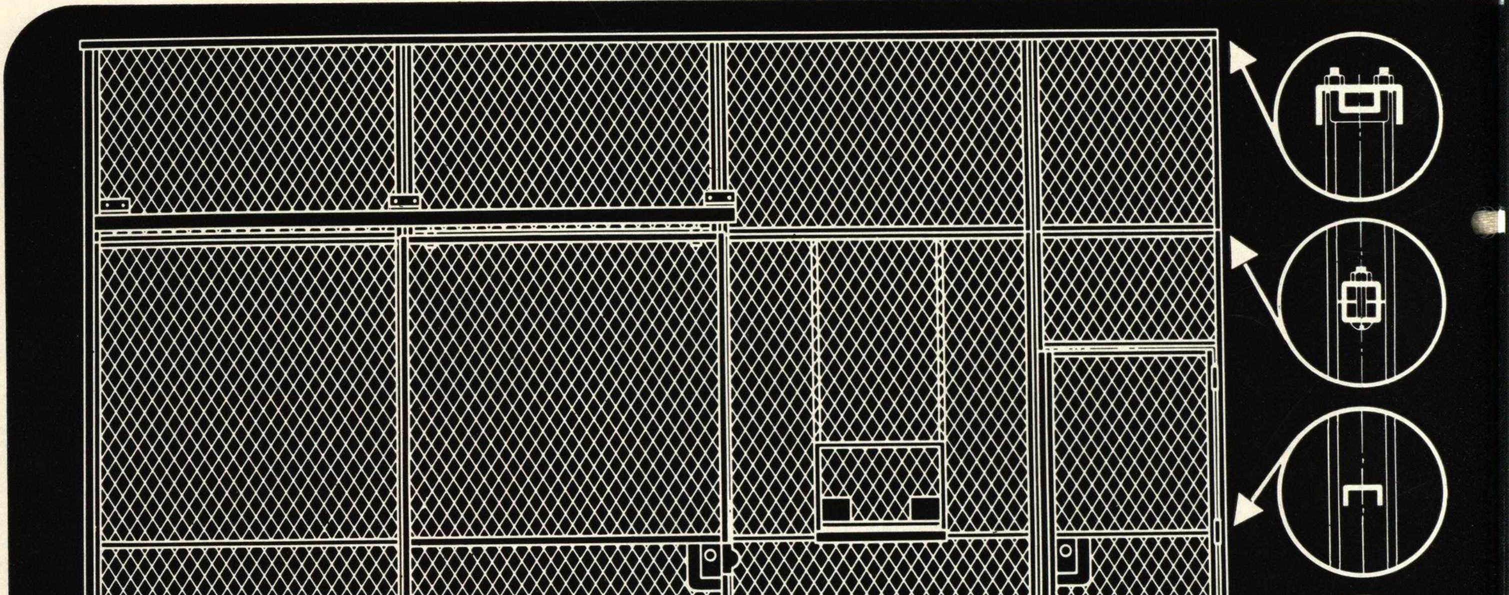
Stock sizes—1¼″ angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 1$\frac{5}{16}$″ O.D. pipe post for other than 90° corner.

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

specifications

Partitions to be no. 139A as manufactured by Acorn Wire and Iron Works, Inc. ——Sheet base type—Top panel constructed of 10 gauge steel wire woven into 1½″ diamond mesh securely clinched to frames ——Lower panel constructed of 16 gauge formed steel sheet securely bolted to frames ——Vertical frames to be 1¼″ x ⅝″ cold rolled 'C' section channels with ¼″ bolt holes 12″ o.c.——Horizontal frames 1″ x ½″ cold rolled channels——All joints mortised and tenoned ——Top capping bar 2¼″ x 1″ cold rolled channel with ¼″ 'U' bolts 2′4″ o.c.——Corner posts 1¼″ x 1¼″ angles with ¼″ bolt holes to match partition——Cast iron floor sockets 2½″ high with set screw adjustment ——Sliding door frames 1½″ x ¾″ channel with 1½″ x ⅛″ flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel——Hinged door frames 1¼″ x ½″ channel with 1¼″ x ⅛″ flat bar cover three sides, 1⅜″ x ¾″ x ⅛″ angle riveted to lock side. Each door to have 1½ pairs butt hinges riveted to both door and transom bar——All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside ——All bolts, hardware and accessories for complete installation to be included——Field bracing furnished by erector——Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.

typical grouping of no. 130AL sections


standard panel
sliding door sect.
service window panel
hinged door sect.

heavy duty all wire type no. 135—2″ diamond mesh—no. 6 gauge wire—1½″ x ¾″ channel frames—available in 7′ to 20′ heights for heavy industrial use

11′—20′ wire mesh partitions

all wire type—no. 130AL

Basic type for normal industrial use.

sheet base type—no. 139AL

Deluxe type for normal industrial use.

components—nominal sizes

standard panels:

Stock sizes—5′ wide, 11′——20′ heights in 12″ increments. Special heights made to order.

sliding door sections:

Stock sizes—3′, 4′, 5′ and 6′ wide. Standard headroom 7′. Special sizes to order.

service window panels:

Stock sizes—24″ x 15″ standard service window (see page 3) in standard 5′ panels. Special windows and panels to order.

hinged door sections:

Stock sizes—2′-6″, 3′ and 3′-6″ wide. Standard headroom 7′. Special sizes to order.

filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5′ wide panels cannot be used.

corners and intersections:

Stock sizes—1¼″ angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 1⁵⁄₁₆″ O.D. pipe post for other than 90° corner.

flat bar posts:

Stock sizes—⁵⁄₁₆″ x 1¾″ for partitions 11′——13′ high
⁵⁄₁₆″ x 2½″ for partitions 13′——16′ high
⁵⁄₁₆″ x 3″ for partitions 16′——20′ high

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

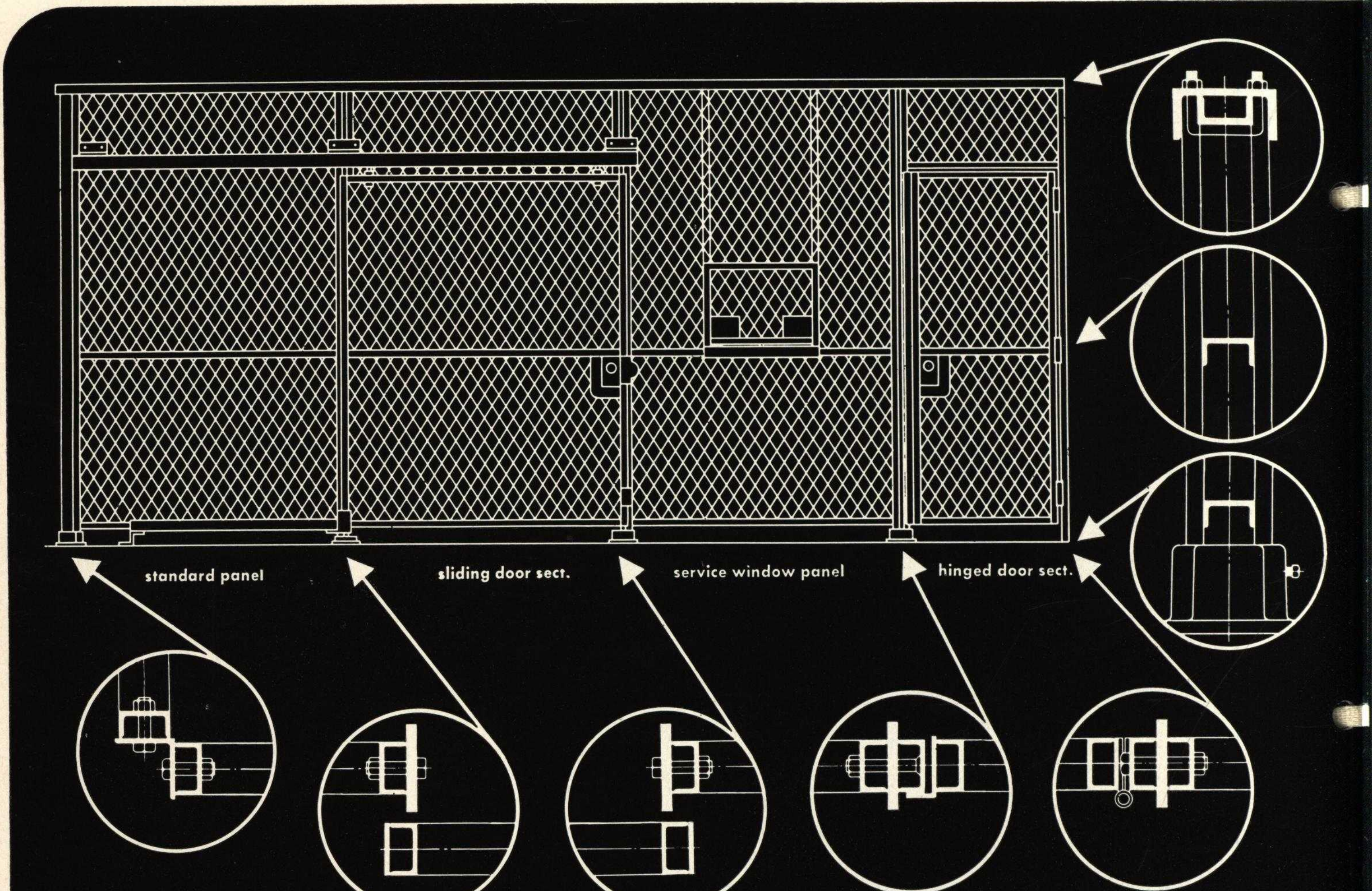
specifications no. 130AL

Partitions to be no. 130AL as manufactured by Acorn Wire and Iron Works, Inc. ——All wire type constructed of 10 gauge steel wire woven into 1½″ diamond mesh, securely clinched to frames——Vertical frames to be 1¼″ x ⅝″ cold rolled 'C' section channels with ¼″ bolt holes 12″ o.c.——Horizontal frames 1″ x ½″ cold rolled channels——All joints mortised and tenoned——Center reinforcing bar 1″ x ½″ cold rolled channel tenoned to side frames. All wires passed through center bar——Flat bar posts to be (⁵⁄₁₆″ x 1¾″) (⁵⁄₁₆″ x 2½″) (⁵⁄₁₆″ x 3″) (as detailed) with ¼″ bolt holes to match partition——Top capping bar 2¼″ x 1″ cold rolled channel with ¼″ 'U' bolts 2′4″ o.c. ——Corner posts 1¼″ x 1¼″ angle with ¼″ bolt holes to match partition——Cast iron floor sockets 2½″ high with set screw adjustment——Sliding door frames 1½″ x ¾″ channel with 1½″ x ⅛″ flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel——Hinged door frames 1¼″ x ½″ channel with 1¼″ x ⅛″ flat bar cover three sides, 1⅜″ x ¾″ x ⅛″ angle riveted to lock side. Each door to have 1½ pairs butt hinges riveted to both door and transom bar——All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside——All bolts, hardware, and accessories for complete installation to be included——Field bracing furnished by erector ——Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.

specifications no. 139AL

Partitions to be no. 139AL as manufactured by Acorn Wire and Iron Works, Inc. Sheet base type—Lower panel 16 gauge formed steel sheet——Top panel constructed of 10 gauge steel wire woven into 1½″ diamond mesh securely clinched to frames. (Balance of specifications same as 130AL).

typical grouping of no.135 sections


standard panel
sliding door sect.
service window panel
hinged door sect.

7′—20′ wire mesh partitions

all wire type—no. 135

Heavy duty all wire type for extra heavy industrial use.
7′——20′ heights in 12″ increments.

components—nominal sizes

standard panels:

Stock sizes—5′ wide, 7′——20′ heights in 12″ increments. Special heights made to order.

sliding door sections:

Stock sizes—3′, 4′, 5′ and 6′ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

service window panels:

Stock sizes—24″ x 15″ standard service window (see page 3) in standard 5′ panels. Special windows and panels to order.

hinged door sections:

Stock sizes—2′-6″, 3′ and 3′-6″ wide. 7′ headroom except 6′-6″ in 7′ high partition. Special sizes to order.

filler panels:

Stock sizes—none. Special width panel to fill out runs or where standard 5′ wide panels cannot be used.

corners and intersections:

Stock sizes—1¾″ angle for 90° corner, any height. Clips for three or four way 90° intersection, any height. 2⅜″ O.D. pipe post for other than 90° corner.

flat bar posts:

Stock sizes—5/16″ x 2½″ for partitions 7′——12′ high
5/16″ x 3″ for partitions 12′——16′ high
5/16″ x 3½″ for partitions 16′——20′ high

All panels and door sections are interchangeable standardized units which can be arranged in any desired combination.

specifications

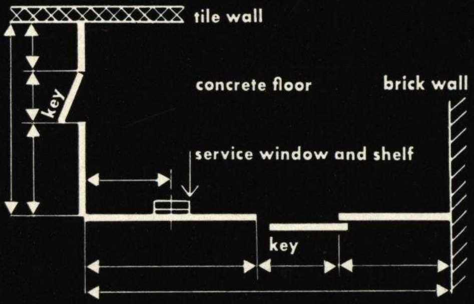
Partitions to be no. 135 as manufactured by Acorn Wire and Iron Works, Inc. ——All wire heavy duty type constructed of 6 gauge steel wire woven into 2″ diamond mesh securely clinched into 1½″ x ¾″ channel frames——Vertical frames to have ⅜″ bolt holes 18″ o.c.——All joints mortised and tenoned ——Center reinforcing bar 1½″ x ¾″ channel tenoned to side frames——All wires passed through center bar——Flat bar posts to be (5/16″ x 2½″) (5/16″ x 3″) (5/16″ x 3½″) (as detailed) with ⅜″ bolt holes to match partition ——Top capping bar 3″ x 4.1 lb. channel with 5/16″ 'U' bolts 2′4″ o.c. Corner posts 1¾″ x 1¾″ angle with ⅜″ bolt holes to match partition——Cast iron floor sockets 2½″ high with set screw adjustment——Sliding door frames 1½″ x ¾″ channel with 1½″ x ⅛″ flat bar cover all around. Each door to have two 4 wheel roller bearing hangers, box track, and bottom guide channel——Hinged door frames 1½″ x ¾″ channel with 1½″ x ⅛″ flat bar cover three sides, 1⅝″ x ⅞″ x ⅛″ angle riveted to lock side. Each door to have 1½ pairs heavy butt hinges riveted to both door and transom bar ——All doors to have substantial bronze mortise type cylinder locks operated by key outside, recessed knob inside——All bolts, hardware, and accessories for complete installation to be included——Field bracing furnished by erector ——Finish, one standard shop coat (factory green), (machinery gray), or (black) enamel.

how to order

When the partition layout is planned around standardized units, the following information should be listed:

1. Type of partition (130A, 139A, 130AL, 139AL, 135).
2. Height of partition.
3. Number of standard panels.
4. Number and width of filler panels.
5. Number and width of door sections.
   - [a] Specify whether doors are hinged or sliding.
   - [b] Whether right or left hand doors are required. **note:** Right hand door has lock on right hand side when facing door from key side.
   - [c] If hinged, whether to swing in or out.
   - [d] If sliding, whether inside or outside.
   - [e] Whether locks are to be keyed alike, different, or master-keyed.
6. Number of corner posts.
7. Kind of floor and wall.
8. Color of paint.

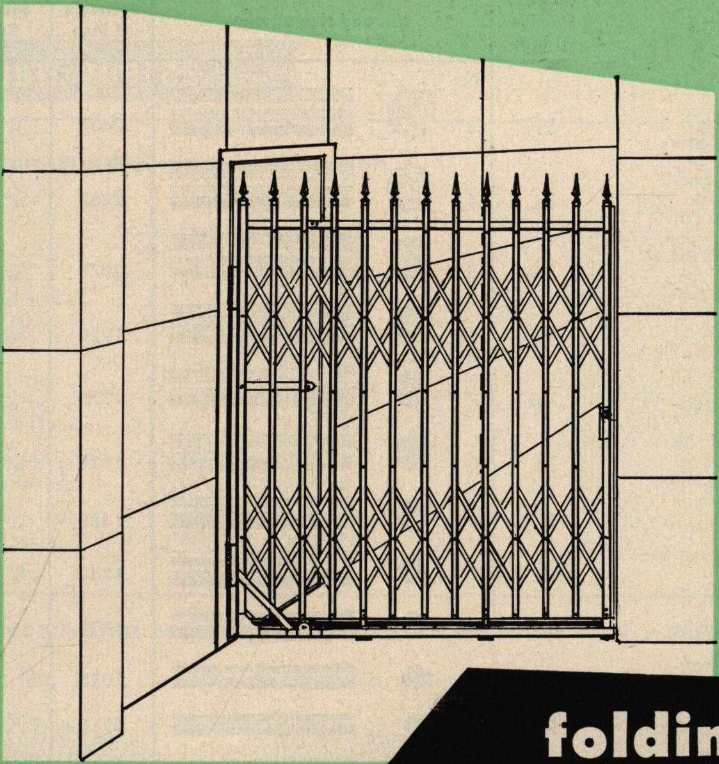
Where special conditions prevail details should be furnished giving necessary information.



installations

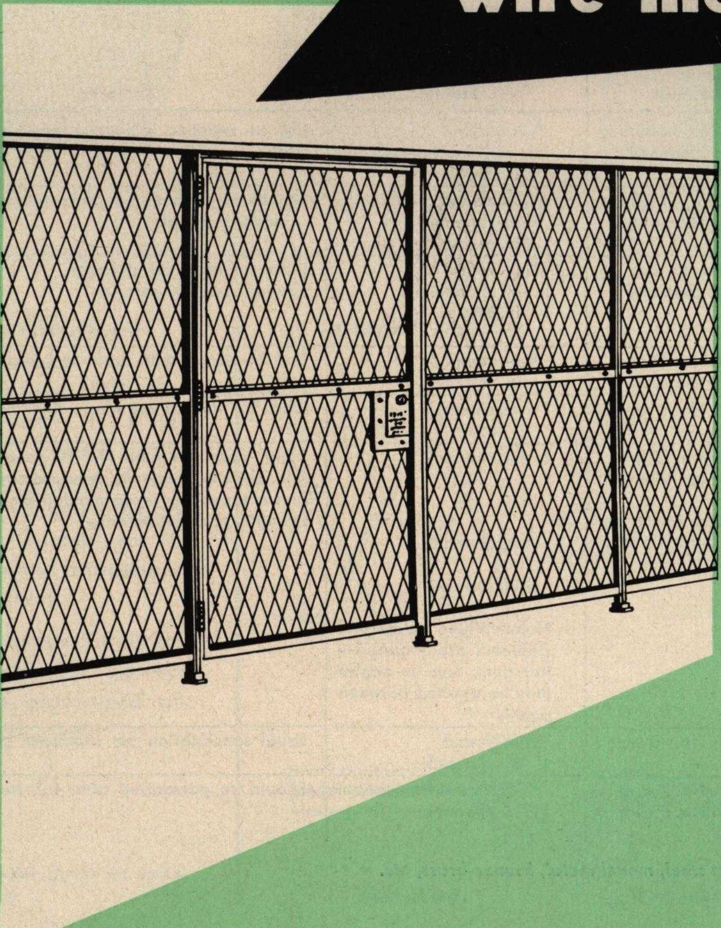
Atomic Energy Commission	Los Alamos, N. Mex.
Atomic Energy Commission	Hanford, Wash.
Babcock and Wilcox Co.	Beaver Falls, Pa.
Bell Aircraft Corp.	Hurst, Tex.
Boeing Airplane Co.	Wichita, Kan.
Collins Radio Co.	Cedar Rapids, Iowa
Corning Glass Works	Corning, N. Y.
The Dow Chemical Co.	Midland, Mich.
Ekco Products Co.	El Monte, Calif.
The Fafnir Bearing Co.	New Britain, Conn.
General Electric Co.	Cincinnati, Ohio
General Electric Co.	Fort Wayne, Ind.
General Motors Corp.	Buffalo, N. Y.
General Motors Corp.	Flint, Mich.
Hotpoint Inc.	Milwaukee, Wis.
IBM Corp.	Endicott, N. Y.
IBM Corp.	Poughkeepsie, N. Y.
International Harvester Co.	Chicago, Ill.
International Harvester Co.	Memphis, Tenn.
Johnston Lawn Mower Corp.	Brookhaven, Miss.
Lockheed Aircraft Corp.	Atlanta, Ga.
Glenn L. Martin Co.	Baltimore, Md.
Motorola Inc.	Phoenix, Ariz.
No. American Aviation Inc.	Columbus, Ohio
Oklahoma Natural Gas Co.	Oklahoma City, Okla.
Schick Inc.	Stamford, Conn.
Western Electric Co.	Indianapolis, Ind.
Western Electric Co.	Winston-Salem, N. C.

Acorn Wire and Iron Works, Inc.
general office: 4940 South Kilbourn Avenue, Chicago 32, Illinois
101 Park Avenue, New York 17, New York
1709 West 8th Street, Los Angeles 17, California



Bostwick type page 6
Bostwick type page 7
lazy tong type page 7

folding gates
wire mesh partitions



heavy duty high partition page 4
standard partitions page 5
window guards page 3

BELLIS WIRE WORK, INC.
BROOKLYN 6, NEW YORK

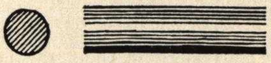
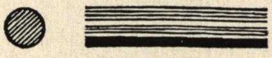
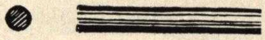
history . . .

Bellis Wire Works, incorporated in the state of New York, was organized over fifty years ago. Our corporation has dedicated itself to the fabrication of woven wire mesh products, folding gates, and all specialties pertaining to the Metal Trades Industries in all of its branches.

With the erection and completion of three new buildings, Bellis Wire Works, Inc., now feels that it has the most modern and best equipped plant to serve its customers.

Our Engineering Department is ready at all times to render its services to architects, engineers, public utility and building superintendents, or anyone having problems involving this industry.

wire sizes

approx. fraction of inch	No. and size of wire		decimals of inch	square and flat wire
	No			
¼	3		.2437	1/16″ square
7/32	4		.2253	⅛″ square
13/64	5		.2070	3/16″ square
3/16	6		.1920	¼″ square
11/64	7		.1770	⅛″ x 1/16″ flat
5/32	8		.1620	¼″ x 1/16″ flat
5/32	9		.1483	¼″ x ⅛″ flat
9/64	10		.1350	⅜″ x 1/16″ flat
⅛	11		.1205	
7/64	12		.1055	
3/32	13		.0915	
5/64	14		.0800	

all sizes are A.S. & W. or W. & M. wire gauge

selector guide to woven products

Uses		Wire and Mesh	Frame	Remarks
Radiator screens and grilles		⅝-in. mesh No. 14 wire Square or diamond	5/16-in. round ½- or ⅝-in. channel ¾-in. angle	Can be supplied in copper, brass or bronze also
Air intake screens Bird screens Church windows		¾-in. mesh No. 14 wire Square or diamond	5/16-in. round or ¾-in. channel 1 -in. angle	Should be galvanized after fabrication or made of bronze
Basement window guards Shelves and Trays Skylight screens Pipe railing screens		1-in mesh No. 12 wire Square or diamond	⅜-in. round or 1 -in. channel 1 -in. angle	Diamond mesh for strength Round frame for exterior
Radiator and Vent Grilles		1¼-in. mesh No. 11 wire Square or diamond	⅜-in. round or 1 -in. channel	Can be supplied in brass or bronze
Heavy duty partitions, as for tool cribs, elevator shafts, stock rooms		1¼-in. mesh No. 8 wire Diamond	1¼-in. channel	Ideal for factory use where trucking is done
Switchboards Transformers Elevator shafts Fire escapes Cashier cages Office partitions Corridors and Runways Stair enclosures Locker rooms Departmental divisions Basement storerooms Gymnasium window guards Elevator car tops and safety gates	Radiator guards Porch grilles Racks Stockrooms Toolrooms Lockers	1½-in. mesh No. 10 wire 1¾-in. mesh No. 9 wire Diamond 2-in. mesh No. 8 wire	1 -in. channel ⅞-in. channel ¾-in. channel Note—Where additional stiffeners are required—flat bars, tees or angles may be applied between panels	1½-in. diamond mesh No. 10 gauge wire in 1-in. channel frames is standard construction and is especially recommended for economy, strength and appearance
Door and window guards		1½-in. mesh No. 10 wire	⅜-in. round 1 -in. channel	Usual specification for insurance protection
Wire roof signs Fencing gratings		2¼-in. mesh No. 7 wire 2½-in. mesh No. 6 wire Diamond	7/16-in. round frames 1½-in. channel	Should be galvanized after fabrication

All items may also be furnished in aluminum and stainless steel, monel metal, bronze-brass, etc.

window guards

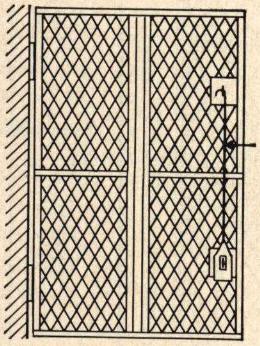
gymnasium window guards — interior •

Can be used individually or in series for any size bay.

No. 20 and No. 21 have 3" wide slot for pole operation of sash.

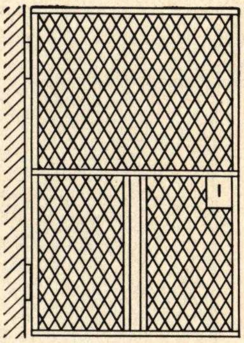
Alternate—Bellis self-locking drop latches.

No. 20

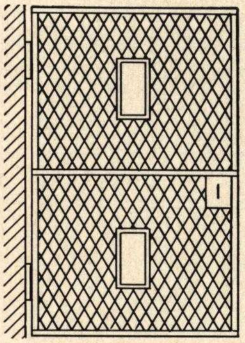


½" round lock bar—hook at top—padlock or S hook with chain at bottom.

No. 21



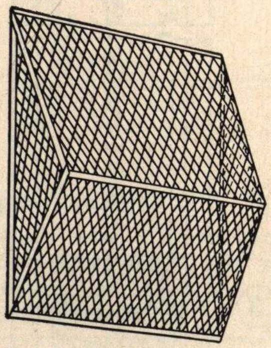
No. 22



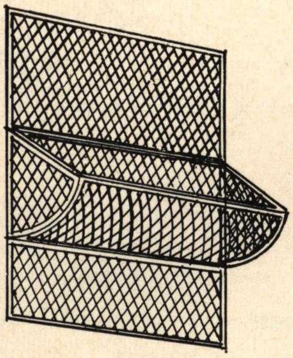
No. 22 has slots for sash operating arms.

guards for pivoted and projecting sash — exterior • Fixed, or hinged and locked.

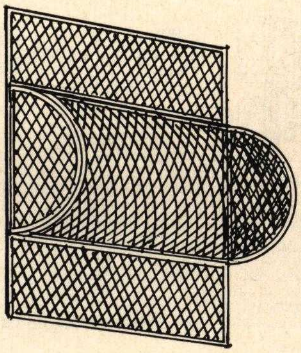
No. 23



No. 24

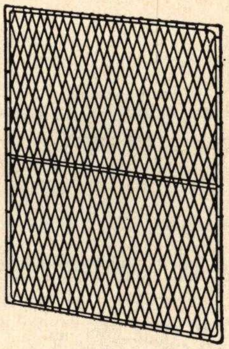


No. 25



No. 23-24 and 25 can be used individually or in series for any size bay.

No. 26



Fixed guards for fire towers and air shafts.

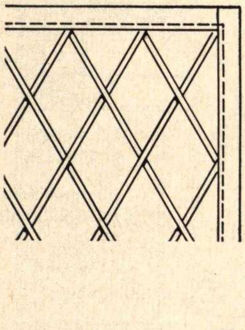
specifications

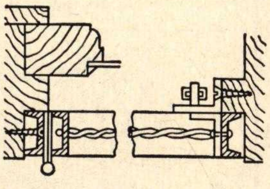
No. 10 wire, 1½" diamond mesh, 1" x ½" channel frames, angle and tee supports, if necessary. Hinged and padlocked. Guards over 10' high should be made in two sections.

Recommended that exterior guards be hot dipped glavanized after fabrication.

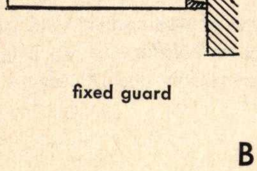
See selector guide on opposite page

• channel frames

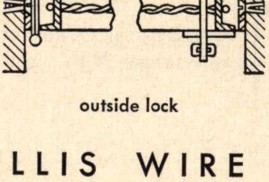




inside lock



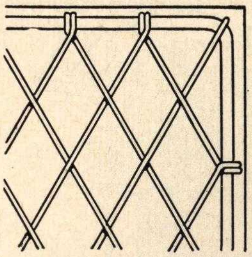
fixed guard

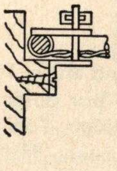


outside lock

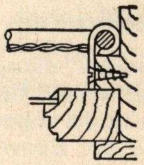
• round rod frames

5/16"—⅜" or ½" depending on the size of the guard. All joints welded.





outside lock



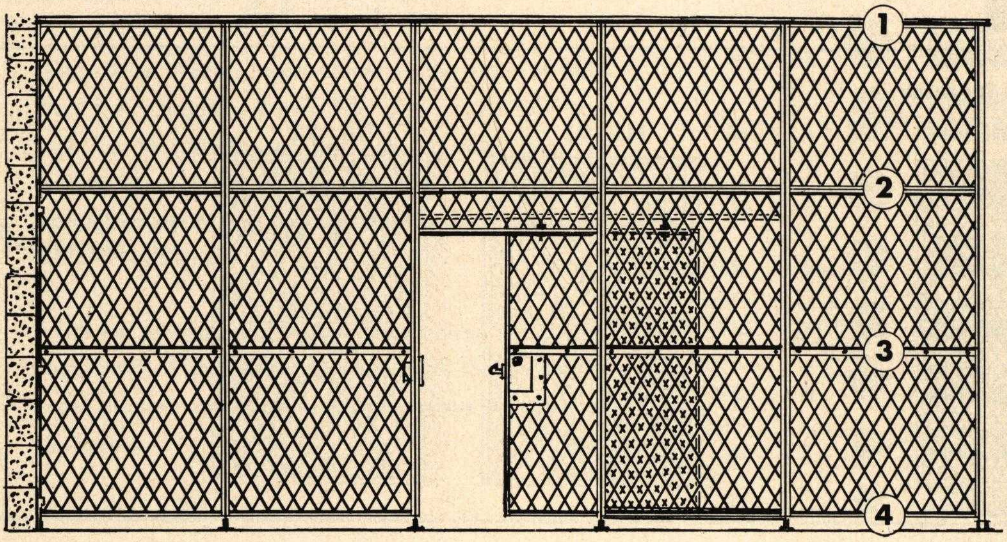
hinge

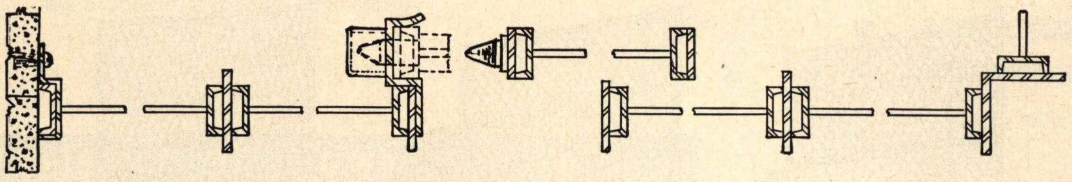
heavy duty high partition

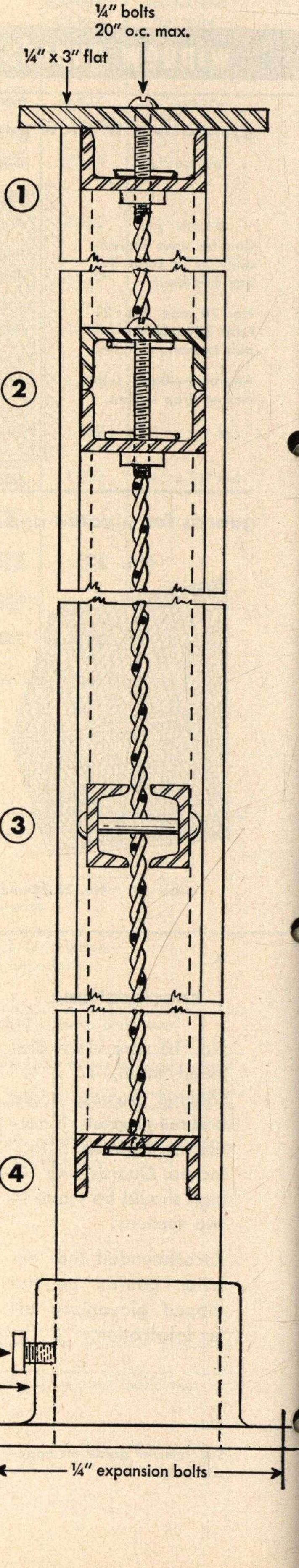
No. 40—All wire.

No. 41—Bottom panels No. 14 ga. sheet steel 4′-0″ high, flanged all around.

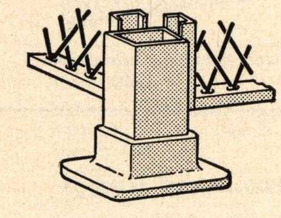
for extra heavy use



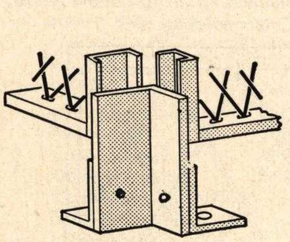



¼″ bolts 20″ o.c. max.
¼″ x 3″ flat
①
②
③
④
¼″ set screw
c.i. socket
¼″ expansion bolts

■ details • corner posts



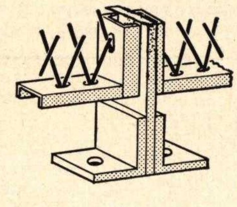
tube



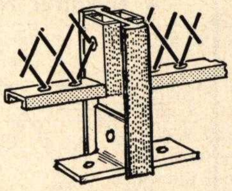
angle

• intermediate posts

¼″ x 2″-7′0″ to 12′-0″ high
¼″ x 3″-12′-0″ to 15′-0″ high
5⁄16″ x 3½″-15′-0″ to 20′-0″ high

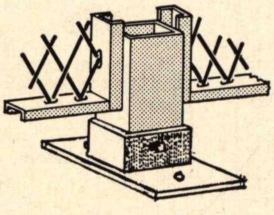


flat



I-Beam
2⅛″ x ⅝″

for partitions
up to 12′-0″ high



1½″ square tube up to 10′0″ high
2″ square tube for over 10′-0″ high

■ specifications

No. 6 wire, 2″ diamond mesh, 1½ x ¾″ channel frames. Flat bar posts of size to suit height of partition. Top rail ¼″ x 3″ flat bar. Corner post—1¾″ x 1¾″ angle. Finish—one shop coat of paint.

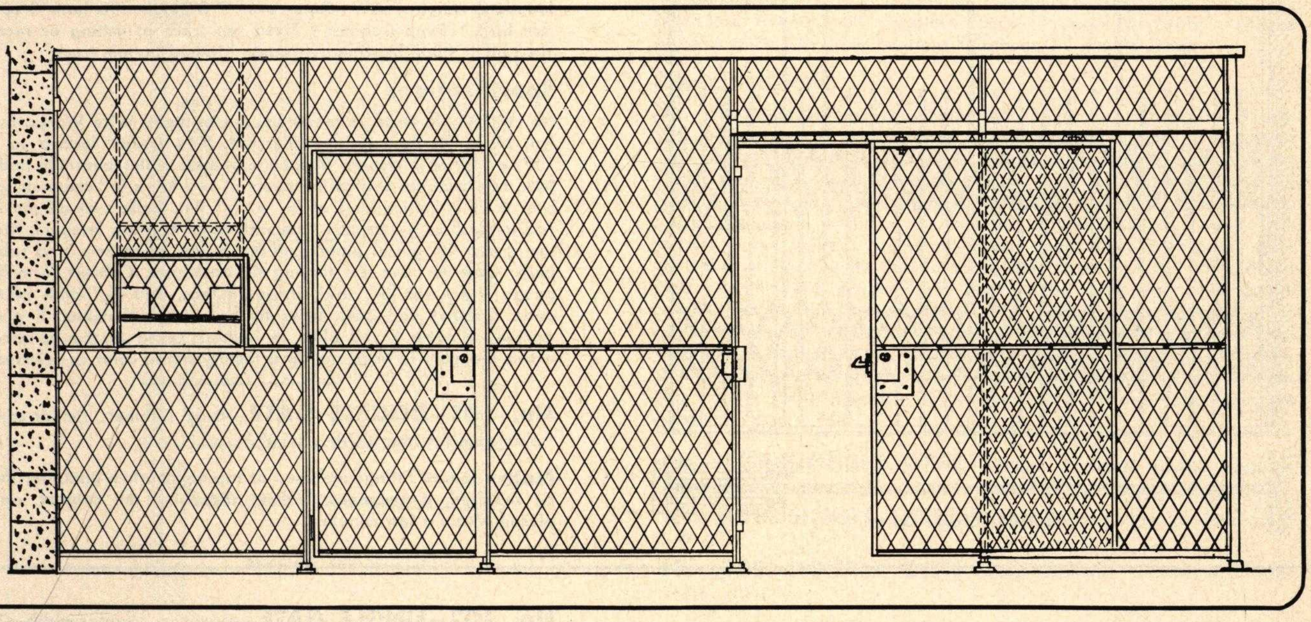
■ alternate posts

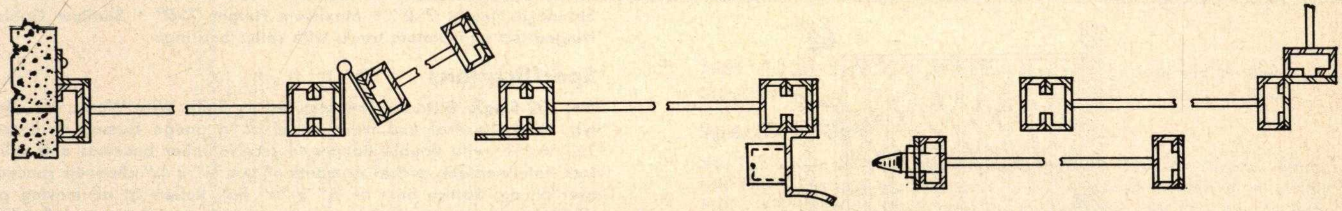
Can be angles, tees or pipe of size commensurate with variation in height.

standard partition

for ordinary use

No. 42—All wire.
No. 43—Bottom panels 16 ga. sheet steel 4'-0" high, flanged all around.





specifications

No. 10 wire, 1½" diamond mesh, 1¼" x ⅝" "C" section for verticals and 1" x ½" channels for horizontals. Stiffeners at center consisting of two ¾" channels riveted or bolted together.

Partitions over 10'-0" high to have flat bar posts as specified under intermediate posts. Top rail—2⅜" x 1" channel with ¼" bolts not over 24" o.c. Finish—one (1) shop coat of paint.

hinged doors

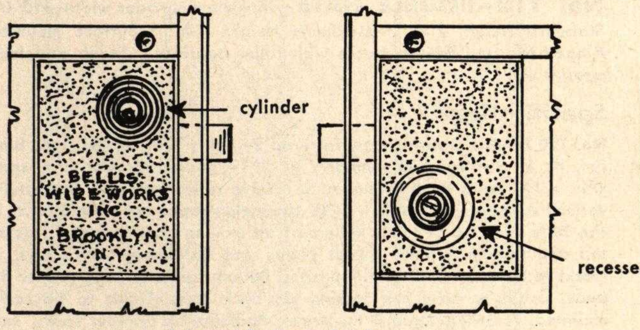
1¼" or 1½" x ⅛" flat bar capping on top, bottom and hinged side. 1⅜" x ¾" or 1⅝" x ⅞" x ⅛" angle strike bar riveted to door at lock side. 1½ pairs of heavy steel butt hinges on each door. Bronze mortise type lock with cylinder on outside and recessed knob on inside.

service windows

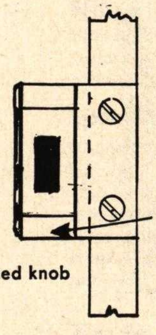
Slide up in channel guides. Popular size 24" x 16". Special sizes can be furnished as conditions may require. Spring catches keep window locked in open or closed position. Steel shelf of #12 gauge 24" wide by 12" deep flanged on all sides and supported by substantial brackets.

sliding doors

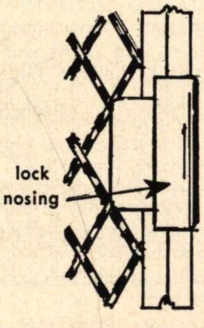
1¼" or 1½" x ⅛" flat bar capping all around. Box type track-two (2) 4 wheel roller bearing hangers on each door—channel guide at bottom. Bronze mortise type lock with cylinder on outside and recessed knob on inside.
Lock nosing recessed for plate on door to prevent tampering with lock bolt.



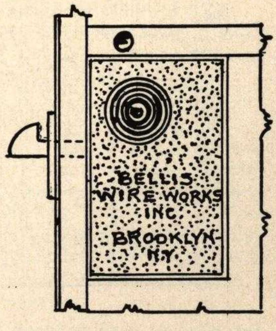
hinged door lock



side view

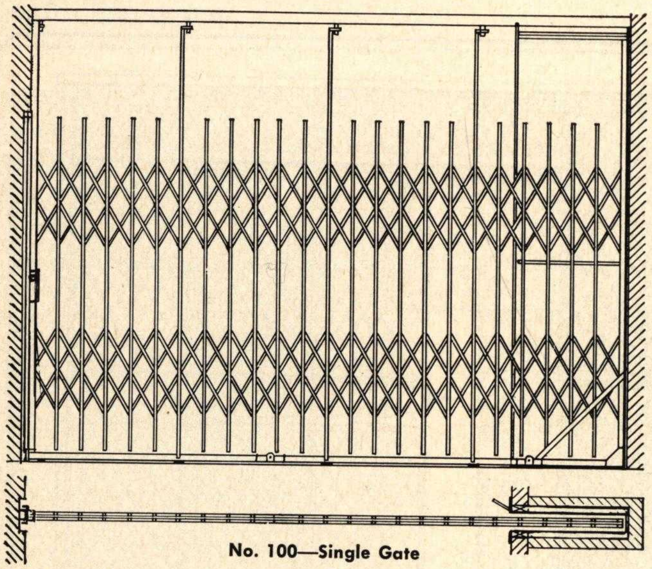


front view



sliding door lock

locks—Bronze mortise type—sizes 3-9/16" x 6¼" x 1" thick with standard 1-5/32" diameter 5 pin tumbler cylinder on outside and recessed knob on inside. Keyed different, alike or master keyed. These locks can be furnished with cylinders on both sides for maximum security.



No. 100—Single Gate

No. 100—SINGLE GATE—Maximum corridor width—14′-0″

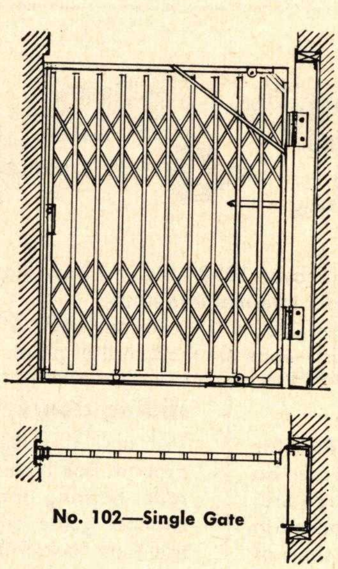
Standard Height 7′-0″ • Gates over 9′-0″ high • To have 3 rows of lattice bars • Deep Cabinet • Fixed top track at ceiling or recessed into the ceiling • Ball bearing carriages • Hinged bottom track

Specifications

No. 100 Single Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical end members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings and cylinder lock. Intermediate vertical members of two ¾″ x ⅜″ channels spaced not over 6″ o.c. Lattice bars of ⅝″ x $\frac{3}{16}$″ flat. Rollers at all moving parts. Top track #14 gauge box type with roller bearing hangers. Hinged bottom track with gusset plates and flat braces at corners, and rubber floor pads. Gate to have self locking tie back arm. Cabinet formed of #12 gauge steel, with $\frac{3}{16}$″ thick strips on face, and $\frac{3}{16}$″ thick plate hinged door. Cabinet and gate locks to have $1\frac{5}{32}$″ diameter 5 pin tumbler mortise cylinders keyed alike, or master keyed to the building system. Entire assembly to have standard factory finish, color as selected.

No. 101—DOUBLE GATE—Deep Cabinets, similar construction • Maximum corridor width—24′-0″

Note—special fittings are used at top and bottom enabling the gate to be removed, if necessary, without disturbing the cabinet, and be replaced within a few minutes.



No. 102—Single Gate

No. 102—SINGLE GATE—Maximum corridor width—14′-0″

Standard Height 7′-0″ • Maximum Height 7′-6″ • Shallow Cabinet • Hinged top and bottom tracks with roller bearings

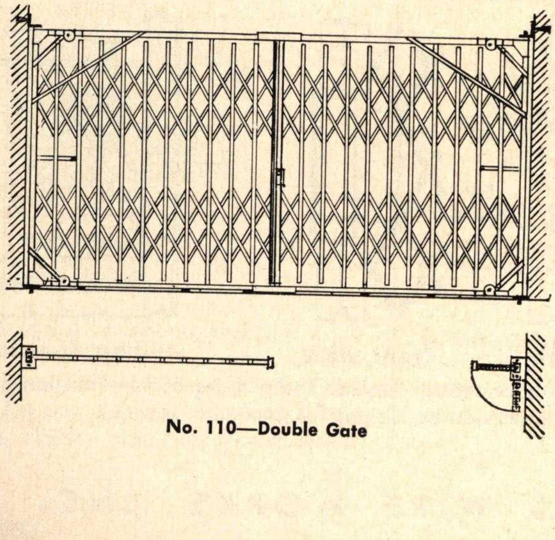
Specifications

No. 102 Single Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical end members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings and cylinder lock. Intermediate vertical members of two ¾″ x ⅜″ channels spaced not over 6″ o.c. Lattice bars of ⅝″ x $\frac{3}{16}$″ flat. Rollers at all moving parts. Hinged tracks at top and bottom to have gusset plates and flat braces at corners. Top track to have automatic hold up arm. Bottom track to have rubber floor pads. Gate to have self locking tie back arm. Cabinet formed of $\frac{3}{16}$″ thick Z bar frame, with #16 gauge back. Door to be flush type #16 gauge double flanged all around. Gate to be hung on offset hinges so as to permit the cabinet door to close and lock when gate is in both open and closed position. Cabinet and gate locks to have $1\frac{5}{32}$″ diameter 5 pin tumbler mortise cylinders keyed alike, or master keyed to the building system. Entire assembly to have standard factory finish, color as selected.

No. 103—DOUBLE GATE—Shallow Cabinets, similar construction • Max. corridor width—16′-0″

No. 104—SINGLE GATE—Deep Cabinet • Maximum corridor width—12′-0″

No. 105—DOUBLE GATE-Deep Cabinets • Max. corridor width—12′-0″



No. 110—Double Gate

No. 110—DOUBLE GATE—Maximum corridor width—15′-0″

Standard Height 7′-0″ • Maximum Height 7′-6″ • Surface mounted • Hinged top and bottom tracks with roller bearings • Swing and locked against walls

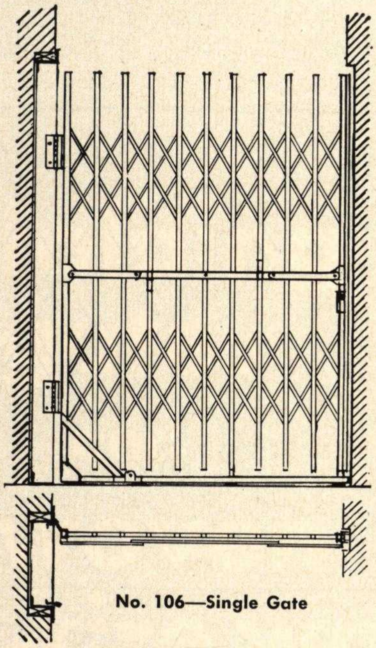
Specifications

No. 110 Double Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical end members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings. Intermediate vertical members of two ¾″ x ⅜″ channels spaced not over 6″ o.c. Lattice bars of ⅝″ x $\frac{3}{16}$″ flat. Rollers at all moving parts. Hinged tracks at top and bottom to have gusset plates and flat braces at corners. Top tracks to have automatic holdup arms. Bottom tracks to have rubber floor pads. Gates to have self locking tie back arms. Gates to be surface mounted, to swing against the walls. Padlocks or cylinder locks. Entire assembly to have standard factory finish, color as selected.

No. 111—SINGLE GATE, similar construction • Maximum corridor width 14′-0″

FOLDING GATES

BOSTWICK TYPE



No. 106—Single Gate

No. 106—SINGLE GATE—Maximum corridor width—8′-0″
Standard Height 7′-0″ • Shallow Cabinet • Jack-knife brace • Hinged bottom track with roller bearings • Ornamental pickets at top

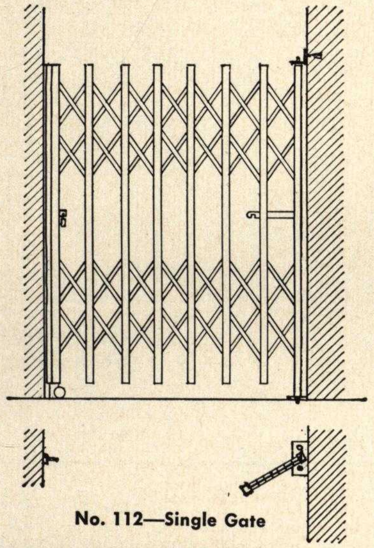
Specifications

No. 106 Single Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical end members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings and cylinder lock. Intermediate vertical members of two ¾″ x ⅜″ channels spaced not over 6″ o.c. Lattice bars of ⅝″ x 3/16″ flat. Rollers at all moving parts. Jack-knife brace of 2″ x 1″ channel. Hinged track at bottom with gusset plates and flat braces at corner, and rubber floor pads. Gate to have self locking tie back arm. Cabinet formed of 3/16″ thick Z bar frame, with #16 gauge back. Door to be flush type #16 gauge double flanged all around. Gate to be hung on offset hinges so as to permit the cabinet door to close and lock when gate is in both open and closed position. Cabinet and gate locks to have 1 5/32″ diameter 5 pin tumbler mortise cylinders keyed alike, or master-keyed to the building system. Entire assembly to have standard factory finish, color as selected.

No. 107—DOUBLE GATE—Shallow Cabinets, similar construction • Max. corridor width—10′-0″

No. 108—SINGLE GATE—Deep Cabinet • Max. corridor width —7′-0″

No. 109—DOUBLE GATE—Deep Cabinets • Maximum corridor width—10′-0″



No. 112—Single Gate

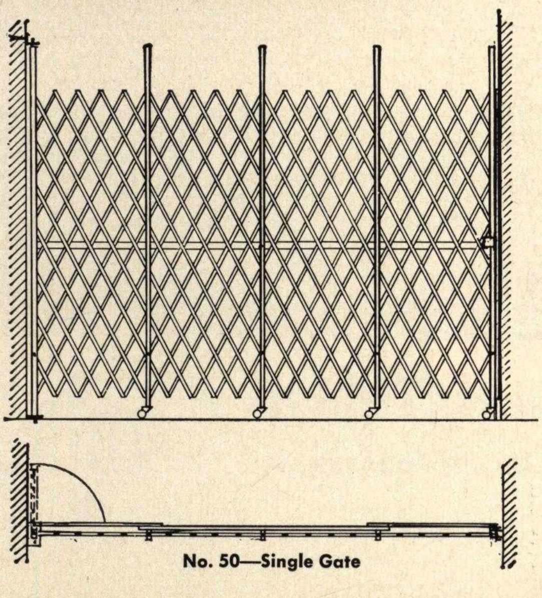
No. 112—SINGLE GATE—Maximum corridor width—6′-0″
Standard Height 7′-0″ • Surface Mounted • Swivel casters at floor.

Specifications

No. 112 Single Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical and members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings. Intermediate vertical members of two ¾″ x ⅜″ channels not over 6″ o.c. Lattice bars of ⅝″ x 3/16″ flat. Rollers at all moving parts. Gate to have self-locking tie back arm. Swivel casters at floor. Gate to be surface mounted to swing against the wall, padlocks or cylinder locks. Entire assembly to have standard factory finish, color as selected.

Gates over 4′-0″ wide to have jack knife brace.

LAZY TONG TYPE



No. 50—Single Gate

No. 50—SINGLE GATE—Maximum corridor width—8′-0″
Standard Height 7′-0″ • Surface Mounted • Jack-knife brace • Swivel casters at floor. Note: Body of gate drops 1½″ per foot in height when extended

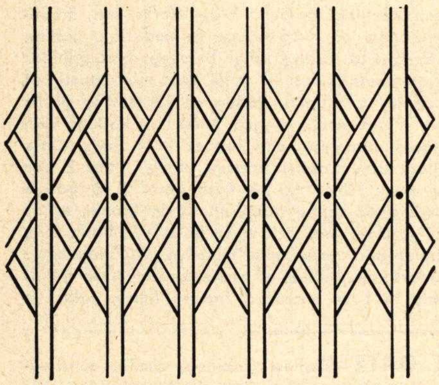
Specifications

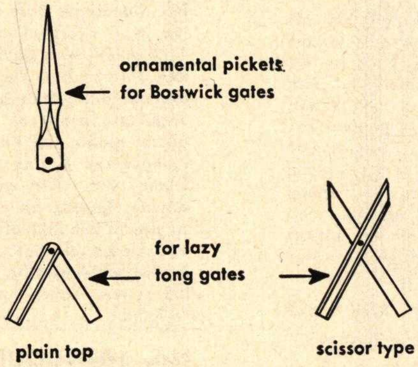
No. 50 Single Gate as manufactured by Bellis Wire Works, Inc., Brooklyn, N. Y. Vertical end members of #14 gauge formed to a section 1¾″ x 1⅜″ with double flanges to receive roller bearings. Body of gate constructed of ¾″ x ⅜″ channels riveted back to back not over 6″ on centers. Jack-knife brace of 2″ x 1″ channel. Swivel casters at floor. Hasp and padlock. Entire assembly to have factory finish. Color as selected.

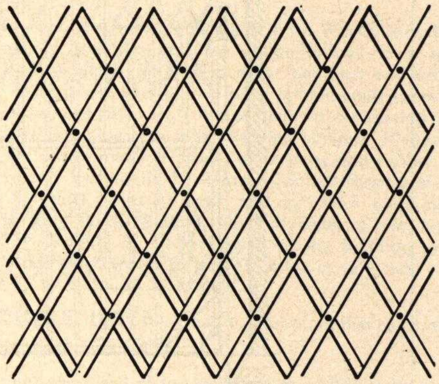
No. 51—DOUBLE—Maximum width—30′-0″. Surface mounted. Permanent overhead track verticals extend full height with ball bearing carriages at top and cane bolts at floor. Hasp and pad lock.

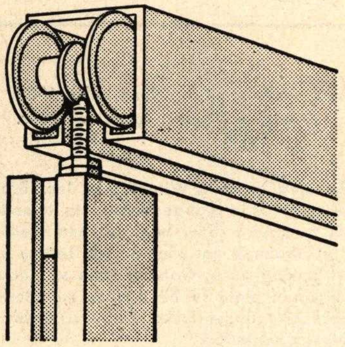
Gates secured on face of wall stacked clear of opening, or secured in the opening and swing against the walls.

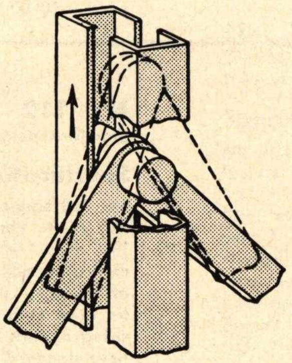
details of folding gate construction

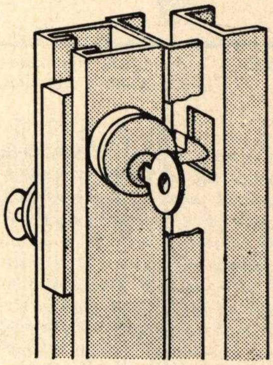

Bostwick type — 100 series


ornamental pickets
for Bostwick gates
for lazy
tong gates
plain top
scissor type
Pickets


Lazy Tong—50 series


Box type
track and ball bearing
carriages

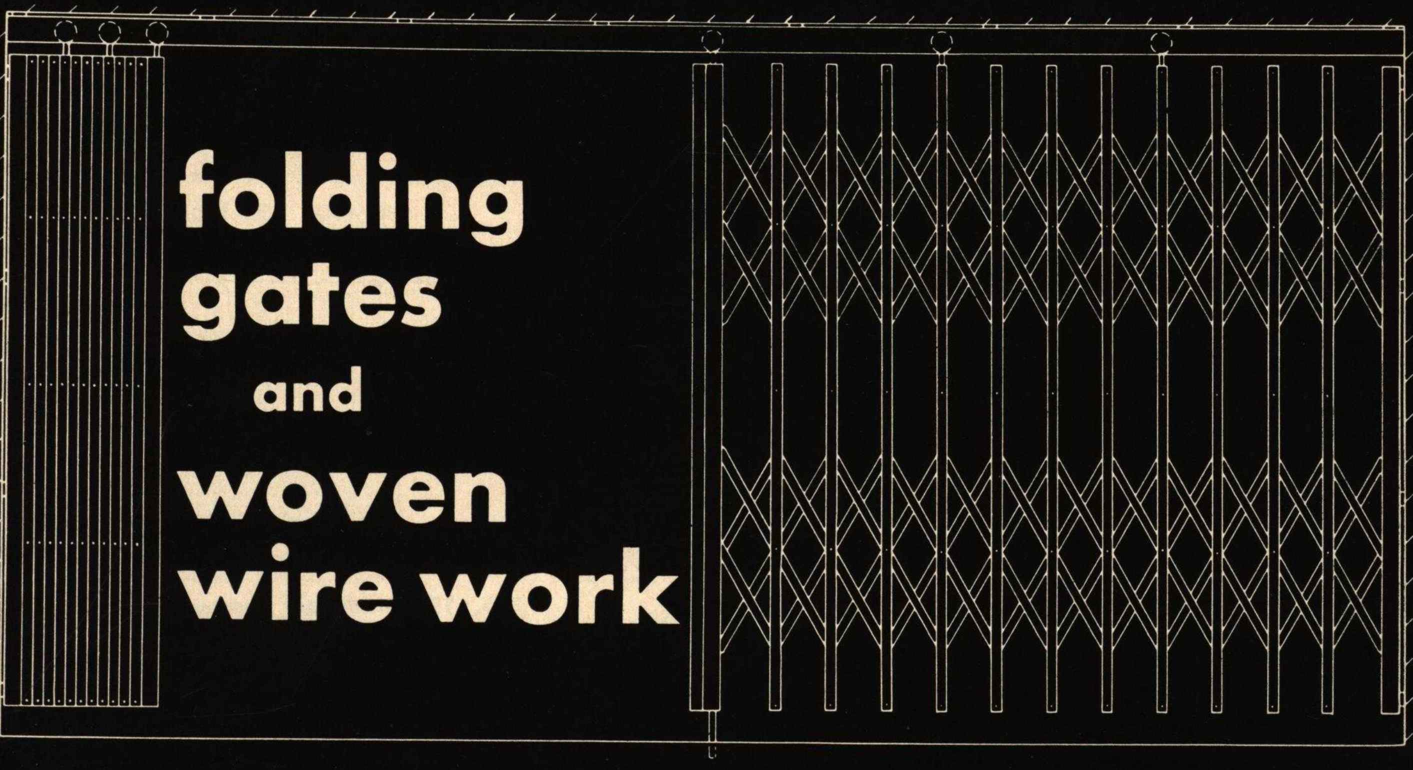

Roller bearings on
lattice bars

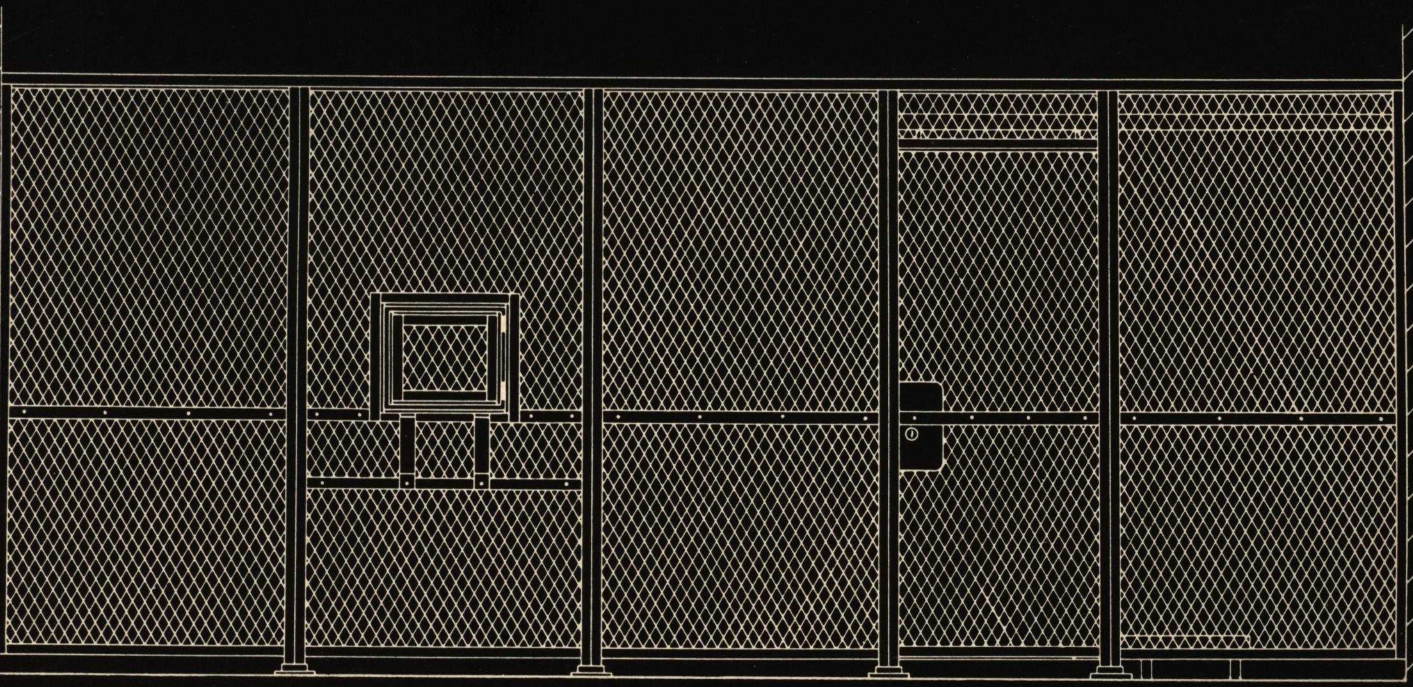

Lock, cylinder,
both sides

BELLIS WIRE WORKS, INC.
307-09 Scholes St., Brooklyn 6, N.Y.

22f
Ke

folding gates and woven wire work





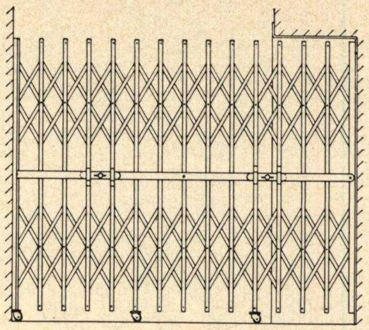
KENTUCKY METAL PRODUCTS CO.

MANUFACTURERS SINCE 1926

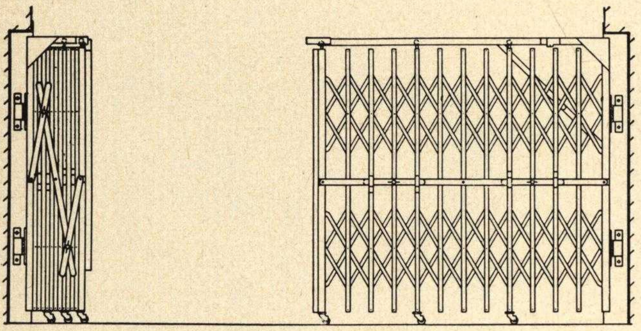
LOUISVILLE 13, KY.

GATES

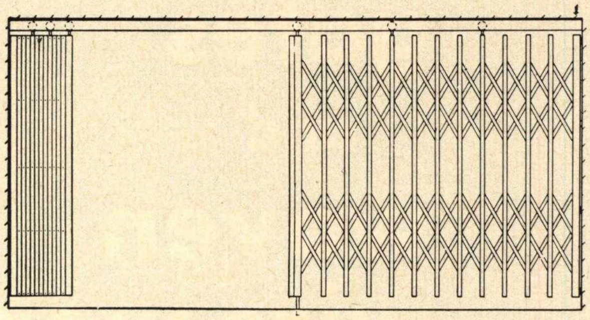
KENTUCKY Folding Gates are highest grade roller bearing construction. Surface mounted or with cabinets to meet any building condition.



NO. 175 type D cabinet



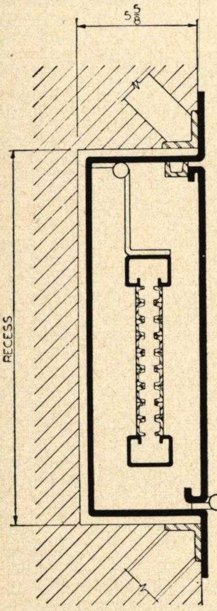
NO. 177 type B cabinet



NO. 178 stationary overhead track

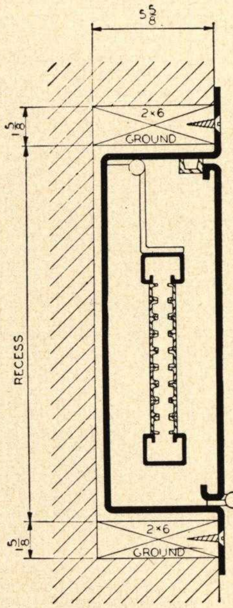
Can be arranged to hinge back against wall.

GATE AND CABINET DETAILS


$5\frac{5}{8}$
RECESS

TYPE BA

With subframe and anchors

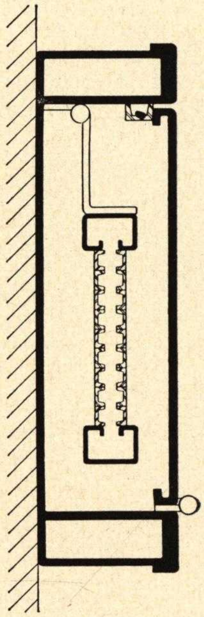

$5\frac{5}{8}$
$1\frac{5}{8}$
2×6
GROUND
RECESS
$1\frac{5}{8}$
2×6
GROUND

TYPE BG

With wood grounds

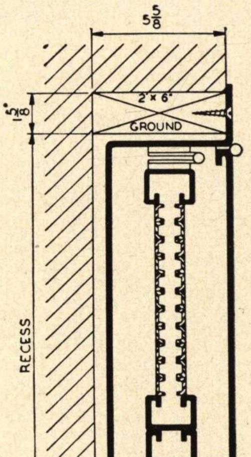
Wood installation similar

New type hinges permit pocket door to be closed with gate in pocket or extended across opening.



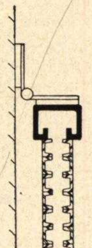
TYPE F

Entire cabinet surface mounted—used where recesses are not practical.


$5\frac{5}{8}$
$1\frac{5}{8}$"
2"×6"
GROUND
RECESS
$1\frac{5}{8}$"
2"×6"
GROUND

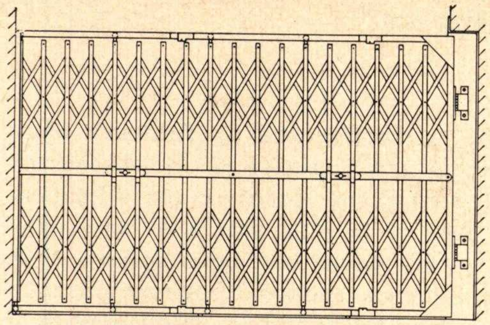
TYPE E

Old style hinges can be furnished when needed to match installations in place.

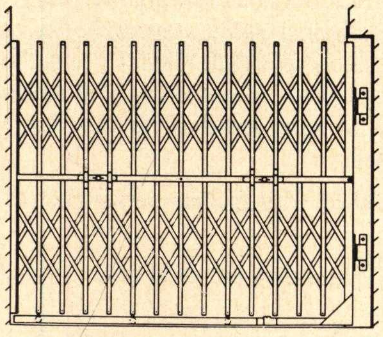


TYPE C

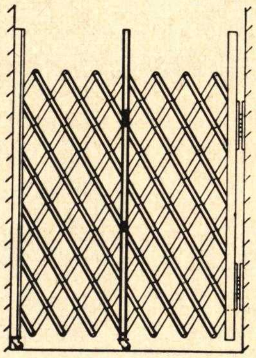
Gate surface mounted and arranged to hinge back against wall.



NO. 179 type B cabinet



NO. 171 type B cabinet

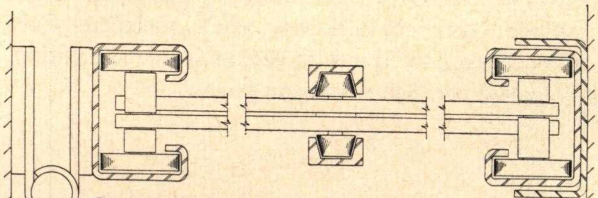


NO. 174 lazy-tong style gate

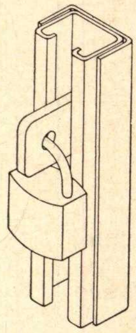
standard equipment

gates

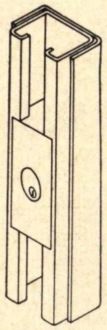
1. Hinges allow cabinet door to close with gates in either position, when so specified.
2. "C" shape tracks enclosing rollers prevent lifting of gate.
3. All roller bearings precision turned, mounted on steel axles and electro-galvanized to insure long life and ease of operation.
4. Lock completely enclosed by end track. One cylinder only is required as it is accessible from both sides of gate. Masterkeyed when specified.
5. Where folding top track is specified, extra large gussets and folding track brace are furnished.
6. With folding bottom track, extra large gussets and rubber floor rests are furnished.
7. The structural shape channel section used in body of Kentucky Folding Gates provide approximately 40% more protective steel than lighter cold rolled sections.
8. Automatic holdback is provided to hold gate in stacked position.



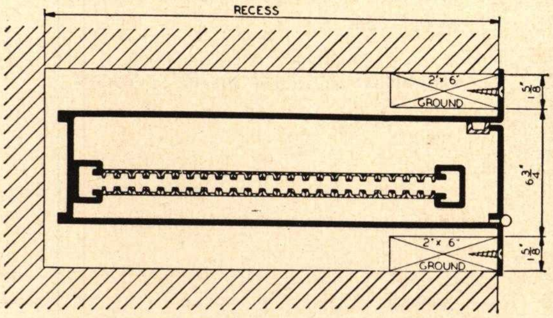
Cross section of gate showing details of roller bearing construction.



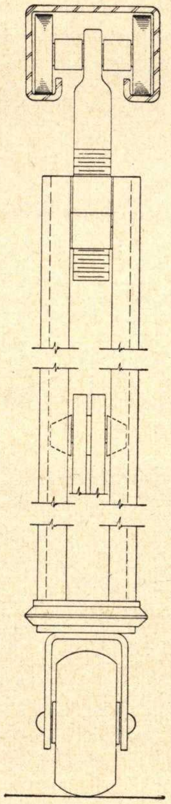
Detail of padlock fitting.



Standard Inbuilt Lock—Cylinder type bronze lock masterkeyed when required.



TYPE D wood—installation



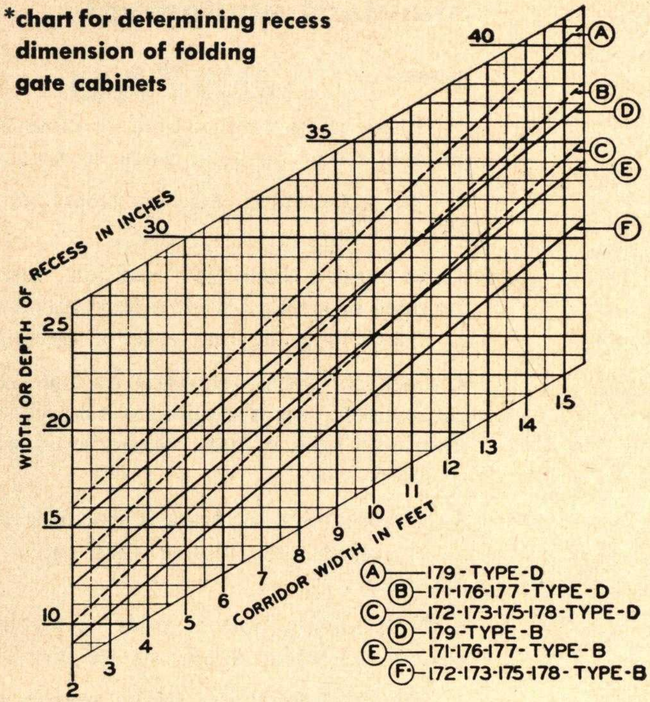
Cross section of gate showing roller bearing, adjustable hanger, and floor caster.

cabinets

1. Rigid one piece construction.
2. Doors are flanged on all sides with additional stiffness, when necessary.
3. Uniform appearance of deep and shallow cabinets obtained by use of same frontal design.
4 Hinges on cabinet doors are mortised in. Only knuckles are exposed.
5. Locks are masterkeyed with gates when specified.

dimension chart

***chart for determining recess dimension of folding gate cabinets**



To find measurements of recess for gate cabinets: Select gate number and cabinet type from schedule at bottom of chart. Locate proper line, A, B, C, etc., and follow until corridor width is reached. Recess dimensions may be read at left of chart. For double gate, use one-half of corridor width.

Add 4″ for new type hinge

specifications

gates

Gates shall be as manufactured by Kentucky Metal Products Company and consist of ¾″x⅜″ channel uprights, securely riveted, and spaced not over 6″ centers. Scissors bars shall be ⅝″x³⁄₁₆″ flats with bevel roller bearings at movable points and brass spacers at all pivots. Vertical end tracks and top or bottom tracks to be hollow metal sections. Roller bearings fixed to scissors or uprights. Jacknife brace to be used when called for. Casters at floor to be hard rubber ball bearing swivel type. Continuous #12 gauge channel guide at wall. Cylinder locks or hasp for padlock as specified. Cylinder locks to be built into end members. Can be masterkeyed as called for. Gate and cabinets to have standard factory finish unless otherwise specified.

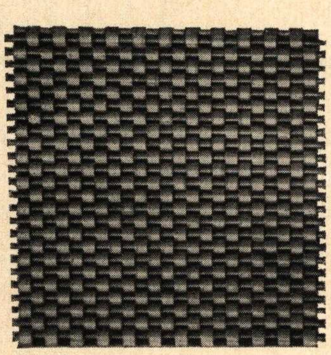
Any gate may be furnished with pickets across the top when so ordered.

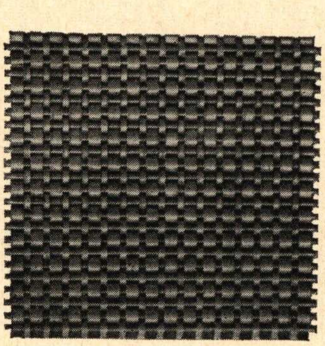
Other styles and special gates may be made to architects' specifications.

cabinets

Cabinets to be constructed of steel strongly reinforced as indicated. Doors to have three 3″ tight pin hinges and cylinder lock masterkeyed when specified. Cabinet door arranged to close with gate in extended position, when so called for. See details on page 2.

DECORATIVE METAL GRILLES





Combination of Stainless Steel and Bronze wires have been effectively used as decorative walls and ceilings in passenger elevators, lobbies of buildings, store fixture work, etc.

Write to us about grille problems

KENTUCKY METAL PRODUCTS CO.

MANUFACTURERS SINCE 1926 **LOUISVILLE 13, KY.**

SUPERIOR

wire mesh partitions

collapsible gates

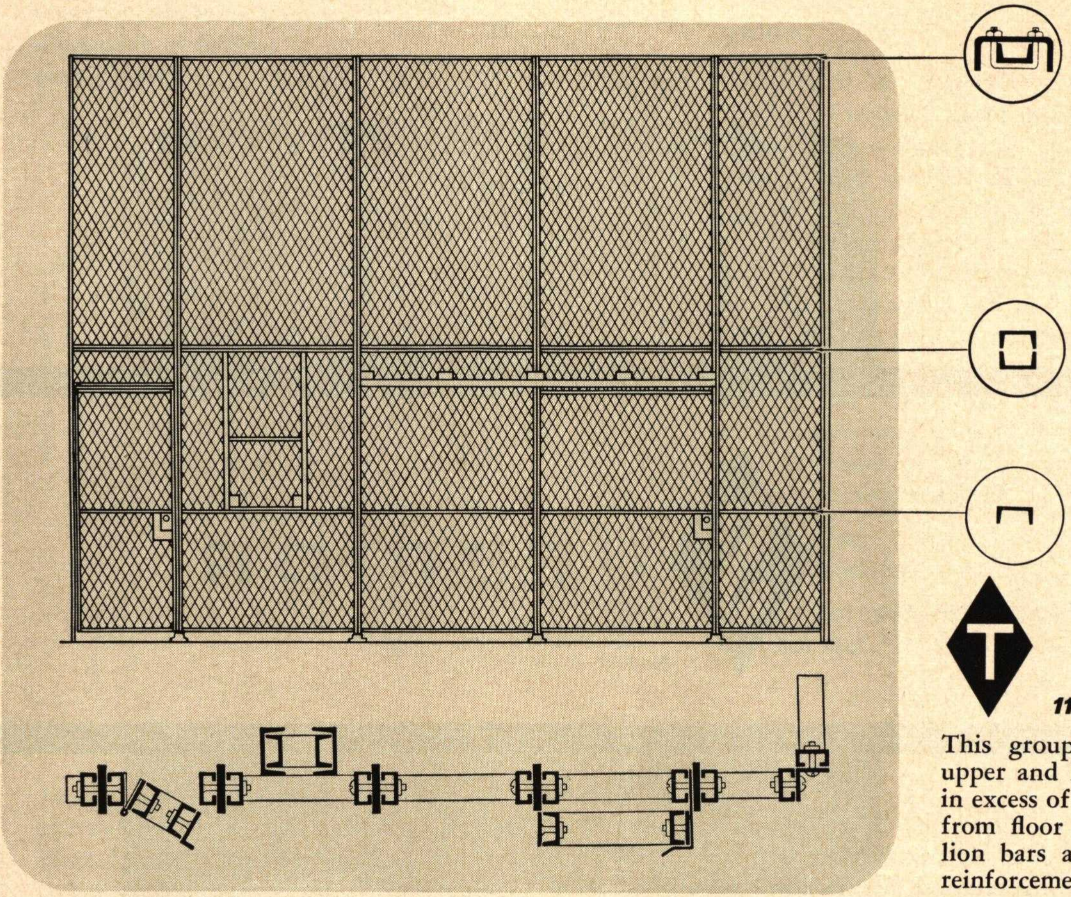
window guards

extruded aluminum

corridor gates

SUPERIOR WIRE & IRON PRODUCTS, Inc.

TALL PARTITIONS

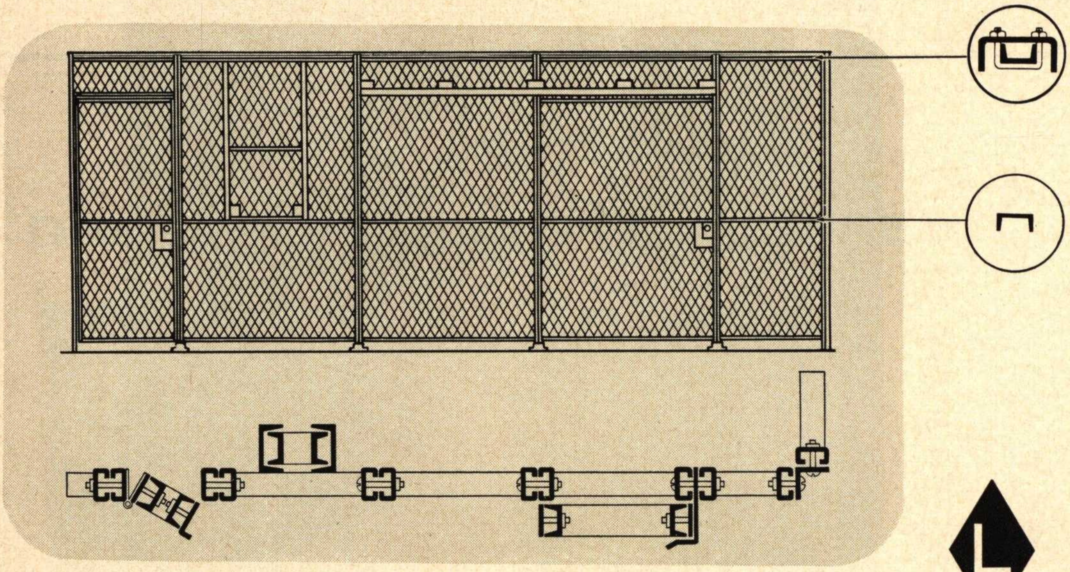


T

11′-0″ TO 20′-0″

This group covers partitions with upper and lower panels for heights in excess of 11′-0″ usually extending from floor to overhead. Flat mullion bars are installed for vertical reinforcement between panels.

LOW PARTITIONS



hinged door section

(right hand illus.) available widths — 2′-6″, 3′-0″, 3′-6″ and 4′-0″ (larger widths are not recommended); height is 7′-0″ (6′-6″ in 7′-0″ high partition); special sizes to order.

service window

vertical sliding with stainless steel spring catches; standard size 24″ x 18″; can be installed in standard panels, hinged or sliding doors; steel shelf 24″ x 12″ (optional).

standard panels

available heights — 7′-0″ to 20′-0″ in increments of 1′-0″; width is 5′-0″.

sliding door section

(right hand illus.) available widths— 3′-0″, 3′-6″, 4′-0″ and 5′-0″; height is 7′-0″ (6′-6″ in 7′0″ high partition); special sizes to order.

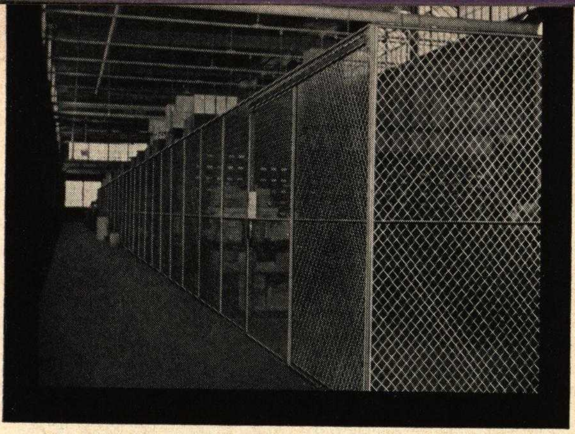
filler panels

filler panels less than 5′-0″ wide, where required, are furnished to order.

L

7′-0″ TO 10′-0″

This group covers single panel partitions ranging in height from 7′-0″ to 10′-0″. Floor and/or ceiling bracing can be installed for added reinforcement where required.



Superior wire mesh partitions provide a definite contribution to modern industry's production and organization programs. Since all sections are interchangeable, change of partitions and their relocation are easily made. The passage of light and the circulation of air is not interrupted and maximum efficiency of sprinkler systems is assured. Their sturdy, rigid construction and neat appearance, make these partitions valuable assets to any building.

Type 35C Standard

Superior standard wire mesh partitions are recommended for stock and tool room enclosures, electrical equipment enclosures, warehouse partitioning, department segregation, and similar applications where maximum strength and flexibility are desired.

Type 45 Heavy Duty

Superior heavy duty wire mesh partitions are recommended for areas requiring maximum security. This rugged partition is often required in perimeter areas exposed to the operation of material handling vehicles.

Sheet Base

Standard wire mesh partition with 16 gauge steel sheet incorporated in lower 3′-6″ of panel may be used with either type (35C or 45). Edges are formed and bolted to panel frame.

Design Service

Our experienced engineers are available to you, without obligation, with assistance in layouts and specifications for the installation of Superior wire mesh partitions, collapsible gates and window guards. Write or telephone our main office, RAdcliffe 3-3456.

SPECIFICATIONS

Type No. 35-C — size group "L"

a) Wire mesh partition shall be Superior Wire & Iron Products, Inc. type No. 35-C, size group L.

b) 10 gauge (.135) steel wire, 1½″ diamond mesh with wire securely clinched to framing.

c) Wire shall be woven through a horizontal 1″ x ½″ x ⅛″ channel bar at 3′-6″ from bottom of partition.

d) Vertical frames 1¼″ x ⅝″ "C" type, cold rolled channel. Horizontal frames 1″ x ½″ x ⅛″ channel mortised and tenoned at intersections.

e) Top capping bar 2¼″ x 1″ cold rolled channel with ¼″ "U" bolts approximately 14″ O.C.

f) Corner post 1¼″ x 1¼″ x ⅛″ angle.

g) Cast iron floor shoes 2½″ high with set screw adjustment.

h) Door frames 1¼″ x ½″ x ⅛″ channel with 1¼″ x ⅛″ cover plate on four sides.

i) Sliding doors to have: two, 4-wheel ball-bearing trucks hung in enclosed box track; continuous 12 gauge door strike with keeper; box channel guide.

j) Hinged doors to have: 1½ pair fast pin butts; continuous 12 gauge strike bar.

k) 3″ sweep space under all panels and doors.

l) Bronze cylinder mortise type locks with cylinders individually keyed, keyed alike, and/or master keyed to building system. All locks to have recessed knob on inside.

m) All hardware necessary for proper installation to be furnished.

n) Finish: 1 shop coat steel grey gloss enamel (or specify other color if desired).

Type No. 35-C — size group "T"

"b" thru "n" same as for size group L, plus the following:

o) Mullion bars between all panels to be 5/16″ x 2″ flat.

Type No. 45 — size group "L"

a) Wire mesh partition shall be Superior Wire & Iron Products, Inc. type No. 45, size group L.

b) 6 gauge (.192) steel wire, woven into 2″ diamond mesh, with wire securely clinched to framing.

c) Wire shall be woven through a horizontal 1½″ x ¾″ x ⅛″ channel bar at 3′-6″ from bottom of partition.

d) Frames 1½″ x ¾″ x ⅛″ channel mortised and tenoned at intersection.

e) Top capping bar, 2″ x 1″ x ⅛″ channel.

f) Corner post 1½″ x 1½″ x 3/16″ angle.

g) Cast iron floor shoes 2½″ high with set screw adjustment.

h) Door frames 1½″ x ¾″ x ⅛″ channel with 1½″ x ⅛″ cover plate on four sides.

i) Sliding doors to have: two, 4-wheel ball-bearing trucks hung in enclosed box track; continuous 12 gauge door strike with keeper; box channel guide.

j) Hinged doors to have: 1½ pair fast pin butts; continuous 12 gauge strike bar.

k) 3″ sweep space under all panels and doors.

l) Bronze cylinder mortise type locks with cylinders individually keyed, keyed alike, and/or master keyed to building system.
All locks to have recessed knob on inside.

m) All hardware necessary for proper installation to be furnished.

n) *Finish:* 1 shop coat dipped steel grey gloss enamel (or specify other color if desired).

Type No. 45 — size group "T"

"b" thru "n" same as for size group L, plus the following:

o) Mullion bars between all panels to be 5/16″ x 2½″ flat.

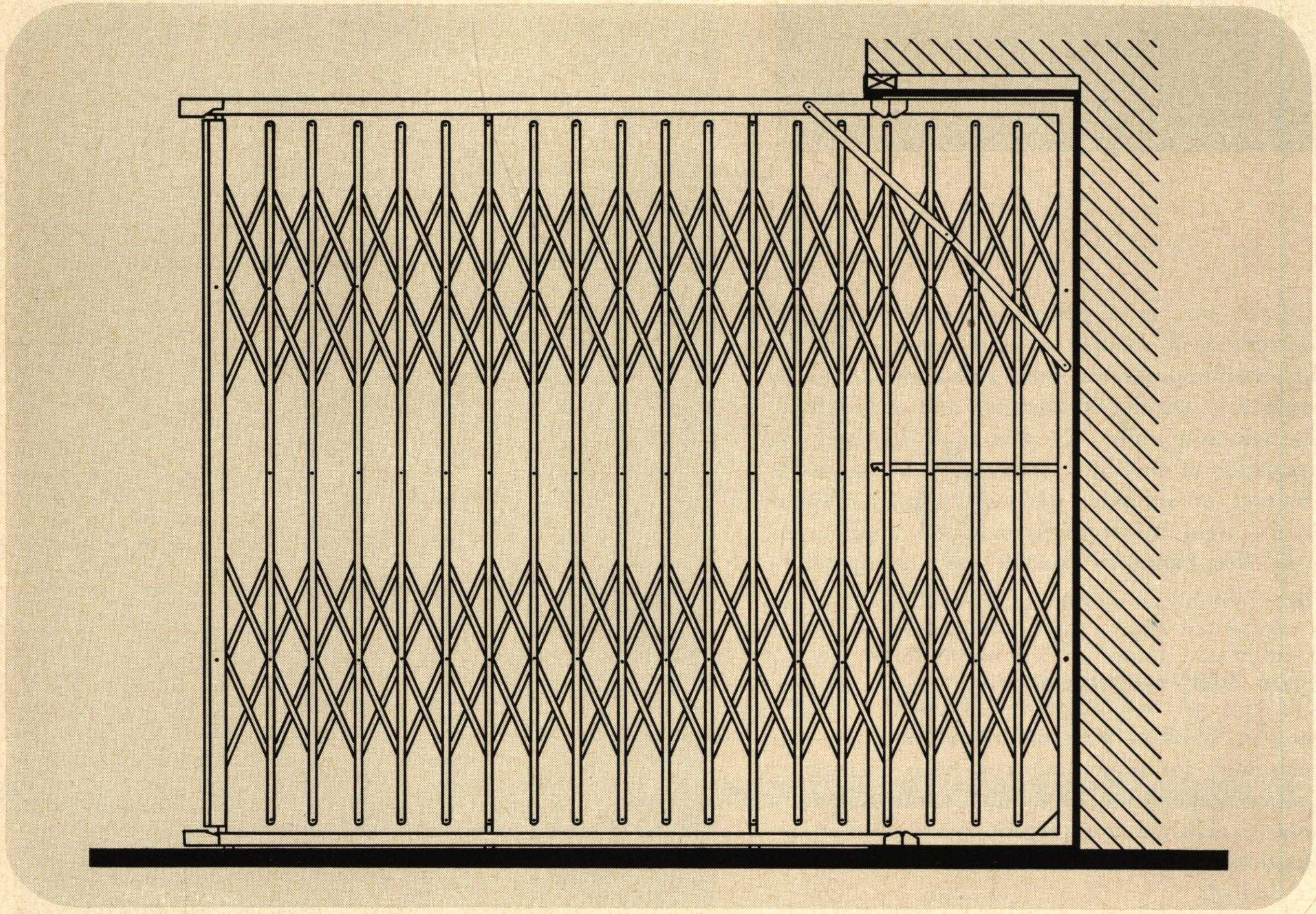
Sheet Base

Specifications for either 35C (L or T) or 45(L or T) remain the same, plus the following:

p) 16 gauge steel sheet formed and bolted in lower 3′-6″ portion of panel.

EXTRUDED ALUMINUM CORRIDOR GATES

Series 200-AL—folding top and bottom tracks
—corridor width: 4′-0″ to 16′-0″
—height: normal 7′-0″



Deep Recess (Model D Cabinet shown above)

Model Numbers for Series 200-AL

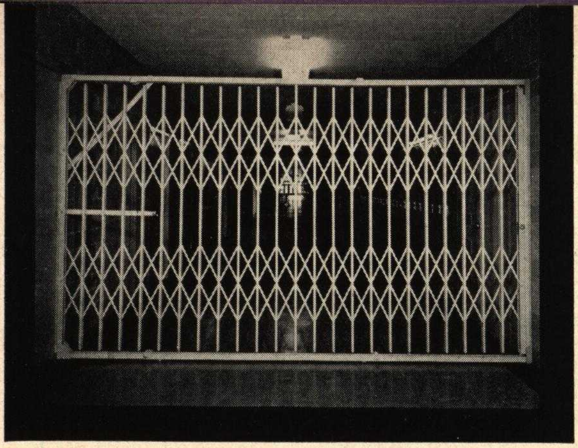
		DERIVATION				
		FM FACE MOUNTED	**SM** SURFACE MOUNTED	**S** SHALLOW RECESS	**D** DEEP RECESS	MAXIMUM RECOMMENDED CORRIDOR WIDTH
SERIES 200	single gate	201-FM	201-SM	201-S	201-D	12′-0″
	pairs of gates	202-FM	202-SM	202-S	202-D	16′-0″

Recess Dimensions for Series 200-AL

—all width dimensions are Wood Openings
—all depth dimensions are Masonry Openings

CORRIDOR WIDTH (feet)	SHALLOW RECESS (5⅝″ deep) WIDTH		DEEP RECESS (5″ wide) DEPTH	
	single	pair	single	pair
4	21″	17¾″	20″	16¾″
5	22½″	18¾″	21⅝″	17½″
6	24¼″	19½″	23¼″	18⅜″
7	26″	20¼″	24⅞″	19¼″
8	27½″	21″	26½″	20″
9	29″	21¾″	28⅛″	20¾″
10	34″	22½″	31¾″	21⅝″
11	35½″	23½″	33⅜″	22½″
12	37¼″	24¼″	35″	23¼″
13	39″	25¼″	36⅝″	24″
14	40½″	26″	38¼″	24⅞″
15		26¾″		25¾″
16		27½″		26½″

note: (1) Height of Recess Wood Opening is 2″ greater than the height of gate.
(2) Height of Recess Masonry Opening is 3⅝″ greater than the height of gate.



extruded aluminum collapsible corridor gates bostwick type

Superior extruded aluminum corridor gates, while functional as an integral part of modern school planning in controlling pedestrian traffic, are also an asset by reason of their attractive appearance, sturdy construction and ease of operation.

ADVANTAGES

- *EASE OF OPERATION*
  As strong as steel with one-third the weight
- *NYLON SELF-LUBRICATING ROLLERS*
- *LOW MAINTENANCE*
- *LASTING APPEARANCE*
- *FINISH*
  Choice of Alumilite or lacquer
- *EASY TO INSTALL*
  No permanent ceiling tracks necessary

SPECIFICATIONS

a) Extruded aluminum corridor gates shall be Superior Wire & Iron Products, Inc. Series No. 200-AL, Model No.———.

b) Vertical bars ¾" x ⅜" x ⅛" extruded aluminum channels spaced 6" on center, shears or lattice bars ⅝" x 3⁄16" extruded aluminum flat stock with 1⁄64" radius on four sides.

c) Fully enclosed extruded aluminum end bars, 1⅞" x 1⅝" No. 12 gauge.

d) Alloy and temper shall be 6063-T6.

e) Automatic self-locking tie backs.

f) Chrome plated brass washers throughout gate construction.

g) Shears suspended in vertical channels with free-floating self-lubricating nylon rollers.

h) Extruded aluminum top and bottom folding track, fully enclosed type 1⅞" x 1⅝", No. 12 gauge.

i) Self-locking hold-up arm for top track.

j) Aluminum gussets No. 14 gauge, welded to all corners of gates.

k) Ball bearing rollers with nylon races in tracks spaced every 3'-6" or less.

l) Rubber rests for bottom track.

m) Gate lock to be self-locking type with aluminum case and heavy bronze tongue.

n) Cylinders both sides of gate.

Finish: Choice of Three

a) Satin with two coats clear acrylic lacquer

b) Alumilited aluminum

c) Alumilited gold

Add to above, applicable cabinet specifications—if used.

Model S Cabinet

Flush type cabinets to be 16 gauge (.065) sheet steel. 3" x 4½" x 3⁄16" cold rolled zee frames. Formed 16 gauge sheet steel door with continuous hinges. Gates shall have continuous hinges, two 1'-0" sections per gate, to enable cabinet door to remain in locked position when gate is extended. Bronze cylinder lock on cabinet keyed same as gate.

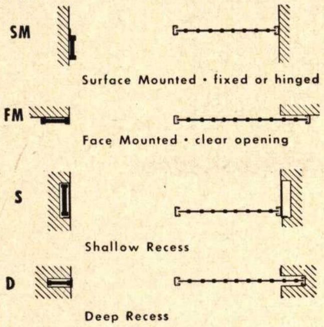
Finish: Color as selected to match corridor walls.

Model D Cabinet

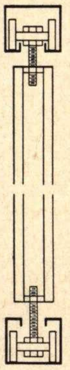
Flush type cabinets to be 12 gauge (.109) sheet steel. 3" x 2" x 3⁄16" cold rolled angle frames. Formed 12 gauge (.109) sheet door with continuous hinges. Bronze cylinder lock on cabinet keyed same as gate.

Finish: Color as selected to match corridor walls.

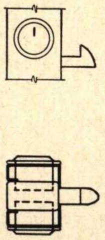
BASIC PLANS


SM
Surface Mounted • fixed or hinged
FM
Face Mounted • clear opening
S
Shallow Recess
D
Deep Recess

TRACK SECTIONS

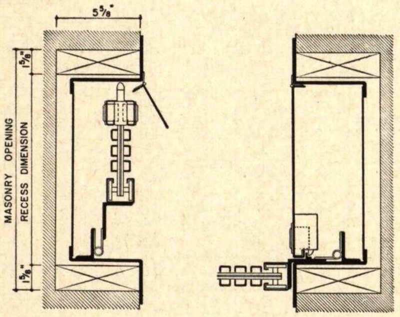


series 200
(all models)

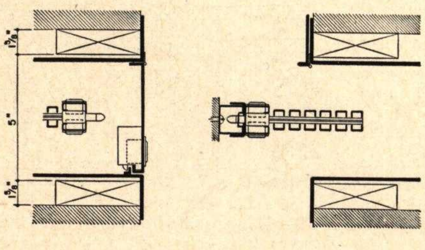


CYLINDER LOCKS

SHALLOW RECESS

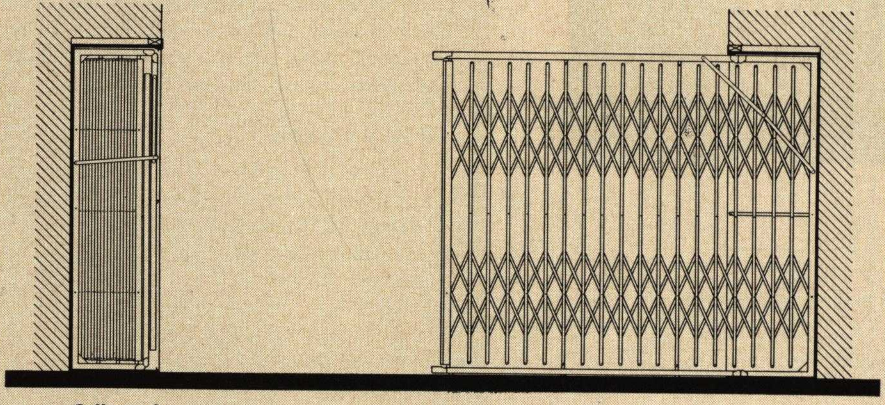


DEEP RECESS



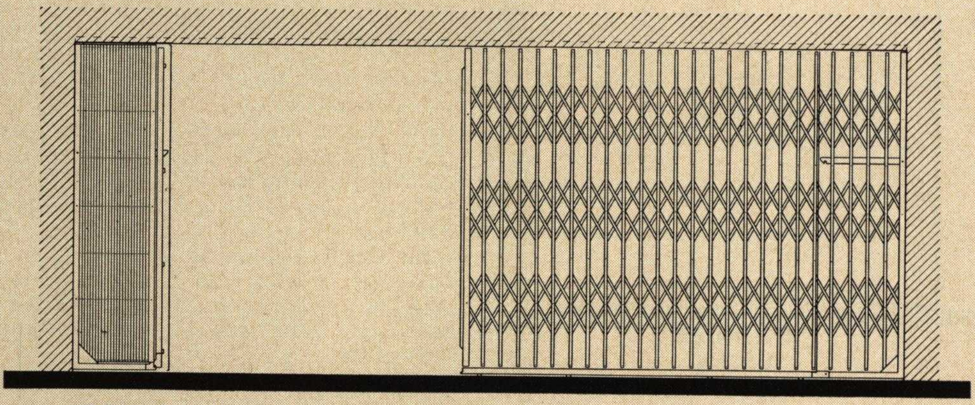
COLLAPSIBLE GATES

Series 200—folding top and bottom tracks (Deep recessed shown)
—corridor width: 4′-0″ to 16′-0″
—height: normal 7′-0″



Collapsed Extended

Series 300—permanent top track exposed or recessed (Deep recessed shown)
—folding bottom guide
—corridor width: unlimited
—gate height: same as corridor ceiling



Collapsed Extended

Model Numbers for Series 200 and 300

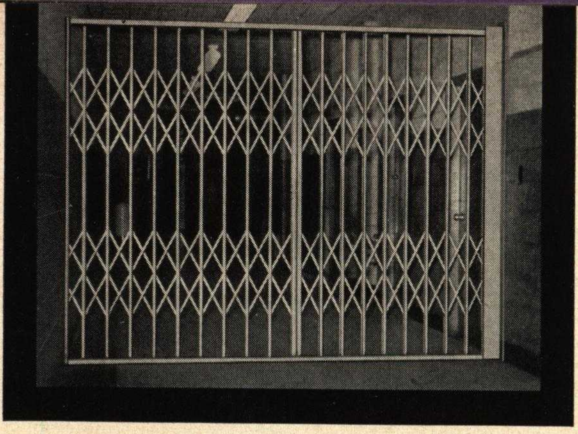
		DERIVATION				MAXIMUM RECOMMENDED CORRIDOR WIDTH
		FM FACE MOUNTED	SM SURFACE MOUNTED	S SHALLOW RECESS	D DEEP RECESS	
SERIES 200	single gate	201-FM	201-SM	201-S	201-D	12′-0″
	pairs of gates	202-FM	202-SM	202-S	202-D	16′-0″
SERIES 300	single gate	301-FM	301-SM	301-S	301-D	12′-0″
	pairs of gates	302-FM	302-SM	302-S	302-D	24′-0″

Recess Dimensions for Series 200 and 300

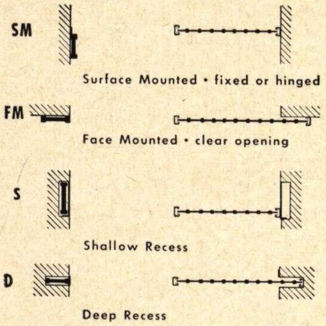
—all width dimensions are Wood Openings
—all depth dimensions are Masonry Openings

CORRIDOR WIDTH (feet)	SHALLOW RECESS (5⅝″ deep) WIDTH		DEEP RECESS (5″ wide) DEPTH	
	single	pair	single	pair
4	21″	17¾″	20″	16¾″
5	22½″	18¾″	21⅝″	17½″
6	24¼″	19½″	23¼″	18⅜″
7	26″	20¼″	24⅞″	19¼″
8	27½″	21″	26½″	20″
9	29″	21¾″	28⅛″	20¾″
10	34″	22½″	31¾″	21⅝″
11	35½″	23½″	33⅜″	22½″
12	37¼″	24¼″	35″	23¼″
13	39″	25¼″	36⅝″	24″
14	40½″	26″	38¼″	24⅞″
15		26¾″		25¾″
16		27½″		26½″

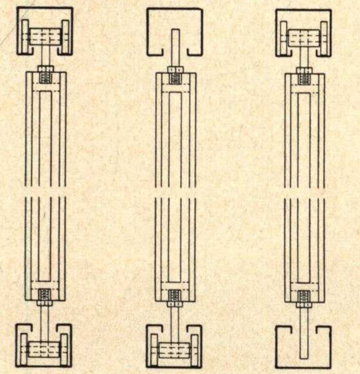
note: (1) Height of Recess Wood Opening is 2″ greater than the height of gate.
(2) Height of Recess Masonry Opening is 3⅝″ greater than the height of gate.



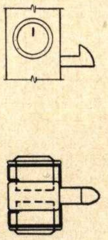
BASIC PLANS


SM
Surface Mounted • fixed or hinged
FM
Face Mounted • clear opening
S
Shallow Recess
D
Deep Recess

TRACK SECTIONS

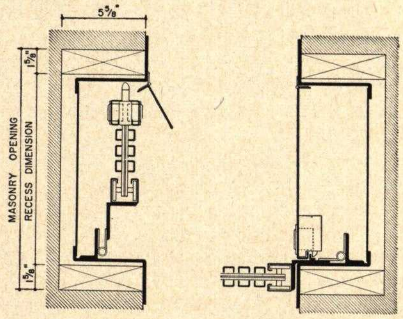


series 200 (all models)
series 300 (models S&SM)
series 300 (models D&FM)

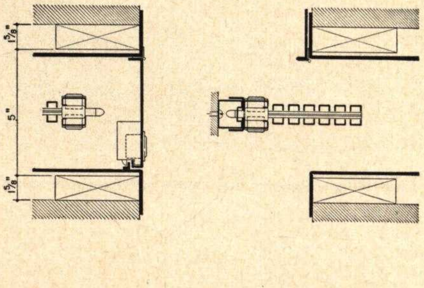


CYLINDER LOCKS

SHALLOW RECESS



DEEP RECESS



Superior collapsible gates are available in many types and sizes to meet all requirements in regulating the flow of vehicular and pedestrian traffic, and in preventing unauthorized entry or exit. Their principal uses are in modern school corridors, across driveways, in tunnels and across thoroughfares.

SPECIFICATIONS

General

- *a)* Collapsible gates shall be Superior Wire & Iron Products, Inc. Series No. ________, Model No. ________.
- *b)* Vertical bars ¾″ x ⅜″ cold rolled channels spaced 6″ on center, shears or lattice bars ⅝″ x 3/16″ cold rolled stock.
- *c)* Fully enclosed cold rolled end bars 1⅞″ x 1⅝″, No. 14 gauge (.083).
- *d)* Automatic self-locking tie backs.
- *e)* Brass washers throughout gate construction.
- *f)* Shears suspended in vertical channels with free-floating rollers.
- *g)* Gate lock to be of self-locking type with heavy bronze tongue and cylinders on both sides of gate.
- *h)* Cylinders (any make) keyed alike and/or master keyed to the building system for both cabinets and gates.
- *i)* Finish: Factory finish steel grey gloss enamel (or specify other color if desired).

Add to above, portions below which pertain to selection.

Series 200—all models

- *j)* Top and bottom folding track fully enclosed type 1⅞″ x 1⅝″, 14 gauge (.083).
- *k)* Steel gussets 16 gauge (.065) welded to all corners of gates.
- *l)* Ball bearing rollers in tracks spaced every 3′-6″ or less.
- *m)* Rubber rests for bottom track.
- *n)* Hold-up brace for top rack.

Series 300—shallow cabinet or surface mounted.

- *j)* Permanent top guide to be 1⅞″ x 1⅝″ x No. 14 gauge (.083) fully enclosed type, coped out at one end to allow gate to hinge.
- *k)* Guide to be exposed on ceiling surface.
- *l)* Guide pins at top of gate to engage ceiling guide.
- *m)* Folding bottom track to be 1⅞″ x 1⅝″ x No. 14 gauge (.083) fully enclosed type.
- *n)* Four-wheel ball bearing trucks spaced approximately 3′-6″ O.C.
- *o)* Rubber rests at bottom of track.

Series 300—deep cabinet or face mounted

- *j)* Permanent overhead track to be 1⅞″ x 1⅝″ x No. 14 gauge (.083) box track.
- *k)* Track to be recessed into ceiling, or exposed on surface—specify choice.
- *l)* Necessary track hangers shall be included.
- *m)* Four-wheel ball bearing trucks spaced approximately 3′-″ O.C.
- *n)* Bottom folding guide fully enclosed type, 1⅞″ x 1⅝″ x No. 14 gauge (.083).

Add to above, applicable cabinet specifications—if used.

Model S Cabinet

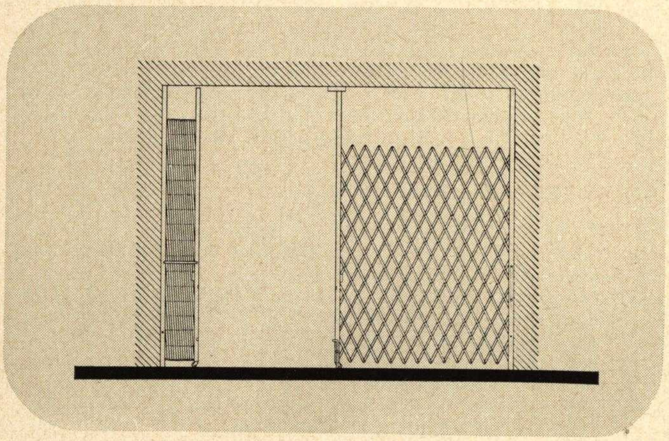
Flush type cabinets to be 16 gauge (.065) sheet steel. 3″ x 4½″ x 3/16″ cold rolled zee frames. Formed 16 gauge sheet steel door with continuous hinges. Gates shall have continuous hinges, two 1′-0″ sections per gate, to enable cabinet door to remain in locked position when gate is extended. Bronze cylinder lock on cabinet keyed same as gate.

Model D Cabinet

Flush type cabinets to be 12 gauge (.109) sheet steel. 3″ x 2″ x 3/16″ cold rolled angle frames. Formed 12 gauge (.109) sheet steel door with continuous hinges. Bronze cylinder lock on cabinet keyed same as gate.

INDUSTRIAL GATES

lazy-tong type



Series 400—normal height 6′-0″ to 8′-0″
For all types of openings such as shipping and receiving docks, entrances and exits, passage ways and halls.

Series 500—normal height 8′-0″ to 12′-0″
For all types of openings as suggested for Series 400. The overhead track assures smoother operation and its use is recommended where the ceiling is too high to warrant the use of free-standing gates.

Opening Widths

Single (model 401)—6′-0″ max
Pair (model 402)—12′-0″ max
Single (model 501)—6′-0″ max
Pair (model 502)—any width opening may be used.

SPECIFICATIONS

general

- *a)* Collapsible gates shall be Superior Wire & Iron Products, Inc. series No. 400 or 500 (specify).
- *b)* Diamond lattice work to be ¾″ x ⅜″ x ⅛″ channel riveted 6″ on center.
- *c)* Fully enclosed end bars 1⅞″ x 1⅝″ 14 gauge (.083) with return bends of 5/16″ and ¼″ respectively.
- *d)* Gate to have free floating rollers suspended in end bars.
- *e)* Pivot type tie-backs welded to end bars.
- *f)* Brass washers throughout gate construction.
- *g)* Gates to be arranged for padlocking or complete with built-in cylinder locks (specify).
- *h)* Finish: one shop coat dipped steel grey gloss enamel (or specify other color if desired).

Add to above, portions below which pertain to selection.

series no. 400

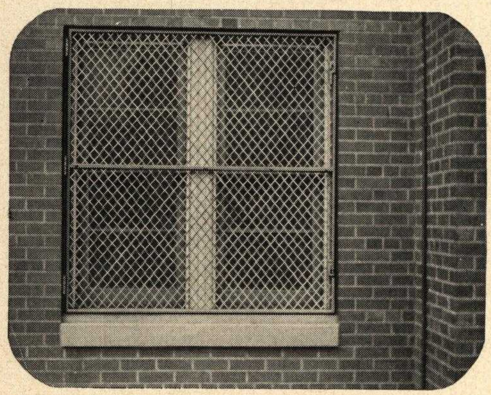
- *i)* Gate to have 2½″ x 1½″ x 3/16″ continuous angle hinge bar with 1½ pair fast pin butts.
- *j)* Single type gate to have 2½″ x 1½″ x 3/16″ continuous angle lock bar.
- *k)* Pairs of gates to have "H" type brackets at overhead to receive end bars.
- *l)* ⅝″ round shove bolts for locking at floor.
- *m)* 2½″ steel replaceable casters welded to bottom of end bar to aid in carrying load.

series no. 500

- *i)* Overhead track to be R-W No. 31 with 4-wheel ball bearing trucks secured to top of end bars.
- *j)* ⅝″ round shove bolts for locking at floor.

WINDOW GUARDS

two construction types



MODELS

700 C: (stationary type)
700 R: (stationary type)
800 C: (removable type)
800 R: (exterior hinging)
900 C: (hinged type)
900 R: (interior hinging)

type C: Constructed of channel frame which affords maximum strength for large windows, removable panels, gymnasium guards, and institutional detention ward applications.

type R: Constructed of round rod frame. Its most usual applications are for factories, stores, and homes. This window guard can be fabricated at a lower cost to the owner, and maximum protection against burglary or glass breakage is still assured.

SPECIFICATIONS

type C:

- *a)* Wire mesh window guards shall be Superior Wire & Iron Products, Inc. Type C, model No. 700C, 800C or 900C (specify).
- *b)* Constructed of 9 W. & M. gauge (.148) steel wire crimped and woven into 1½″ diamond mesh.
- *c)* Wire shall be let into channel frames and securely clinched.
- *d)* Frames, 1″ x ½″ x ⅛″ channel mortised and tenoned at intersections.
- *e)* All hardware necessary for proper installation to be furnished.
- *f)* Finish: one shop coat dipped steel grey gloss enamel.

type R:

- *a)* Wire mesh window guards shall be Superior Wire & Iron Products type R, model no. 700R, 800R or 900R (specify.)
- *b)* Constructed of 9 W. & M. gauge (.148) steel wire crimped and woven into 1½″ diamond mesh.
- *c)* Wires shall be machine clinched around frame.
- *d)* Frames, ⅜″ round rod.
- *e)* All hardware necessary for proper installation to be furnished.
- *f)* Finish: one shop coat dipped steel grey gloss enamel.

SUPERIOR WIRE & IRON PRODUCTS, Inc.
1051 East 76th Street • Chicago 19, Illinois
Phone: RAdcliffe 3-3456

22f/We

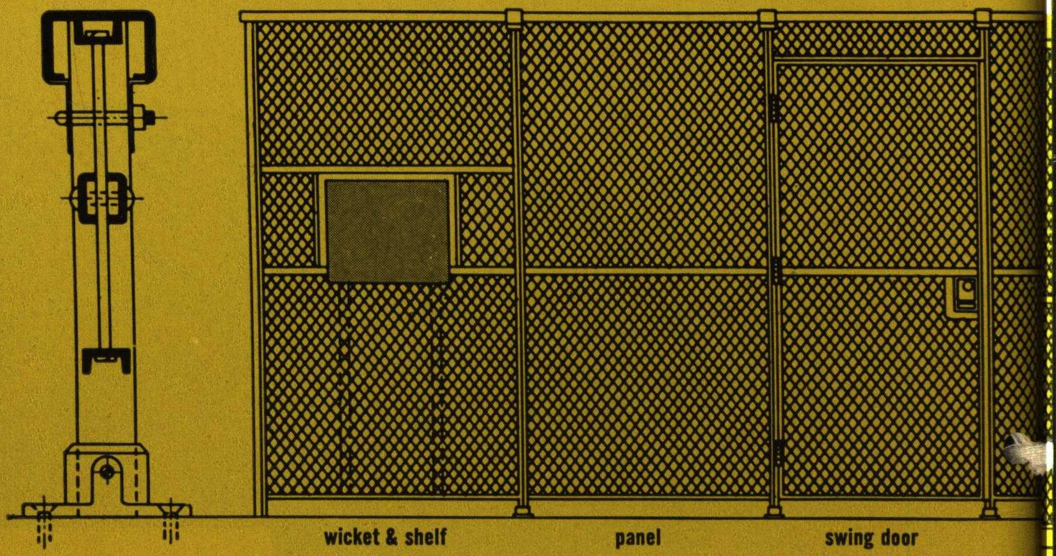
wire mesh partitions

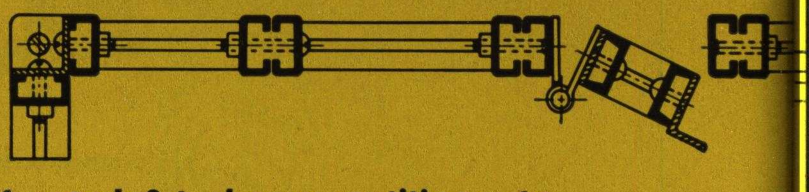
folding gates

WESTERN WIRE & IRON WORKS, INC.

chicago 8, illinois

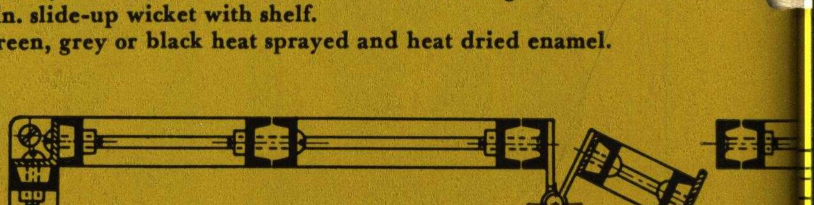
PARTITIONS • steel, aluminum or bronze





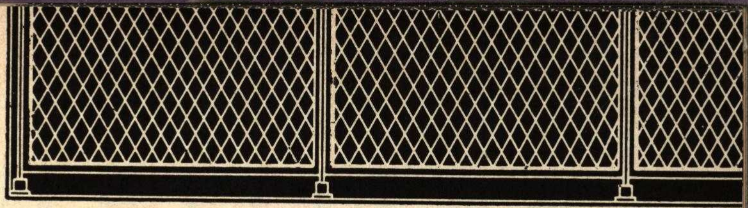
No. 150 PARTITION *for stock & tool room partitions, etc.*

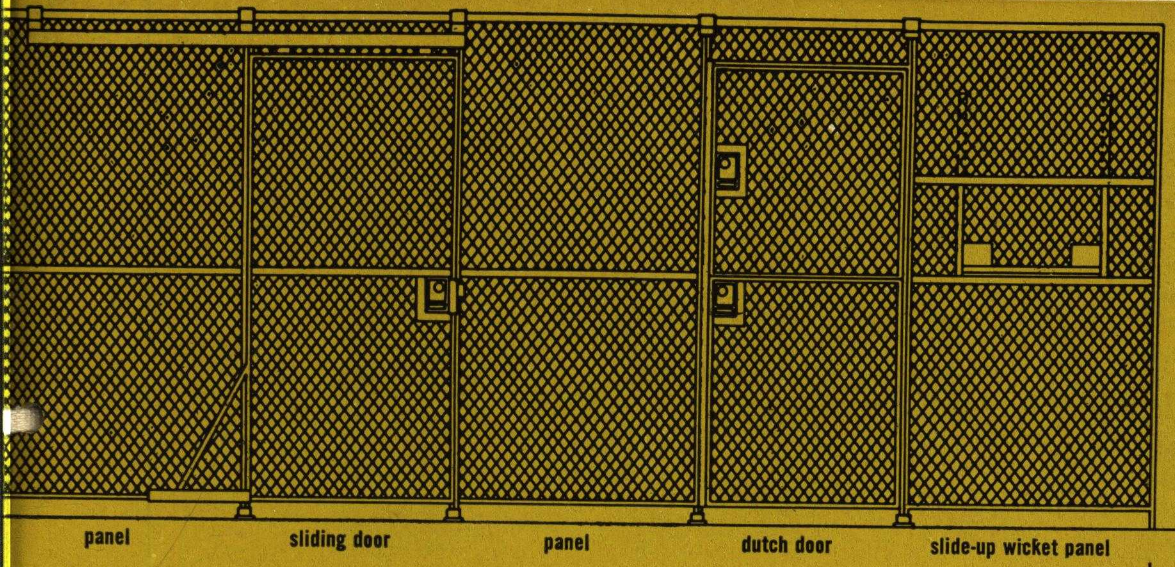
stock panels	5 ft. wide by 8, 10 or 12 ft. high; all panels have 3 in. legs.
filler panels	made to required widths; all panels are interchangeable.
swing doors	3 and 4 ft. widths by 7 ft. high in stock; doors to be banded, with three 3½ in. hinges and No. 100W bronze cylinder lock.
sliding doors	3, 4 and 5 ft. widths by 7 ft. high in stock; 1½x½ in. channel frame, banded, with No. 158 ball-bearing hangers and No. 111W bronze cylinder lock.
dutch doors	3 ft. by 7 ft., banded; with shelf; each half with 2 hinges and 100W lock.
wicket & shelf	24x15 in. slide-up wicket with shelf.
finish	olive green, grey or black heat sprayed and heat dried enamel.

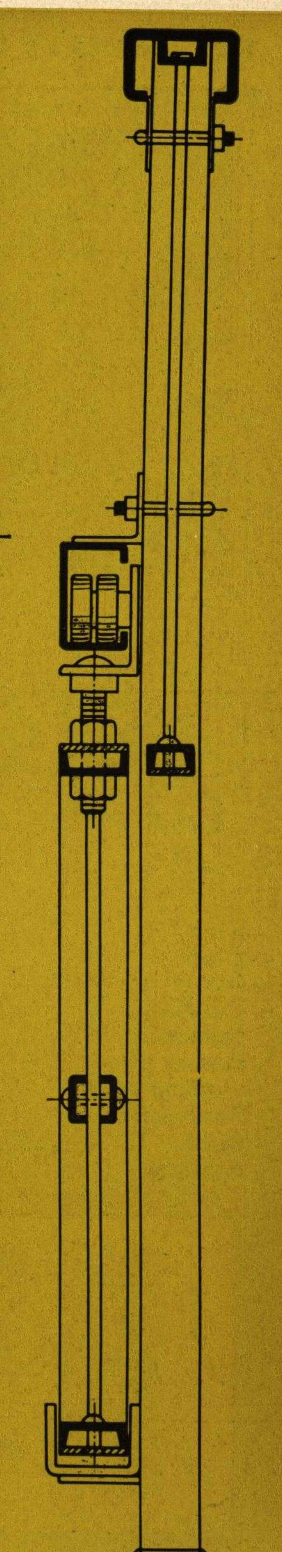


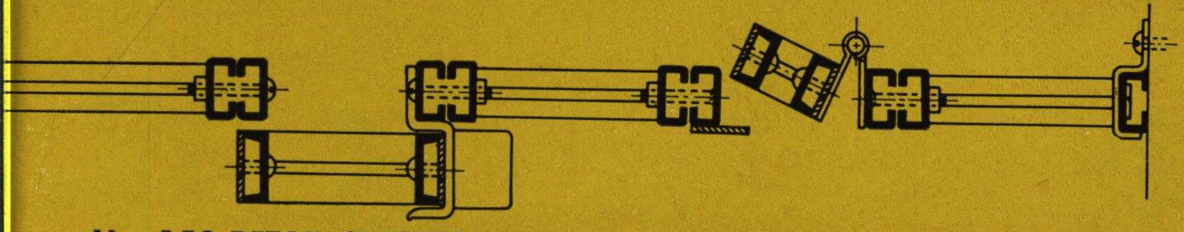
No. 210 PARTITION *the most economical partition*

stock panels	5 ft. by 7 ft. in stock; panel height includes 3 in. legs.
filler panels	made to required widths; all panels are interchangeable.
swing doors	3 and 4 ft. widths by 6 ft. 6 in. high in stock; banded, with three 3½ in. hinges and No. 100W bronze cylinder lock.
sliding doors	3, 4 and 5 ft. wide by 6 ft. 6 in. high, in 1½x½ in. channel framing, banded; No. 158 ball-bearing hangers; No. 111W bronze cylinder lock.
dutch doors	3 ft. by 6 ft. 6 in.; banded; each half with two hinges and 100W lock.
wicket & shelf	24x15 in. slide-up wicket with shelf.
finish	olive green, grey or black heat sprayed and heat dried enamel.



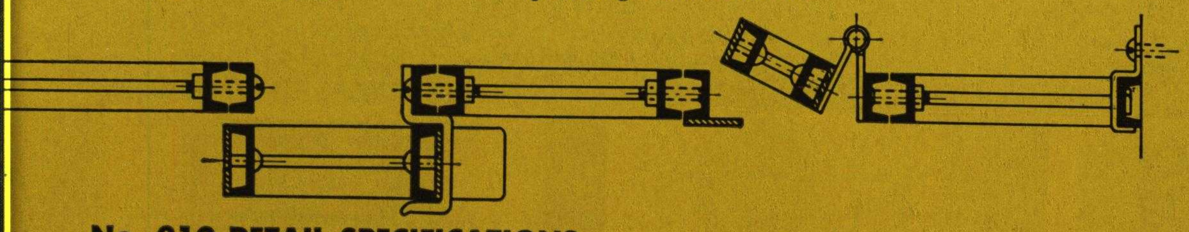






No. 150 DETAIL SPECIFICATIONS

wire	**No. 10 W&M gauge**	triple crimped, Machine Woven and press rolled.
mesh	**1½ in. diamond**	wires clinched into frame and ends welded 24 in. o.c.
vert. frame	**1¼x⅝ in.**	cold rolled C channel.
horiz. frame	**1x½ channel**	tenoned and welded at corners.
ctr. reinf.	**1x⅜ dbl. channel**	riveted thru mesh at 3 ft. 6 in. from floor, welded to frame.
top rail	**2¼x1⁵⁄₁₆ in.**	cold rolled C channel with E-Z clamps for installation.
corner post	**1¼x1¼ in. angle**	with holes both sides to fit panels.
floor shoes	**1¼ in. square**	cast shoes, with set screw for leveling.
bracing	**none**	bracing is not included.

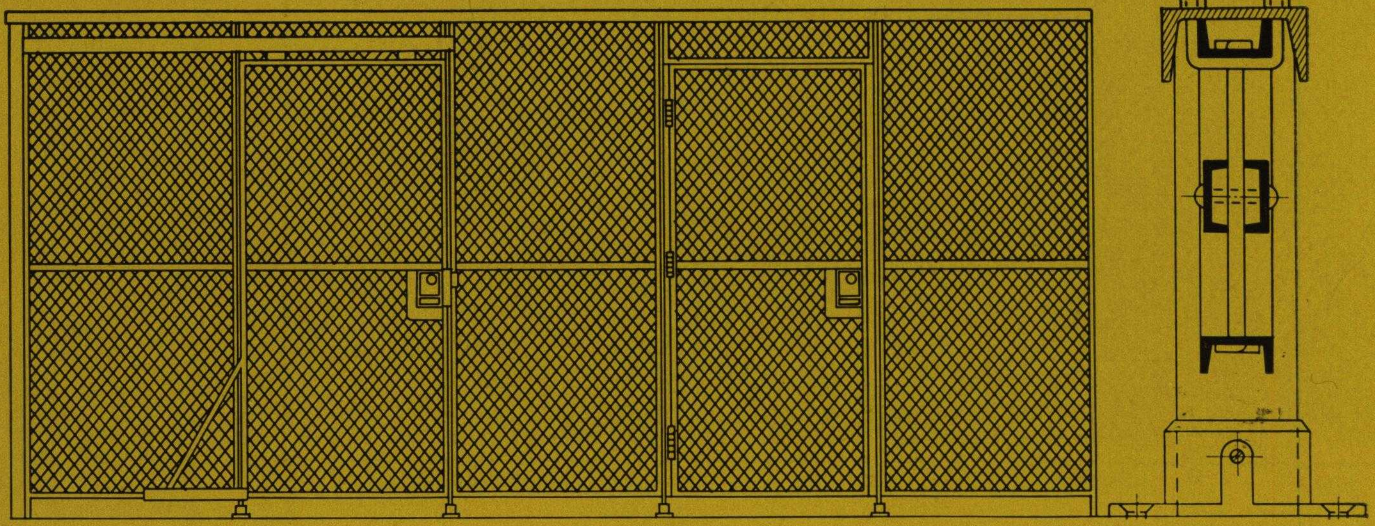


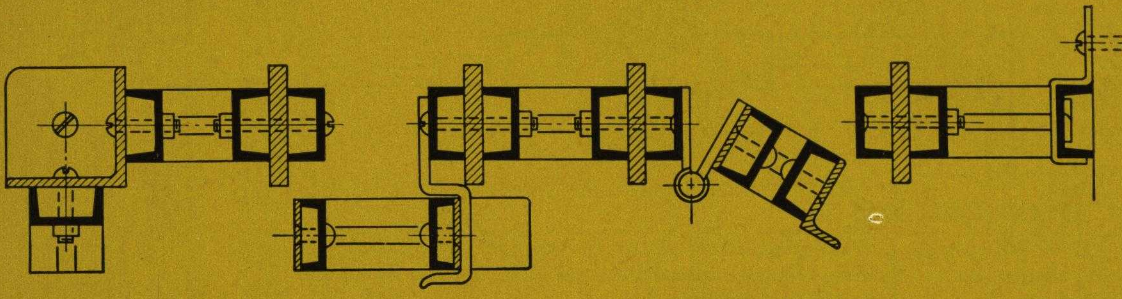
No. 210 DETAIL SPECIFICATIONS

wire	**No. 10 W&M gauge**	triple crimped, Machine Woven and press rolled.
mesh	**2 in. diamond**	wires clinched into frames and ends welded 24 in. o.c.
frame	**1x½x⅛ channel**	rolled steel, tenoned and riveted at corners.
ctr. reinf.	**1x⅜x⅛ channel**	double channel riveted through mesh 3 ft. 6 in. from floor.
top rail	**2¼x1⁵⁄₁₆ in.**	cold rolled C channel with E-Z clamps for installation.
cornerpost	**1x1x⅛ angle**	with holes both sides to fit panels.
floor shoes	**1 in. square**	cast shoes, with set screws for leveling.
bracing	**none**	bracing is not included.

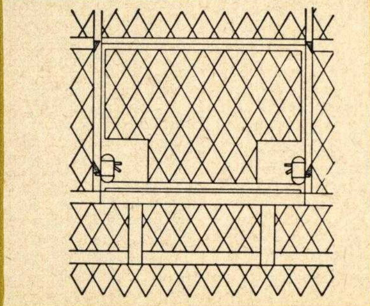
PARTITIONS • steel, aluminum or bronze

No. 206 HEAVY DUTY PARTITION *for industrial, restricted and institutional use*

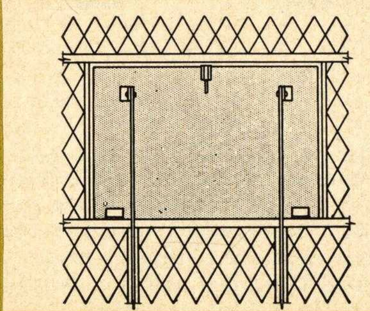




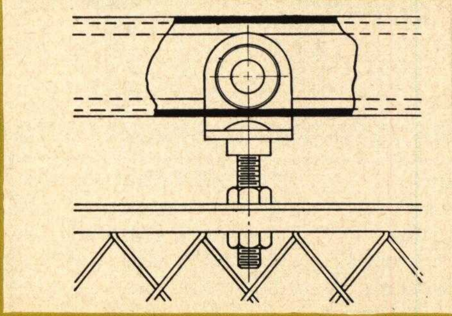
wire	**No. 6 W&M gauge**	triple crimped, Machine Woven and press rolled.
mesh	**2 in. diamond**	wires clinched in frames and ends welded 24 in. o.c.
frame	**1½x¾x⅛ channel**	tenoned and welded at corners.
ctr. reinf.	**1½x½x⅛ channel**	double channels riveted through mesh 3 ft. 6 in. from floor.
top rail	**3 in. 4.1# channel**	heavy channel for rigidity, bolted to panels.
corner post	**2½x2½ in. angle**	with holes both sides to fit panels.
vertical bars	**2½x⅜ in. bar**	between all panels for stiffness.
floor shoes	**2½ x ⅜ in.**	cast shoes, with set screw for leveling.
finish		olive green, grey or black heat sprayed, heat dried enamel.
bracing	**none**	bracing is not included.



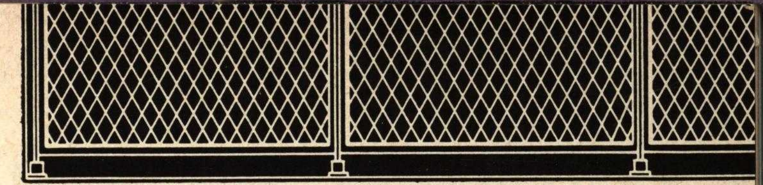
Slide-up wicket with spring catches.



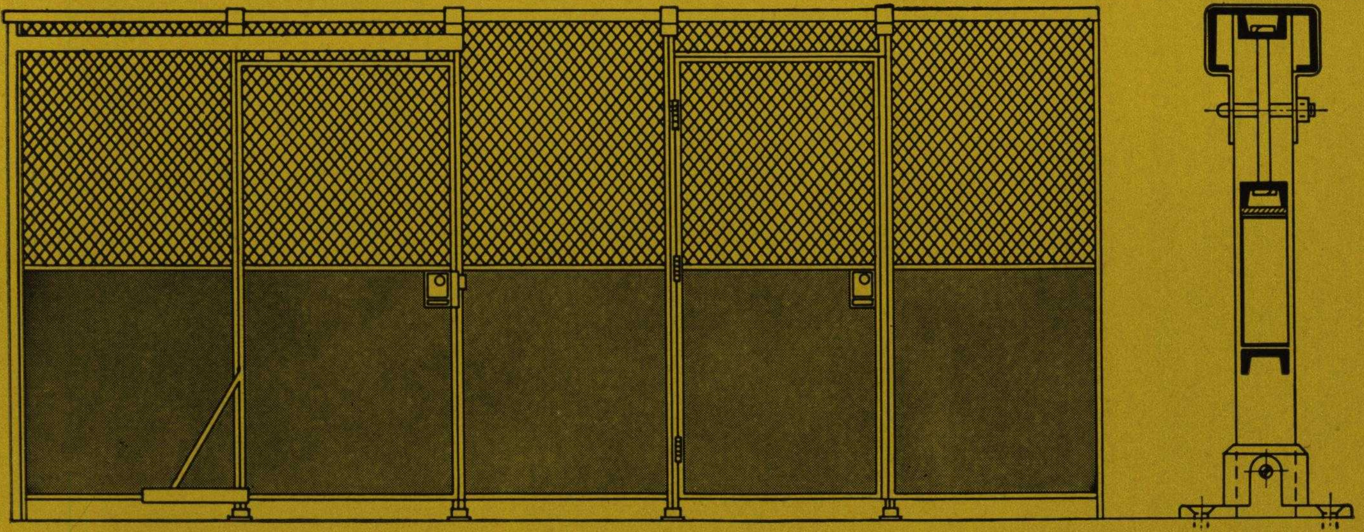
Combination wicket & shelf with spring catch.

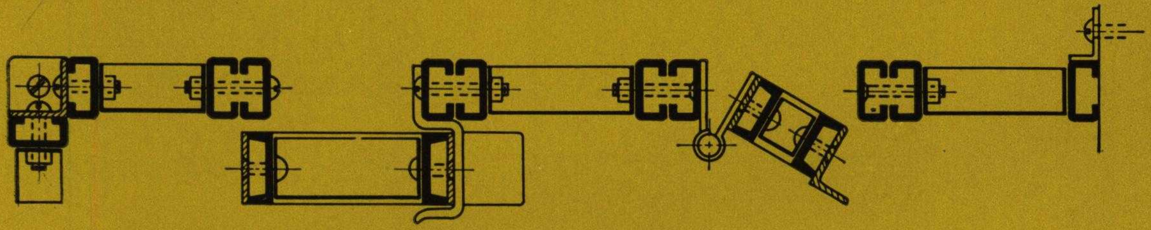


No. 158 standard ball-bearing hanger for all sliding doors.

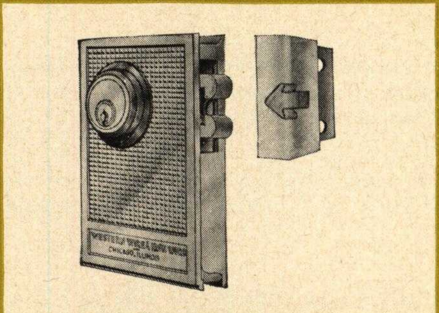


WIRE MESH PARTITIONS WITH SHEET METAL BASE

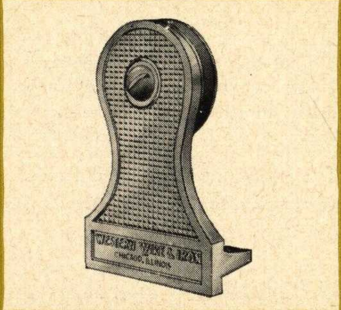




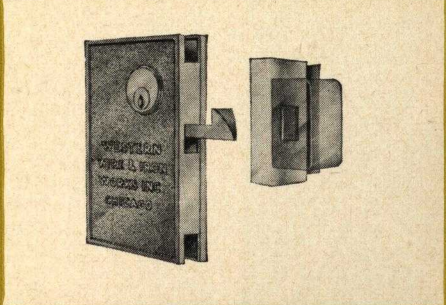
sheet metal base	No. 150, 210 or 206 partitions can be made with steel base. Add letter W to number.
panels	No. 16 gauge steel in lower section, to 3 ft. 6 in. above floor line. welded into framing channel on all sides.
doors	made to follow specifications of partition number ordered, with steel base.
mesh, frame, etc.	all follow specifications of partition number ordered.
PARTITIONS TO CEILING	any partition offered herein can be furnished to extend from floor to ceiling, or to any arbitrary height desired. details and finish are as shown in specifications for partition style ordered.



No. 106B Bankers Approved Sliding Door Lock—our make—All bronze. A superior lock with double latches. **No. 100B** matching lock is for swing door.

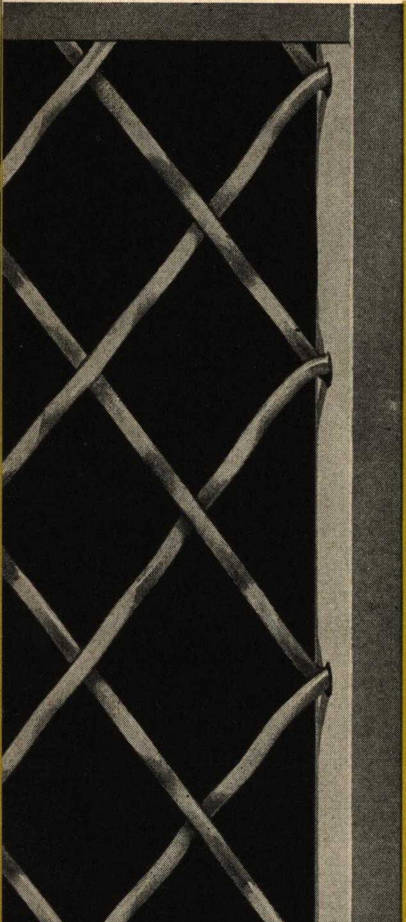


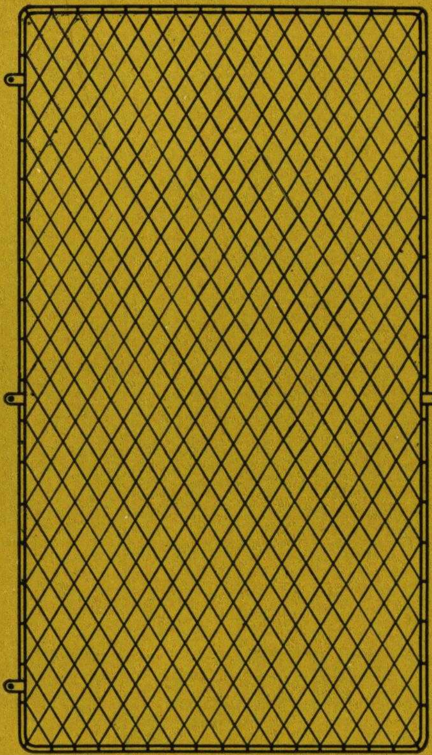
No. 110 Spee-D ball-bearing hanger.

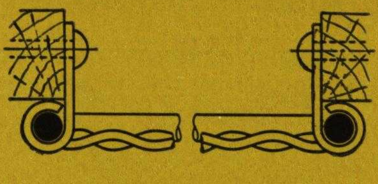


No. 111W All bronze Standard single latch lock. A very good lock at less cost. Well guarded. **No. 100W** matching lock is for swing door.

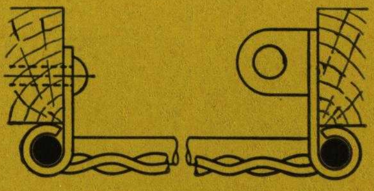
WINDOW GUARDS • steel, aluminum or bronze



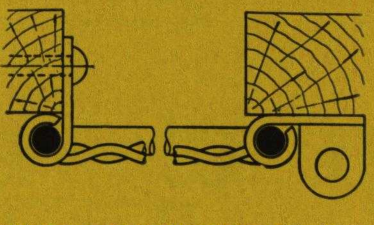




NO. 50-A STATIONARY



NO. 50-B LOCKING INSIDE



NO. 50-C LOCKING OUTSIDE

NO. 50 ROUND FRAME WINDOW GUARDS

Guards for prevention of glass breakage or easy entry are usually made of 1½ in. diamond mesh, No. 10 W&M gauge wire, clinched to ⅜ in. round rod frame.

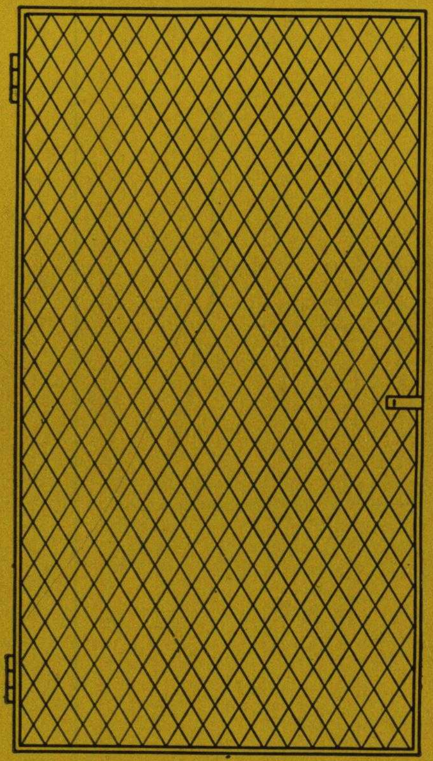
The round rod frame is generally used for outside installation as the round rod does not hold rain or moisture.

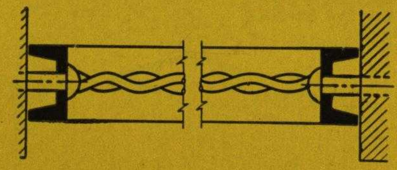
Other sizes of mesh and wire can be made to suit requirements. Mesh can be furnished from ¾ in. diamond to 3 in. diamond, and No. 14 W&M gauge wire to No. 6 W&M gauge wire.

No. 10 W&M gauge wire is standard for windows of dwellings, factories, etc., and No. 6 is required for institutions, hospitals and detention areas. Guards 5 ft. high and over are made with horizontal ⅜ in. round rod stiffener welded to frame at ends.

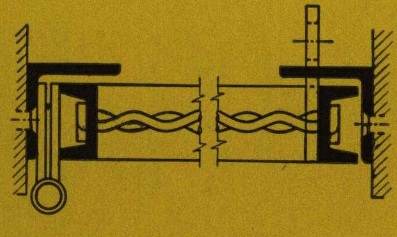
No. 50-A Stationary guards are furnished with hinge clips on frame to provide for fastening with screws or bolts. Clips can be turned to allow fastening on inside or outside of opening.

No. 50-B or 50-C Hinged guards are provided with hinge clips on one side and hinge hasp for padlock on other side, arranged to lock outside or inside. Can be made with 3-point locking bar on large guards.

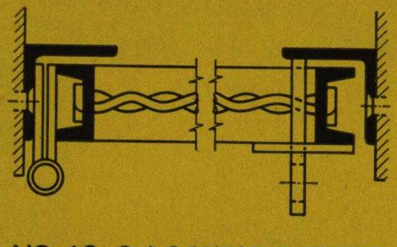




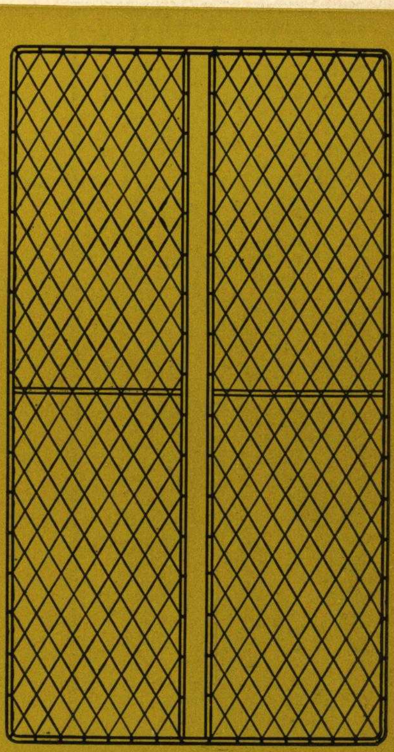
NO. 40-A STATIONARY



NO. 40-B LOCKING INSIDE



NO. 40-C LOCKING OUTSIDE



Gymnasium Window Guard

NO. 40 CHANNEL FRAME WINDOW GUARDS

Window guards are also made with channel framing, for inside or outside installation.

Standard specification is 1½ in. diamond mesh, No. 10 W&M gauge wire, clinched into 1x½x⅛ in. channel frame.

Other sizes of mesh and wire can be made to suit requirements. Guards can be made from ¾ in. diamond mesh to 3 in. diamond mesh, and No. 14 W&M gauge wire to No. 6 W&M gauge wire, with framing to suit.

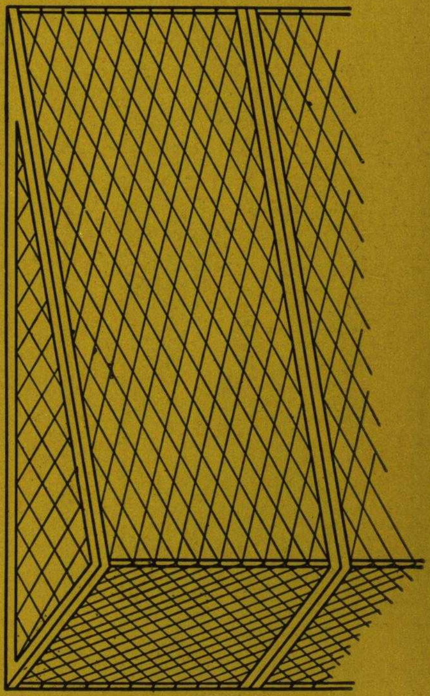
No. 40-A stationary guards have holes in framing to provide for fastening with screws or bolts.

No. 40-B or 40-C hinged guards are made with channel hinge bar, or with angle hinge and strike bars with hinges on one side and hasp on opposite side for padlocking. Can be made to lock either on outside or inside.

Guards 5 ft. high and over are made with double channel horizontal stiffeners riveted through mesh and with ends welded to frame.

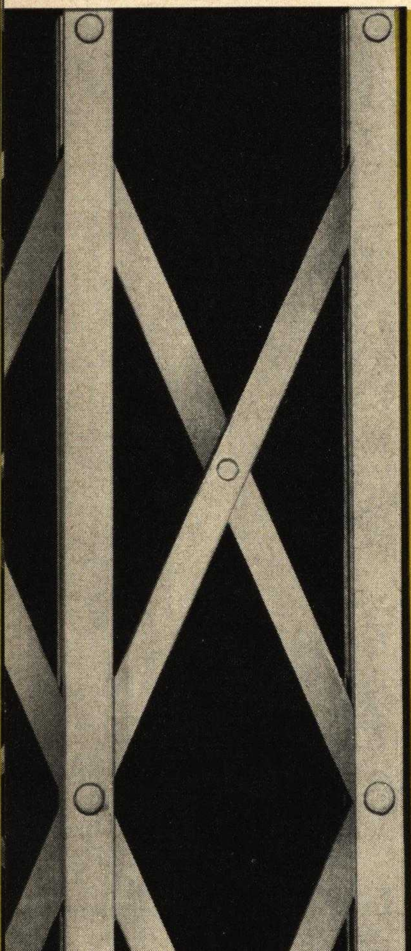
Gymnasium guards, shown at upper right, are made with vertical slot at center to allow use of window pole to raise or lower sash. Made with round frame or channel frame as required.

Steel sash window guards, at lower right, are made with angle and round rod framing, and built out to allow hinged section of window to swing open. Guards are hinged at top with locking device at bottom.

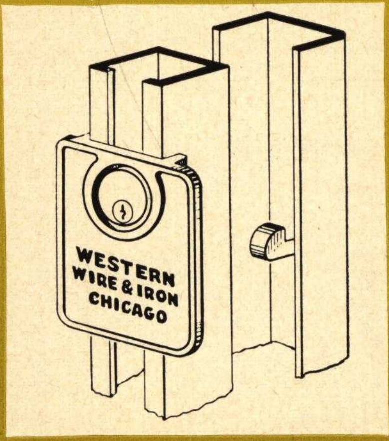


Steel Sash Window Guard

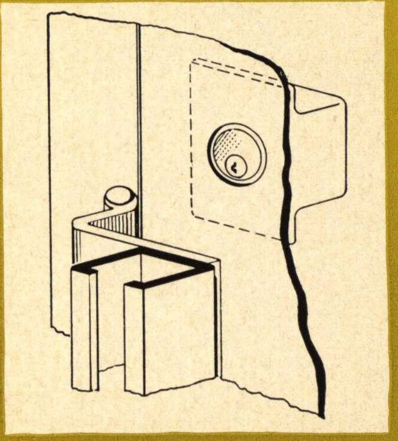
FOLDING GATES • steel, aluminum or bronze



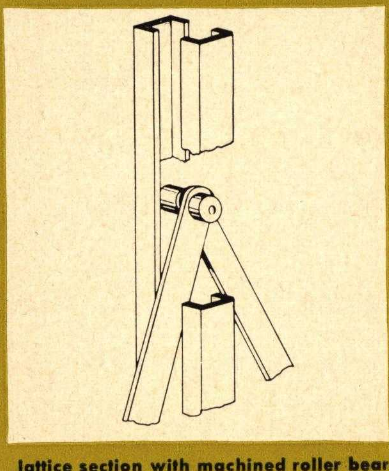
GATE DETAILS



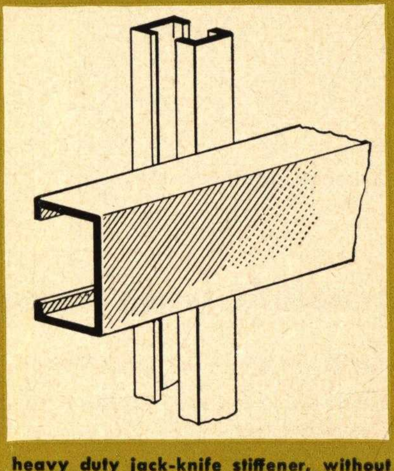
all-bronze Gate lock with pull handles—cylinder accessible from both sides



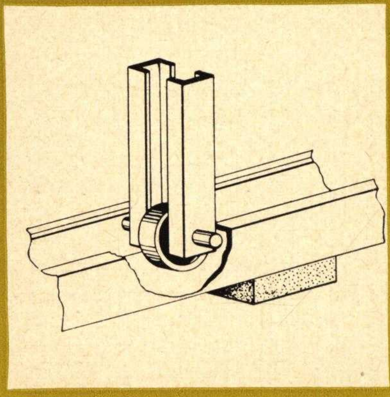
heavy duty offset hinge for Type S cabinet



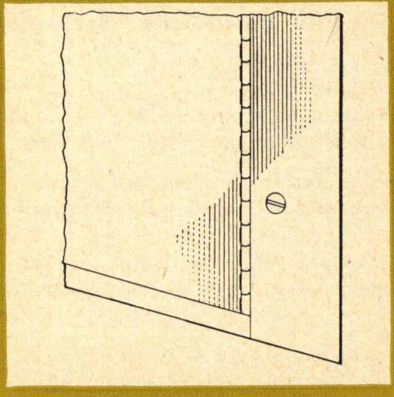
lattice section with machined roller bearings and brass washers to minimize friction



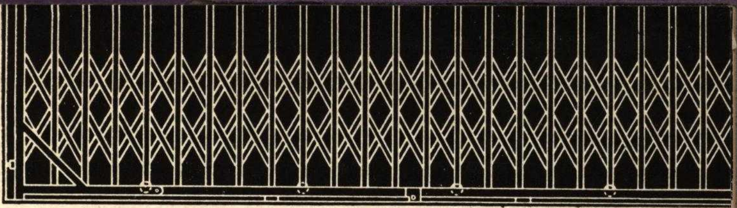
heavy duty jack-knife stiffener, without sharp edges



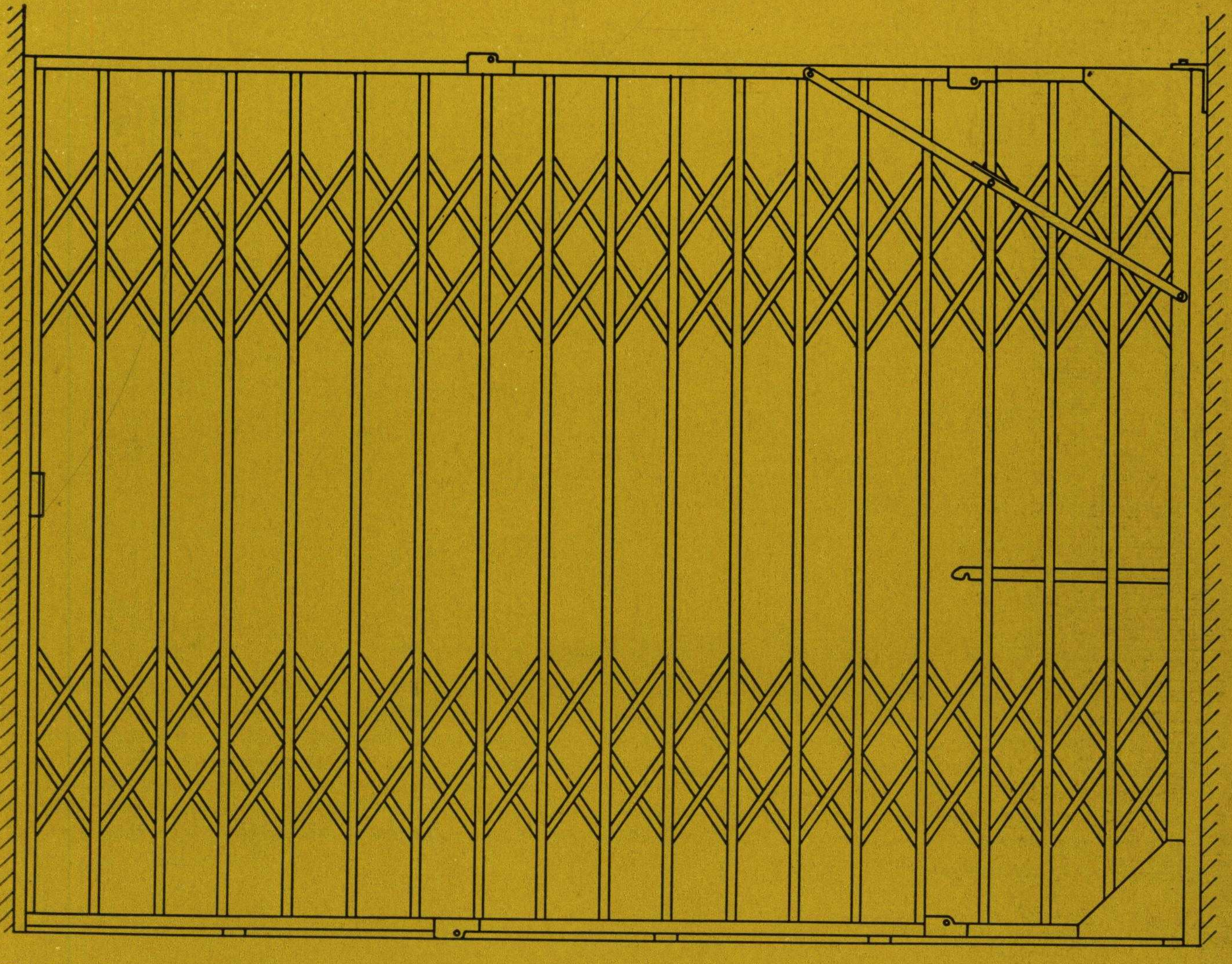
ball-bearing rollers in tracks; gate cannot be disengaged from tracks



cabinet hinge is continuous concealed type, giving attractive beaded appearance



No. 810 SINGLE GATE



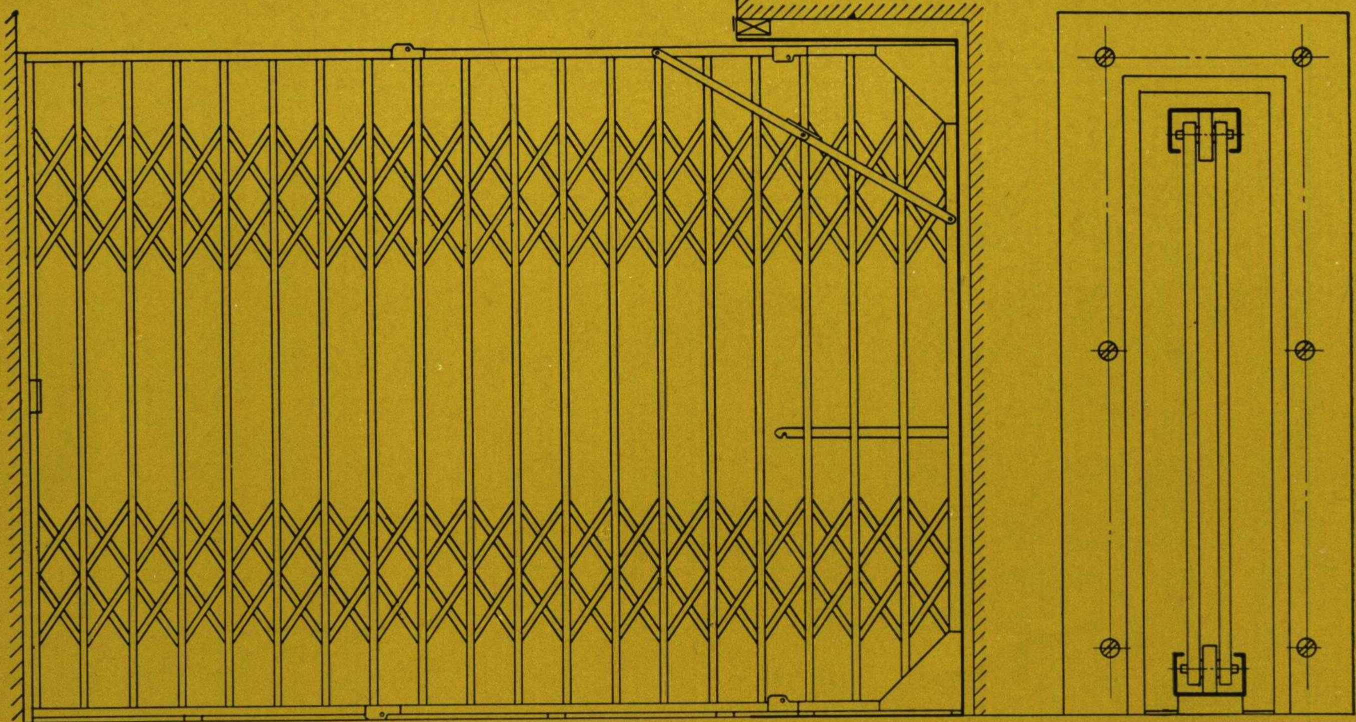
The No. 810 Gate is particularly used in school corridors and similar locations where a rigid installation is desired; and which is effected by both top and bottom folding tracks.

vertical bars	double ¾x⅜x⅛ cold rolled channels on 6 in. maximum centers; *ends of all channels extend into both top and bottom tracks for maximum rigidity.*
lattices	³⁄₁₆x⅝ in. flat bars with machined rollers to engage in vertical channels and large machined roller bearings to operate in end bars, brass washers throughout.
end bars	1⅝ in. square cold rolled C section to receive roller bearings of lattices and all-bronze cylinder lock, pivot mounted to lock against wall with cylinder lock.
tracks	cold formed C sections for top and bottom tracks with gusset plates; automatic hold-up arm on top track, non-marring rubber floor blocks and ball-bearing rollers at bottom track.
locks	our built-in all-bronze cylinder lock takes standard or masterkeyed cylinder; locking action takes place inside case thus preventing picking. cabinet lock is all-bronze, with cast case, and takes standard or Mk cylinders.
finish	standard heat sprayed and heat dried finish coat of beige, grey or olive green enamel.

recommended height: 5 ft. minimum to 7 ft. 6 in. maximum.
recommended width: single 12 ft. Use pairs for wider openings to 16 ft. (specify as No. 810-P)

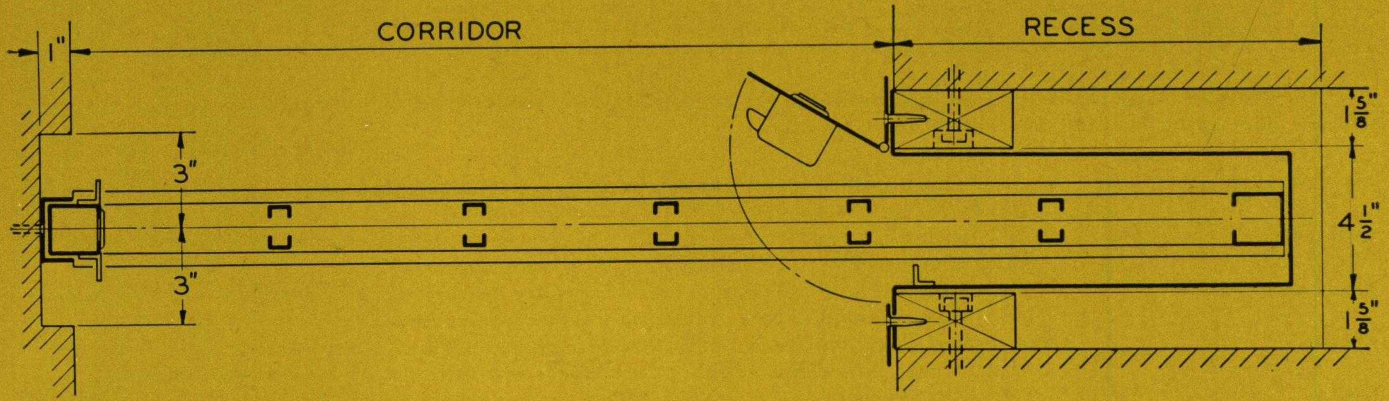
FOLDING GATES • steel, aluminum or bronze

No. 812 FOLDING GATE AND DEEP CABINET



specifications—gate to be No. 812 folding gate as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double 3/4 in. vertical cold rolled channels on 6 in. maximum centers, all extending into top and bottom folding C section tracks—tracks to have gussets—top track to have automatic hold-up arm—bottom track to have non-marring rubber floor blocks—lattices to be 3/16x5/8 in. flat bars with machined rollers and brass washers—cabinet to be deep type, made of No. 14 gauge steel all welded—door to be No. 11 gauge plate—continuous concealed type hinge—trim 1/8x2 in. flat bar—keeper recessed (face mounted if specified)—locks for gate and cabinet to be WW&IW all-bronze cylinder locks to take standard or masterkeyed cylinders—finish to be standard heat sprayed and heat dried enamel in olive green, grey or beige.

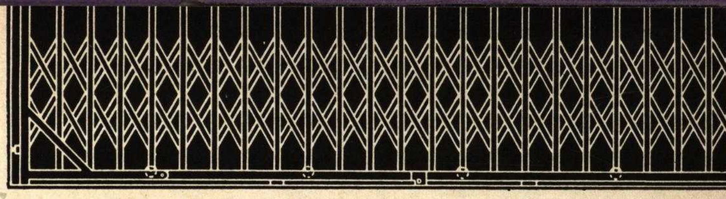
For recess sizes see table below.



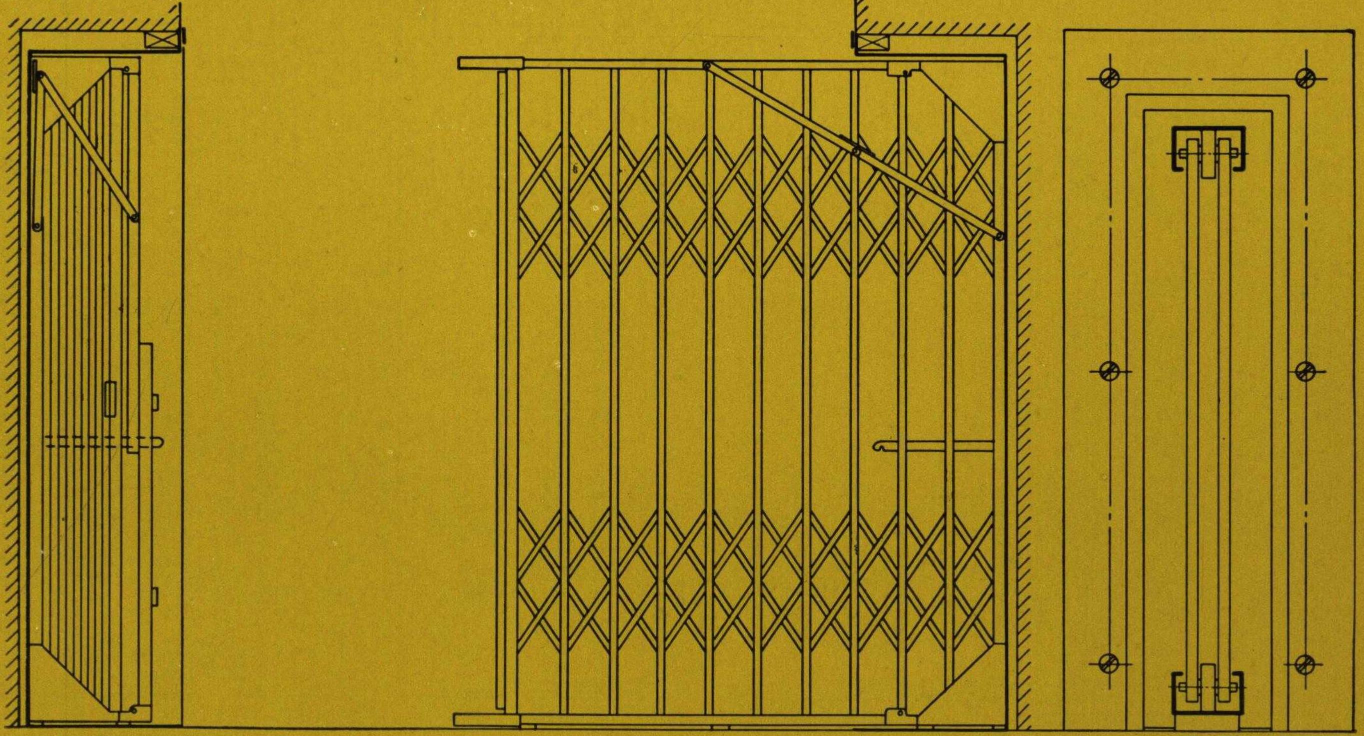
Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'7	1'8	1'11	2'0	2'4	2'7	2'9	2'11	3'0

recess height—gate height plus 1 in.

recommended gate height: 5 ft. minimum to 7 ft. 6 in. maximum.

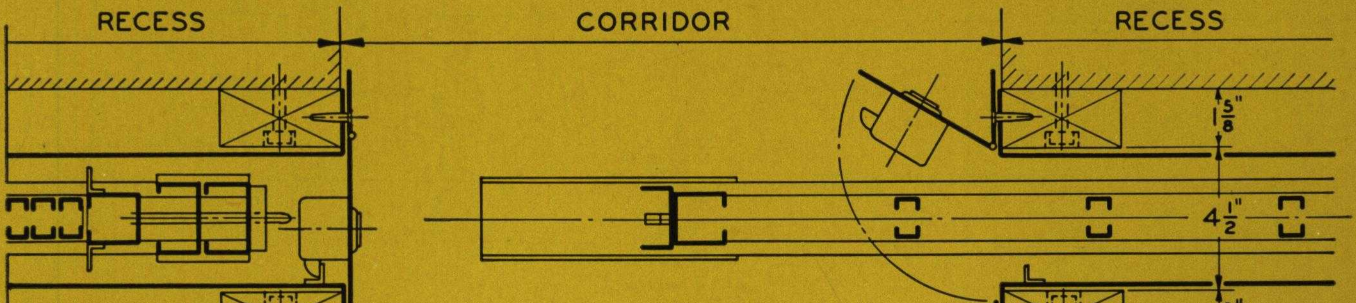


No. 812-P FOLDING GATES AND DEEP CABINETS *in pairs*



specifications—pair of gates to be No. 812-P as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double 3/4 in. vertical cold rolled channels on 6 in. maximum centers, all extending into top and bottom folding C section tracks—tracks to have gussets—top tracks to have automatic hold-up arms—bottom tracks to have non-marring rubber floor blocks—lattices to be 3/16x5/8 in. flat bars with machined rollers and brass washers—cabinets to be deep type, made of No. 14 gauge steel all welded—door to be No. 11 gauge plate—continuous concealed type hinges—trim 1/8x2 in. flat bar—locks for gates and cabinets to be WW&IW all-bronze cylinder locks to take standard or masterkeyed cylinders—finish to be standard heat sprayed and heat dried enamel in olive green, grey or beige.

For recess sizes see table below.



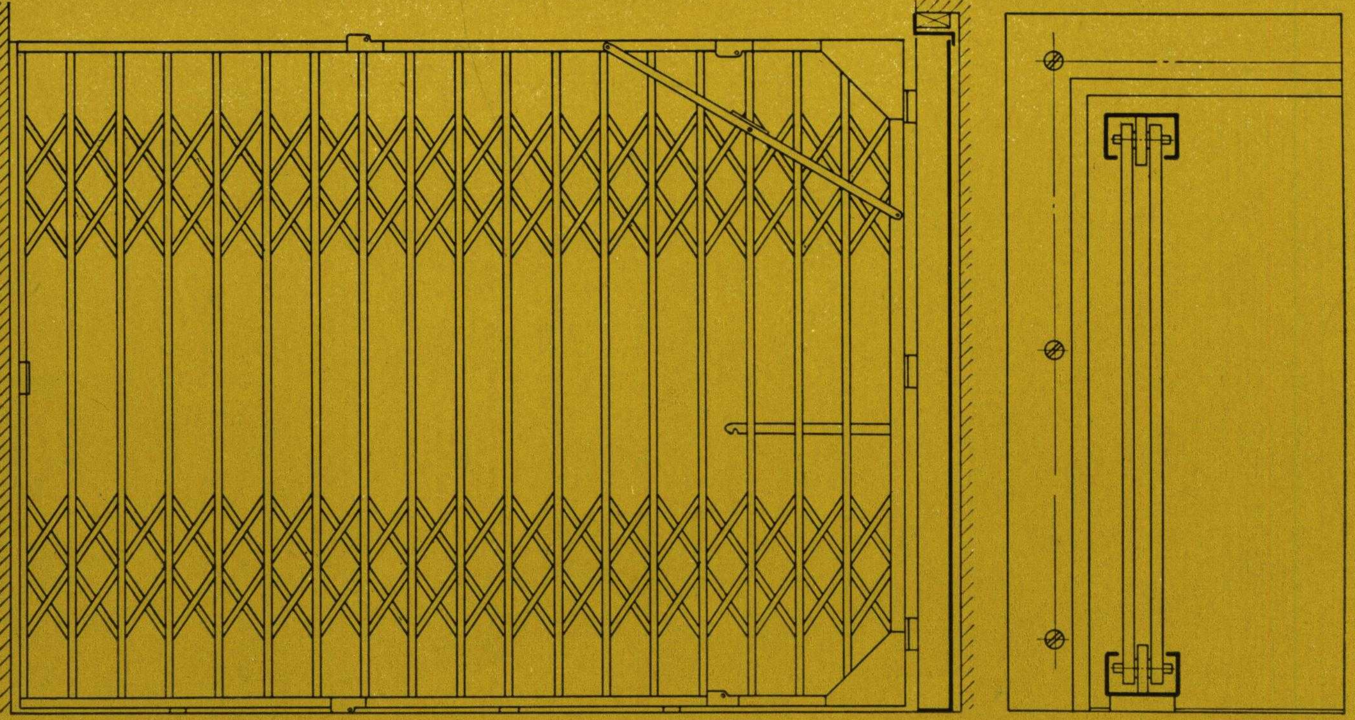
Corridor—Feet	8'0	9'0	10'0	11'0	12'0	13'0	14'0
Recess—Ft. In.	1'6	1'7	1'8	1'9	1'10	1'11	2'0

recess height—gate height plus 1 in.

recommended gate height: 5 ft. minimum to 7 ft. 6 in. maximum.

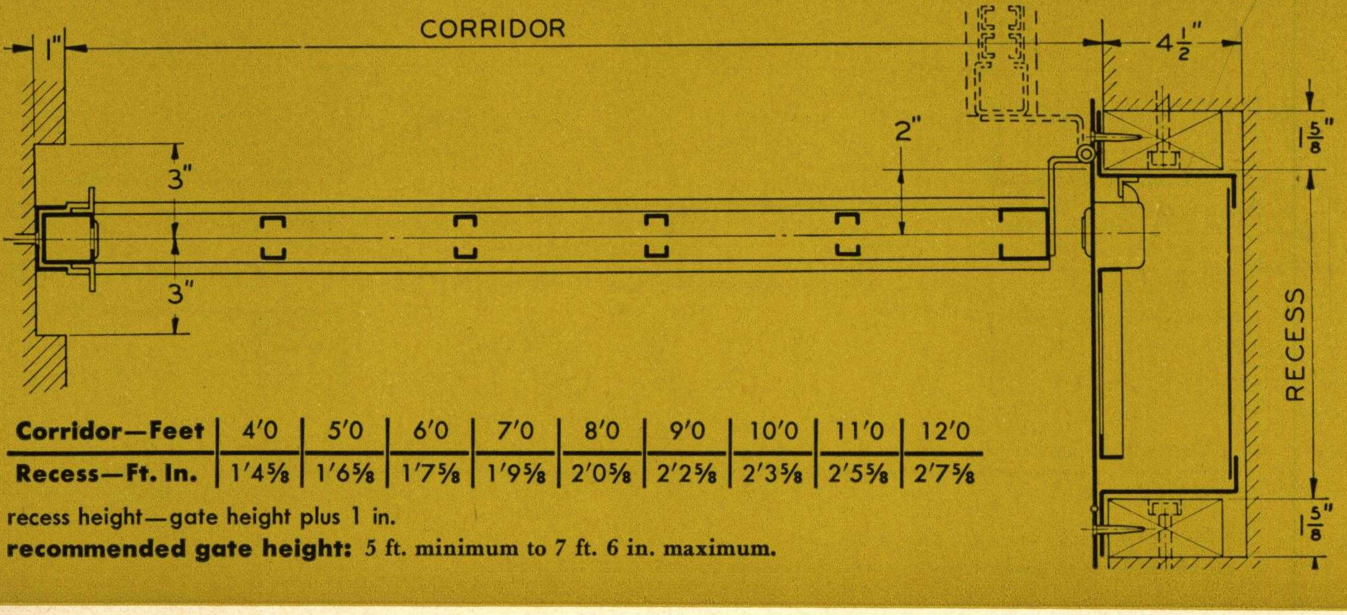
FOLDING GATES • steel, aluminum or bronze

No. 813 FOLDING GATE AND SHALLOW CABINET



specifications—gate to be No. 813 folding gate as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double ¾ in. vertical cold rolled channels on 6 in. maximum centers, all extending into both top and bottom folding C section tracks—tracks to have gussets—top track with automatic hold-up arm—bottom track with non-marring rubber floor blocks and ball-bearing rollers—lattices to be 3/16x⅝ flat bars with machined rollers and brass washers—cabinet to be shallow type made of 5/32 in. steel plate Z sections with No. 16 ga. back, all welded—door to be ⅛ in. steel plate reinforced with ¾x¾x⅛ angle frame—continuous concealed type hinge—trim ⅛x2 in. flat bar—gates hung on heavy duty hinges allowing cabinet door to close when gate is extended or collapsed. Locks to be WW&IW all-bronze to take standard or Mk cylinders—finish to be standard heat sprayed and heat dried enamel in olive green, grey or beige.

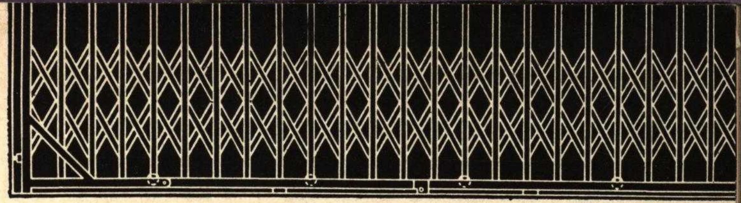
For recess sizes see table below.



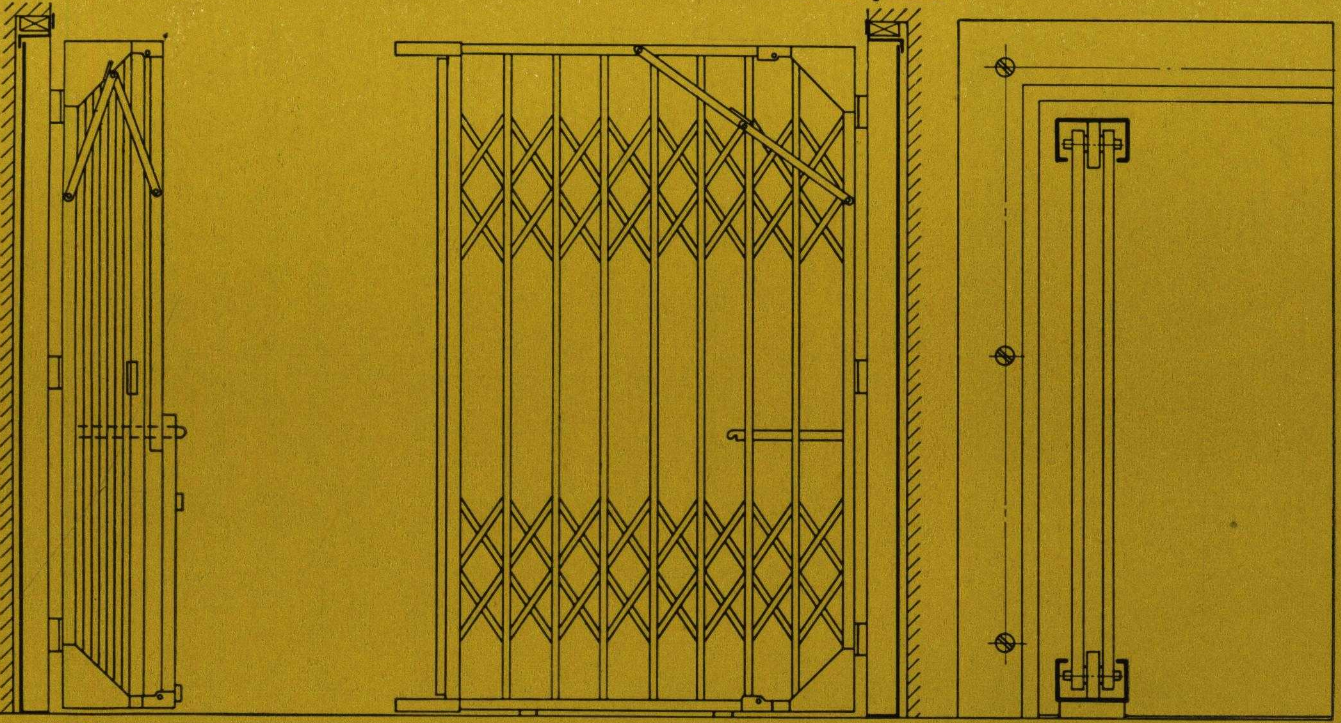
Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'4⅝	1'6⅝	1'7⅝	1'9⅝	2'0⅝	2'2⅝	2'3⅝	2'5⅝	2'7⅝

recess height—gate height plus 1 in.

recommended gate height: 5 ft. minimum to 7 ft. 6 in. maximum.

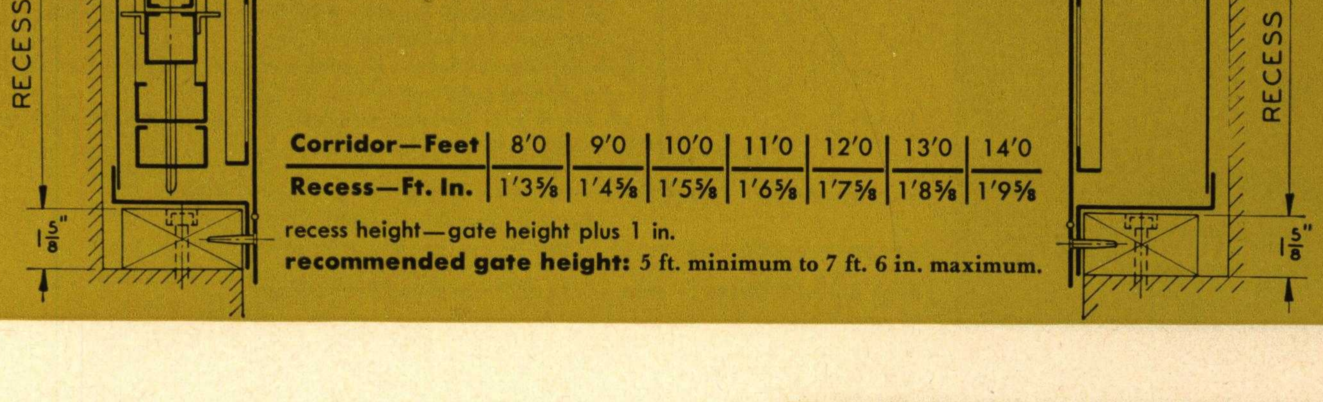


No. 813-P FOLDING GATES AND SHALLOW CABINETS *in pairs*



specifications—gates to be No. 813-P folding gates as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double ¾ in. vertical cold rolled channels on 6 in. maximum centers, all extending into top and bottom folding C section tracks—tracks to have gussets—top track to have automatic hold-up arm—bottom track to have non-marring rubber floor blocks—lattices to be 3/16x⅝ in. flat bars with machined roller bearings and brass washers—cabinets to be shallow type made of 5/32 in. steel plate Z sections with No. 16 ga. back, all welded—door to be ⅛ in. steel plate reinforced with ¾x¾x⅛ in. angle frame—continuous concealed type hinge—trim ⅛x2 in. flat bar—gates hung on heavy duty hinges allowing cabinet doors to close when gates are in extended or collapsed position—locks to be WW&IW all bronze to take standard or Mk cylinders—finish heat sprayed and heat dried standard coat of olive green, grey or beige enamel.

For recess sizes see table below.

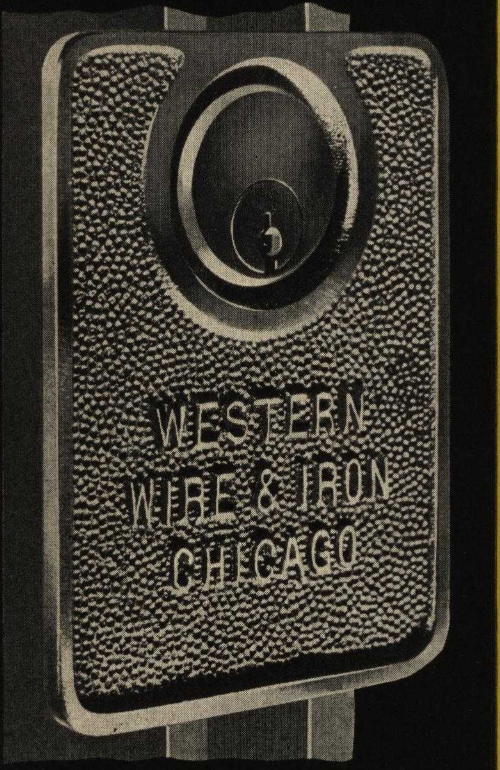


Corridor—Feet	8'0	9'0	10'0	11'0	12'0	13'0	14'0
Recess—Ft. In.	1'3⅝	1'4⅝	1'5⅝	1'6⅝	1'7⅝	1'8⅝	1'9⅝

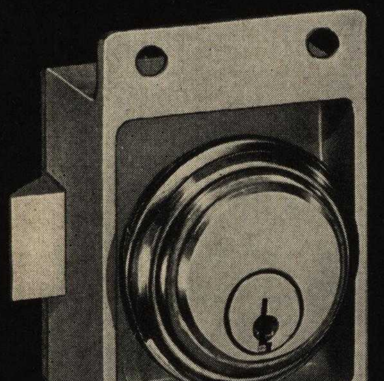
recess height—gate height plus 1 in.

recommended gate height: 5 ft. minimum to 7 ft. 6 in. maximum.

FOLDING GATES • steel, aluminum or bronze

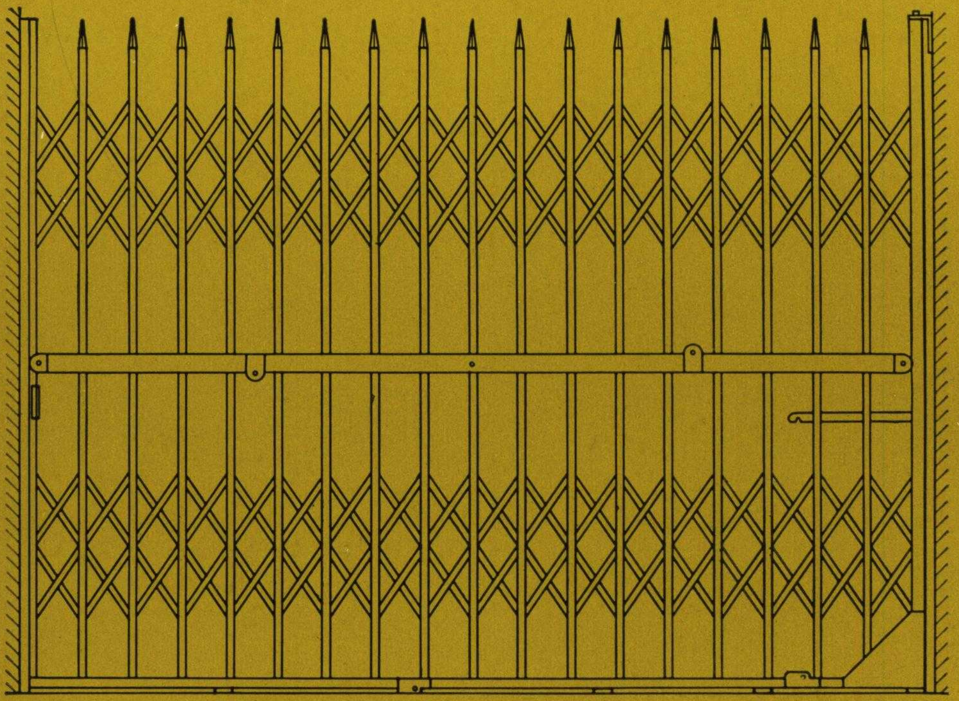


bronze cylinder lock
for folding gates



bronze cylinder lock
for cabinets

No. 820 FOLDING GATE

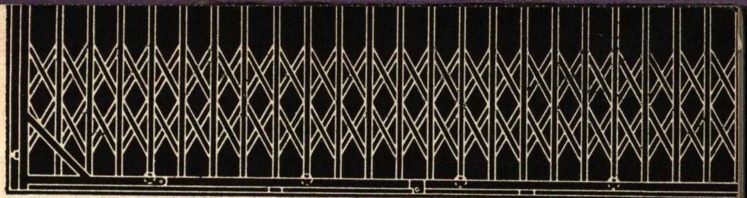


vertical bars	double ¾x⅜x⅛ in. cold rolled channels 6 in. maximum centers; *ends of all channels extend into bottom track providing maximum rigidity.*
pickets	cast aluminum alloy pickets of good design to improve appearance.
lattices	³⁄₁₆x⅝ in. flat bar with machined rollers to engage in vertical channels, and large machined roller bearings to operate in end bars. brass washers throughout.
end bars	1⅝ in. square cold rolled C section to receive roller bearings of lattices, and our all-bronze cylinder lock. pivot mounted to lock against wall with cylinder lock.
track	cold formed C section with self-locking tie bar and non-marring rubber floor blocks.
jack-knife	heavy duty jack-knife of cold rolled C section, which improves appearance and avoids sharp edges of angle or channel bar. opens and closes automatically with gate, allowing one man operation. specify jack-knife on gates over 5 ft. wide.
lock	our own built-in all bronze cylinder lock takes standard or masterkeyed cylinders; locking action takes place inside case thus avoiding picking. cabinet lock is all-bronze, with cast case, and takes standard or masterkeyed cylinders.
finish	standard heat sprayed and heat dried, finish coat of olive green, grey or beige enamel.

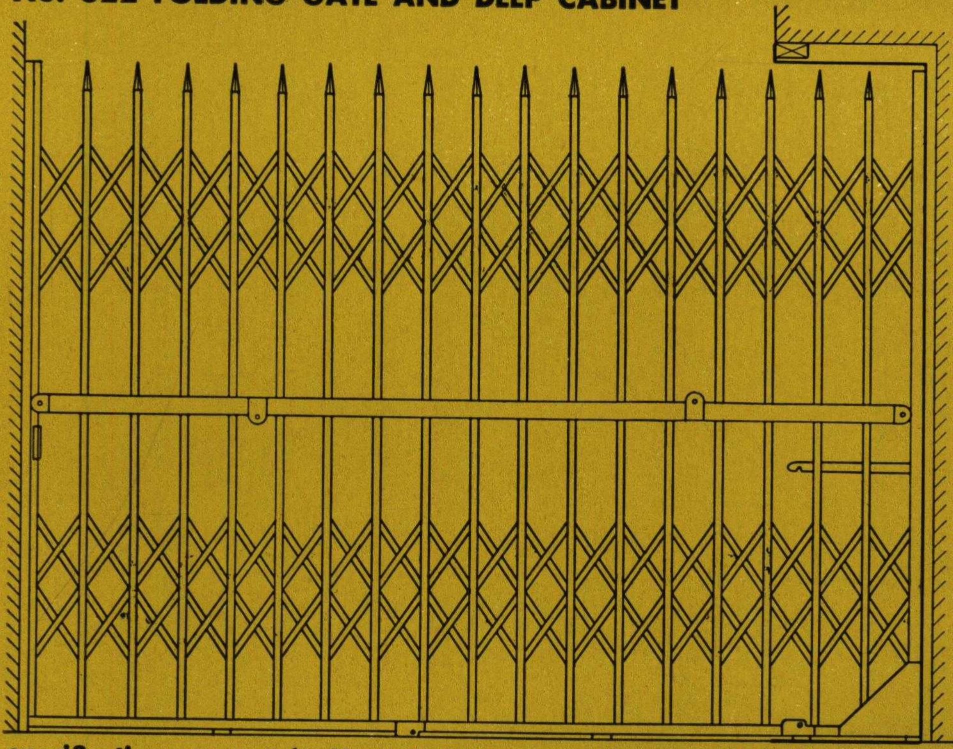
recommended height: 5 ft. minimum to 8 ft. has two rows lattices, over 8 ft. has three rows.

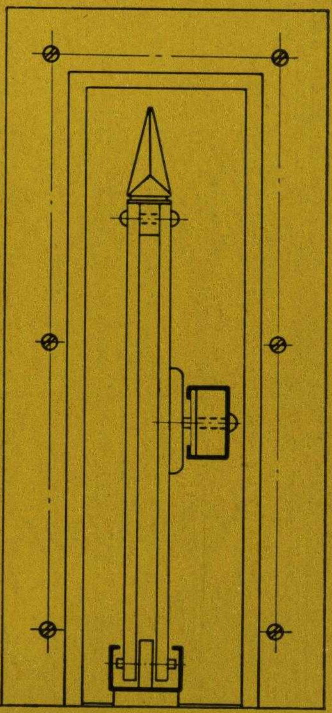
recommended width: 12 ft. maximum; not made in pairs.

No. 820-N gate: is same as No. 820 above without pickets.



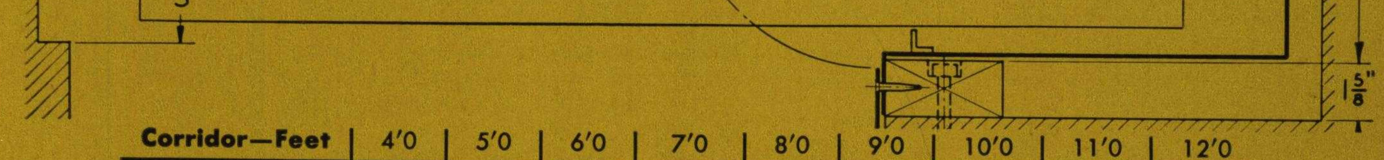
No. 822 FOLDING GATE AND DEEP CABINET





specifications—gate to be No. 822 folding gate as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of $\frac{3}{4}$ in. double vertical cold rolled channels on 6 in. maximum centers, all extending into bottom fold-up C section track—track to have gussets and non-marring rubber floor blocks—lattices to be $\frac{3}{16}$x$\frac{5}{8}$ in. flat bars with machined roller bearings and brass washers—heavy duty jack-knife of cold rolled C section—cabinet to be deep type made of No. 14 gauge steel all welded—door to be No. 11 gauge plate—continuous concealed type hinge—trim $\frac{1}{8}$x2 in. flat bar—keeper recessed (face mounted if specified)—locks for gate and cabinet to be WW&IW all-bronze cylinder locks to take standard or masterkeyed cylinders—finish to be standard heat sprayed & heat dried enamel in olive green, grey or beige.

For recess sizes see table below.



Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'4	1'7	1'9	1'11	2'1	2'3	2'6	2'8	2'9

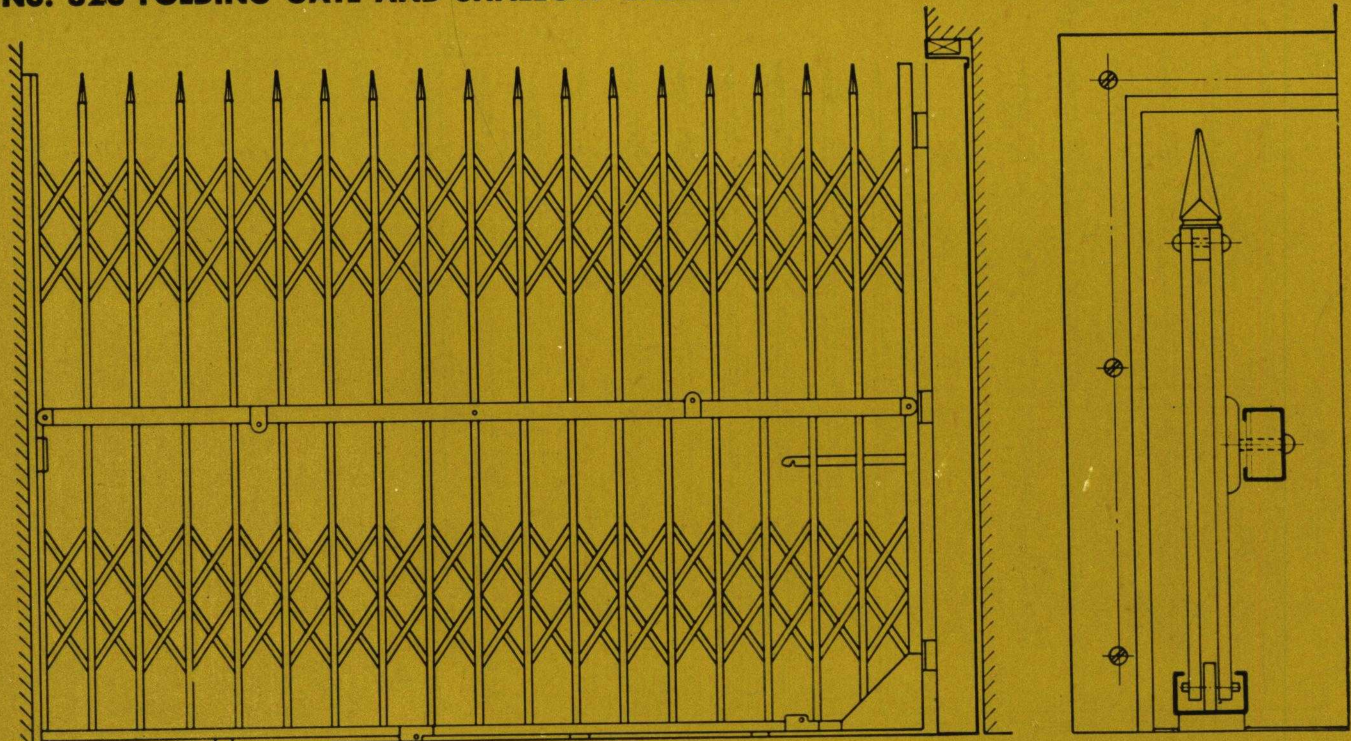
recess height—gate height plus 1 in.

recommended height: 5 ft. minimum to 8 ft. has two rows lattices, over 8 ft. has three rows.

No. 822-N gate: is the same as No. 822 above without pickets.

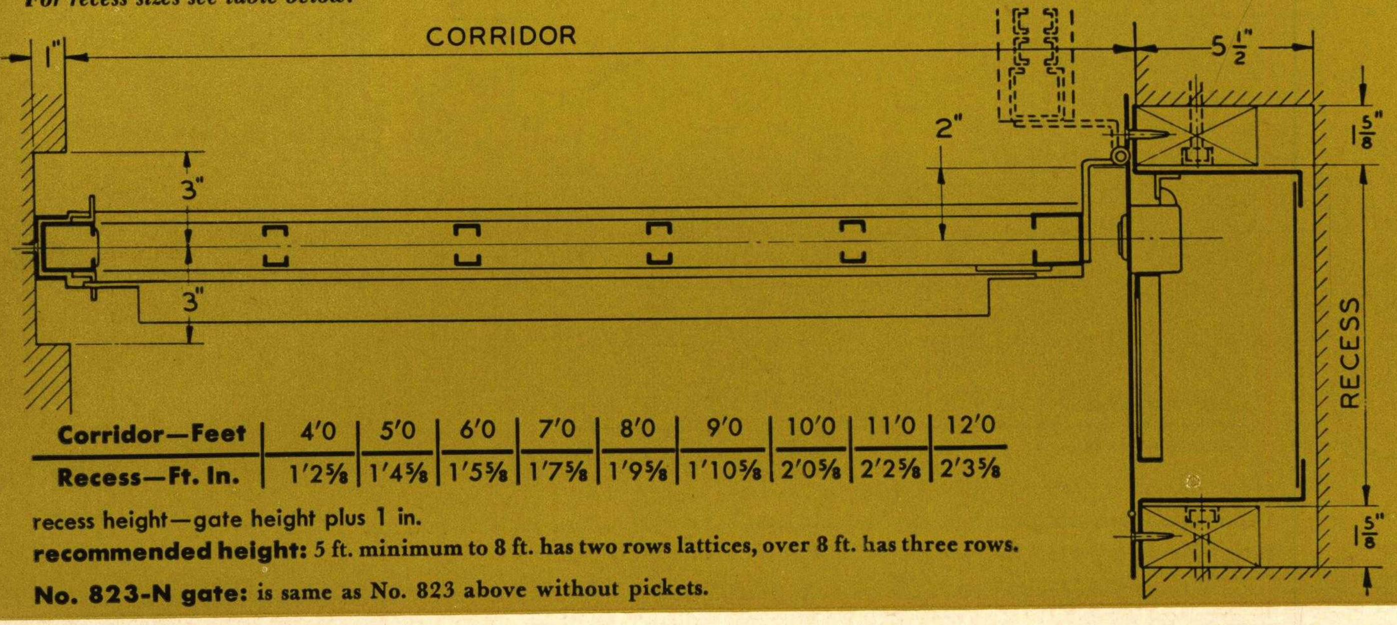
FOLDING GATES • steel, aluminum or bronze

No. 823 FOLDING GATE AND SHALLOW CABINET



specifications—gate to be No. 823 as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double ¾ in. vertical cold rolled channels on 6 in. maximum centers, all extending into bottom fold-up C section track—track to have gussets and non-marring rubber floor blocks—lattices to be 3/16x⅝ in. flat bars with machined roller bearings and brass washers—heavy duty jack-knife of cold rolled C section—cabinet to be shallow type made of 5/32 in. steel plate Z sections with No. 16 gauge back, all welded—door to be ⅛ in. steel plate reinforced with ¾x¾x⅛ in. angle frame—continuous concealed type hinge—trim ⅛x2 in. flat bar—gate hung on heavy duty hinges allowing cabinet door to close when gate is in extended or collapsed position.—locks to be WW&IW all-bronze to take standard or Mk cylinders—finish to be standard heat sprayed and heat dried olive green, grey or beige enamel.

For recess sizes see table below.

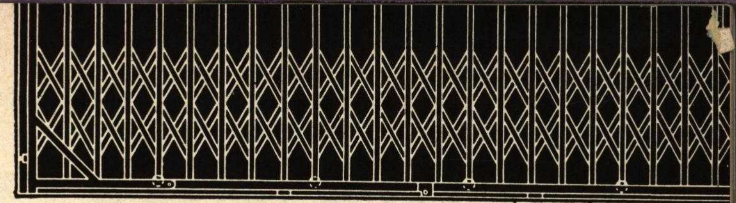


Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'2⅝	1'4⅝	1'5⅝	1'7⅝	1'9⅝	1'10⅝	2'0⅝	2'2⅝	2'3⅝

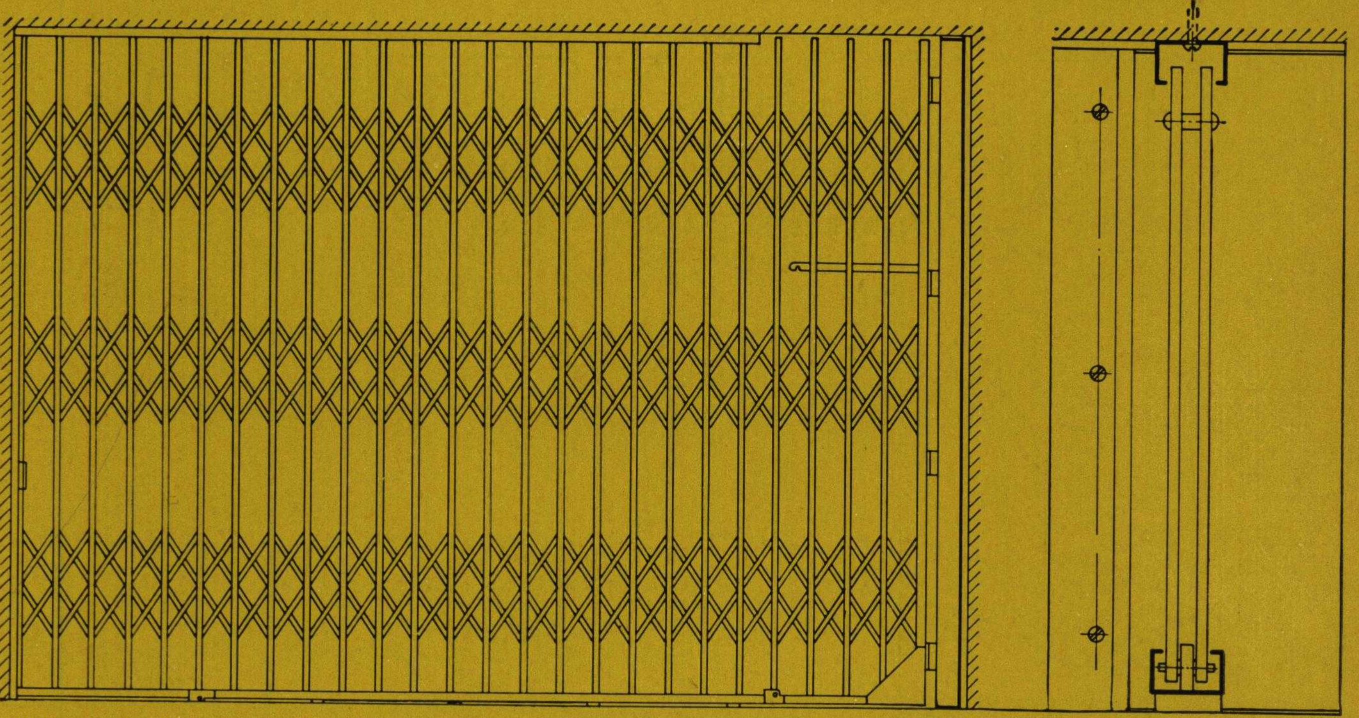
recess height—gate height plus 1 in.

recommended height: 5 ft. minimum to 8 ft. has two rows lattices, over 8 ft. has three rows.

No. 823-N gate: is same as No. 823 above without pickets.



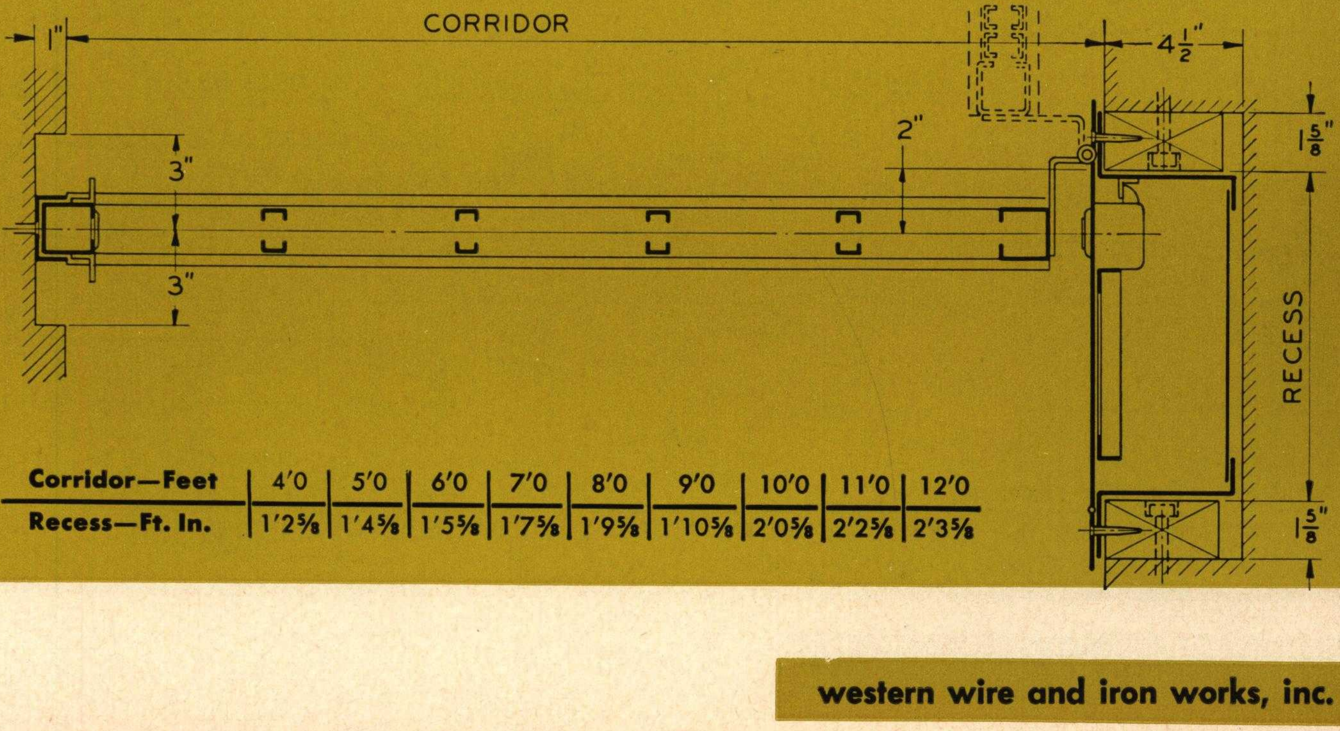
No. 843 FOLDING GATE AND SHALLOW CABINET *with channel ceiling guide*



This gate should be used where floor to ceiling protection is required—gate made with two rows of lattices up to 8 ft. high, and three rows of lattices over 8 ft. in height—recommended maximum height is 10 ft.

specifications—gate to be No. 843 folding gate as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double ¾ in. vertical cold rolled channels on 6 in. maximum centers, all extending into C section bottom fold-up track and into channel ceiling guide—bottom track to have gussets and non-marring rubber floor blocks—lattices to be $3/16$x⅝ in. flat bars with machined rollers and brass washers—cabinet to be shallow type made of $5/32$ in. steel plate reinforced with ¾x¾x⅛ in. angle frame—continuous concealed type hinge—trim bar ⅛x2 in. flat bar—gate hung on heavy duty hinges allowing cabinet door to close when gate is in extended or collapsed position.—locks to be WW&IW all-bronze to take standard or Mk cylinders—finish to be standard heat sprayed and heat dried olive green, grey or beige enamel.

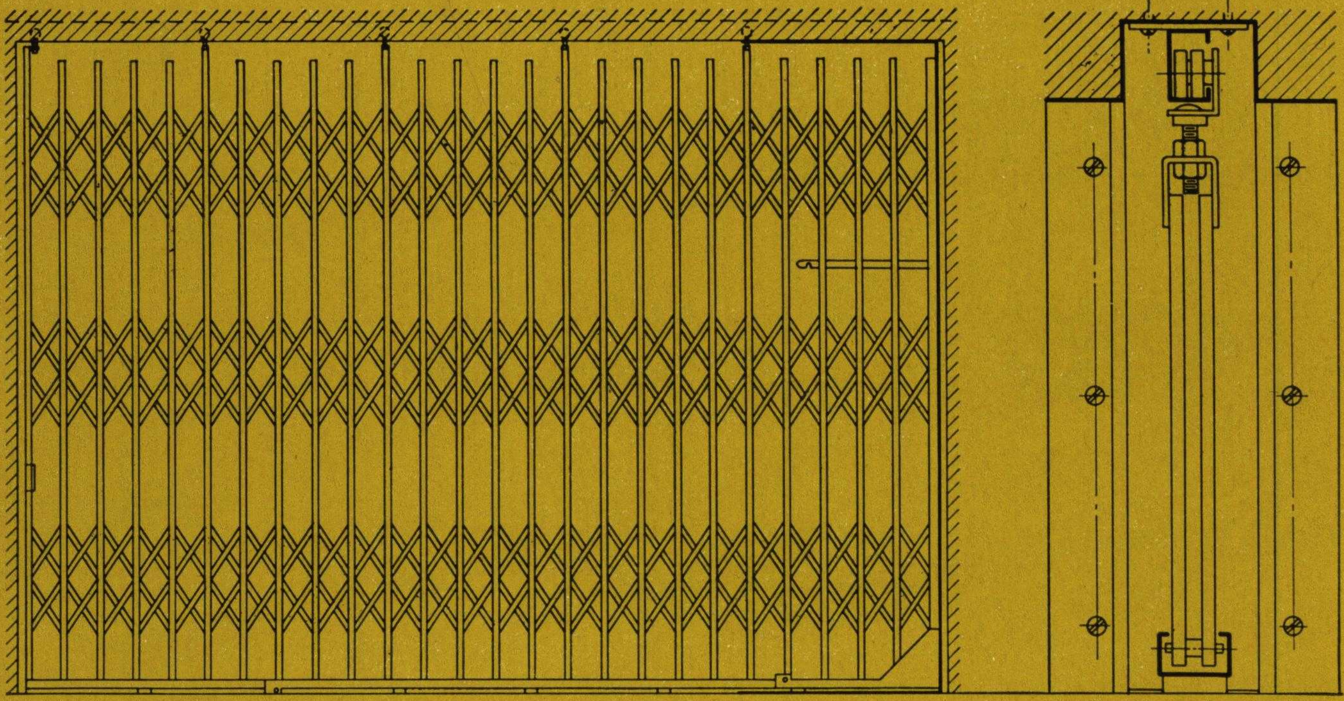
For recess sizes see table below.



Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'2⅝	1'4⅝	1'5⅝	1'7⅝	1'9⅝	1'10⅝	2'0⅝	2'2⅝	2'3⅝

FOLDING GATES • steel, aluminum or bronze

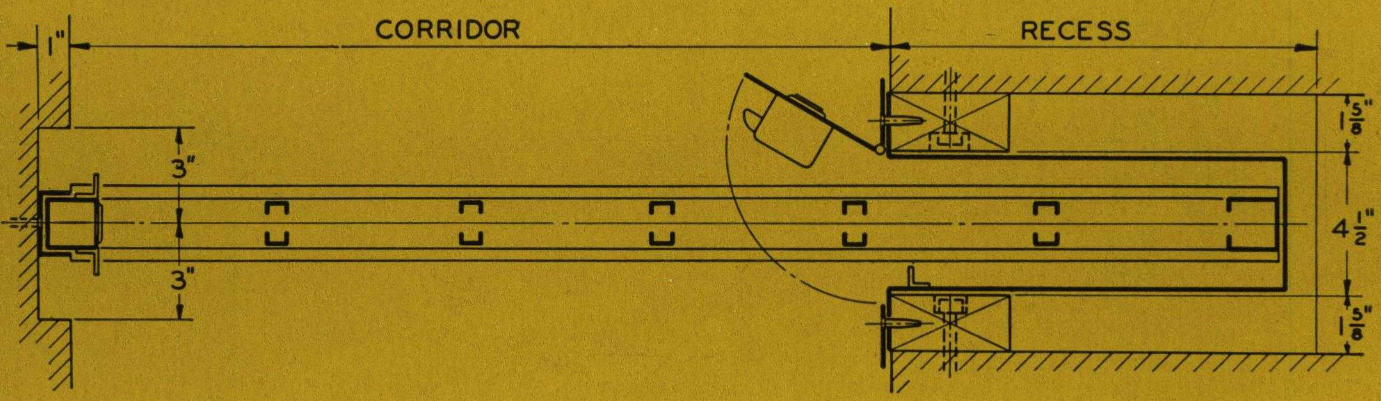
No. 852 FOLDING GATE AND DEEP CABINET *with overhead track*



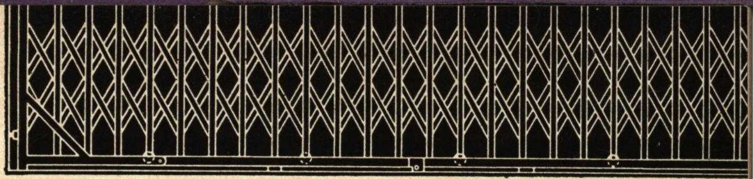
This installation is recommended where floor to ceiling protection is desired, combined with the advantages and appearance of a permanent built-in top track.—gate is made with two rows of lattices up to 8 ft. in height, and three rows when over 8 ft. high.—recommended max. height 12 ft.

specifications—gate to be No. 852 as manufactured by Western Wire & Iron Works Inc. of Chicago, Ill.—constructed of double ¾ in. vertical cold rolled channels, all extending into bottom folding C section track—track to have gussets—top track to be heavy duty C section with removable section for insertion of gate—gate hung from top track on ball-bearing hangers at every fifth vertical channel (approx. 2 ft. 6 in. o.c.)—lattices 3/16x⅝ in. flat bars with machined rollers and brass washers—cabinet to be deep type, made of No. 14 ga. steel all welded—door to be No. 11 ga. plate with continuous type hinge and ⅛x2 in. flat bar trim—locks to be WW&IW all-bronze to take standard or Mk cylinders—finish standard heat sprayed and heat dried enamel in olive green, grey or beige.

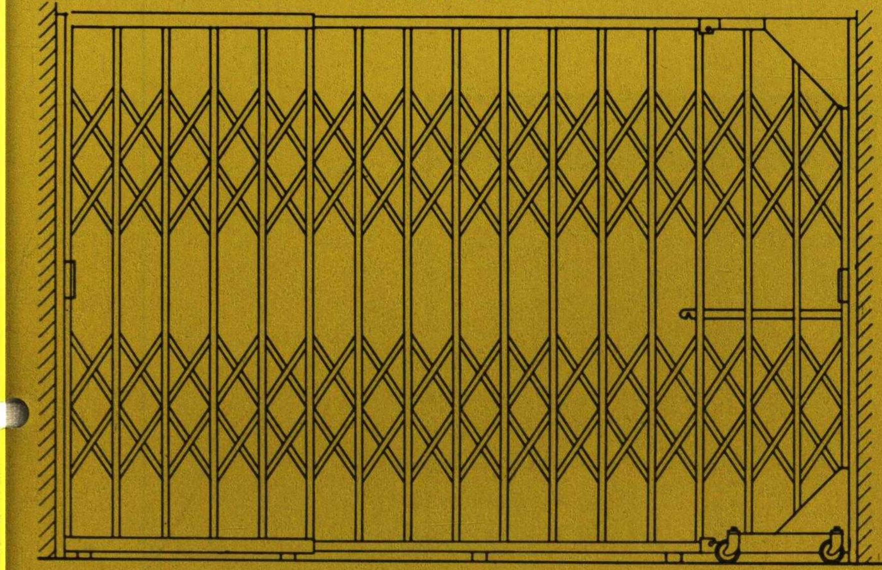
For recess sizes see table below.

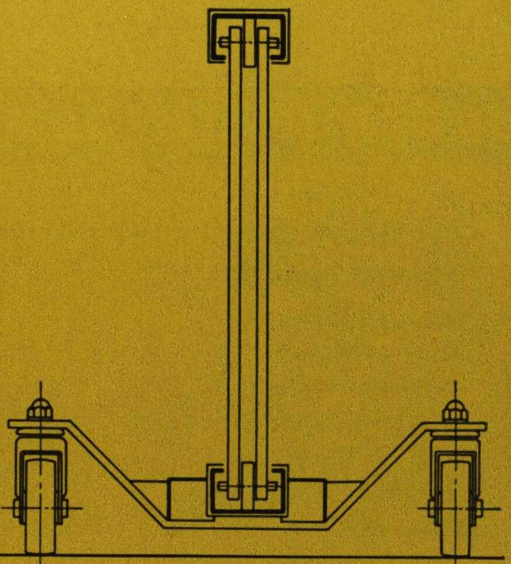


Corridor—Feet	4'0	5'0	6'0	7'0	8'0	9'0	10'0	11'0	12'0
Recess—Ft. In.	1'4	1'7	1'9	1'11	2'1	2'3	2'6	2'8	2'9



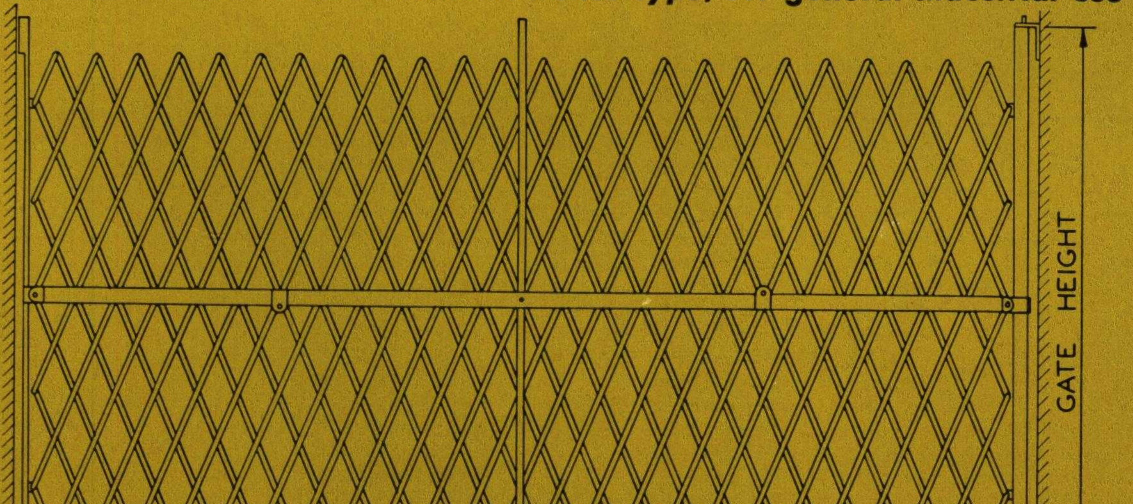
No. 860 FOLDING GATE *portable*

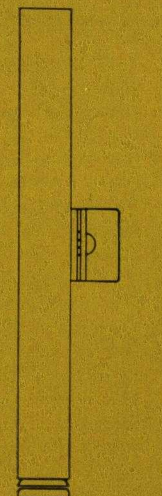




This gate is made to specifications of No. 810 and mounted on a sturdy carriage with large ball-bearing casters. Easily rolled to various locations or to storage. Has 3 ft. adjustment for width. Fitted with two cylinder locks (can be master-keyed) which lock into a keeper on each wall, and with vertical channels sliding inside of top and bottom tracks makes the most secure and rigid installation. Gate cannot be rocked or pushed out of line when locked in place. No braces required. No loose locks or fastenings to be lost or misplaced. Maximum height 7 ft. 6 in., or 6 ft. 6 in. if to be stored in closet.

No. 830 FOLDING GATE *diamond lattice type, for general industrial use*





lattice	made of ¾x⅜x⅛ in. cold rolled channel riveted back to back with ¼ in. rivets approx 6 in. on centers—brass washers used throughout.
end bars	1⅝ in. cold rolled C section to take double machined rollers of lattice section. pivot mounted to allow gate to be swung against wall when collapsed.
jack-knife	heavy C section on gates 6 ft. wide and over—ball-bearing swivel caster on lead bar.
lock	furnished with padlock arrangement unless cylinder lock is specified.
tie bar	for holding gate in collapsed position.
finish	heat sprayed and heat dried standard coat of olive green, grey or beige enamel.

ORDERING INFORMATION

for price inquiry, or purchase order . . .
please specify:

Number of Gates	One or more
Style of Gate	Specify No. Shown
Height of Gate	Over-all height of gate desired
Width of Corridor	Corridor width from wall to wall
Lock on Gate	Cylinder Lock or Padlock arrangement
Material	Steel, Aluminum or Bronze
Color of Paint	Beige, Olive Green or Grey
With Overhead Tracks or Channel Guide	Give ceiling height

TYPICAL INSTALLATIONS

wire mesh work

Argonne National Laboratory	Chicago
Fort Bragg	North Carolina
Chicago Housing Authority	Chicago
Crane Co.	Chicago
Ordnance Facilities	Canal Zone
Camp Chaffee	Arkansas
Illinois Bell Telephone Co.	Chicago
Inland Steel Co.	Indiana Harbor, Ind.
Collector of Customs	Nicaragua
U. S. Naval Base	Key West, Fla.
Stewart-Warner Co.	Chicago
University of Illinois	Chicago
Veterans Adm. Hospital	Ohio
Prudential Building	Chicago
White Horse Mill	South Carolina
Rocket Fuels Plant	McGregor, Texas
Wisconsin State Prison	Waupun, Wisconsin
Ops Bldg., AFB	Grandview, Mo.
National Guard Armory	Sarasota, Fla.
Municipal Auditorium	Austin, Texas
Kimball High School	Dallas, Texas
A & M College	Stillwater, Okla.
University of Florida	Gainesville, Fla.

gates

E. I. Dupont De Nemours	Georgia
E. Greenwich High School	Rhode Island
Jacksonville High School	Arkansas
Longfellow High School	Wisconsin
Luther Burbank School	Oklahoma
Rice Ave. School	Girard, Pa.
Sullivan High School	Tennessee
Pleasant Ave. School	Johnstown, N. Y.
Consolidated School	Ocosta, Wash.
Elementary School	West Gallup, N. M.
Community High School	Naperville, Ill.
Northfield School	Northfield, Ill.
University of California	California
Teachers Education Bldg.	Oxford, Miss.
Manchester High School	Connecticut
Sharp Corner School	Skokie, Ill.
DePaul University	Chicago, Ill.
High School	Portsmouth, N. H.
Elementary School AFB	Chicopee, Mass.
Department of Health	Austin, Texas
Junior High School	Olympia, Wash.
High School	Juneau, Alaska
City Elementary School	Bartow, Fla.

On all shipments to purchasers outside of Illinois, title to merchandise passes upon delivery to common carrier in Illinois.

INC

WESTERN WIRE & IRON WORKS, INC.
947-957 west 18th place • chicago 8, illinois
Telephone: CAnal 6-6442

FOUNDED IN
1913

PRINTED IN U.S.A.

- partitions
- window guards
- folding gates

products of woven wire

- wire doors
- door guards
- guards
- tool cribs
- stock bins
- shelves and trays
- lockers
- machinery guards

catalog 60

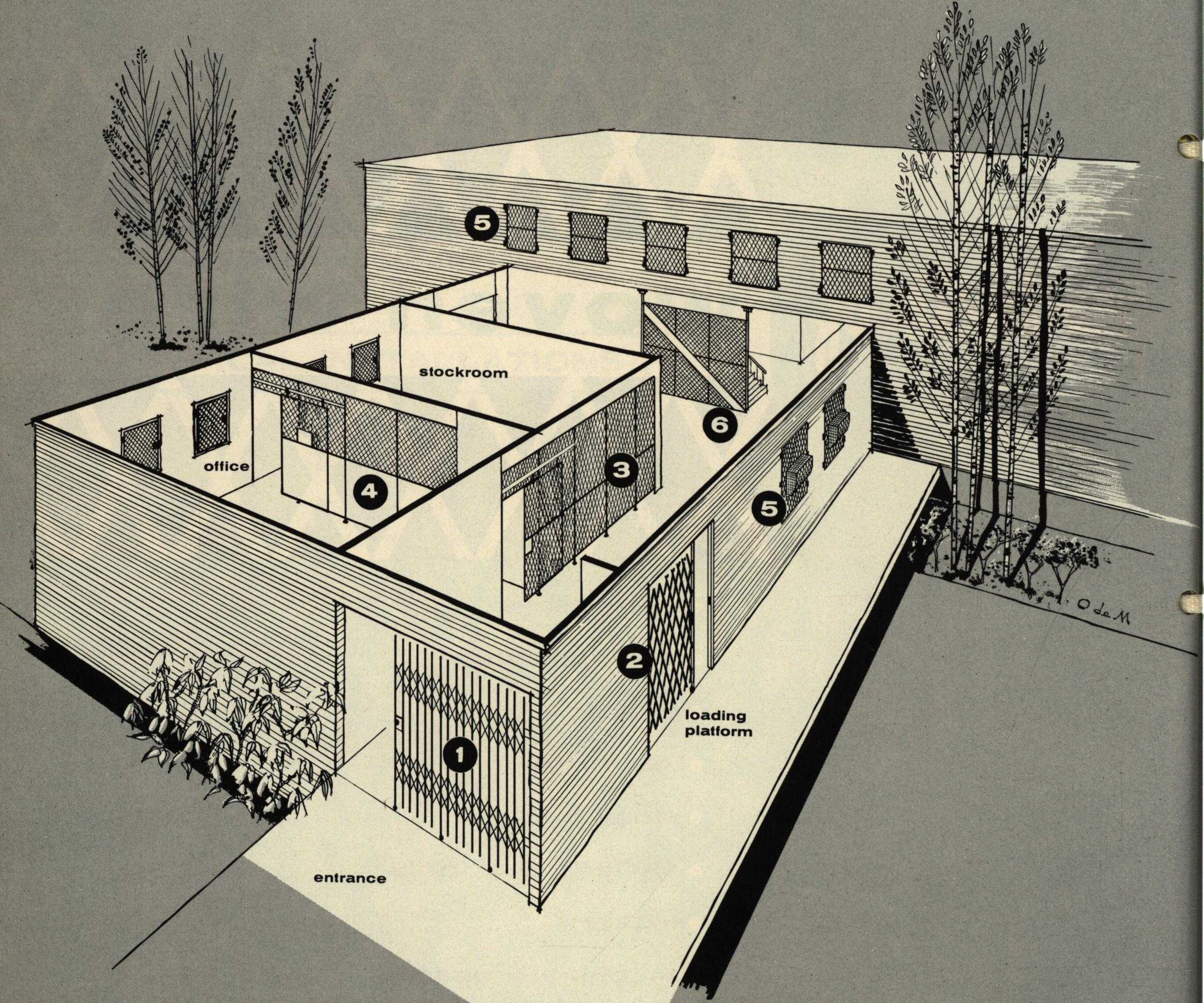
WOVEN WIRE PRODUCTS ASSOCIATION

This is a National Organization consisting of leading manufacturers of woven wire products. The objectives of the association are: (1) promoting the use of the products of its members, and (2) providing information for use of architects and others interested in woven wire products.

see list of member companies on back page

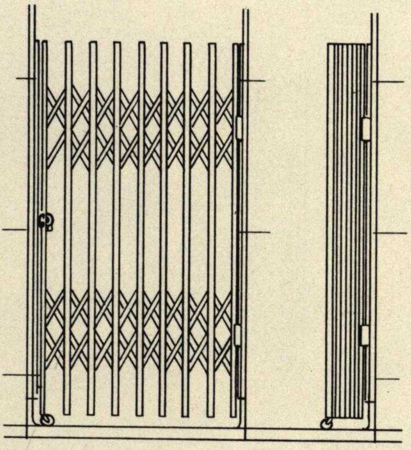
industrial applications

manufacturing plant



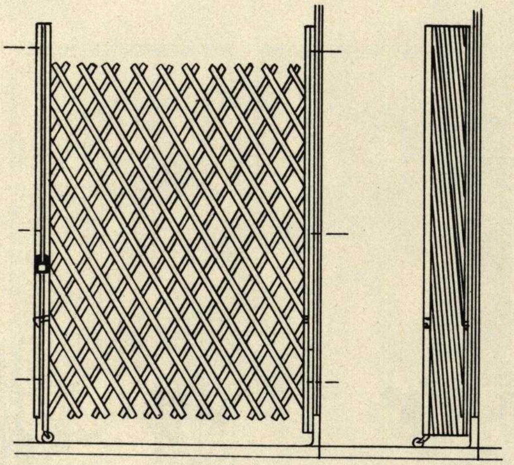
5
stockroom
6
office
4
3
5
2
loading platform
1
entrance
O de M

1 gate – Bostick type



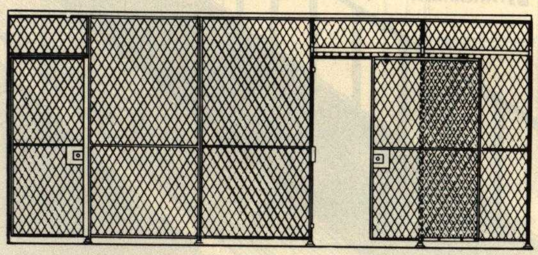
extended collapsed

2 gate – Lazy Tong type

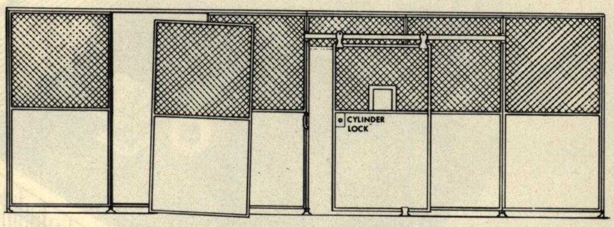


extended collapsed

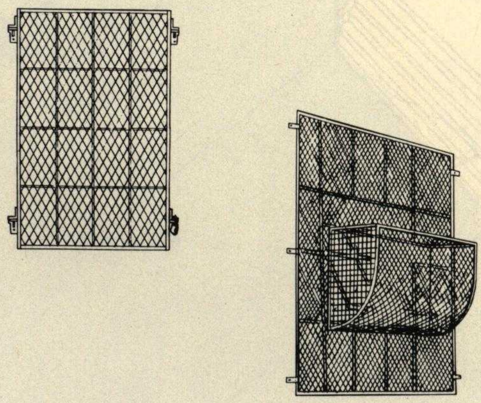
3 partition



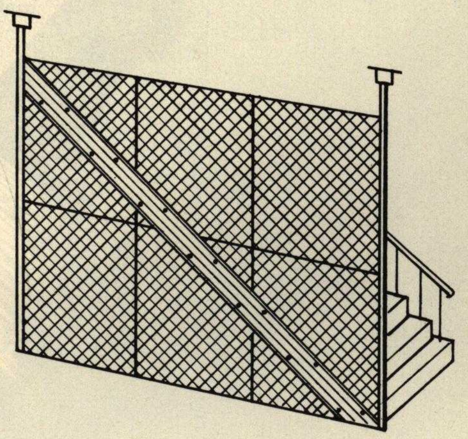
4 partition



5 window guards

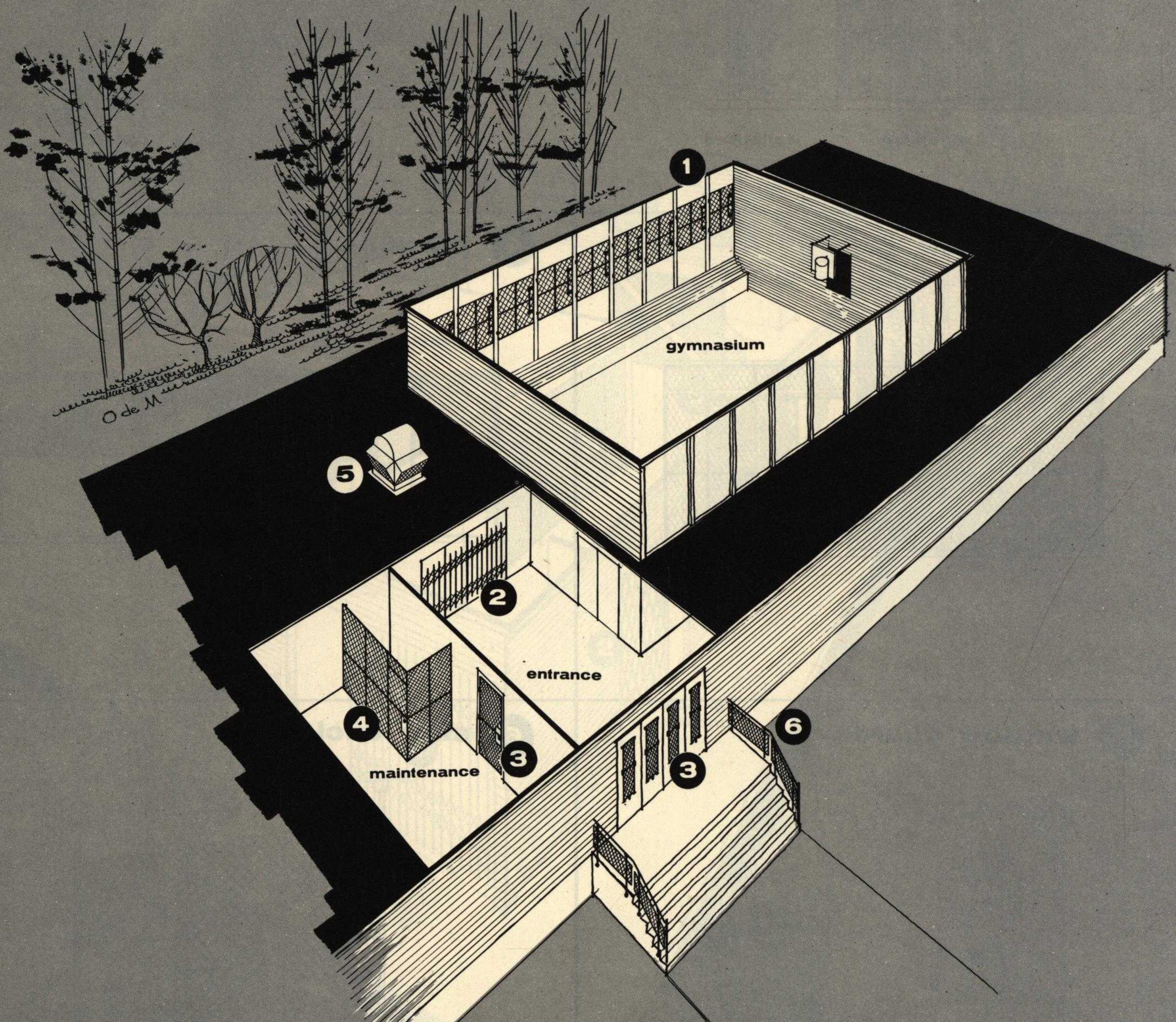


6 stair enclosure



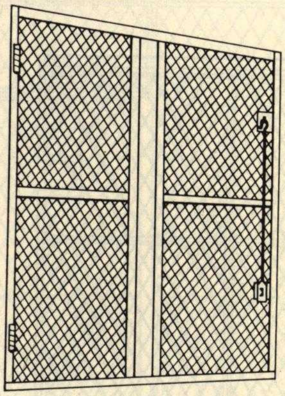
institutional applications

school-athletic wing

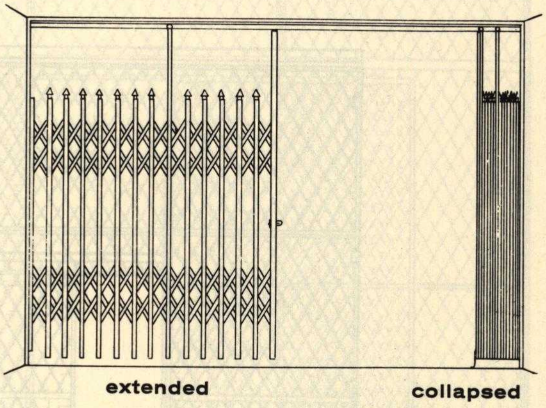


1
gymnasium
O de M
5
2
entrance
4
3
maintenance
3
6

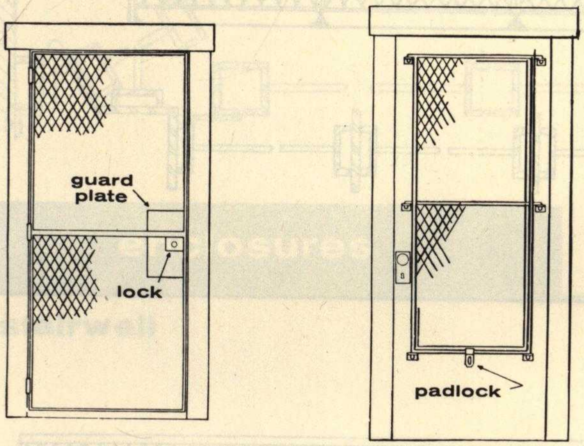
① interior gymnasium window guard



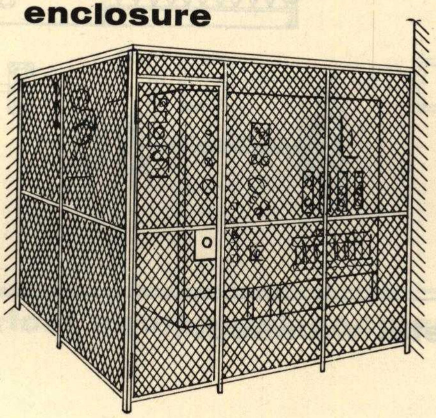
② folding gate wall pocket cabinet


extended
collapsed

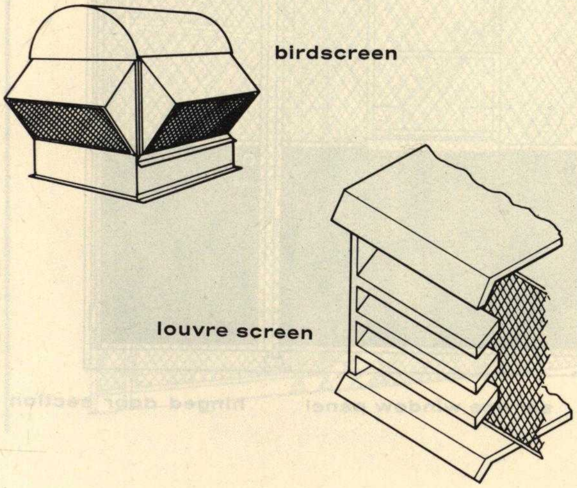
③ door guards


guard plate
lock
padlock

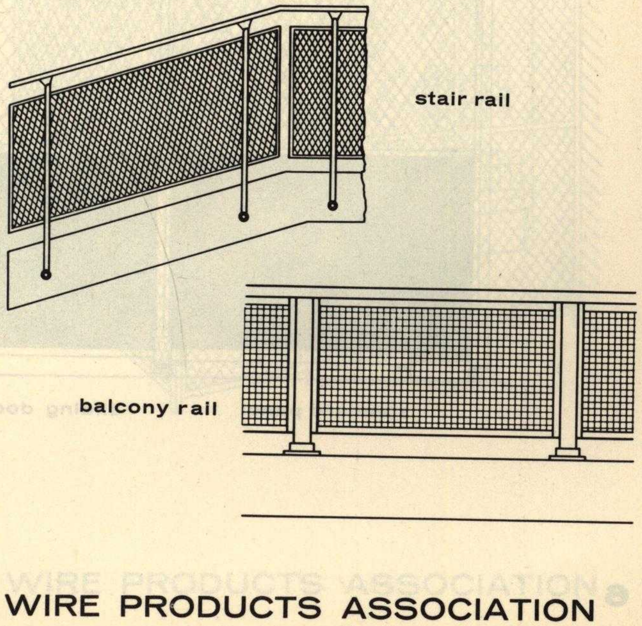
④ electrical equipment enclosure



⑤ ventilation screens

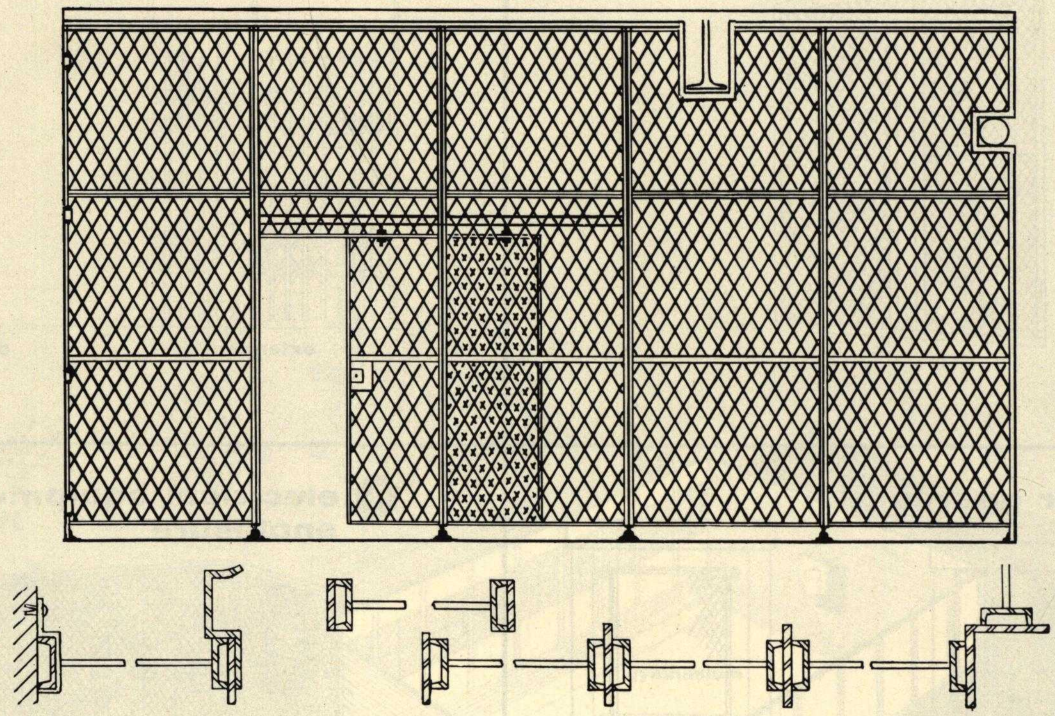

birdscreen
louvre screen

⑥ railings

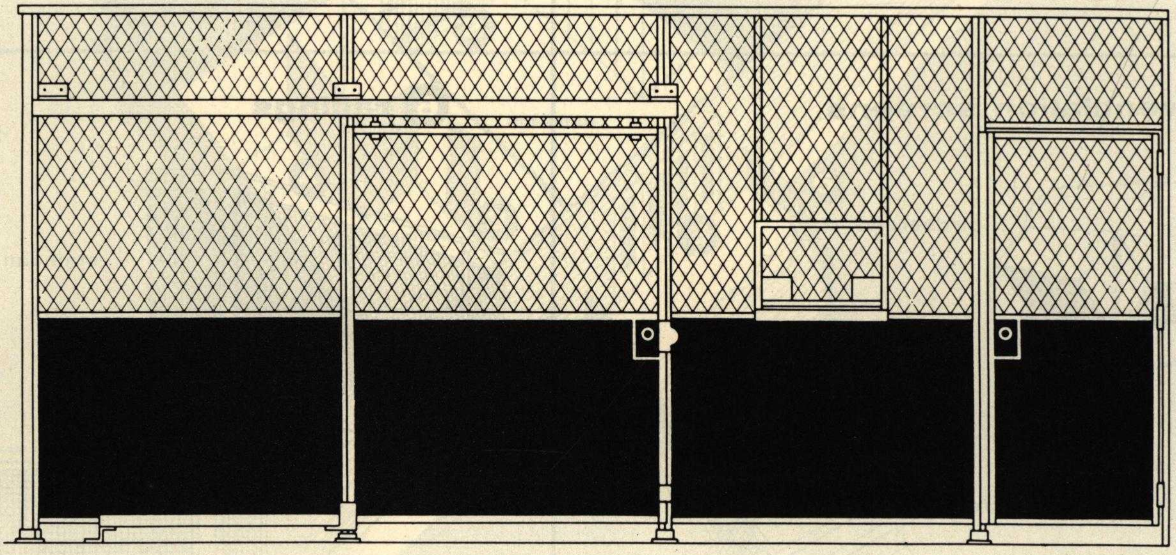

stair rail
balcony rail

standard partitions

high type partition 10′-0″ high and higher to be re-inforced between all panels and gate openings with 2″ x ¼″ flats (as shown) or tees, angles, tubes, etc.

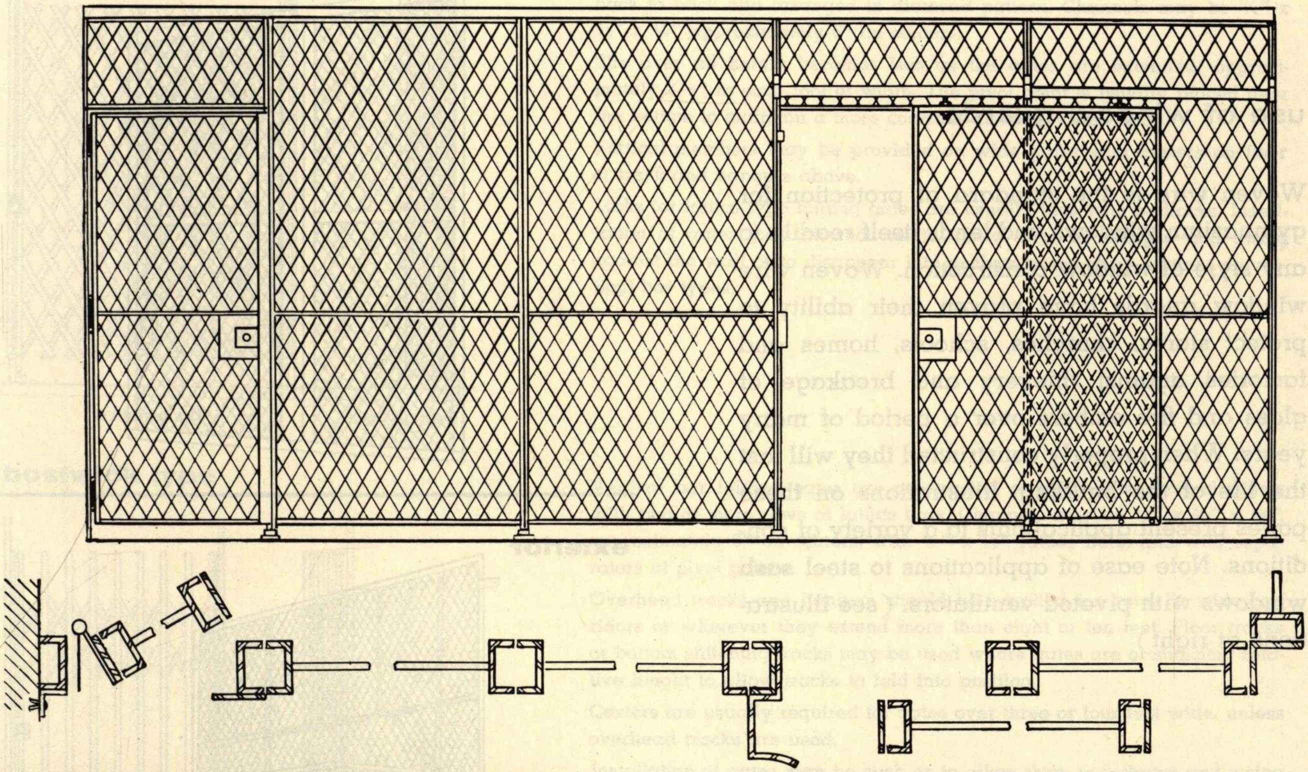


metal wainscot



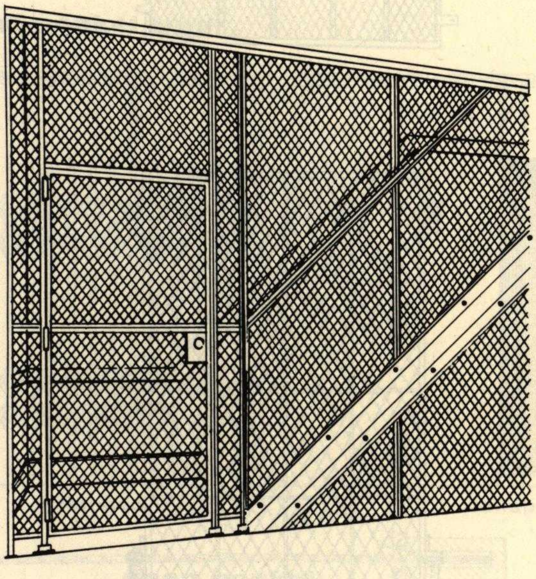
standard panel
sliding door section
service window panel
hinged door section

low types

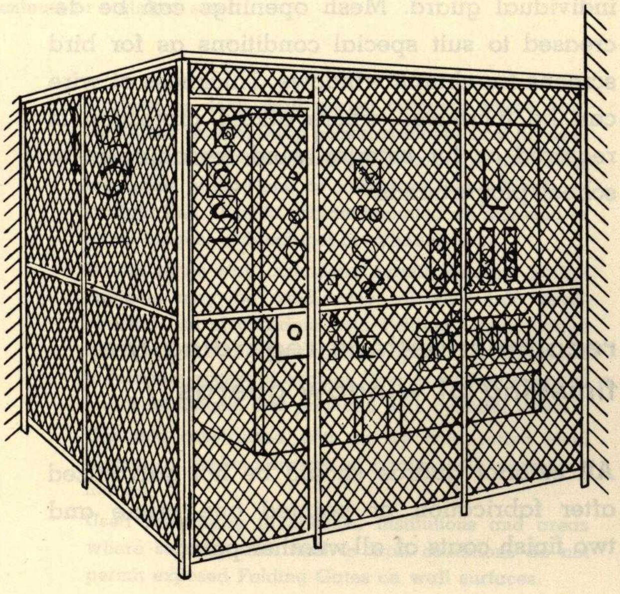


enclosures

stairwell



electrical equipment enclosures



window guards

use of window guards

Woven wire is the standard of protection for gymnasium windows and lends itself readily to any style of window construction. Woven wire window guards have proven their ability to protect stores, churches, schools, homes and factories against thievery and breakage of glass and fire embers over a period of many years. When properly constructed they will last the life of the building. Illustrations on these pages present applications to a variety of conditions. Note ease of applications to steel sash windows with pivoted ventilators. (see illustrations at right)

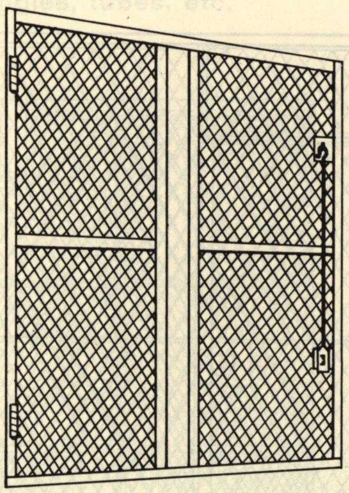
advantages

Woven wire window guards are always made to fit the exact openings of windows and there is no waste of material as webs are not cut from stock sheets, but are woven up for each individual guard. Mesh openings can be decreased to suit special conditions as for bird screens for church windows. Thickness of wire can be increased where added protection is required as for exterior windows adjacent to school playgrounds.

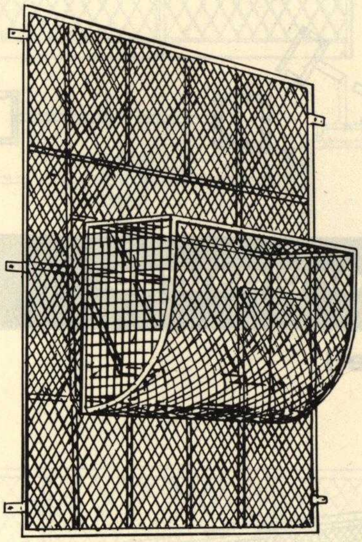
recommendations regarding the finishing of window guards

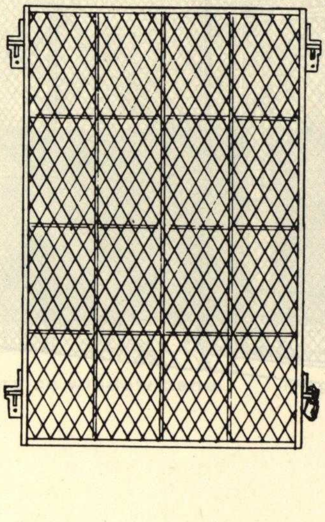
All exterior guards should be hot galvanized after fabrication or painted one prime and two finish coats of all-weather paint.

interior



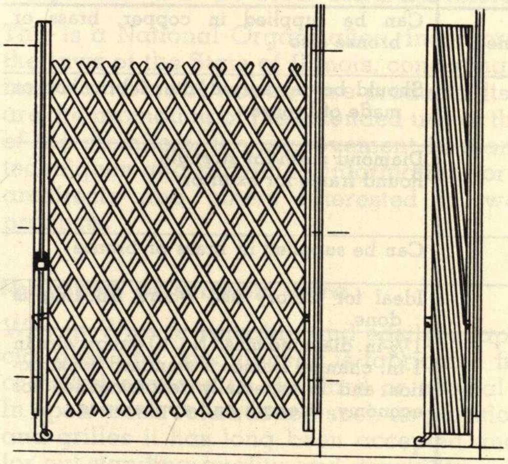
exterior





folding gates

lazy tong type


extended collapsed

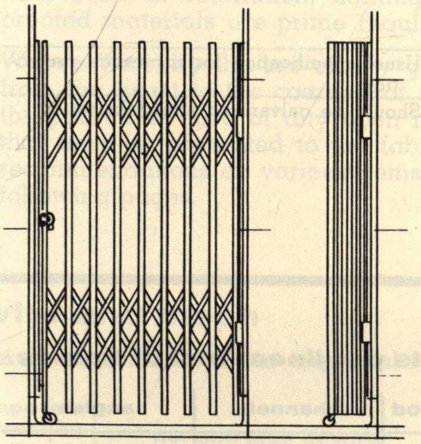
Diamond lattice folding gates are constructed of single channels riveted back to back and arranged in diamond pattern. Channels may be ¾" x ⅜" x ⅛" approximately 6" on centers.

The over all height becomes less as the gates are extended; approximately 1½" to each foot of width. The pivot point is usually placed near the bottom to maintain a more constant distance to the floor.

Vertical members may be provided on wide gates with casters on floor or track and hangers above.

Locks for lattice type folding gates are usually lugs with padlocks. Installation of gates may be such as to allow them to collapse and swing against the wall or to disappear into pockets in the same manner as vertical bar types.

bostwick type


extended collapsed

Vertical bar folding gates are constructed of pairs of vertical channels with two or more rows of lattice bars. Channels may be ¾" x ⅜" x ⅛", approximately 6" on centers, with ⅝" x ⅛" lattice bars, and with separators at pivot points.

Overhead tracks and hangers should be supplied for gates in wide corridors or wherever they extend more than eight or ten feet. Floor tracks or bottom stiffening tracks may be used where gates are of sufficient relative height to allow tracks to fold into position.

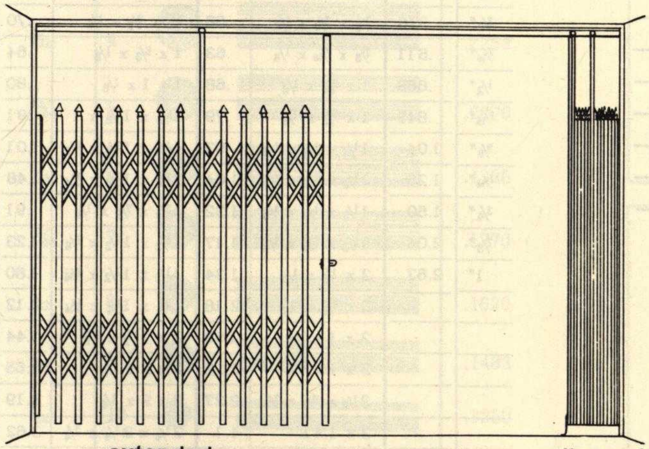
Casters are usually required for gates over three or four feet wide, unless overhead tracks are used.

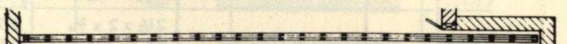
Installation of gates may be such as to allow them to collapse and swing against the wall or disappear into pockets with or without hinged panels or doors. The larger gates, particularly those with fixed overhead tracks, may fold into concealed wall pockets, the tracks extending to the back of the pocket. The pocket should have a metal lining to protect the gate mechanism.

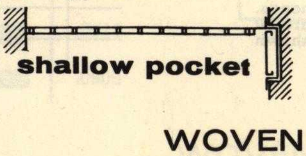
Hasps, padlocks, or built-in cylinder locks for vertical bar type gates may be used to lock the gates in the extended or folded positions.

Metal of folding or collapsible gates, usually steel, painted, may also be bronze, aluminum or stainless steel.

wall pocket type


extended collapsed


deep pocket


shallow pocket

Shallow or deep wall pocket cabinets where wall conditions permit. Deep pocket cabinets may be used allowing full un-obstructed use of corridor, with Folding Gates pulling out, or collapsing into cabinets on straight line. Door to cabinet mounted on recessed or piano hinges, with cabinet or cylinder locks.

Where other wall conditions permit, shallow pocket cabinets may be used, also allowing full un-obstructed use of corridors with Folding Gates hinged to swing out and across corridor opening, or collapsed to fold into pocket of cabinet. Door to cabinet mounted on off-set hinges, and provided with cylinder locks.

Cabinets constructed with heavy cold rolled steel plates, all welded frames of angles with necessary fittings.

Used principally in Schools, Institutions and areas where security and wall to wall conditions do not permit exposed Folding Gates on wall surfaces.

selector guide to woven wire products

uses	wire and mesh	frame	remarks
Radiator screens and grilles	⅝-in. mesh No. 14 wire Square or diamond	5/16-in. round ½- or ⅝-in. channel ¾-in. angle	Can be supplied in copper, brass or bronze also
Air intake screens Bird screens Church windows	¾-in. mesh No. 14 wire Square or diamond	5/16-in. round or ¾ -in. channel 1 -in. angle	Should be galvanized after fabrication or made of bronze
Basement window guards Shelves and Trays Skylight screens Pipe railing screens	1-in. mesh No. 12 wire Square or diamond	⅜-in. round 1 -in. channel 1 -in. angle	Diamond mesh for strength Round frame for exterior
Radiator and Vent Grilles	1¼-in. mesh No. 11 wire Square or diamond	⅜-in. round or 1 -in. channel	Can be supplied in brass or bronze
Heavy duty partitions, as for tool cribs, elevator shafts, stock rooms	1¼-in. mesh No. 8 wire Diamond	1¼-in. channel	Ideal for factory use where trucking is done
Switchboards Transformers Elevator shafts Fire escapes Cashier cages Office partitions Corridors and Runways Stair enclosures Locker rooms Departmental divisions Basement storerooms Gymnasium window guards Elevator car tops and safety gates Radiator guards Porch grilles Racks Stockrooms Toolrooms Lockers	1½-in. mesh No. 10 wire 1¾-in. mesh No. 9 wire Diamond 2-in. mesh No. 8 wire	1-in. channels ⅞ -in. channels ¾-in. channels Note—Where additional stiffeners are required—flat bars, tees or angles may be applied between panels	1½-in. diamond mesh No. 10 gauge wire in 1-in. channel frames is standard construction. and is especially recommended for economy, strength and appearance
Door and window guards	1½-in. mesh No. 10 wire	⅜-in. round 1 -in. channel	Usual specification for insurance protection
Wire roof signs Fencing gratings	2¼-in. mesh No. 7 wire 2½-in. mesh No. 6 wire Diamond	7/16-in. round frames 1½-in. channel	Should be galvanized after fabrication

estimated weights of diamond mesh webs

wire mesh	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15
½″												1.00	.80
⅝″									1.75	1.35	1.05	**.80**	.65
¾″						2.65	2.15	1.85	1.45	1.10	**.85**	.65	.55
⅞″				3.20	2.65	2.30	1.95	1.60	1.25	.95	.75	.55	.45
1″		3.85	3.25	2.80	2.30	2.00	1.70	1.40	1.10	**.85**	.65		
1⅛″		3.50	2.90	2.50	2.05	1.80	1.45	1.20	**.95**	.75	.55		
1¼″		3.10	2.60	2.25	1.85	1.60	1.30	1.10	**.90**	.70	.50		
1⅜″		2.80	2.40	2.05	1.70	1.45	1.20	1.00	.80	.60	.45		
1½″	3.05	2.55	2.20	1.85	1.55	1.35	1.10	**.95**	.75	.55			
1⅝″	2.80	2.40	2.00	1.70	1.45	1.25	1.00	.85	.70	.50			
1¾″	2.60	2.20	1.85	1.60	1.35	1.15	**.90**	.80	.65				
1⅞″	2.45	2.10	1.75	1.50	1.25	1.05	.85	.75					
2″	2.30	1.95	1.65	1.40	1.15	**1.00**	.80	.70					
2⅛″	2.15	1.85	1.55	1.30	1.10	.95	.75	.65					
2¼″	2.00	1.70	1.45	1.25	**1.05**	.90	.70						
2½″	1.80	1.55	1.30	**1.15**	.95	.80	.65						
3″	1.50	1.30	1.10	.90	.75	.65							

notes: Weights given are pounds per square foot figuring square diamonds. Wire is Washburn & Moen gauge. Mesh is the clear space between two parallel wires measured along the line of an intersecting wire. Bold Face figures shown are Standard Meshes and Wire.

weights per linear foot of frames

round rod		channels		angles	
size	wt. lbs.	size in.	wt. lbs.	size in.	wt. lbs.
3/16″	.094	½ x ¼ x ⅛	.28	½ x ½ x ⅛	.38
¼″	.167	⅝ x 5/16 x ⅛	.43	⅝ x ⅝ x ⅛	.48
5/16″	.261	¾ x ⅜ x ⅛	.52	¾ x ¾ x ⅛	.59
⅜″	.376	⅞ x ⅜ x ⅛	.58	⅞ x ⅞ x ⅛	.70
7/16″	.511	⅞ x 7/16 x ⅛	.63	1 x ⅝ x ⅛	.64
½″	.668	1 x ⅜ x ⅛	.68	1 x 1 x ⅛	.80
9/16″	.845	1 x ½ x ⅛	.79	1⅛ x 1⅛ x 1	.91
⅝″	1.04	1¼ x ½ x ⅛	.93	1¼ x 1¼ x ⅛	1.01
11/16″	1.26	1½ x ½ x ⅛	1.04	1¼ x 1¼ x 3/16	1.48
¾″	1.50	1½ x ½ x 3/16	1.32	1⅜ x ⅞ x ⅛	.91
⅞″	2.04	1½ x ¾ x ⅛	1.17	1½ x 1½ x ⅛	1.23
1″	2.67	2 x ½ x ⅛	1.34	1½ x 1½ x 3/16	1.80
		2 x ⅝ x ¼	2.18	1¾ x 1¾ x 3/16	2.12
		2 x 1 x ⅛	1.59	2 x 1½ x ⅛	1.44
		2 x 1 x 3/16	2.32	2 x 2 x ⅛	1.65
		2½ x ⅝ x 3/16	2.27	2 x 2 x ¼	3.19
		3 x 1.41	4.1	2¼ x 2¼ x ¼	3.62
				2½ x 1½ x 3/16	2.44
				2½ x 2 x 3/16	2.75
				2½ x 2½ x ¼	4.10
				3 x 2 x 3/16	3.07
				3 x 2 x ¼	4.1

objectives of the association

This is a National Organization, incorporated under the laws of the State of Illinois, consisting of leading manufacturers of woven wire products. Its objectives are the promotion of the extended use of the products of the members, the improvement in manufacturing techniques and providing information for the use of architects and others interested in woven wire products.

features of woven wire

Woven Wire is versatile and easily adapted to special uses and conditions. It is fabricated from drawn or rolled sections in standard or special materials. In open mesh construction such as partitions, guards and grilles it has long been accepted and specified for out-standing quality and durability.

Woven Wire in its above form and construction, being mostly portable, is unexcelled where conditions such as ventilation, lighting, vision and fire-proofed materials are prime requisites.

Woven Wire, by the use of any gauge wire woven from the finest to the coarsest of meshes can meet the particular need of any open mesh requirement that may be presented to the fabricator. Data and recommendations on various items are given on the following pages.

advantages of woven wire

ventilation—Largest percentage of open area.

lighting—More light due to better diffusion.

cleaning—All smooth surface; easily kept clean.

vision—Easier to look through from any position.

fire—No obstruction to hose stream.

heating—Maximum circulation of air.

sound—No interference.

painting—Easily repainted; no sharp edges.

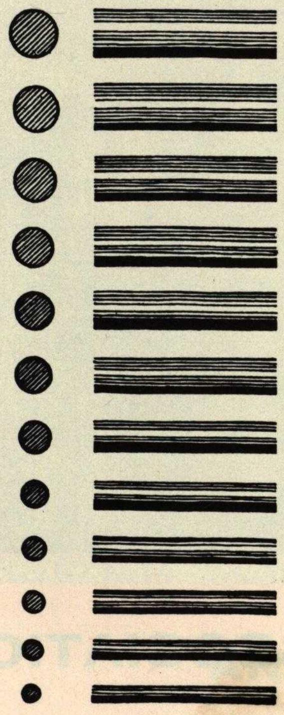
strength—All wires double crimped and securely interwoven and clinched on drawn metal frames. (See illustrations below.)

cost—Lowest cost because of economy in manufacture as mesh is woven up for each job, thus eliminating the usual waste resulting when mesh is cut from limited sizes of stock sheets.

diversity of wire sizes and meshes—To meet any requirement in open mesh construction.

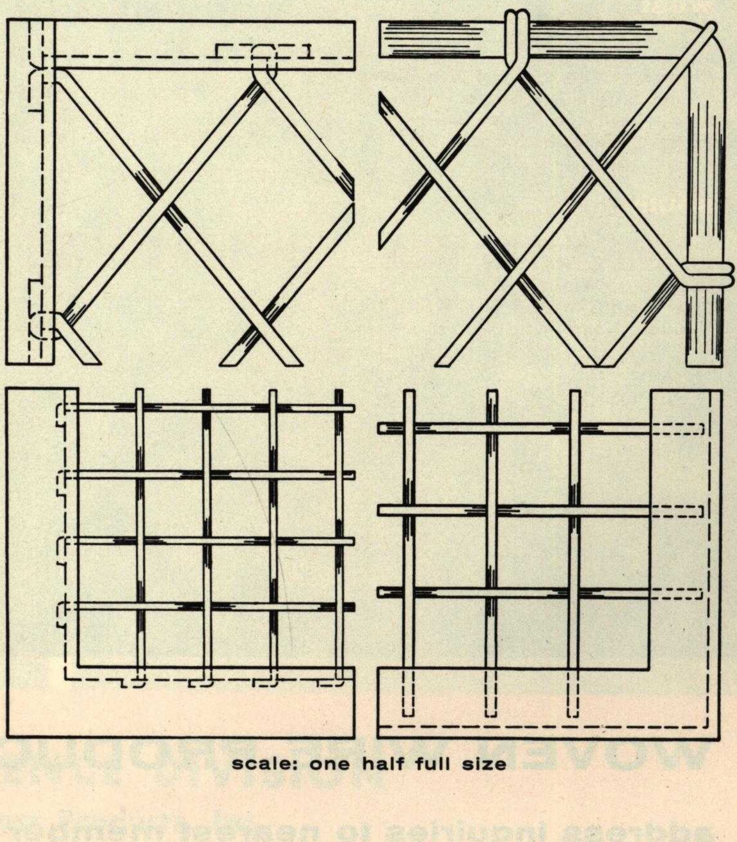
wire and mesh

actual size and its equivalents



approx. fraction of inch	no. and size of wire No.	decimals of inch
¼	3	.2437
7/32	4	.2253
13/64	5	.2070
3/16	6	.1920
11/64	7	.1770
5/32	8	.1620
5/32	9	.1483
9/64	10	.1350
1/8	11	.1205
7/64	12	.1055
3/32	13	.0915
5/64	14	.0800

as applied to channel, angle and rod frames



scale: one half full size

whenever visibility, ventilation, light and protection are required

use woven wire

members of the Woven Wire Products Association

east

Acme Iron Works	1240 Mt. Olive Road, N. E., Washington 2, D. C.
Acme Wire Works, Inc.	366 Ten Eyck Street, Brooklyn 6, New York
Bellis Wire Works, Inc.	307 Scholes Street, Brooklyn 6, New York
Berko Brothers Co.	Randolph & Wood Streets, Philadelphia 6, Pa.
Estey Brothers Company	1006 Metropolitan Avenue, Brooklyn 6, New York
Gehret Company, Inc.	11th Street at Ridge Avenue, Philadelphia 23, Pa.
General Wire Mesh Co.	11-13 Kosciusko Place, Brooklyn 21, New York
The Hartford Wire Works Co.	90 Allyn Street, Hartford 1, Conn.
Standard Wire & Iron Works Co., Inc.	2426 N. Hancock Street, Philadelphia 33, Pa.

mid-west

Acme Wire & Iron Works	3527 E. Canfield Avenue, Detroit 7, Michigan
Central Wire & Iron Works	401 S. East Fourth Street, Des Moines 16, Iowa
The Denby Wire & Iron Co.	3005 East 81st Street, Cleveland 4, Ohio
Flint Iron & Wire Works, Inc.	3423 S. Saginaw Street, Flint 3, Michigan
Haven-Busch Co.	3443 Chicago Drive, S. W., Grandville, Michigan
Hoosier Fence Co., Inc.	1701 East 38th Street, Indianapolis 18, Indiana
Wm. Inglis Wire & Iron Works	660 Harper Avenue, Detroit 11, Michigan
The Lakeside Wire & Iron Co.	P. O. Box 389, Painesville, Ohio
The Lane-Stewart Co.	374 North Cicero Avenue, Chicago 44, Illinois
Fred L. Meyers Mfg. Co.	1545 Bender Avenue, Hamilton, Ohio
Phoenix Wire Works, Inc.	1940 E. Kirby Avenue, Detroit 11, Michigan
Standard Wire & Steel Works	4111 W. Henderson Street, Chicago 41, Illinois
Superior Wire & Iron Products	1035 East 76th Street, Chicago 19, Illinois
Volkwein Bros. Iron & Wire Works Co.	1806 East Street, Pittsburgh 12, Pa.
Western Wire & Iron Works, Inc.	947 West 18th Place, Chicago 8, Illinois
Wire & Iron Products, Inc.	1725 Sixteenth Street, Detroit 16, Michigan

west

Braden Wire Works	P. O. Box 5087, San Antonio 1, Texas
California Wire Screen & Iron Works	1755 N. Main, Los Angeles 31, Calif.
Crager Wire & Iron Works	34 East 9th South, Salt Lake City 4, Utah
King Wire & Iron Works, Inc.	154 San Fernando Road, Los Angeles 32, Calif.
Michel & Pfeffer Iron Works, Inc.	S. Linden & Tanforan Avenues, S. San Francisco, Calif.

south

Kentucky Metal Products Co.	3104 Preston Street, Louisville 13, Kentucky
Logan Co., Builders Iron Division	1115 Franklin Street, Louisville 6, Kentucky
Miller Wire Works, Inc.	P. O. Box 4116, Birmingham 6, Alabama
New Orleans Wire & Iron Works	8316 Fig Street, New Orleans 18, Louisiana
Standard Iron & Wire Works	P. O. Box 628, Chattanooga 1, Tennessee

WOVEN WIRE PRODUCTS ASSOCIATION

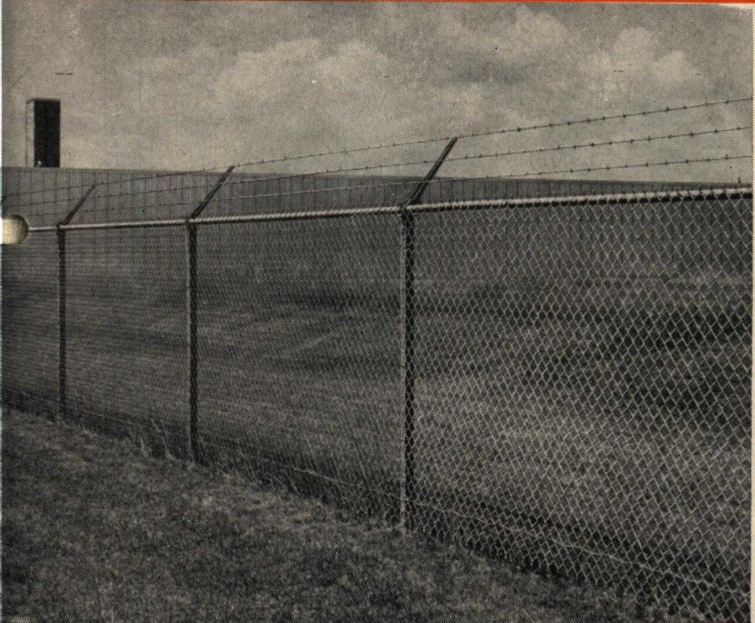
address inquiries to nearest member company listed above

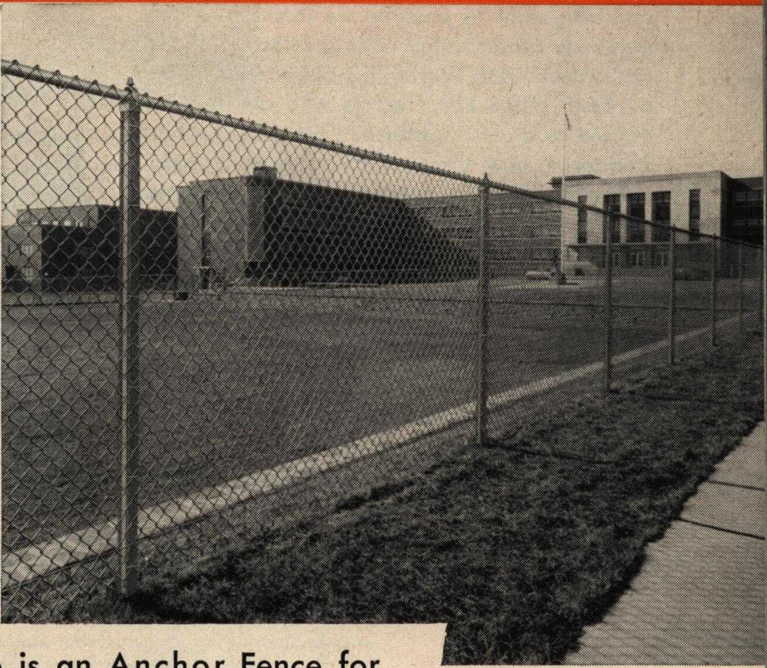
22g
An

ANCHOR FENCES

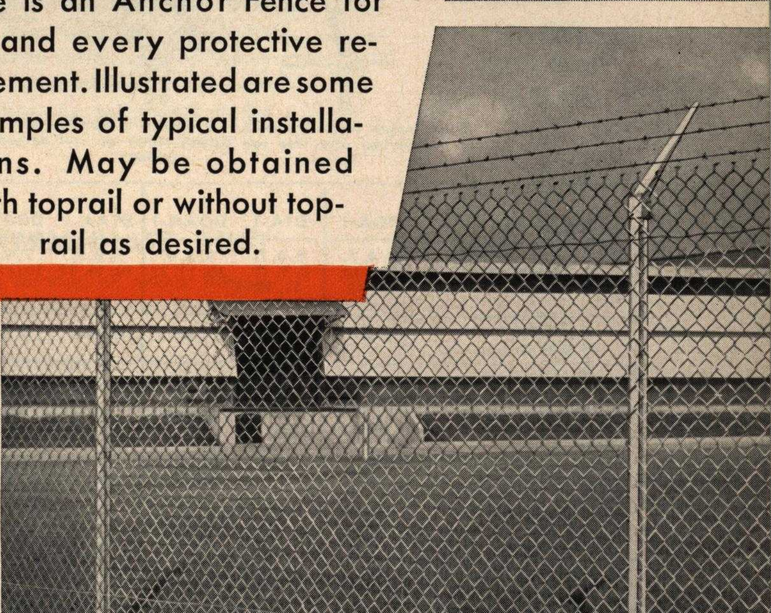
PROTECTIVE • ATTRACTIVE

ANCHOR CHAIN LINK FENCE





There is an Anchor Fence for any and every protective requirement. Illustrated are some examples of typical installations. May be obtained with toprail or without toprail as desired.



ANCHOR FENCE DIVISION

Anchor Post Products, Inc.

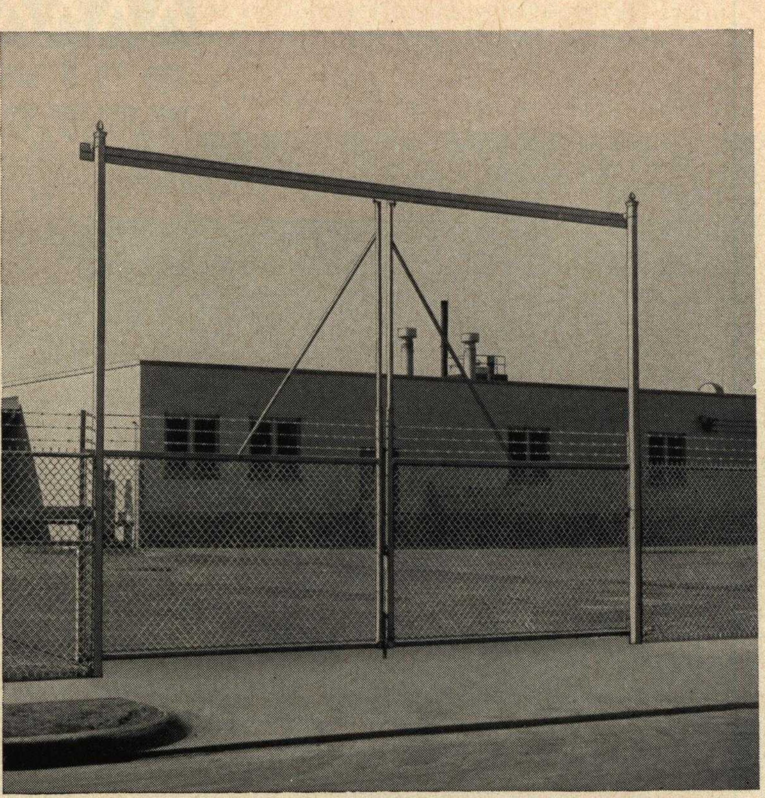
BALTIMORE 24, MD.

ANCHOR FENCE SALES AND ERECTING SERVICE IS NATION-WIDE

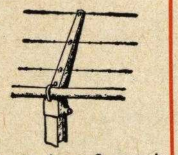
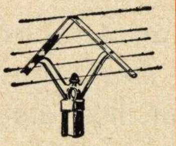
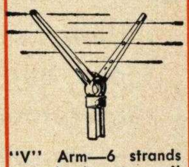
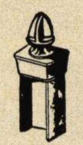
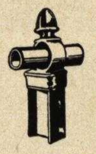
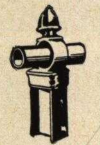
During the years that have passed since its establishment in 1892, the record of Anchor Post Products, Inc., has been one of continued growth. Starting with a modest factory in Brooklyn, N. Y., it now has modern plants in Baltimore, Md., Houston, Texas, and Whittier, Cal.

In order to serve our customers as promptly and efficiently as possible we maintain a nation-wide organization of branch sales offices and warehouses. (Partial list appears on Page 4.) Each office has erectors who are factory trained to erect a customer's fence to Anchor standards and thereby insure a well-done, economical job. In addition, our experienced sales force is fully equipped and trained to render valuable aid in the selection of the right type fence to fit protective requirements . . . and, have the backing of a home office staff of engineers, who are able to solve any fencing problem no matter how complicated.

This service is available to you at no charge or obligation. Try Anchor on your next fencing job . . . and get the right fence for your protective requirement.



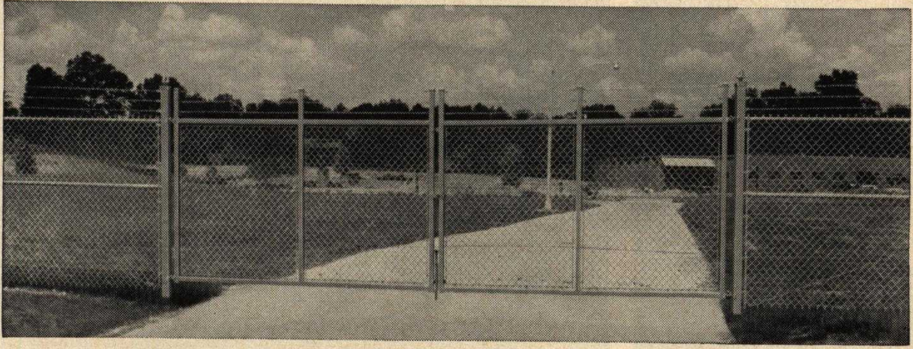
AN ANCHOR CHAIN LINK FENCE FOR EVERY REQUIREMENT

TYPE OF LINE POST TOPS		 Angle Arm—3 strands barbed wire—top rail optional		 "A" Arm—5 strands barbed wire—top rail optional		 "V" Arm—6 strands barbed wire—top rail optional		 No top rail		 With top rail		 With top rail	
Type of Fence		**DOA-1**	**DTA-1**	**DOAA-1**	**DTAA-1**	**DOAV-1**	**DTAV-1**	**CO-1**	**DO-1**	**CT-1**	**DT-1**	**CT-1 Tennis**	**DT-1 Tennis**
Height in Feet		5, 6, 7, 8, 9, 10, 11, 12	5, 6, 7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	7, 8, 9, 10, 11, 12	4, 5, 6, 7, 8	5, 6, 7, 8, 9, 10, 11, 12	4, 5, 6, 7	5, 6, 7, 8, 9, 10, 11, 12	8, 10	8, 10, 12
Fabric* W & M Gauge		6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	6 or 9	11	11
Fabric Mesh Size		2″	2″	2″	2″	2″	2″	2″	2″	2″	2″	1¾″	1¾″
H-Beam Line Post	**Size**	2¼″	2¼″	2¼″	2¼″	2¼″	2¼″	1⅞″	2¼″	1⅞″	2¼″	1⅞″	2¼″
	Weight lbs./ft.	4.1	4.1	4.1	4.1	4.1	4.1	2.75	4.1	2.75	4.1	2.75	4.1
Line Post in Ground		3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″	3′0″
Drive Anchor Size		1½″x1½″	1½″x1½″	1½″x1½″	1½″x1½″	1½″x1½″	1½″x1½″	1¼″x1¼″	1½″x1½″	1¼″x1¼″	1½″x1½″	1¼″x1¼″	1½″x1½″
Term. Post	**Size**	2½″	2½″	2½″	2½″	2½″	2½″	2″	2½″	2″	2½″	2″	2½″
	Weight lb./ft.	5.79	5.79	5.79	5.79	5.79	5.79	3.65	5.79	3.65	5.79	3.65	5.79
Top Rail	**Size**	None	1⅝″	None	1⅝″	None	1⅝″	None	None	1⅝″	1⅝″	1⅜″	1⅝″
	Weight lbs./ft.	None	2.27	None	2.27	None	2.27	None	None	2.27	2.27	1.70	2.27

* #6 — .192 dia. #9 — .148 dia. #11 — .120 dia.

FEATURES OF ANCHOR CHAIN LINK FENCES • • • • •

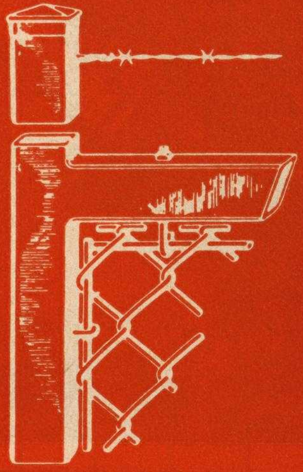
AN ANCHOR-WELD SQUARE FRAME WIRE GATE



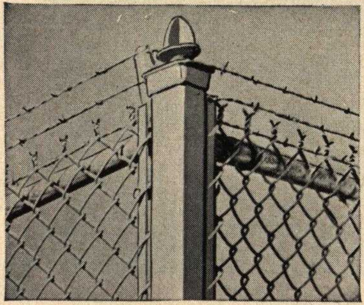
Anchor Gates, Types SD-1 and SDA-1, are made in both single and double types in standard sizes. Horizontal and vertical members of 2-inch rounded square steel tubing, inseparably butt-welded at the corners, insure unequalled beauty and strength, and provide rigidity and freedom from sagging. When maximum protection is required, and when the fence itself has barbed wire topping, the vertical gate members are extended one foot and three strands of four-point barbed wire stretched between them.

The gate frames are filled with chain link fabric to match the fence. Round steel tension rods securely hold the fabric to the frame and keep it permanently taut. Fabric can be replaced if necessary.

Because of the design of our hinges, an Anchor gate can be swung through an arc of 180°. These hinges are reversible and although they are usually set to swing the gates inward, they can be assembled to permit swinging the gates in the opposite direction.

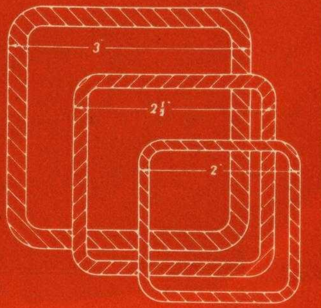


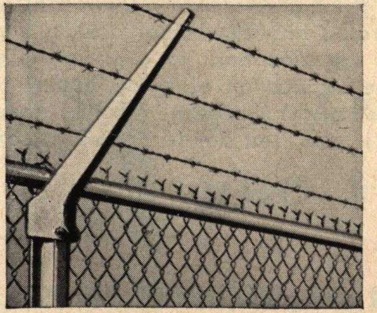
Detail of welded gate corner showing method of fastening fabric and barbed wire to frame.



THE SQUARE TERMINAL POST

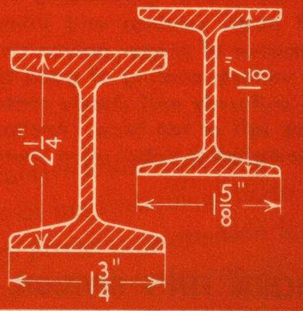
The advantages of the square post are obvious. First, it is stronger than a round post of comparable size and weight. Second, the fence fabric is fastened to the post by means of special adjustable clamps and tension strips which cannot be detached from the outside. Third, the absence of fabric-holding bands makes climbing practically impossible. Fourth, square terminal posts are much better looking, thus improving the appearance of the fence as a whole.

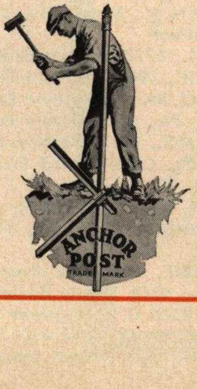




THE H-BEAM INTERMEDIATE POST

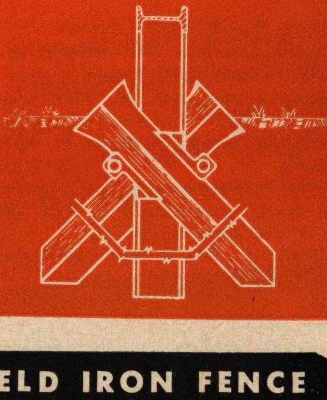
Weight for weight and size for size, an Anchor H-Beam post is much stronger than pipe or other post sections. It is made of rolled high-carbon steel and galvanized by the hot-dip spelter method, and eliminates possible corrosion at the ground line because it is self-draining. Specifying H-Beam line posts will mean much to the fence purchaser because of its longer life.





THE "DRIVE-ANCHOR"

Two galvanized clamps are fastened to post at a point which will place them just below ground surface when driven to required depth. Galvanized angle-shaped anchors of high-carbon steel are driven diagonally, and at right angles to fence, through the clamps into the ground. The advantages are: (1) front and back bracing, (2) three-foot foundation, (3) eliminates post hole digging and concrete mixing.

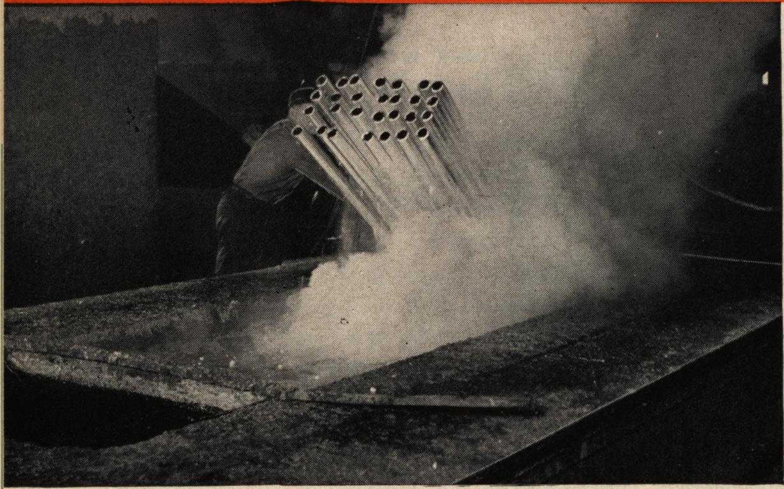


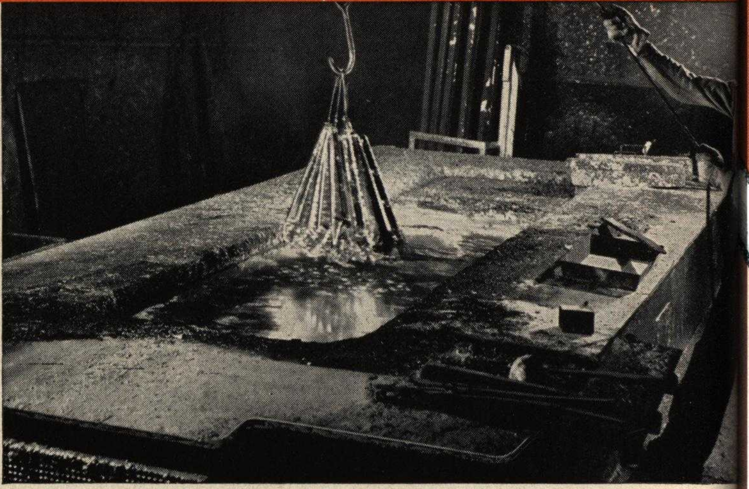
ANCHOR-WELD IRON FENCE

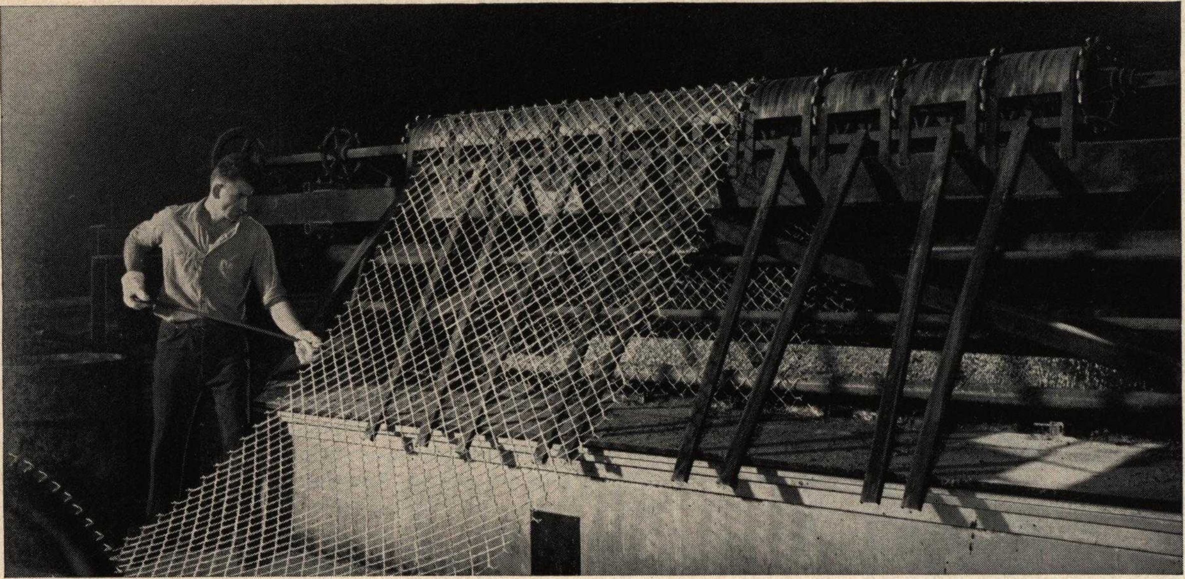
ANCHOR'S EXCLUSIVE METHOD OF

GALVANIZING AFTER FABRICATION

ELECTRICALLY FIRED—ELECTRONICALLY CONTROLLED





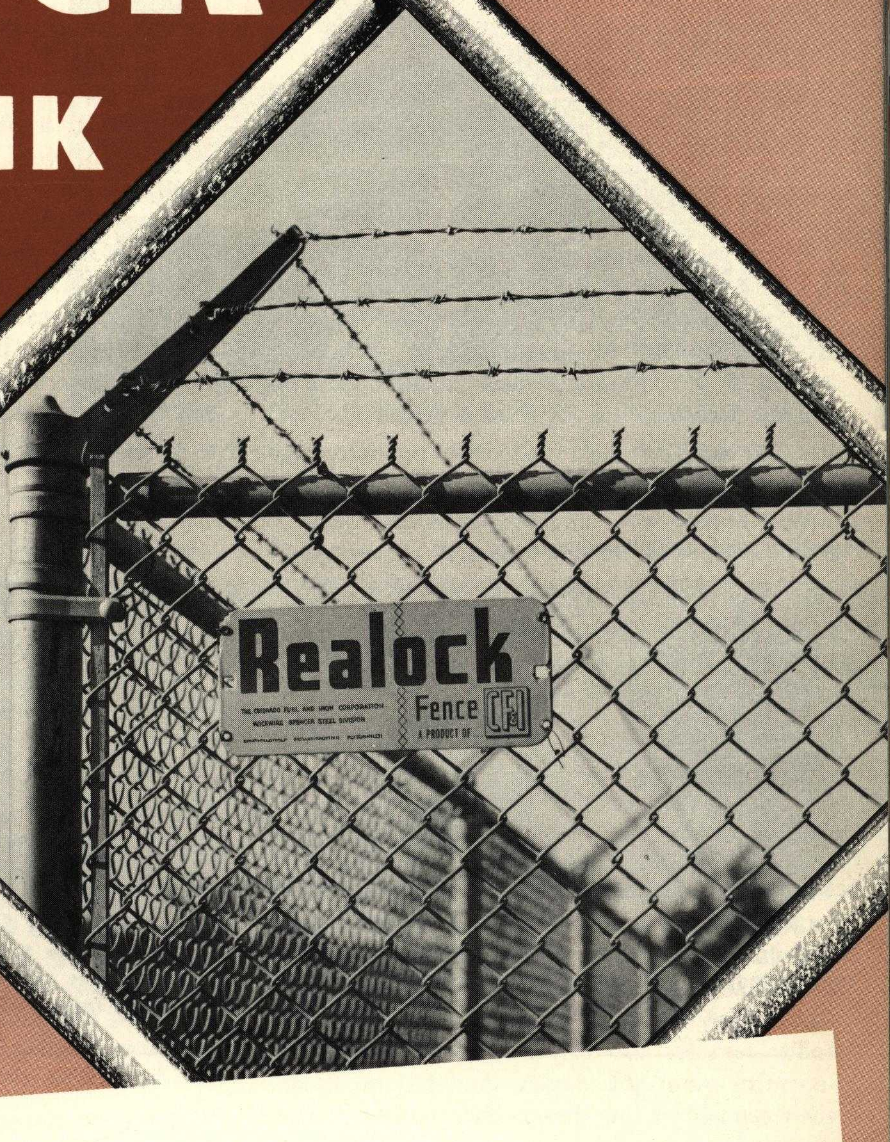


Continuous galvanizing of fence fabric and galvanizing of posts, castings and stampings demands precise maintenance of proper galvanizing kettle temperature to assure a uniform coating of good quality. Unless this temperature is uniformly and closely controlled, the coating is apt to be too soft or too hard. Anchor's exclusive method of galvanizing after fabrication overcomes this common problem. Operating electrically fired, electronically controlled, galvanizing kettles (illustrated above), Anchor actually regulates temperatures of the zinc bath to give very slight variances. Permits the application of a top quality uniform coating of zinc to our product. Another reason why an Anchor Fence is your best buy for long life, better service.

ANCHOR FENCE DIVISION, ANCHOR POST PRODUCTS, INC., 6500 EASTERN AVE., BALTIMORE 24, MD.

ALBANY 5, N. Y., 2069 Central Avenue
ATLANTA, GA., Chamblee, 3450 Miller Drive
BALTIMORE 24, MD., 6500 Eastern Avenue
BIRMINGHAM 6, ALA., P.O. Box 3074, Avondale Station
BOSTON, MASS., Newton Highlands 61, 40 Needham Street
BUFFALO, N. Y., Kenmore 23, 2250 Sheridan Dr.
CAMDEN, N. J., Merchantville 8, P.O. Box 55, Route 38 and Browning Rd. Cir.
CHICAGO 46, ILL., 5674 N. Northwest Highway
CINCINNATI 15, OHIO, 188 Reading Rd.
CLEVELAND 12, OHIO, Corner Avalon Rd. and Roseland Avenue
DALLAS, TEXAS, 3030 Fort Worth Avenue
DETROIT 40, MICH., 14335 Glenmore Avenue
ELMSFORD, N. Y., 251 E. Main St.
FARMINGDALE, L. I., N. Y., Route 110 — Broad Hollow Road
GREENSBORO, N. C., P.O. Box 411, High Point Road
GREENVILLE, S. C., Box 634, Rutherford Road
HARTFORD 5, CONN., 43 Farmington Avenue
HOUSTON 8, TEXAS, P.O. Box 7041, Heights Station
JACKSONVILLE 6, FLA., 221 E. 8th Street
JAMAICA 35, N. Y., 148-14 Liberty Avenue
KANSAS CITY, MO., 2805 E. 85th Street
KNOXVILLE, TENN., 401 Commercial Bank Bldg.
MIAMI 47, FLA., P.O. Box 47065, Northwest Branch
MINNEAPOLIS 8, MINN., 3519 Hennepin Avenue
MERTARIE, LA., 3218 25th Street
NEW YORK 17, N. Y., Room 1806, Lincoln Bldg., 60 E. 42nd Street
NORFOLK 2, VA., 6723 Virginia Beach Blvd.
OAKLAND, CALIF., 1980 Mountain Road
PHILADELPHIA 42, PA., 3213 Island Road
PITTSBURGH 34, PA., 2522 Library Road
ST. LOUIS 17, MO., 2712 Brentwood Boulevard
SACRAMENTO 22, CALIF., 5675 Freeport Boulevard
SAN ANTONIO, TEXAS, 124 Lombrano Street
SOUTH SAN FRANCISCO, CALIF., 935 Linden Avenue
SEATTLE 7, WASH., 4502 14th Avenue, N.W.
TAMPA 11, FLA., 4316 Gandy Boulevard
UNION, N. J., 2565 U. S. Highway 22
WASHINGTON 3, D. C., 1317 Half Street, S.E.
WHITTIER, CALIF., 620 Putnam Drive

REALOCK
CHAIN LINK FENCE



FOR ARCHITECTS WHO SPECIFY

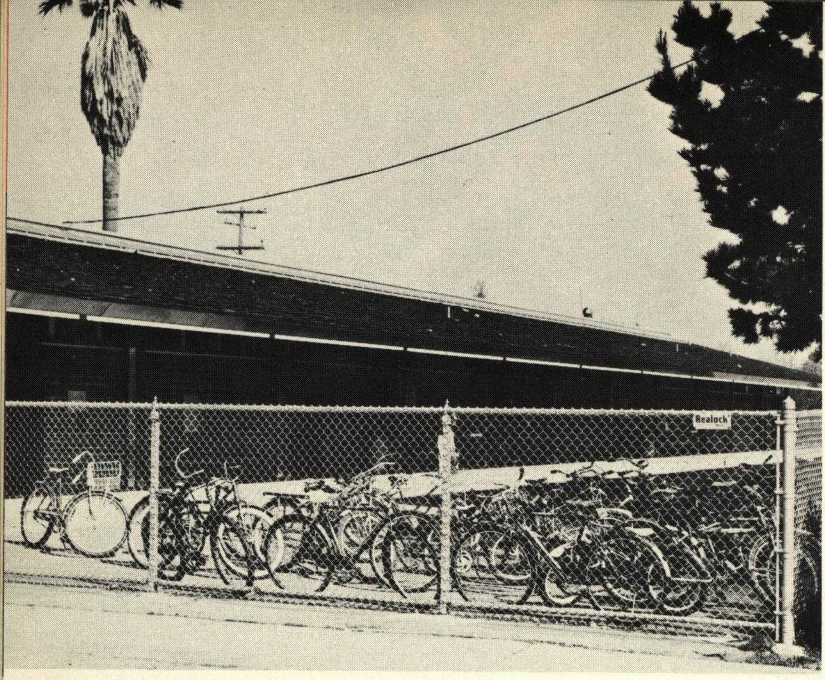
Durability and Appearance

When jobs call for strong, attractive fence—for industrial properties, municipalities or institutions, private dwellings or other areas where property protection is needed—you can be sure of lasting quality by specifying Realock Fence.

The sturdy steel fabric is heavily galvanized *after* weaving for long-lasting resistance to weather and other corrosive elements. What's more, Realock's attractive, symmetrical construction blends with any background, adding beauty to the area it protects.

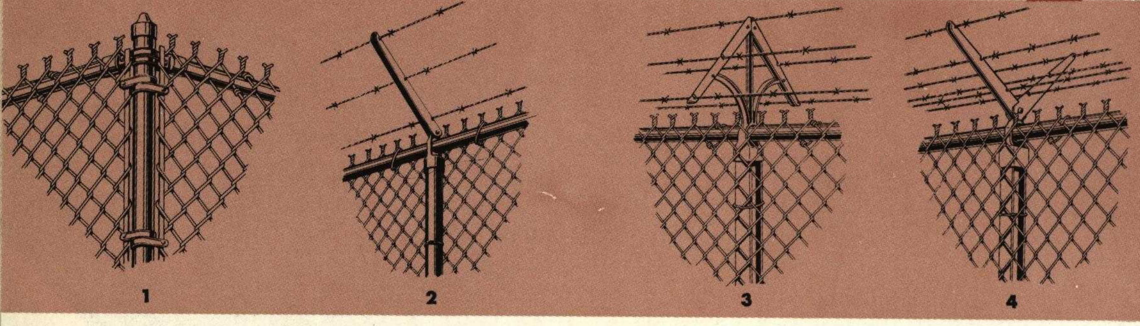
REA

A one-time i



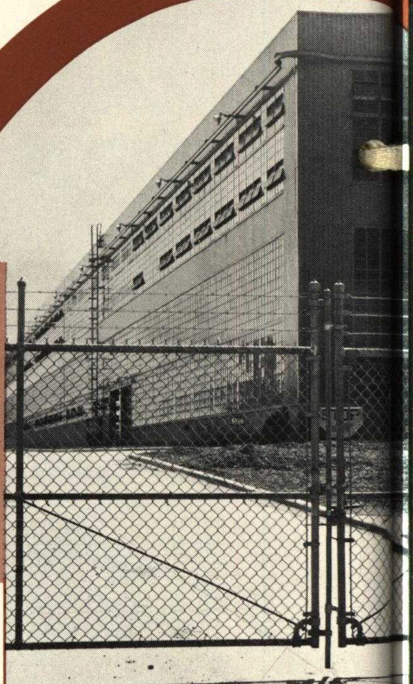
Types 320 and 320H (light construction) standard heights 3′ to 6′ inclusive.

Types 420 and 420H (heavy construction) heights up to and including 12′—without barbed wire, ideal for residences, schools, parks and for some industrial and institutional use.

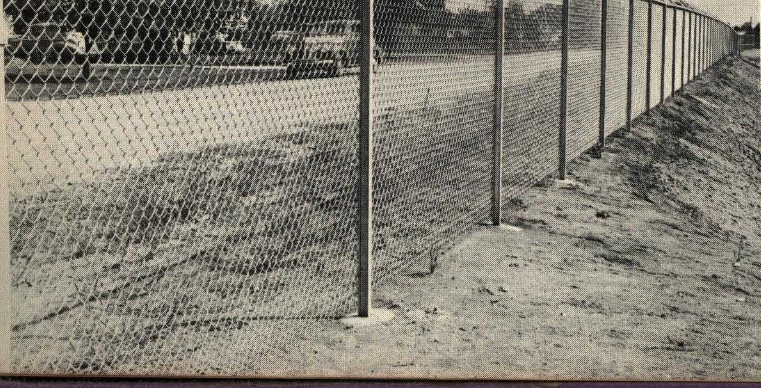


(1) 420 without barbed wire topping; (2) 423 with 3 strand construction; (3) 425 with 5 strand construction; (4) 426 with 6 strand construction.

Types 425 and 426 with 5 or 6 strands of barbed wire, will assure the ultimate in protection from both sides of the fence. For complete specifications refer to back cover page.



Realock Gates—either slide or swing type; same height as fence. Openings from 2 to 75 feet wide. Gates are constructed of full weight tubular steel, and filled with fabric matching that of the fence.

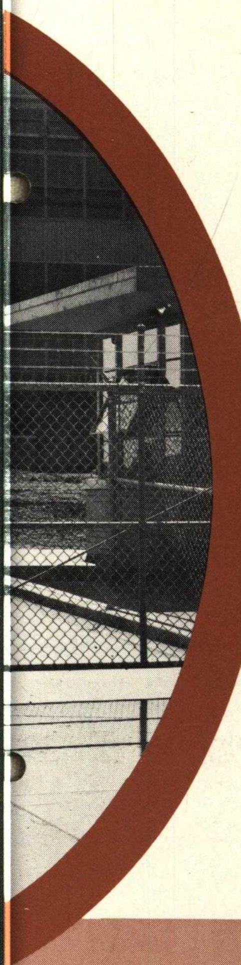


Types 323 and 323H (light construction) standard heights 6′ and 7′.

Types 423 and 423H (heavy construction) standard heights up to and including 13′—3 strands of barbed wire—provides effective protection for industrial, institutional and utility properties, and any other locations where limited access is desirable.

LOCK FENCE

estment...for long-term protection



Realock Chain Link Fence offers positive protection for any area where limited access is important. It is the only fence with all essential fittings accessible only from the inside, making destruction of the tough Realock Fabric necessary to gain forcible entry. Its mere existence discourages illegal entrance attempts. Arson, theft, vandalism and trespassing are virtually eliminated. You can be sure that any area protected by a rugged Realock Fence has maximum security and privacy.

But a Realock Fence not only gives security—it can reduce the costs of conventional protection. Fewer watchmen are needed and patrol requirements are reduced to a minimum. Maintenance costs are practically non-existent—Realock's fabric, fittings and posts are weather-resistant. A Realock Fence requires minimum maintenance; it withstands the severest storms; and it cannot rot or decay. Realock Fence is built for a lifetime of service.

* * * * *

STEEL FABRIC. Realock Fabric is woven from top-quality steel wire, and is thoroughly galvanized *after* weaving by the hot-dip process, which insures a heavy, uniform coating over its entire surface.

SELVAGE. For heights up to and including 4', the standard selvage is barbed one edge and knuckled one edge. For heights 5' and higher, both edges barbed. Specials can be furnished with both ends knuckled or a combination of both.

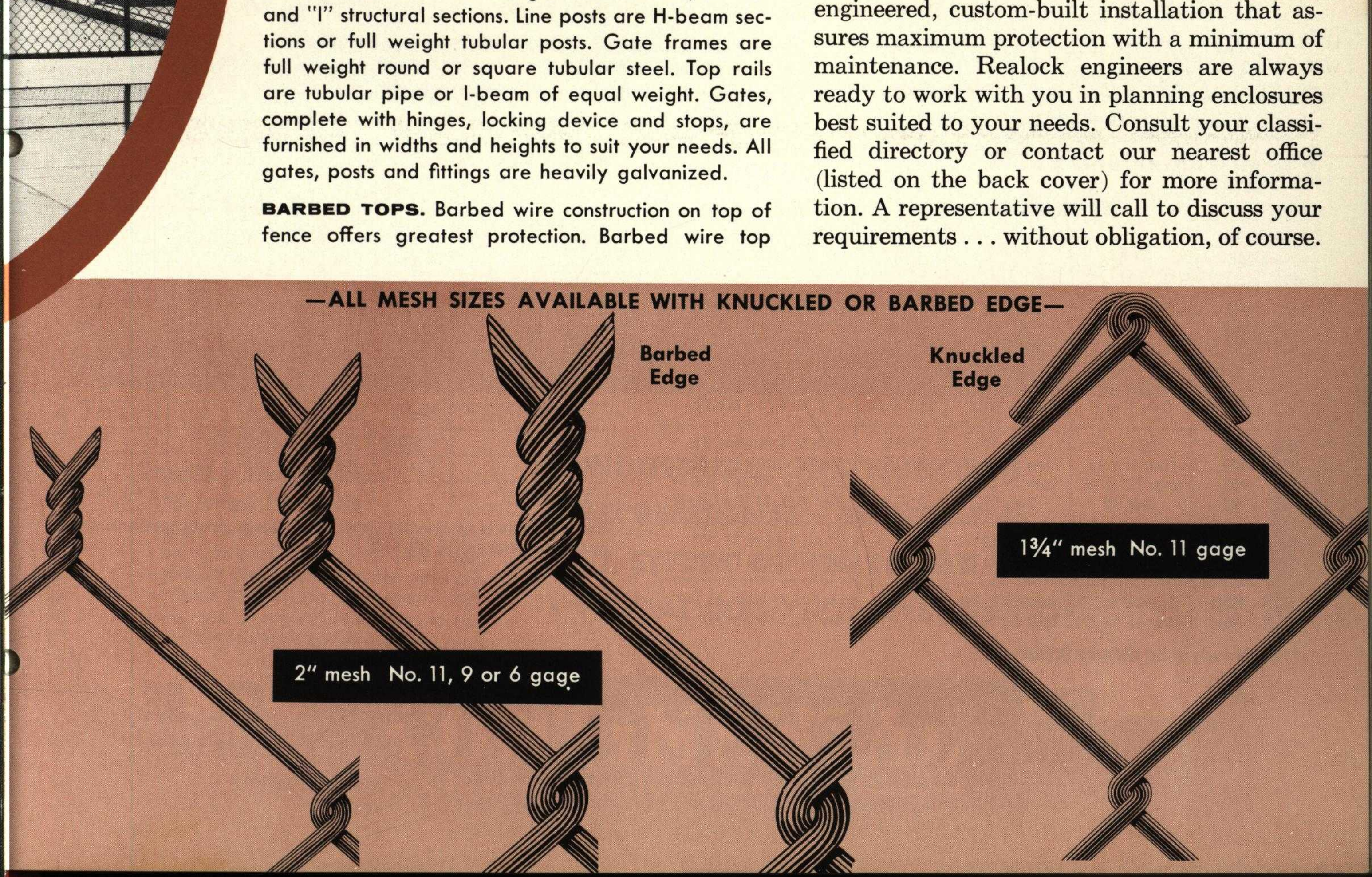
POSTS, FITTINGS AND GATES. Terminal posts are constructed of full weight tubular steel, or "H" and "I" structural sections. Line posts are H-beam sections or full weight tubular posts. Gate frames are full weight round or square tubular steel. Top rails are tubular pipe or I-beam of equal weight. Gates, complete with hinges, locking device and stops, are furnished in widths and heights to suit your needs. All gates, posts and fittings are heavily galvanized.

BARBED TOPS. Barbed wire construction on top of fence offers greatest protection. Barbed wire top finish comes in 3, 5 or 6 strands, supported on arms above the fabric.

ALUMINUM AVAILABLE. Realock Fence is also available in aluminum. The aluminum fabric, fittings and posts cannot corrode—they are maintenance-free. Realock Aluminum Chain Link Fence is especially desirable in areas where climatic conditions or corrosive airborne industrial wastes make for excessive maintenance costs.

Each Realock Fence is furnished as a specially engineered, custom-built installation that assures maximum protection with a minimum of maintenance. Realock engineers are always ready to work with you in planning enclosures best suited to your needs. Consult your classified directory or contact our nearest office (listed on the back cover) for more information. A representative will call to discuss your requirements . . . without obligation, of course.

—ALL MESH SIZES AVAILABLE WITH KNUCKLED OR BARBED EDGE—



• specifications

USE	OVERALL HEIGHT	TYPE NO.	STRANDS OF BARBS	SIZE OF RAIL OR COILED SPRING WIRE	SIZE OF LINE POST	END OR CORNER POST	SIZE OF MESH	GAGE OF WIRE
INDUSTRIAL—INSTITUTIONAL	5′-6′-7′-8′-9′ 10′-11′-12′-13′ (See Note)	426H* 425H 423H* 420H*	6 5 3 0	1⅝″ O.D. Pipe (2.27 # Lin. Ft.)	2¼″ H-(4.1 # Lin. Ft.)	3″ I-(6.5 # Lin. Ft.) *** or 3″ O.D. (5.79 # Lin. Ft.)	2″	No. 9 or No. 6
	6′-7′	323H*	3		1⅞″ H-(2.8 # Lin. Ft.)	2½″ O.D. (3.65 # Lin. Ft.)		
	5′-6′-7′-8′-9′ 10′-11′-12′-13′ (See Note)	406H* 405H 403H* 400H*	6 5 3 0	No. 7 Coiled Spring Wire	2¼″ H-(4.1 # Lin. Ft.)	3″ I-(6.5 # Lin. Ft.) *** or 3″ O.D. (5.79 # Lin. Ft.)		
	6′-7′	303H*	3		1⅞″ H-(2.8 # Lin. Ft.)	2½″ O.D. (3.65 # Lin. Ft.)		
	5′-6′-7′-8′-9′ 10′-11′-12′-13′ (See Note)	426 425 423 420	6 5 3 0	1⅝″ O.D. Pipe (2.27 # Lin. Ft.)	2½″ O.D. (3.65 # Lin. Ft.)	3″ O.D. Pipe (5.79 # Lin. Ft.)		
	6′-7′	323	3		2″ O.D. (2.72 # Lin. Ft.)	2½″ O.D. (3.65 # Lin. Ft.)		
	5′-6′-7′-8′-9′ 10′-11′-12′-13′ (See Note)	406 405 403 400	6 5 3 0	No. 7 Coiled Spring Wire	2½″ O.D. (3.65 # Lin. Ft.)	3″ O.D. Pipe (5.79 # Lin. Ft.)		
	6′-7′	303	3		2″ O.D. (2.72 # Lin. Ft.)	2½″ O.D. (3.65 # Lin. Ft.)		
RESIDENTIAL		320H* 310H* 300H*	0 0 0	1⅝″ O.D. Pipe (2.27 # Lin. Ft.) 1⅜″ O.D. Pipe (1.68 # Lin. Ft.) No. 7 Coiled Spring Wire	1⅞″ H-(2.8 # Lin. Ft.)	2½″ O.D. Pipe (3.65 # Lin. Ft.)	2″	No. 9 or No. 6
	3′-3′6″ 4′-5′-6′	320 310 300	0 0 0	1⅝″ O.D. Pipe (2.27 # Lin. Ft.) 1⅜″ O.D. Pipe (1.68 # Lin. Ft.) No. 7 Coiled Spring Wire	2″ O.D. Pipe (2.72 # Lin. Ft.)			
	3′-3′6″-4′	210 200	0 0	1⅜″ O.D. Pipe (1.68 # Lin. Ft.) No. 7 Coiled Spring Wire	1⅝″ O.D. Pipe (2.27 # Lin. Ft.)	2″ O.D. Pipe (2.72 # Lin. Ft.)		No. 9 or No. 11
		T1** T0**	0 0	1⅜″ O.D. Pipe (1.68 # Lin. Ft.) No. 7 Coiled Spring Wire	"T" (1.5 # Lin. Ft.) "T" (1.5 # Lin. Ft.)			
TENNIS COURTS	8′-10′-12′	420H 420 310	0 0 0	1⅝″ O.D. Pipe (2.27 # Lin. Ft.) 1⅝″ O.D. Pipe (2.27 # Lin. Ft.) 1⅜″ O.D. Pipe (1.68 # Lin. Ft.)	2¼″ H-(4.1 # Lin. Ft.) 2½″ O.D. (3.65 # Lin. Ft.) 2″ O.D. (2.72 # Lin. Ft.)	3″ I-(6.5 # Lin. Ft.) *** 3″ O.D. (5.79 # Lin. Ft.) 2½″ O.D. (3.65 # Lin. Ft.)	1¾″	No. 11

*These types can be furnished in the mid-continent area with fabricated line posts. Such types are followed by suffix "HF" instead of "H".

Not furnished by the Wickwire Division. *****Furnished only by the Wickwire Division

All posts set in concrete. For posts set in concrete walls or rock, a depth equal to 4 times diameter is recommended. Except Type T1.

Note: In Types 400H-420-400 maximum height of 12′ is standard.

• gate frames and posts

TYPE OF FENCE	GATE OPENINGS		GATE	
	Single	Double	Frame	Post Size & Weight
T1 —TO 210 —200 310 —300	Up to 6′ Up to 6′ Up to 6′	Up to 12′ Up to 12′ Up to 12′	1⅛″ O.D. 1⅛″ O.D. 1⅜″ O.D.	2″ O.D.-2.72 # Lin. Ft. 2″ O.D.-2.72 # Lin. Ft. 2½″ O.D.-3.65 # Lin. Ft.
320 —300 323 —303	Up to 4′ Over 4′ to 8′	Up to 8′ Over 8′ to 16′	1⅝″ O.D. 1⅝″ O.D.	2½″ O.D.-3.65 # Lin. Ft. 3″ O.D.-5.79 # Lin. Ft.
420 —400 423 —403 425 —405 426 —406	Up to 6′ Over 6′ to 13′ Over 13′ to 18′ Over 18′	Up to 12′ Over 12′ to 26′ Over 26′ to 36′ Over 36′	2″ O.D. 2″ O.D. 2″ O.D. 2″ O.D.	3″ O.D.-5.79 # Lin. Ft. 4″ O.D.-9.10 # Lin. Ft. 6⅝″ O.D.-18.97 # Lin. Ft. 8⅝″ O.D.-24.60 # Lin. Ft.
420H—400H 423H—403H	Up to 6′ Over 6′ to 13′	Up to 12′ Over 12′ to 26′	2″ Sq. or 2″ O.D.	3″ I-6.5 # Lin. Ft. *** 4″ H-14 # Lin. Ft. ***
425H—405H 426H—406H	Over 13′ to 18′ Over 13′ to 18′	Over 26′ to 36′ Over 26′ to 36′		6⅝″-18.97 # Lin. Ft. 6⅝″-18.97 # Lin. Ft.

*****Furnished only by the Wickwire Division**

• footing chart

TYPES		Line Post		End & Corner		Gate Post	
	Height of Fence	Dia. at Top	Depth	Dia. at Top	Depth	Dia. at Top	Depth
T1-210-310-320	To 4′	8″	24″	10″	30″	10″	30″
310 Tennis	To 12′	10″	36″	12″	36″	12″	36″
320-420-310H	To 4′	10″	24″	12″	30″	12″	30″
323-323H	To 7′	10″	36″	12″	36″	12″	36″
420-420H	5′ to 12′	10″	36″	12″	36″	12″	36″
423-423H	5′ to 12′	10″	36″	12″	36″	12″	36″
425-425H	5′ to 12′	10″	36″	12″	36″	12″	36″
426-426H	5′ to 12′	10″	36″	12″	36″	12″	36″
6⅝″ & 8⅝″						16″	48″

The above table is for standard construction. Special ground conditions may develop, requiring special size holes.

REALOCK FENCE

THE COLORADO FUEL AND IRON CORPORATION
THE COLORADO FUEL AND IRON CORPORATION — Denver and Oakland
WICKWIRE SPENCER STEEL DIVISION — Buffalo, New York
BRANCHES IN ALL KEY CITIES

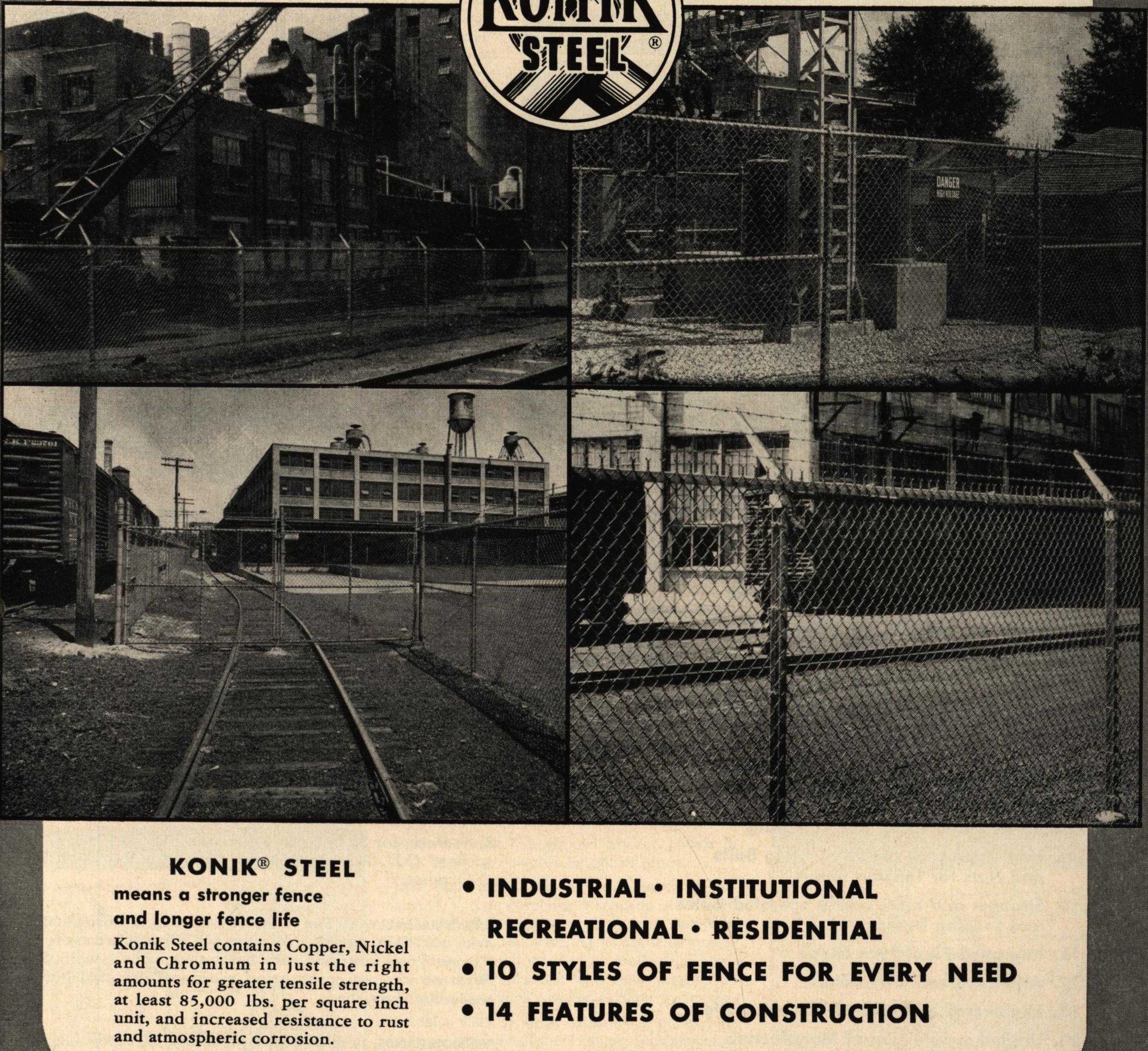
F-936-30,950-8/59 DKM-PP
Printed in U.S.A.

CONTINENTAL®

CHAIN LINK FENCE

The only fence made of Konik steel

KONIK STEEL®



KONIK® STEEL

means a stronger fence and longer fence life

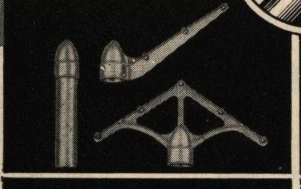
Konik Steel contains Copper, Nickel and Chromium in just the right amounts for greater tensile strength, at least 85,000 lbs. per square inch unit, and increased resistance to rust and atmospheric corrosion.

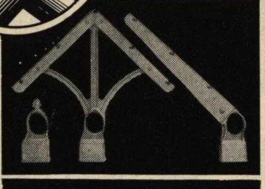
- **INDUSTRIAL • INSTITUTIONAL RECREATIONAL • RESIDENTIAL**
- **10 STYLES OF FENCE FOR EVERY NEED**
- **14 FEATURES OF CONSTRUCTION**

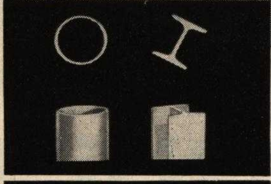
CONTINENTAL

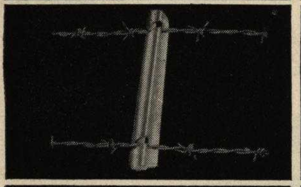
STEEL CORPORATION • KOKOMO, INDIANA

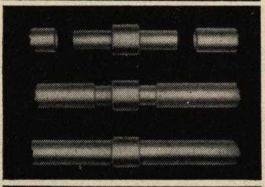
CONTINENTAL®

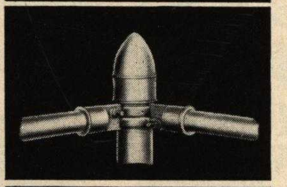

HEAVIER TERMINAL POST TOPS

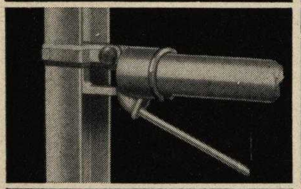

HEAVIER LINE POST TOPS

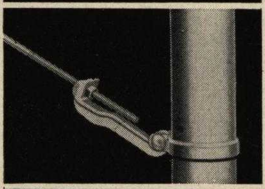

TUBULAR or H SECTION LINE POSTS

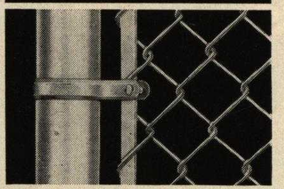

DETAIL OF SELF LOCKING BARB ARM

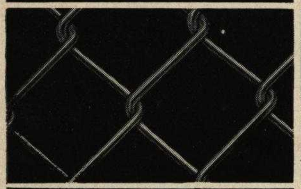

NEW TOP RAIL COUPLING

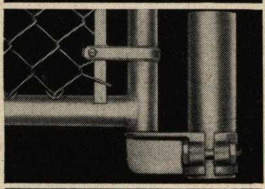

TOP RAIL FITTINGS AT CORNER POSTS

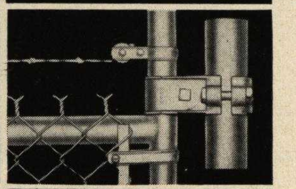

IMPROVED DESIGN OF BRACE AND TRUSS ROD FITTINGS


TRUSS FITTINGS AT BASE OF TERMINAL POSTS


NEW TENSION LOCK PIN ELIMINATES NUTS AND BOLTS


NO FROZEN JOINTS— Heavy uniform zinc coating


WELDED GATE FRAME AND BOTTOM PIVOT HINGE


WELDED GATE FRAME AND TOP HINGE

14 Reasons

why Continental Fence costs less per year of fence life...

1. **"Hot Dip" Galvanized throughout**
2. **Higher tensile strength wire in fabric**
3. **Full gauge wire woven in exact mesh**
4. **Heavier "H" Section Line Posts**
5. **Self-Locking Barb Arm**
6. **Heavier Post Caps and Arms**
7. **More Post and Top Rail Ties**
8. **Inside Outside Top Rail Coupling**
9. **New Type Lock Pin Eliminating Bolts and Nuts for Tension Bands**
10. **Stronger and more easily operated Gates and Locking Devices**
11. **Improved Pivot Type Hinge**
12. **All First Quality Materials**
13. **Engineered and erected for longer life**
14. **Unified supervision of Manufacture**

PLUS

KONIK® STEEL

THE METAL THAT PROVIDES GREATER TENSILE STRENGTH AND INCREASED RESISTANCE TO RUST AND ATMOSPHERIC CORROSION

MADE STRONGER
Heavy

General Specifications

QUALITY OF MATERIALS: All steel including fabric, pipe, H-section posts, and fittings to be first quality, full weight "Hot Dip" Galvanized. All weights and dimensions are nominal.

FABRIC GALVANIZED AFTER WEAVING: 9 or 6 ga. wire woven into a 2″ Chain-Link mesh "Hot Dip" Galvanized after Fabrication. Zinc coating by weight to be not less than 1.2 oz. per sq. ft. Wire used in fabric will be "KONIK" Steel, containing Copper, Nickel and Chromium for greater tensile strength and rust resistance, and the tensile strength shall be, at least, 85,000 lbs. per sq. in. unit tensile stress. The top and bottom selvages of the fabric will be barbed.

LINE POSTS: "H" section, weight 4.3 lbs. per ft., or 2½″ O.D. tubular pipe, weight 3.65 lbs. per ft. Spaced not more than 10′ apart on centers, and set not less than 36″ in concrete footings.

TOP RAIL: Tubular steel pipe 1⅝″ O.D. Weight 2.28 lbs. per ft. provided with 7″ long inside and outside expansion sleeve couplings.

ALUMINUM FABRIC TIES: 6 ga. round. 6 furnished to each 10′ of rail, and one to each foot of line post height.

TENSION WIRE: 6 ga., high carbon, coiled spring wire shall be used with no rail construction at top of fabric.

TERMINAL POSTS: Tubular steel pipe to extend 36″ in concrete footings. End, Corner, and Pull Posts 3″ O.D. weight 5.79 lbs. per ft. List of minimum gate post sizes for various width swinging gates follow:

MINIMUM GATE POST SIZES		GATE WIDTH	
size	lbs. per ft.	single	double
3″ O.D.	5.79	6′ and under	12′ and under
4″ O.D.	9.11	Over 6′ to 13′	Over 12′ to 26′
6⅝″ O.D.	18.97	Over 13′ to 18′	Over 26′ to 36′
6⅝″ O.D.	28.57	Over 18′	Over 36′

Gate Posts for Slide Gates: Up to and including 30′ wide to be 4″ O.D. Slide Gates wider than 30′ to be double 4″ O.D. posts.

BRACE ASSEMBLY: All End and Gate Posts braced horizontally with 1⅝″ O.D. tubular steel pipe and adjustable truss rod. Corner Posts furnished with 2 complete brace assemblies. With no top rail construction additional diagonal brace assemblies furnished.

TENSION BANDS: Beveled edge type, slotted to receive special lock pin, ELIMINATING BOLTS AND NUTS. One for each ft. of fabric height.

WELDED GATE CONSTRUCTION: Frames 2″ O.D. tubular pipe, weight 2.72 lbs. per ft. Corners electrically welded. Fabric filler same as fence. Malleable iron pivot, or offset pin type hinge fitting.

CHAIN LINK FENCE

TO LAST LONGER

Construction

10 STYLES TO CHOOSE FROM—Add Following Detail Specifications for the Style Selected

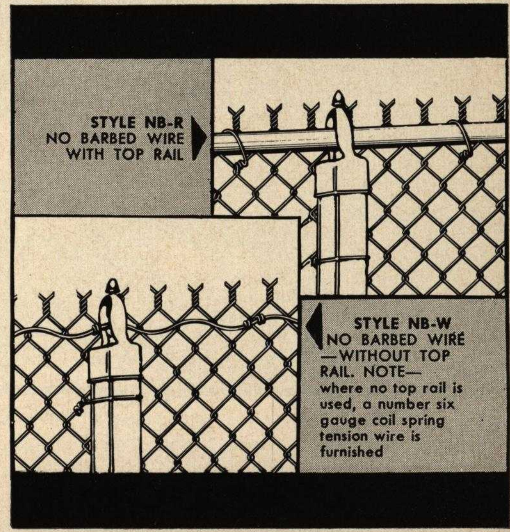
Style NB-R no barbed wire

HEIGHTS: Built 5′ high and higher. Fabric full height of fence.

LINE POST TOPS: Heavy malleable iron to fit over post. Provides for either top rail or tension wire.

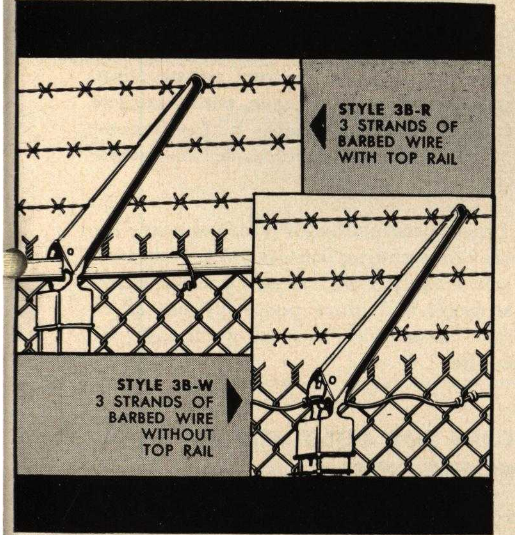
TERMINAL POST TOPS: End, Corner, and Gate Posts fitted with heavy malleable iron tops of bullet type construction.

TENNIS COURT style is built in standard heights of 8′, 10′ and 12′. Specifications are exactly the same as NB-R, above. Gate frames are 1⅝″ O.D. pipe. Top and bottom selvages of fabric are knuckled. Tennis Court style, 12′ in height, furnished with middle rail as well as top rail.



STYLE NB-R
NO BARBED WIRE
WITH TOP RAIL

STYLE NB-W
NO BARBED WIRE
—WITHOUT TOP RAIL. NOTE—
where no top rail is used, a number six gauge coil spring tension wire is furnished



STYLE 3B-R
3 STRANDS OF
BARBED WIRE
WITH TOP RAIL

STYLE 3B-W
3 STRANDS OF
BARBED WIRE
WITHOUT
TOP RAIL

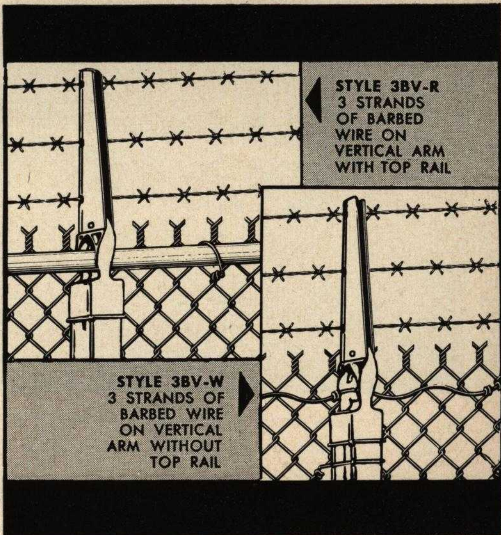
Style 3B-R 3 strands barbed wire

HEIGHTS: Built 5′ high and higher. Fabric is 1 ft. less than overall height of fence.

LINE POST ARMS: 45 degree angle, or vertical arm of 12 ga. pressed steel riveted to malleable base, carrying three strands of barbed wire. *Barbed wire attached to arm in angle slot, being automatically locked in place by tension.*

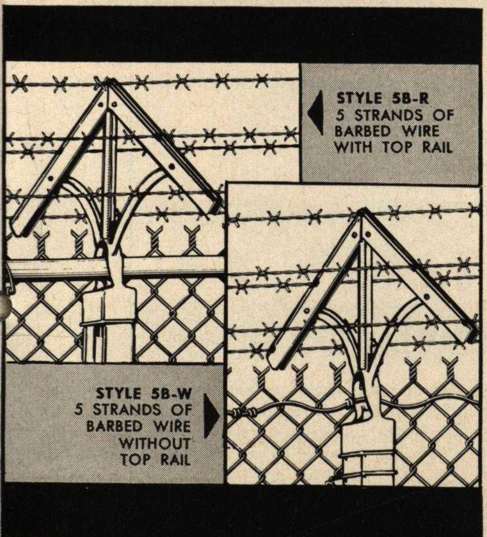
BARBED WIRE: 3 strands, 4 point pattern, composed of 2—12½ ga. wires twisted with large barbs spaced 3″ apart, *hot-dip galvanized after fabrication.*

TERMINAL POST ARMS AND TOPS: End and Corner Posts fitted with heavy malleable iron arms to carry barbed wire. Gate Posts fitted with heavy malleable iron tops of bullet type construction.



STYLE 3BV-R
3 STRANDS
OF BARBED
WIRE ON
VERTICAL ARM
WITH TOP RAIL

STYLE 3BV-W
3 STRANDS OF
BARBED WIRE
ON VERTICAL
ARM WITHOUT
TOP RAIL



STYLE 5B-R
5 STRANDS OF
BARBED WIRE
WITH TOP RAIL

STYLE 5B-W
5 STRANDS OF
BARBED WIRE
WITHOUT
TOP RAIL

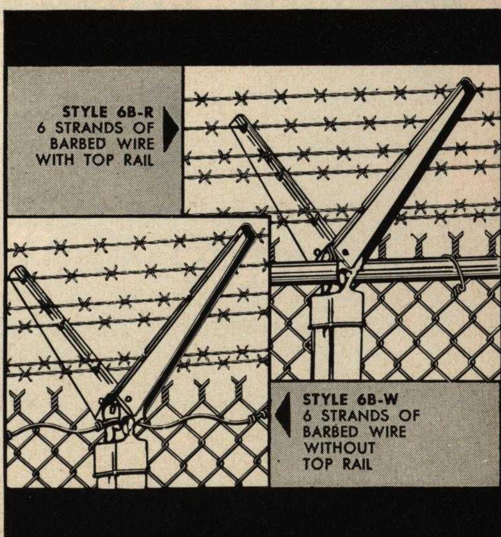
Style 5B-R & 6B-R

HEIGHTS: Built 7′ high and higher. Fabric is 1 ft. less than overall height of fence.

LINE POST ARMS: 5B-R furnished with inverted V type carrying 5 strands of barbed wire; 6B-R furnished with V type, carrying 6 strands barbed wire. Arms made of pressed steel riveted to heavy malleable base. *Barbed Wire attached to arm in angle slot, being automatically locked in place by tension.*

BARBED WIRE: 5 or 6 strands, 4 point pattern, composed of 2—12½ ga. wires twisted with large barbs spaced 3 in. apart, *hot-dip galvanized after fabrication.*

TERMINAL POST ARMS AND TOPS: End and Corner Posts fitted with heavy malleable iron arms to carry barbed wire. Gate Posts fitted with heavy malleable iron tops of bullet type construction.

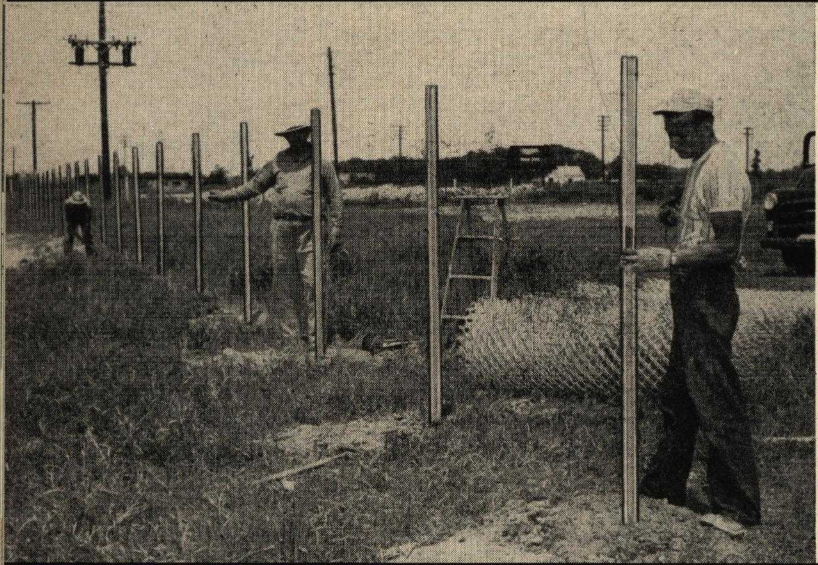


STYLE 6B-R
6 STRANDS OF
BARBED WIRE
WITH TOP RAIL

STYLE 6B-W
6 STRANDS OF
BARBED WIRE
WITHOUT
TOP RAIL

CONTINENTAL® CHAIN LINK FENCE

ENGINEERING AND CONSTRUCTION SERVICE



CAREFUL PLANNING ON EVERY JOB TO FIT INDIVIDUAL NEEDS WITH UTMOST ECONOMY

The actual construction of a fence is an important part of fence quality and fence user satisfaction. Continental Chain Link Fence installations are carefully supervised from start to finish by qualified engineers with years of experience in making Continental Fence installations for some of the largest and best known organizations in the country. Every installation is "tailor made" to your needs, and to give you the very best value for your investment. A list of users located in your area is available on request.

LEFT—Erecting line posts for a Continental installation. Continental H-Section line posts are 15 percent heavier for greater strength and durability. Each post is set in a permanent concrete footing.

CONTINENTAL CONSTRUCTION CREWS TRAINED TO BE THE BEST IN THE COUNTRY

Skilled crews of experienced men are available for every Continental Chain Link Fence installation. When customer furnishes labor, Continental will supply competent foremen and supervision to insure correct construction. Thousands of installations have been made, with complete satisfaction to users—proof of the quality of Continental Fence materials and the skill with which each Continental Fence is constructed.

LEFT—Assembling brace construction for terminal post. One of Continental's many outstanding features is the improved design in braces and trusses. Continental's end, gate and corner posts are stronger and more positively braced to withstand shocks and abuses and to stand up longer, for more years of fence life.

SALES OFFICES OR DISTRIBUTORS FOR CONTINENTAL® FENCE ARE LOCATED IN MOST PRINCIPAL CITIES

If a Continental representative is not located in your city, write to Kokomo direct, for information on the cost of fence for your property, without cost or obligation. Be sure to ask for a copy of the latest edition of PLANNED PROTECTION a valuable manual on Chain Link Fence that will help visualize your fence needs and requirements.

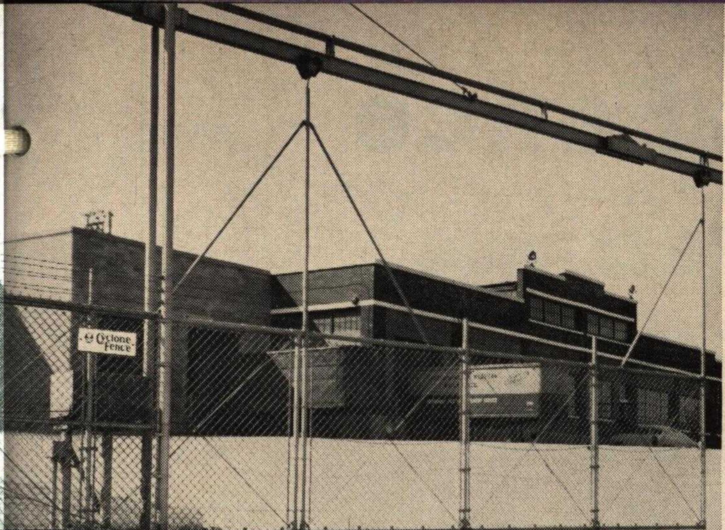
PLANNED PROTECTION
CONTINENTAL chain link FENCE

PLANNED PROTECTION shows 25 ways in which Continental Chain Link Fence can be used profitably for protection, safety, extra storage or traffic and personnel control. It is profusely illustrated with the various styles and types of fence from which to choose, and lists a few of the thousands of satisfied users of Continental Chain Link Fence.

CONTINENTAL

STEEL CORPORATION · KOKOMO, INDIANA

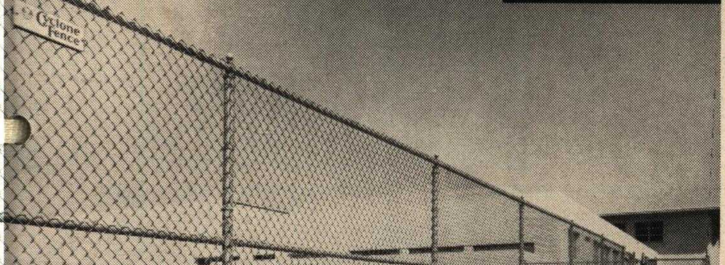
PRODUCERS of Manufacturer's Wire in many sizes, tempers and finishes, including Galvanized, KOKOTE, BRYTITE, Flame-Sealed, Coppered, Tinned, Annealed, Liquor Finished, Bright, and special shaped wire. Also Welded Wire Reinforcing Fabric, Nails, Continental Chain Link Fence and other products.



INDUSTRIAL PLANTS

Cyclone Fence

SCHOOLS



PARKS

USS

Cyclone Fence

superior protection . . .

for ▸ plants
▸ people
▸ property

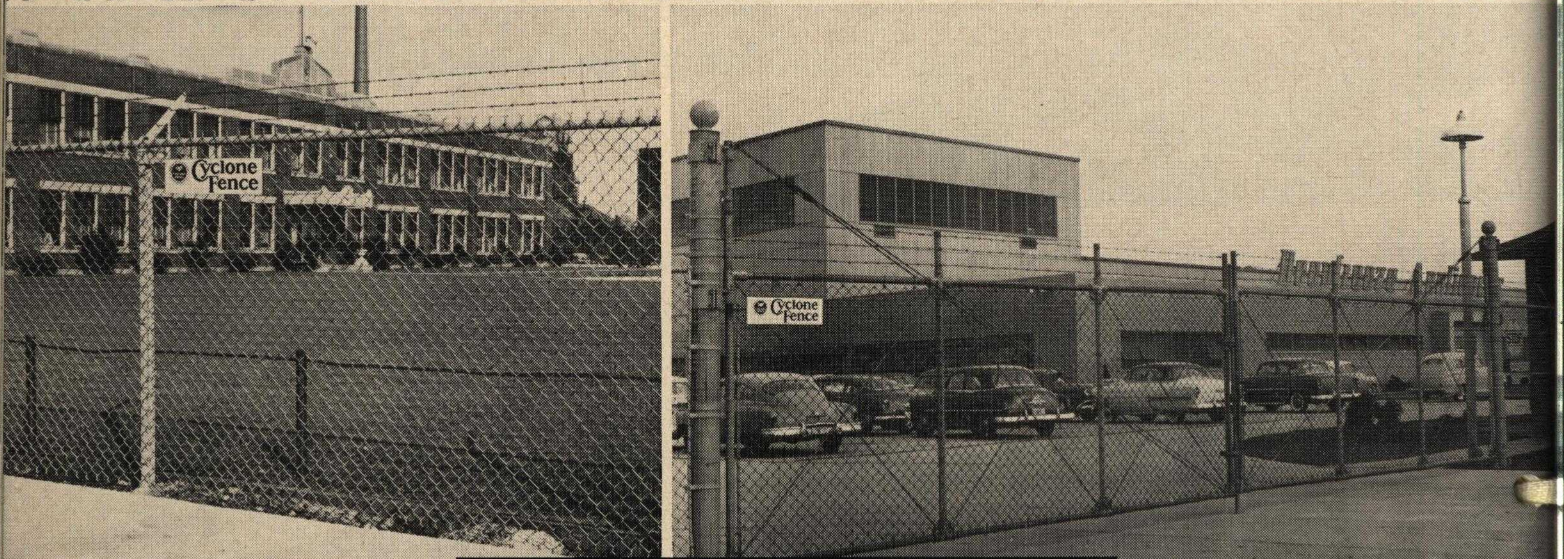
There are many good reasons why Cyclone Fence is the world's most widely used property protection fence. It is manufactured in such a variety of heights and styles that it is suitable for use almost everywhere fence is required. Cyclone Chain Link Fence, when equipped with top strands of barbed wire, keeps thieves and vandals outside of important industrial plants and vital municipal properties. When installed around schools, Cyclone Fence protects children from wanderlust, from tramps and vicious dogs. At parks and playgrounds, Cyclone Fence establishes boundary lines, controls admissions and regulates opening and closing hours.

Cyclone Fence is a wise investment. It gives you full value for your dollar. Nothing but brand-new, top-quality material is used throughout. Posts and top rails are heavy and rigid. Gates won't drag. The chain link fabric is woven from heavy steel wire and galvanized *after* weaving for greatest resistance to rust and corrosion. For more information on Cyclone Fence, get in touch with our nearest sales office—listed on page 4—and write for our free Cyclone literature and Composite Specifications Folder.

USS and Cyclone are registered trademarks

USS

USS Cyclone Fence



CYCLONE INVINCIBLE CHAIN LINK FENCE

Standard height, 7 ft. Built in heights up to and including 12 ft. In all heights, Chain Link fabric is 1 ft. less than complete height of fence.

FABRIC—"Galv-After" Chain Link steel wire, heavily zinc-coated (or hot-galvanized) by hot-dip process after weaving. No. 9 or No. 6 gauge wire woven in a 2-in. mesh. Top and bottom selvages have twisted and barbed finish. Barbing is done by cutting wire on a bias, thus creating sharp points.

POSTS—Line posts—H-column (2″ x 2¼″); weight 4.1 lbs. per lin. ft.; carbon content .35%.

END, CORNER, ANGLE AND PULL POSTS—3-in. outside diameter, standard full-weight tubular steel. Weight 5.79 lb. per lin. ft.

SWING GATE POSTS—3-in. outside diameter; weight 5.79 lb. per lin. ft. for single-swing gates up to and including 6-ft. opening and for double-swing gates up to and including 12-ft. opening.

4-in. outside diameter; weight 9.1 lb. per lin. ft. for single-swing gates wider than 6-ft. opening and up to and including 13-ft. opening; also for double-swing gates wider than 12-ft. opening and up to and including 26-ft. opening.

6⅝-in. outside diameter; weight 18.97 lb. per lin. ft. for single-swing gates wider than 13-ft. opening up to and including 18-ft. opening; also for double-swing gates wider than 26-ft. opening and up to and including 36-ft. opening.

8⅝-in. outside diameter; weight 25 lbs. per lin. ft. for single-swing gates wider than 18-ft. opening and for double-swing gates wider than 36-ft. opening.

SLIDE GATE POSTS—4-in. outside diameter; weight 9.1 lb. per lin. ft. Single- or double-post construction depending on overhead clearance and size of opening.

POST SPACING—Posts are spaced in line of fence not farther apart than 10-ft. centers.

POST SETTING—All posts are set 36 in. in concrete base of proper size and shape to furnish sufficient foundation.

EXTENSION ARMS—Hot-dip galvanized. All intermediate posts fitted with Cyclone Invincible extension arms of pressed steel. End and corner posts are fitted with heavy malleable iron or pressed steel arms. Each arm carries 3 barbed wires securely fastened. Topmost barbed wire is 12 in. above the fabric and 12 in. in or out from the fence line at an angle of 45°.

TOP RAIL—Hot-dip galvanized. Tubular; 1⅝-in. outside diameter; weight 2.27 lb. per lin. ft. or high carbon 1½ in. x 1$\frac{5}{16}$ in. H-column; weight 2.27 lb. per lin. ft. Provided with expansion rail coupling when required. Top rail passes through base of extension arm and forms a continuous brace from end to end of each stretch of fence. Top rail is securely fastened to end, gate and corner posts by suitable pressed steel connections.

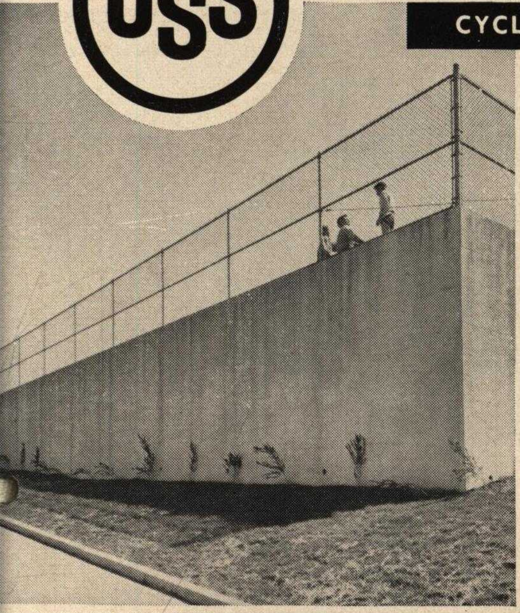
BRACES—Hot-dip galvanized. Horizontal braces furnished only for end, gate and corner posts when fence is 6 ft. or over in height. Brace material same as top rail. Braces spaced midway between top rail and ground and extend to first line post. Braces securely fastened to posts by pressed steel connections, then trussed from the line post back to end, gate or corner posts.

FITTINGS—Hot-dip galvanized. All fittings are malleable cast iron or pressed steel.

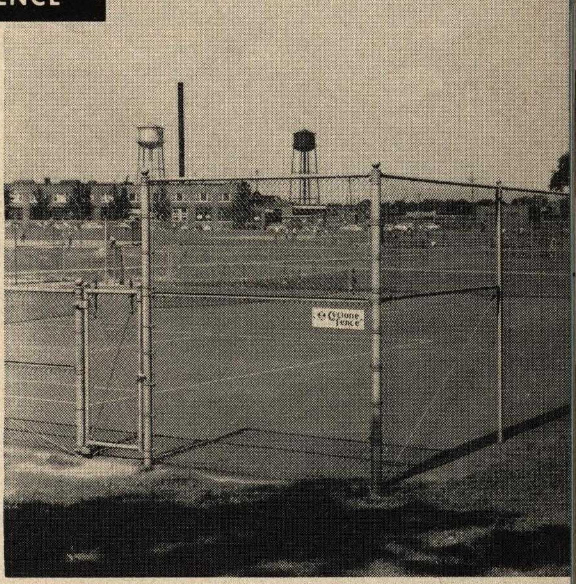
BARBED WIRE—3 lines of 4-point pattern, each composed of two strands of No. 12½ gauge wire, galvanized after weaving.

FABRIC BANDS—Fasten fabric to line posts at 14-in. intervals. Fabric attached by tie wires to top rail at 24-in. intervals.

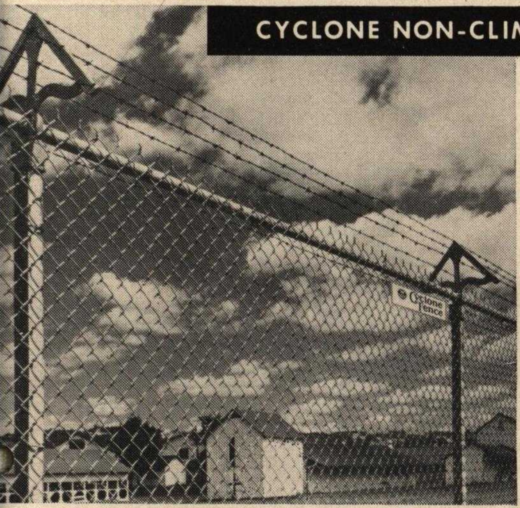
CYCLONE SAFEGUARD CHAIN LINK FENCE



Illustrated here. Standard heights, 3 ft. to 12 ft. Chain Link Fabric is full height of fence. Same general construction as Cyclone Invincible Fence, except top finish, which has no barbed wire. On heights 4 ft. and lower, one edge of fabric has twisted and barbed finish, the other has knuckled finish. Line posts for fence 4 ft. or lower are set 24 in. in concrete base. In fence 5 ft. high and over, all posts are set 36 in. in concrete base. When fence 6 ft. and over in height is installed without top rail, H-column posts have sheared tops.



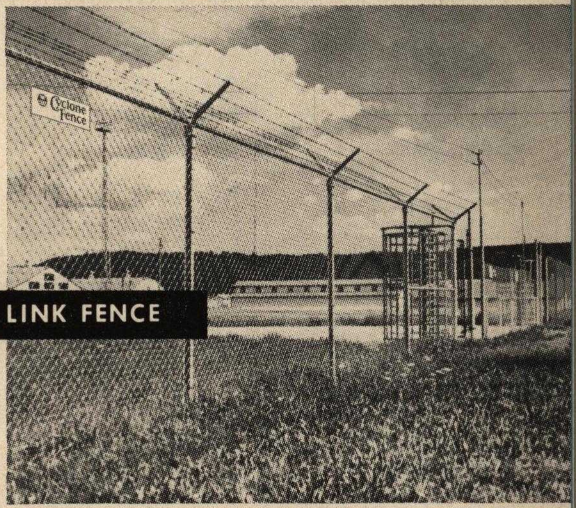
CYCLONE NON-CLIMBABLE CHAIN LINK FENCE



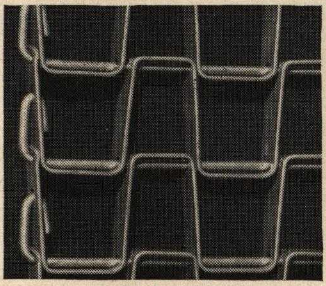
Cyclone Non-Climbable Fence is illustrated here. General specifications are identical with those of Invincible except that Non-Climbable extension arms are "A"-shaped and carry 5 strands of barbed wire. Topmost strand is 12 in. above fabric.

CYCLONE VICTORY CHAIN LINK FENCE

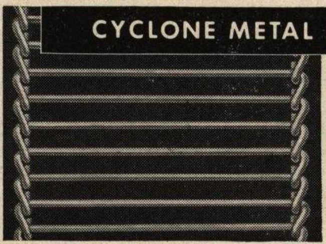
Cyclone Victory Fence's general specifications are identical with those of Invincible Fence except that the Victory extension arms are "V"-shaped and carry 6 strands of barbed wire.



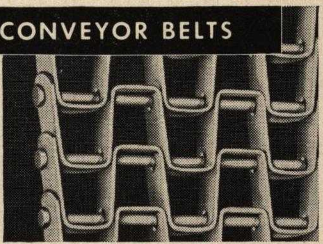
CYCLONE METAL CONVEYOR BELTS



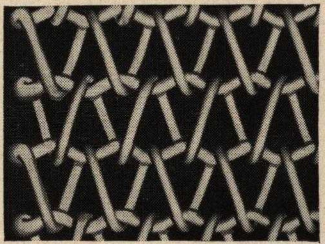
FLAT WIRE
1″ x 1″ mesh—Clinched Selvage



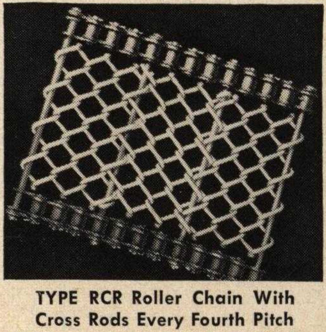
FLEX-GRID BELT



NEW "CONVEY-ALL"
FLAT WIRE BELT
Approximately $1/2$″ square opening



EQUALIZED SPIRAL WEAVE
Mesh designation: 36—24—24



TYPE RCR Roller Chain With Cross Rods Every Fourth Pitch

Cyclone Metal Conveyor Belts save labor, increase production and reduce costs tremendously. They are ideal for a surprisingly wide variety of processes and products. They provide an efficient, economical means of continuous parts and product processing and conveying.

Because Cyclone metal belts are relatively unaffected by heat, steam, water, changes of temperature or any of the usual causes of conveyor belt trouble, they are often ideal for use where rubber, canvas or leather belts might be impractical. Cyclone Metal Conveyor Belts are regularly furnished in various specifications of carbon and USS Stainless Steels.

CYCLONE SPIRAL WOVEN conveyor belts can be woven from many metals or alloys in various opening sizes and wire gauges.

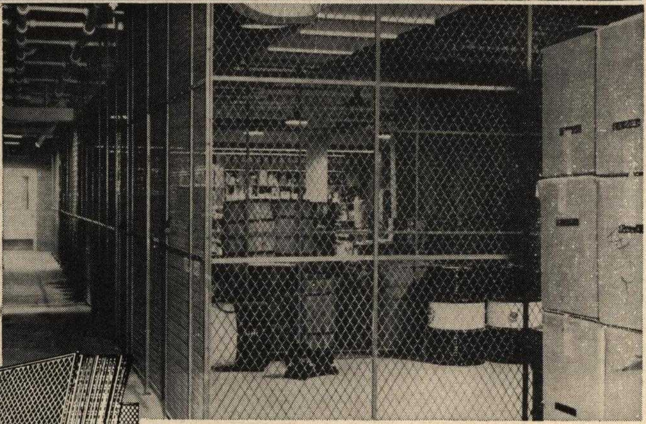
CYCLONE FLAT WIRE belts come in two opening sizes—1″ x 1″ and 1½″ x 1″. Formed from ⅜″ x .046″ cold-rolled strip steel with 12-gauge spindle wires.

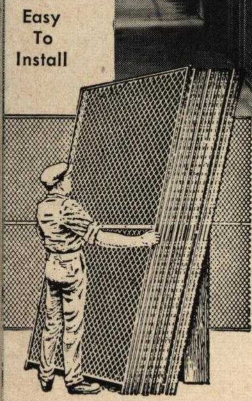
CYCLONE "CONVEY-ALL" FLAT WIRE belt comes in opening size of approximately ½″ square.

CYCLONE FLEX-GRID belt is ideal for continuous processing of baked goods and confections. Size of wire, 9 gauge; pitch, ½″; clear opening, .352″.

USS Cyclone Fence

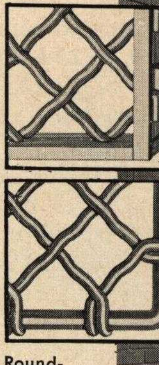
CYCLONE WIRE MESH PARTITIONS

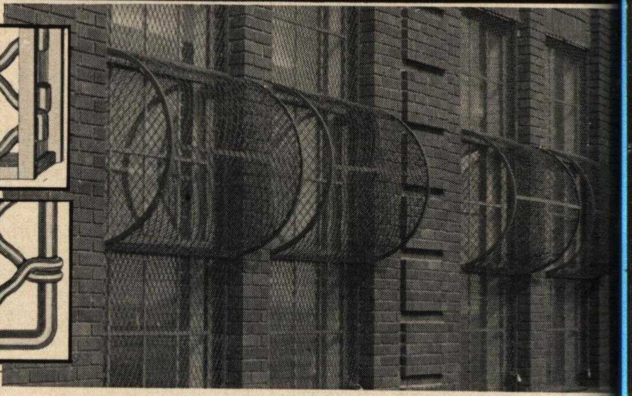




Standard width of panel sections is 5 ft. Standard height, 8 ft. Standard door sections are 4 ft. wide by 7 ft. high with transom panel overhead. Service window is 2 ft. wide by 1 ft. 6 in. high. Panel and door frames are 1″ x ½″ x ⅛″ channel. Partition has ¼″ x 1″ flat cover bar at top with clips for fastening. Fabric is No. 10 gauge crimped steel wire, 1½″ diamond mesh. Standard finish—one shop coat of black paint.

CYCLONE WINDOW AND SKYLIGHT GUARDS





Cyclone window guards are made in two styles: ⅜″ round rod frames for lighter and smaller-sized guards; 1″ channel frames for heavier and larger-sized guards. For special conditions, even heavier channel or angle iron frames can be furnished. Standard guards have No. 10 gauge crimped wire, woven in a 1½″ diamond mesh. Special guards, such as the split type, "V"-shaped guards or basket guards, can be furnished; and size of wire and mesh can be varied to suit special condition. We also manufacture wire mesh guards for skylights, doors, machinery, etc.

COMPLETE RESPONSIBILITY NATIONWIDE FENCING SERVICE

ENGINEERING COUNSEL—Cyclone engineers will make a complete study of your fence requirements and submit recommendations, layouts, and estimates of cost.

DIAGRAMS, PRICES, ETC.—When writing for information, prices, etc., send simple diagram of proposed fencing. Give measurements of each stretch and total measurements. State whether single- or double-swing or sliding gates are wanted and give size of openings.

CYCLONE ERECTION CREWS—There are many erection crews constantly at work installing Cyclone Fence. However, if you prefer to have your own workmen install the fence, a Cyclone erection superintendent will be furnished at nominal charge to direct them.

Only UNITED STATES STEEL Corporation manufactures Cyclone Fence. Accept no substitute.

Cyclone Fence is one of the family of well-known steel products that bears the USS mark. This symbol represents the highest quality and the finest metallurgical service. It is further assurance that the Cyclone Fence you buy will give you long service and full value for your money.

No job is too large . . . no job is too small for Cyclone

Cyclone Fence Department
American Steel & Wire
Division of
United States Steel
Waukegan, Ill.

FACTORIES AND OFFICES

WAUKEGAN, ILL.
GREENSBURG, IND.
DE KALB, ILL.
NEWARK, N. J.
FORT WORTH, TEXAS
OAKLAND, CALIF.

DIRECT FACTORY BRANCHES

ALBANY, N. Y.
ATLANTA, GA.
AUSTIN, TEXAS
BAKERSFIELD, CALIF.
BALTIMORE, MD.
BATAVIA, ILL.
BATON ROUGE, LA.
BEAUMONT, TEXAS
BIRMINGHAM, ALA.
BLOOMINGTON, ILL.
BOSTON, MASS.
BUFFALO, N. Y.
CAMDEN, N. J.
CHARLESTON, W. VA.
CHARLOTTE, N. C.
CHATTANOOGA, TENN.
CHICAGO, ILL.
CINCINNATI, OHIO
CLEVELAND, OHIO
COLUMBIA, S. C.
COLUMBUS, OHIO
CORPUS CHRISTI, TEXAS
DALLAS, TEXAS
DAYTON, OHIO
DETROIT, MICH.
EUGENE, ORE.
FLINT, MICH.
FORT WORTH, TEXAS
FRESNO, CALIF.
GALVESTON, TEXAS
GRAND RAPIDS, MICH.
GREEN BAY, WIS.
HARRISBURG, PA.
HARTFORD, CONN.
HOUSTON, TEXAS
INDIANAPOLIS, IND.
JACKSON, MISS.
JACKSONVILLE, FLA.
KANSAS CITY, MO.
LANSING, MICH.
LOS ANGELES, CALIF.
LOUISVILLE, KY.
LUBBOCK, TEXAS
MEMPHIS, TENN.
MIAMI, FLA.
MILWAUKEE, WIS.
MINEOLA, N. Y.
MINNEAPOLIS, MINN.
MOBILE, ALA.
NASHVILLE, TENN.
NEWARK, N. J.
NEW ORLEANS, LA.
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NORFOLK, VA.
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OMAHA, NEB.
PHILADELPHIA, PA.
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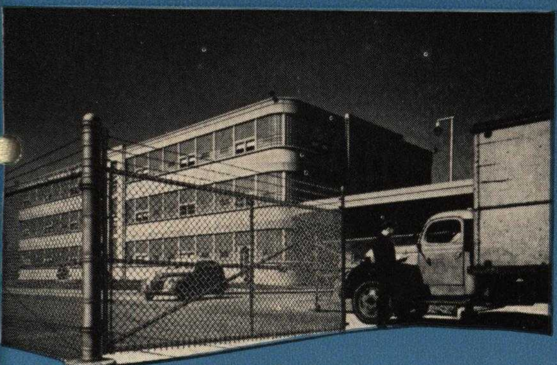
PITTSBURGH, PA.
PORTLAND, ME.
PORTLAND, ORE.
PROVIDENCE, R.I.
RALEIGH, N. C.
RICHMOND, VA.
RIVERSIDE, CALIF.
SACRAMENTO, CALIF.
ST. LOUIS, MO.
SALT LAKE CITY, UTAH
SAN ANTONIO, TEXAS
SAN DIEGO, CALIF.
SAN JOSE, CALIF.
SEATTLE, WASH.
SHREVEPORT, LA.
SOUTH BEND, IND.
SPOKANE, WASH.
TACOMA, WASH.
TAMPA, FLA.
TOLEDO, OHIO
TULSA, OKLA.
WASHINGTON, D. C.
WAUKEGAN, ILL.
WHITE PLAINS, N. Y.
WILMINGTON, DELA.
WORCESTER, MASS.

What Makes a PAGE chain link FENCE the RIGHT FENCE for YOU

ACCO

PAGE FENCE is a product of
Page Steel & Wire Division,
American Chain & Cable Co., Inc.,
Bridgeport, Connecticut


Page Fence with Double Swing Gate

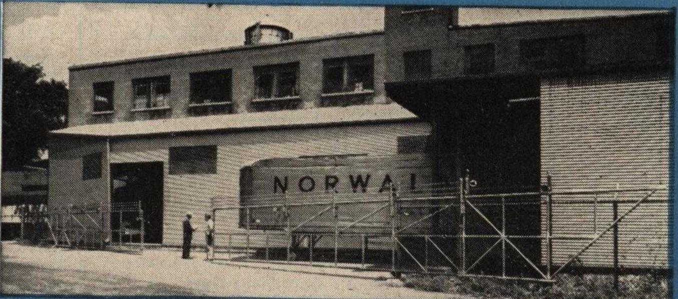
● PAGE Chain Link FENCE is the modern day product which followed the woven wire fence fabric originated by J. Wallace Page in 1883. It has a long and proud history of product progress and quality control that assures long, dependable property protection. Your PAGE FENCE can be comprised of a choice of units to best meet your individual needs or preferences. It will be expertly erected by a nearby Page Fence Association member firm which is technically trained, long experienced and thoroughly reliable. This firm knows regional conditions affecting fence and can render expert service. On pages which follow are facts about choices you can make when deciding on *the right Page Fence for you.*

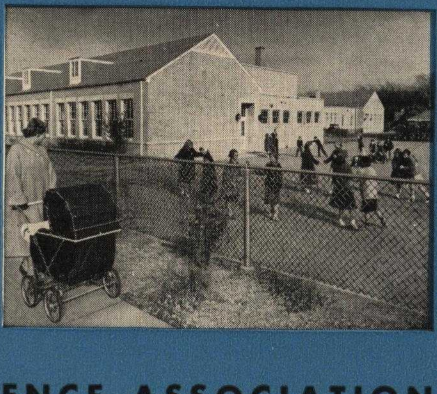
Page Fence with Overhead Slide Gate

America's First Wire Fence
—Since 1883

PAGE FENCE

Emblem of
Page Fence Association,
Headquarters: Monessen, Pa.


Page Fence with Double Cantilever Gate

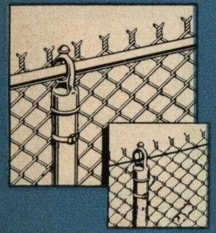
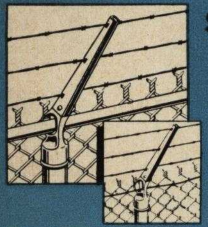
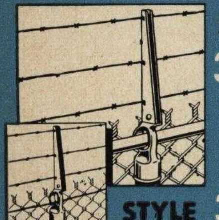
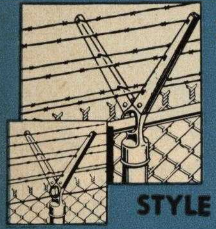


PAGE FENCE ASSOCIATION

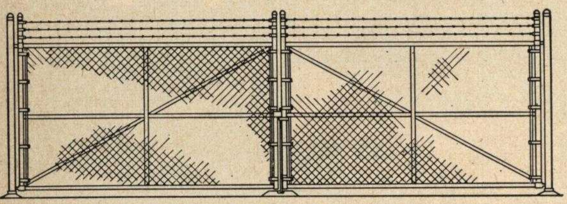
How many styles of PAGE Heavy Industrial Fence are available?

Choose from 8 Basic Styles, as below . . .

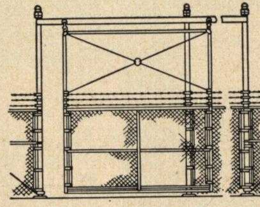
NOTE: Standard Heights, Heavy Construction Fence, are 5′, 6′, 7′, 8′, 9′, 10′, 11′, 12′
Standard Mesh Size, All Styles, 2 Inches
Standard Wire Gauges, All Styles, No. 9 or No. 6

FENCE STYLES	LINE POSTS	END AND CORNER POSTS	TOP RAIL OR TOP WIRE	BARBED WIRE
 **STYLE OTR**	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	1⅝″ OD Galv. Std. Pipe—2.27# per ft.	None
STYLE OW	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	7 Ga. H. C. Aluminized Coiled Steel Wire	None
 **STYLE 3TR**	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	1⅝″ OD Galv. Std. Pipe—2.27# per ft.	3 Strands
STYLE 3W	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	7 Ga. Aluminized Coiled Steel Wire	3 Strands
 **STYLE 3TRV**	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	1⅝″ OD Galv. Std. Pipe—2.27# per ft.	3 Strands
STYLE 3WV	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	7 Ga. H.C. Aluminized Coiled Steel Wire	3 Strands
 **STYLE 6TR**	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	1⅝″ OD Galv. Std. Pipe—2.27# per ft.	6 Strands
STYLE 6W	2½″ OD Galv. Std. Pipe—3.65# per ft. or 2¼″ x 1⅞″ Galv. H-Beam—4.1# per ft.	3″ OD Galv. Std. Pipe—5.79# per ft.	7 Ga. H. C. Aluminized Coiled Steel Wire	6 Strands

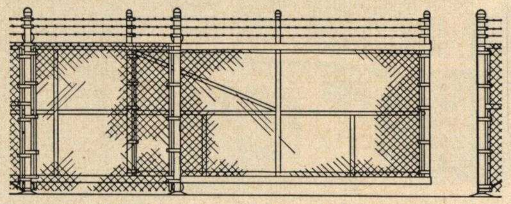
SWING, SLIDE and CANTILEVER GATES



Double Swing Gate



Overhead Slide Gate



Single Cantilever Gate

SWING GATE FRAMES ● 2″ OD Standard pipe wt. 2.72 lb. per ft. with internal bracing of 1⅝″ OD standard pipe wt. 2.27 lb. per ft.—welded at all joints to provide rigid watertight construction.

OVERHEAD SLIDING GATE FRAMES ● Shall be same general construction as swing gates but shall have suitable extensions for attaching trolleys and bracing.

CANTILEVER GATE FRAMES ● Top and bottom members shall be 2½″ OD galvanized standard weight pipe for leaf lengths to 16′0″ and extra heavy galvanized pipe for leaf lengths over 16′0″ to 28′0″ inclusive. These members shall be the roller members of the frame. Internal bracing shall be 2″ OD and 1⅝″ OD galvanized standard pipe. Rollers shall be galvanized malleable iron equipped with high quality roller bearings for easy operation.

GATE FILLERS ● Frames shall be filled with same specifications of fabric as is used in line of fence.

HINGES ● Offset type allowing gates to swing back 180° parallel with line of fence and shall be made of malleable iron and forgings.

DOUBLE LATCH ● Shall be drop bar gravity type, securely bolted to gate frame, and engage a heavy malleable iron gate stop anchored in concrete footing.

SINGLE LATCH ● Shall be malleable iron gravity type which will automatically engage pin attached to gate frame. All latches readily locked with padlock.

GATE KEEPER ● Gate frame to be equipped with keeper which automatically engages gate frame when swung open.

What other important advantages are offered by PAGE?

A wide variety to meet your individual needs or preferences

Choose from 4 Fabric Materials

PAGE CHAIN LINK FABRIC • is now woven in a choice of four distinctly different fabric materials. Each of these possesses characteristics which meet individual preferences, or make it more suitable to meet certain climatic or service conditions. All have a semi-flat weave which provides a natural bearing surface at each bend in the wire. All can be stretched securely without distortion. These fabric materials are:

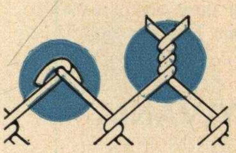
ALUMINIZED STEEL • After years of research and testing, PAGE developed and patented a process for bonding a coating of commercially pure aluminum to steel wire by a molten process. It provides longer corrosion resistance than zinc coating, yet its cost is comparable with fence having a shorter life expectancy.

GALVANIZED STEEL • PAGE fabric of this class is woven of time-proved open-hearth steel wire and hot-dip galvanized after weaving. Weight of zinc coating per sq. ft. of uncoated wire surface 1.20 oz., conforming with A.S.T.M. Specification A392-55T and Federal Specification RR-F-191A, to assure reliable quality and dependable service.

STAINLESS STEEL • This special chrome-nickel type of fence fabric is immune to practically all corrosive elements and is particularly advantageous near salt water and in areas where the air is laden with industrial smoke, sulphur or other factory emissions. Its use means protection that lasts a lifetime.

ALL-ALUMINUM • This is another material in the non-corrosive class. It will not rust, nor will it discolor materially under unfavorable conditions. Because of the PAGE method of semi-flat weaving it has exceptional strength. It will not corrode; is maintenance free and long lasting.

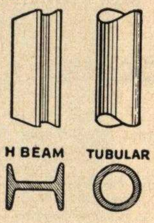
Choose Barbed or Knuckled Fabric Edges



When used for industrial enclosures, PAGE fabric is generally furnished with both selvages barbed, but it can be supplied with one or both edges knuckled if so specified. For residential enclosures it is customary to use fabric having one edge barbed and the other knuckled.

Choose Tubular or H-Beam Line Posts

PAGE provides a choice of two types of line posts. First, the popular, standard Tubular Post of 2½" OD hot galvanized steel. The other is the H-Beam Post, formed of high carbon steel to 2¼" x 1⅞" dimensions and heavily galvanized. Both styles are spaced approximately 10' on centers and are deep set in bell-shaped concrete footings crowned at top to shed water.



Choose Top Rail or Tension Wire

Because it adds structural strength and fabric protection, the use of 1⅝" galvanized pipe top rail is preferred with styles **OTR**, **3TR** and **6TR**. The fence retains its attractive appearance and maintenance costs are saved. When first cost *must* be kept at a minimum, No. 7 gauge Aluminized coiled steel tension wire in lieu of top rail may be used with styles **OW**, **3W**, and **6W**.

Choose Single or Double Extension Arms

Three styles of supporting arms for barbed wire fence topping are available. *(See illustrations, opposite page.)* These are vertical and angle arms for three strands and "V" arms for six strands. Angle arms can be set either inside or outside at 45°. Extensions for three barbed wire strands (angle style) have malleable iron bases and arms of pressed steel, hot galvanized after fabrication, or solid aluminum sand castings. All other styles with malleable iron bases and arms of pressed steel, hot galvanized after fabrication.

Choose from 6 Gate Styles

PAGE supplies single or double styles of Swinging, Overhead Sliding and Cantilever Gates to match the type and height of the fence and dependably perform the specific entry and egress services required. All are expertly designed, made of carbon steel pipe, rigidly braced and welded at all joints to prevent sagging and withstand rigorous usage.

Now a New, Better Barbed Wire

For fences to be topped by extension arms, the new PAGE corrosion-resisting barbed wire is available. Each strand consists of two No. 12 gauge twisted Aluminized steel line wires with No. 14 gauge Aluminum 4-pt. barbs spaced not more than four inches apart.

Sturdy End, Corner and Gate Posts

END AND CORNER POSTS • Standard hot galvanized steel pipe 3" OD weighing 5.79 lbs. per ft., for setting in bell-shaped concrete footings crowned to shed water.

SWING GATE POSTS • Same as end posts but in following sizes —

Pipe Size OD	Wt. per Ft.	Gate Opening Single, inclusive	Gate Opening Double, inclusive
3"	5.79 lbs.	To 6'	Up to 12'
4"	9.11 lbs.	Over 6' to 13'	Over 12' to 26'
6⅝"	18.97 lbs.	Over 13' to 18'	Over 26' to 36'
8⅝"	25.00 lbs.	Over 18' to 32'	Over 36' to 64'

CANTILEVER GATE POSTS • 3" OD standard pipe wt. 5.79 lb. per ft. for leaves to 16' inc. and 4" OD wt. 9.11 lb. per ft. for leaves over 16' to 28' inc.

OVERHEAD SLIDING GATE POSTS • 4" OD standard pipe wt. 9.11 lb. per ft. for single and double gates up to and including 36' opening. Size of posts above this opening will depend on size of opening.

Quality Fittings for All Purposes

END, CORNER AND GATE POST TOPS • Hot galvanized malleable iron or aluminum sand castings, drive fitting outside of post to exclude moisture.

BRACE AND TENSION BANDS • Unclimbable beveled edge type with ⅜" diameter square shouldered aluminum carriage bolts, non-removable from outside fence.

BRACING • All terminal posts to be braced by means of 1⅝" OD horizontal compression member wt. 2.27 lb. per ft., securely attached to terminal and first line posts with malleable iron or sand cast aluminum fittings and beveled edge bands; truss braced from first line post to bottom of terminal with ⅜" rod and take-up. Corner posts to be braced in each direction.

TENSION BARS • For attaching fabric to terminal posts. Shall be 3/16" x ¾" high carbon steel attached to terminal post by means of beveled edge bands.

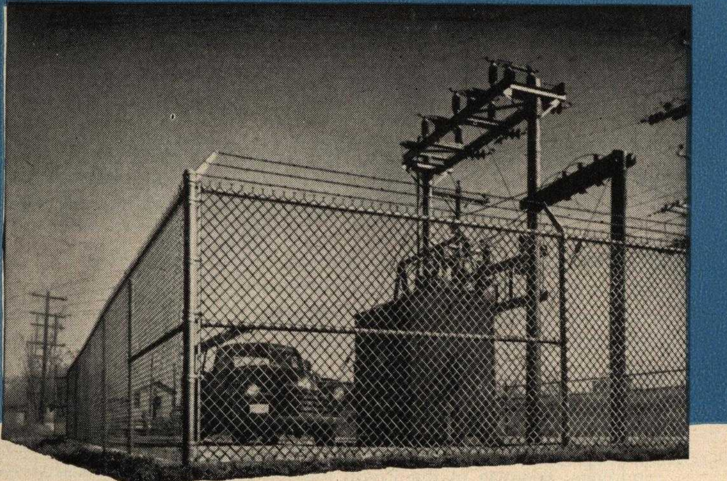
MISCELLANEOUS FITTINGS • All fittings entering into the fence necessary to make a complete installation will be malleable iron, pressed steel, sand casted aluminum or forgings. All ferrous material to be thoroughly galvanized by the hot dip method.

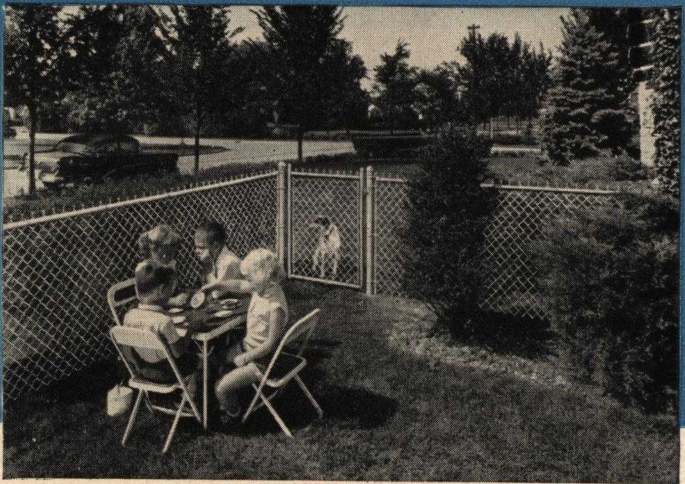
**PAGE FENCE FOR
RESIDENTIAL OR SPECIAL USES**

When planning a fence to safeguard an industrial or institutional property, think also of protective fence for your home or for a tennis court, baseball backstop, swimming pool, animal run or other special use. PAGE FENCE ASSOCIATION urges you to send for specific information relating to your needed enclosure. Address us at Headquarters, Monessen, Penna.

PAGE FENCE Nation-Wide Erection Service

It's Unique, Expert, Localized





• In more than 100 districts throughout the nation there are local, responsible members of PAGE FENCE ASSOCIATION—the largest fence engineering, erecting and servicing organization. These PAGE experts own their own plants and equipment, have had long experience; operate crews of trained workmen. Each firm is permanently located and has lasting interest in every job it handles. It is conveniently located for quick service of any kind.

These capable engineers will survey property grades, take measurements, study vicinity conditions, furnish cost estimates. Or they will prepare estimates on receipt of sketch showing measurements for each stretch and total over-all measurements, and style of gates wanted. They will take complete charge of all work, or if you prefer to do the erecting they will provide supervision and tools. For name of Association Member nearest you, check the list below.

PAGE FENCE ASSOCIATION • *Headquarters:* MONESSEN, PENNSYLVANIA

DISTRICT OFFICES: Atlanta • Bridgeport • Chicago • Denver • Detroit • Houston
Los Angeles • Philadelphia • New York • San Francisco • Monessen, Pennsylvania

MEMBERS LOCATED AT

ALABAMA

Birmingham	Alabama Fence Co.
Chickasaw	National Fence Co.

ARKANSAS

Little Rock	Arkansas Foundry Co.

CONNECTICUT

Bridgeport	T. M. Barnes & Son, Inc.
New Haven	The John P. Smith Company
South Windsor	Atlantic Fence Co., Inc.
Stamford	Barnes-Page Wire Products, Inc.

FLORIDA

Jacksonville	George P. Coyle & Sons
Lakeland	Fence Masters, Inc. (Branch)
Miami	Fence Masters, Inc.
West Palm Beach	Service Iron, Inc.

GEORGIA

Atlanta	Martin-Robbins Fence Co.
Savannah	Coastal Fence & Supply, Inc.

ILLINOIS

Chicago	Chicago Fence & Equipment Co.
Murphysboro	Egyptian Sales Agency

INDIANA

Evansville	Lex Company, Inc.
Fort Wayne	Old Fort Supply Company

IOWA

Des Moines	Des Moines Steel Company

KENTUCKY

Lexington	Clarke, Stewart & Wood Co.
Louisville	Louisville Fence Co.

MAINE

Bangor	Acme Supply Co., Inc.
South Portland	Broadway Fence Company

MARYLAND

Cumberland	Wilson Hardware Co.
Glen Burnie	J. T. Fritz & Sons, Inc.

MASSACHUSETTS

Allston	The Yeomans-O'Connell Co.
Springfield	Guthrie Fence Company

MICHIGAN

Detroit	Barnes Wire Fence Company
Grandville	Haven-Busch & Sons
Iron Mountain	Champion, Inc.
Kalamazoo	Kalamazoo Foundry & Machine Co.
Mount Morris	Raymond Fence Company
Muskegon	Factory Supply Company
Saginaw	Fence Fabricators

MINNESOTA

Duluth	MacAskill-Monaghan Co.
Minneapolis	Crown Iron Works Co.
St. Paul	W. H. Grohs & Co.

MISSISSIPPI

Clinton	Delta Fence Company, Inc.

MISSOURI

St. Louis	St. Louis Fence Supply Co.

MONTANA

Billings	Great Northern Tool & Supply Co.
Cut Bank	Great Northern Tool & Supply Co. (Branch)
Kevin	Great Northern Tool & Supply Co. (Branch)

NEBRASKA

Omaha	Gate City Steel Works, Inc.

NEW JERSEY

Hanover	Turner Fence Co., Inc.
Pennsauken	Allstate Iron Works, Inc.

NEW YORK

Binghamton	C. Y. Cushman
Brooklyn	J. R. Moyer Sons
Buffalo	Wire Products Co.
Hopewell Jct.	A-1 Fence Co.
Jamestown	Jamestown Fabricated Steel, Inc.
Lake Grove, L. I.	Suffolk County Fence Co., Inc.
Rome	Rome Iron Mills, Inc.
Schenectady	McNeal Fence Construction Co.
Uniondale, L. I.	Rust Proof Fence Company

NORTH CAROLINA

Charlotte	Allison Fence Company

NORTH DAKOTA

Fargo	Swanston Equipment Company

OHIO

Akron	Buckeye Metals & Supply Co.
Cincinnati	Davis & Siehl Co.
Columbus	The Paul Peterson Co.
Toledo	Douglas Fence & Wire Co., Inc.
Youngstown	Estherlee Fence Co.

PENNSYLVANIA

Altoona	Altoona Pipe & Steel Supply Co.
Bethlehem	Bethlehem Iron Works, Inc.
Chester	Stress Brothers
Elizabeth	H. W. Kurtz & Co.
Erie	Perry Truck & Erection Co.
Lancaster	Lancaster Welded Products
Lewistown	Krentzman Distributors Division of Joe Krentzman & Son
St. Marys	Burke Brothers
Scranton	Bittenbender Co.
Shiremanstown	West Shore Iron Works
Williamsport	The Carlucci Aluminum Co.

SOUTH CAROLINA

Charleston	Carolina Iron & Fence Works, Inc.

TENNESSEE

Chattanooga	Southeastern, Inc. (Branch)
Knoxville	Southeastern, Inc.
Nashville	Southeastern, Inc. (Branch)

VIRGINIA

Norfolk	R. W. Hudgins & Son, Inc.
Richmond	McCloud Fence Company
Roanoke	Reliance Equipment & Supply Co.

WEST VIRGINIA

Charleston	McNiel Fence Company
Huntington	McNiel Fence Co. (Branch)

WISCONSIN

Fond du Lac	Searl, Inc.
Madison	Theo. Kupfer Foundry & Iron Works
Manitowoc	J. J. Stangel Hardware Co.
Milwaukee	Wisconsin Fence Corp.
Wausau	Urban Steel Buildings, Inc.

WYOMING

Casper	Great Northern Tool & Supply Co. (Branch)

CUBA

Havana	Batista y Mendez S.L.

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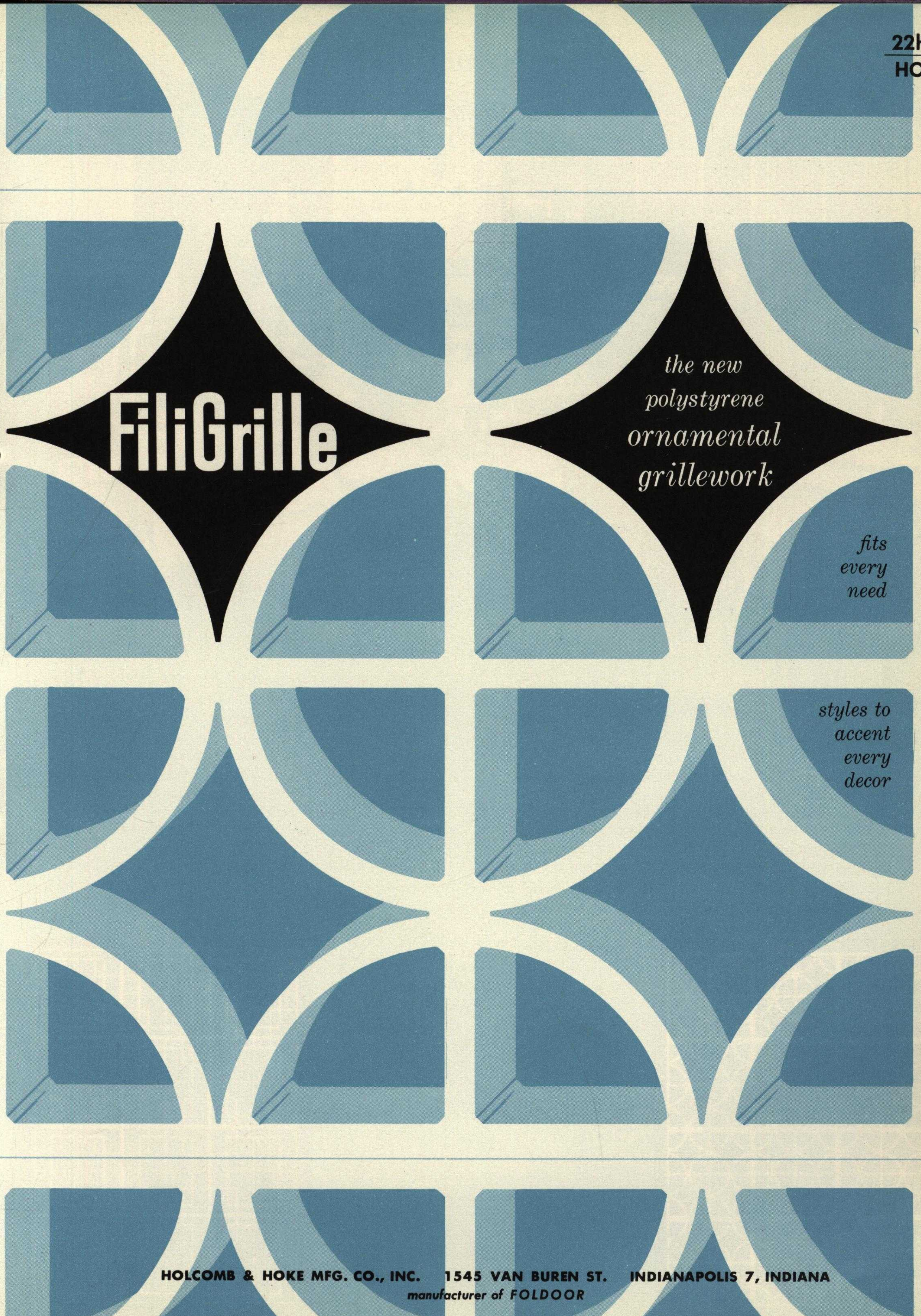


FiliGrille

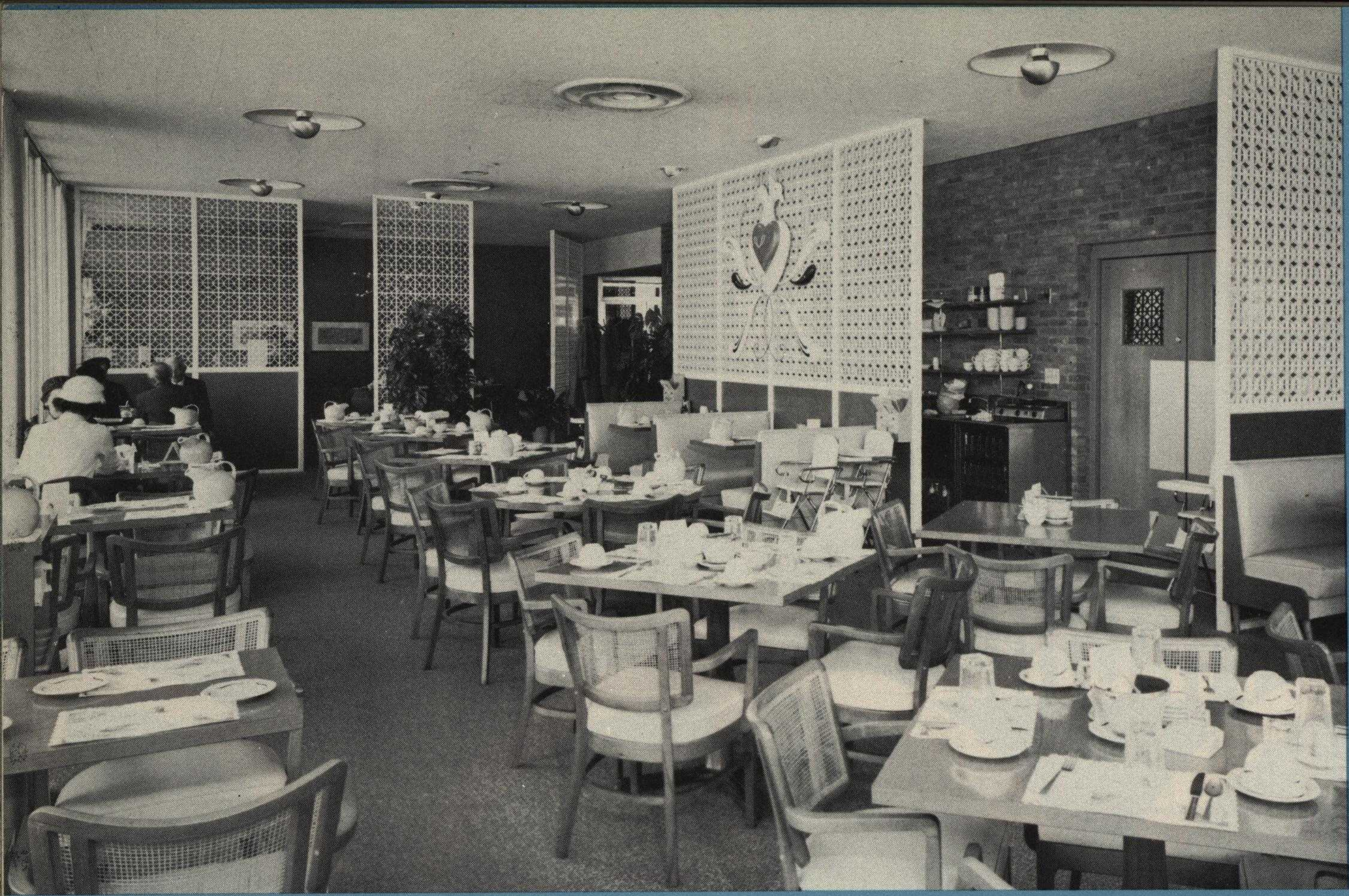
the new
polystyrene
ornamental
grillework

fits
every
need

styles to
accent
every
decor

FiliGrille AIA File No. 24-F (NN)

HOLCOMB & HOKE MFG. CO., INC. 1545 VAN BUREN ST. INDIANAPOLIS 7, INDIANA
manufacturer of FOLDOOR



now! new creative horizons for interiors ...beautiful, versatile **FiliGrille**

Here's the new *heavy,* ¾" thick, ornamental grillework. Made from a quality modern material—polystyrene—to fit modern design. It's the exclusive FiliGrille, offering new beauty, new versatility, new practicality for today's decorative requirements.

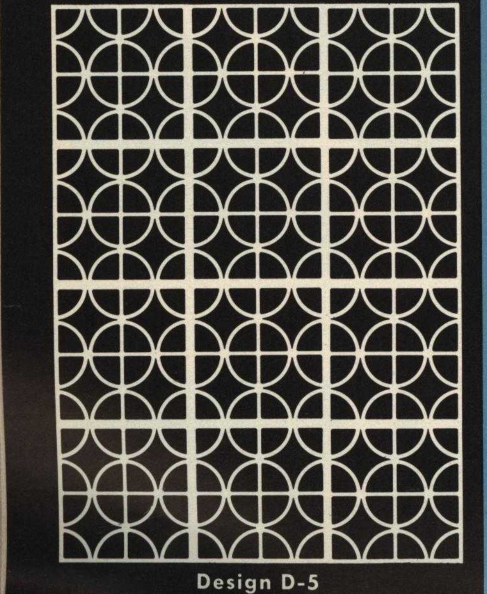
Custom built panels and framed assemblies are furnished to fit almost any need—space dividers, screens, wall plaques, drop ceilings, entryways, railings, bank partitions, organ grilles, and many other uses.

FiliGrille—a new creative design medium—is extremely versatile and easy to apply in new or existing buildings.

Openwork blocks of low-static polystyrene; 8" x 8" x ¾" with tongue and groove edges, are chemically welded together and assembled within a variety of satin finished, anodized aluminum framing systems to fit the application. FiliGrille also is furnished for trimming out in wood to match paneling or decor.

FiliGrille engineering provides rapid and economical erection.

Exterior FiliGrille is available for factory approved applications.



Design D-5

BLOCK DESIGNS

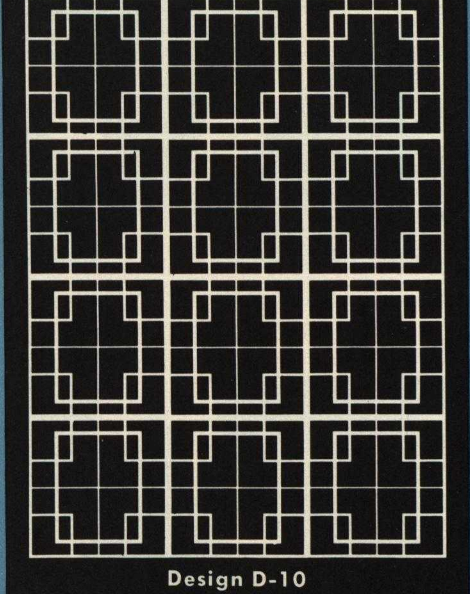
These two FiliGrille block designs are available at present. Other designs are in the process of development.

Design D-10 may be positioned to make a vertical or horizontal pattern.

Your individual block design can be reproduced as a special FiliGrille pattern. Information is available upon request.

COLOR

FiliGrille standard white is ideally suited to most color schemes. If desired, it can be factory painted with your specified color, or with manufacturer's aluminum, gold-brass or copper. Special finished framing and binding are available to match the metallic FiliGrille finishes.



Design D-10

FiliGrille BOUND PANELS

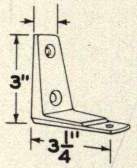
Custom made FiliGrille bound panels are edged with aluminum binding for use as wall plaques, as floating screens mounted between aluminum posts, or as screens installed in customer's wood framing. By adding panels, an installation can be extended to decorate any reasonable size area.

Maximum size for a single panel is 48″ x 48″, 6 blocks by 6 blocks, which can be doubled to 48″ x 96″ with the insertion of an aluminum stiffener. Whenever the long dimension excedes 48″, the bound panel is made from two sections separated by an aluminum stiffener.

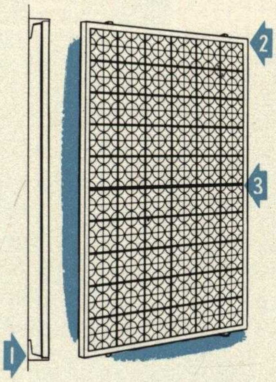
When a specified panel dimension does not conform to the 8″ block module, blocks are factory cut to fit.

Screen supporting-posts are furnished with adjustable top and bottom mountings. All fasteners are concealed.

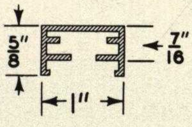
Panels without binding are available for use with customer's framing. Diagonal and curved cuts to fit contoured frames can be made on unbound panels only. Templates must be furnished. Size limitations of unbound panels conform to the specifications for panels used in Framed Assemblies.



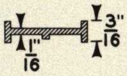
1. Wall Bracket



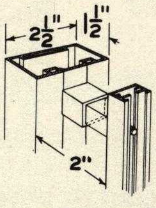
WALL PLAQUE
supported by wall brackets



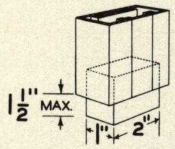
2. Aluminum Binding



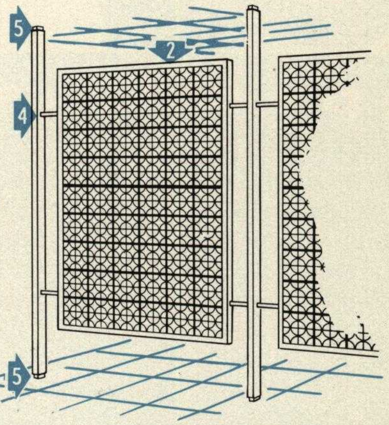
3. Aluminum Stiffener



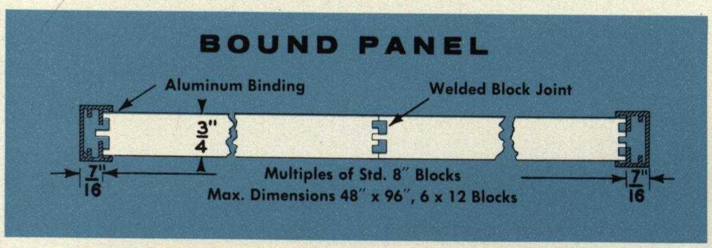
4. Support Arm attached to Screen Supporting Post

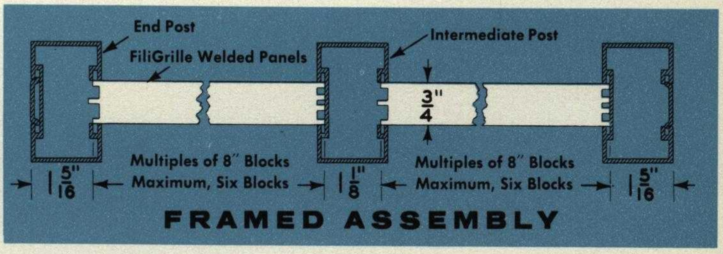


5. Bottom and Top Adjustable Post Mounting



FLOATING SCREEN
and supporting members


BOUND PANEL
Aluminum Binding
Welded Block Joint
3/4″
7/16″
Multiples of Std. 8″ Blocks
Max. Dimensions 48″ x 96″, 6 x 12 Blocks
7/16″


End Post
FiliGrille Welded Panels
Intermediate Post
3/4″
Multiples of 8″ Blocks
Maximum, Six Blocks
Multiples of 8″ Blocks
Maximum, Six Blocks
1 5/16″
1 1/8″
1 5/16″
FRAMED ASSEMBLY

FiliGrille FRAMED ASSEMBLIES

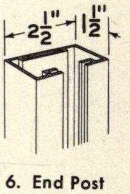
Custom made FiliGrille panels without binding are framed in assemblies for use as area dividers and screens, extending from floor to ceiling, or open at floor and ceiling.

Variations of these frames are possible. FiliGrille assemblies can be factory fabricated using panels of wood or other materials in combination with FiliGrille panels.

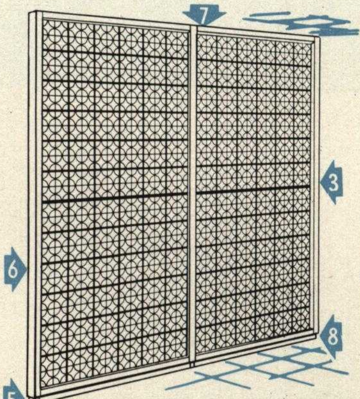
Any size assembly can be supplied that conforms with the following requirements. Maximum dimensions of each FiliGrille panel in an assembly is 48″ x 48″, 6 blocks either direction. Maximum width between vertical posts is 48″.

To achieve the height desired, panels can be stacked one above the other with aluminum stiffeners or horizontal rails inserted between panels. When a specified dimension does not conform to the 8″ module, blocks are factory cut to fit.

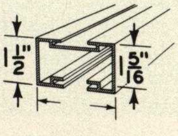
FiliGrille panels can be removed after installation without dismantling the frame. Base rail and post mounting assemblies permit adjustment to minor variations between ceiling and floor. All fasteners are concealed.



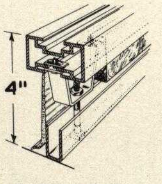
6. End Post



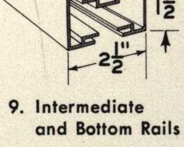
FLOOR TO CEILING SCREEN



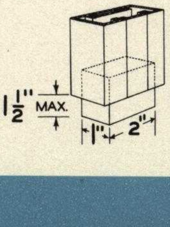
7. Ceiling and Top Rails



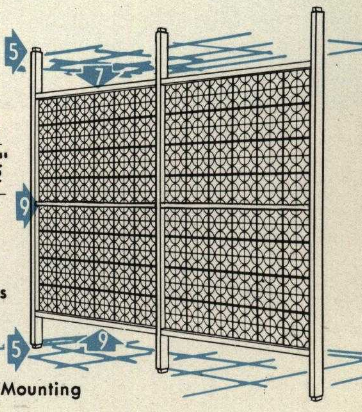
8. Base Rail Assembly



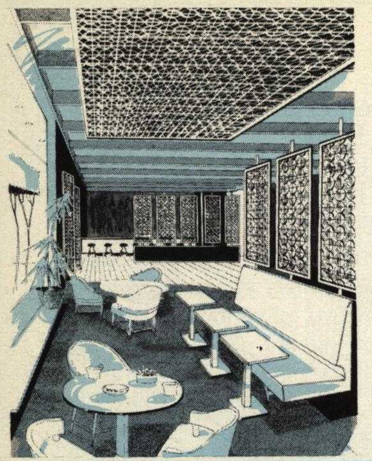
9. Intermediate and Bottom Rails

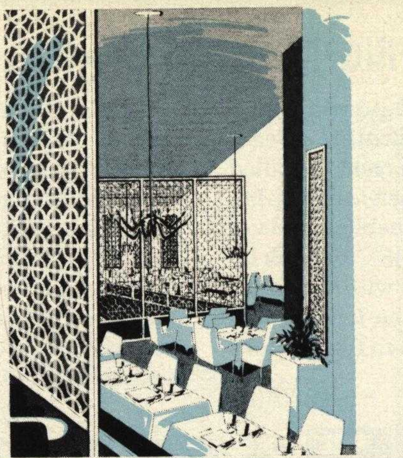


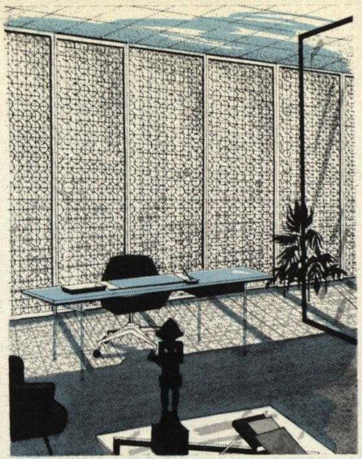
5. Bottom and Top Adjustable Post Mounting



OPEN BASE AND CEILING SCREEN







specifications

GENERAL

FiliGrille ornamental grillework as shown on plans shall be manufactured by Holcomb & Hoke Mfg. Co., Indianapolis, Indiana; and shall be installed by an authorized representative of that Company.

FiliGrille assemblies shall be factory fabricated of basic unit blocks 3/4″ x 8″ x 8″, chemically welded into panels and bound or framed as shown on plans. Unit blocks shall be provided with tongue and groove edges to insure maximum joint strength.

BLOCK MATERIAL

Unit Blocks: 100% virgin, low-static Polystyrene.

Color: —*select one*—

(a) Manufacturer's standard white.

—*or*—

(b) Painted with alkyd resin enamel, color________, No. ________, made by ________.

—*or*—

(c) Painted with manufacturer's special metallic butyrate ________ finish. *Select one:* Aluminum, Gold-Brass or Copper.

BINDING

Binding shall be of clear anodized satin finish aluminum 5/8″ x 1″ OD with .050 minimum wall thickness.

Finish: —*select one*—

(a) Standard clear satin anodized.

—*or*—

(b) Custom ________ satin metallic anodized. *Select one:* Gold-Brass or Copper.

—*or*—

(c) Special metallic butyrate ________ finish. *Select one:* Gold-Brass or Copper.

DISTRIBUTED BY:

FRAMING

FiliGrille framing system as shown on plans shall consist of prefabricated elements ready for installation at site. Framing shall be at least 1½″ x 2½″ OD, anodized aluminum with .078 minimum primary wall thickness.

Framing shall be so designed as to provide for insertion or removal of FiliGrille panels without dismantling the basic framing. All connectors to floor, ceiling and between standard units of assembly shall be concealed.

Finish: —*select one*—

(a) Standard clear satin anodized.

—*or*—

(b) Custom ________ satin metallic anodized. *Select one:* Gold-Brass or Copper.

—*or*—

(c) Special metallic butyrate ________ finish. *Select one:* Gold-Brass or Copper.

We reserve the right to change our designs and specifications at any time.

FiliGrille

Manufactured by HOLCOMB & HOKE Mfg. Co., Inc.
1545 Van Buren • Indianapolis 7, Indiana

. . . manufacturers of FOLDOOR fabric covered folding doors and partitions

For additional information and price on FiliGrille write Holcomb & Hoke, or contact our local FiliGrille distributor or dealer, listed in the Yellow Pages under Ornamental Grillework or under Folding Doors.

LITHO IN U.S.A. Form No. 9203 A

section

23

furnishings, special equipment

subsections

signs, directories	a
bank, office, courthouse, drafting	b
storage, display	c
lockers, wardrobes	d
chalkboards, display boards and cases	e
library	f
stage	g
church, carillons	h
seating, classroom cabinets and furniture	i
bleachers, grandstands	J
sports, recreation	k
hospital, laboratory	L
prison	m
disappearing stairways	n
furniture	o
parking	p

firms

this index covers only firms in this section

ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
AMF Pinspotters, Inc., Div. American Machine & Foundry Co. 23k/Am
Acme Bulletin & Directory Board Corp. 23a/Ac
Adam, Folger 23m/Ad
Adam, Frank, Electric Co. 23g/Ad
Alberene Stone Corp. of Virginia.....23L/AL
Allen Marking Products, Inc. 23a/AL
Ames, W. R., Co., Bookstack Div...23f/Am
Art Metal Construction Co.
- *bank equipment* 23b/Ar
- *equipment for municipal, state, federal buildings* 23b/Art
- *library equipment* 23f/Ar
- *office equipment, modular equipment* 23o/Ar

Automatic Devices Co. 23g/Au
Barber-Colman Co. 23d/Ba
Beckley-Cardy Co. 23e/Be
Berlin Chapman Co. 23J/Ber
Bessler Disappearing Stairway Co. ...23n/Be
Best Mfg. Co. 23a/Be
Borroughs Mfg. Co. 23f/Bo
Brody, B., Seating Co. 23o/Br
Bruning, Charles, Co., Inc. 23b/Br
Brunswick-Balke-Collender Co. 23k/Br
Brunswick-Balke-Collender Co., School Equipment Div.
- *chalkboards and bulletin boards* 23e/Br
- *school furniture and display boards* ..23i/Br

Butcher Boy Refrigerator Door Co.
- *commercial doors* 23c/Bu
- *refrigerator doors* 23c/But

Cadillac Engravers 23a/Ca
Capitol Mail Chute Corp. 23b/Ca
Carnahan Mfg. Co., Inc. 23d/Ca
Chicago Hardware Foundry Co. 23o/Ch
Clancy, J. R., Inc. 23g/CL
Claridge Products & Equipment, Inc...23e/CL
Clark Door Co., Inc. 23c/CL
Congoleum-Nairn Inc., Industrial Sales Div. 23e/Co
Corbin Wood Products Div., American Hardware Corp. 23b/Co
Cramer Posture Chair Co., Inc. 23i/Cr
Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Decatur Iron & Steel Co., Inc. 23m/De
Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Detrex Chemical Industries, Filter Div. 23k/De
Diebold, Inc. 23b/Di
Donald, J. R., Co. 23h/Do
Durable Mat Co. 23p/Du
Duralab Equipment Corp. 23L/Du
Durham Mfg. Corp. 23i/Du
Eastern Steel Rack Co. 23c/Ea
Edgewood Furniture Co., Inc. 23o/Ed
Educational Equipment Co. 23e/Ed
Equipment Mfg. Co., Inc. 23d/Eq
Eska Products, Inc. 23J/Es
Estey Corp. 23f/Es
Fair-Play Mfg. Co. 23k/Fa
Fairhurst, John T., Co., Inc. 23d/Fa
Fisher Scientific 23L/Fi
Garnett Church Furniture & Mfg. Co..23h/Ga
General Electric Co., X-Ray Dept. 23L/Ge
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge
Globe-Wernicke Co. 23f/GL
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Grade-Aid Corp., sub. Maine Mfg. Co. 23i/Gr
Grand Rapids Sectional Equipment Co. 23L/Gr
Guild Hall Studios, Inc. 23h/Gu
Haldeman-Homme Mfg. Co. 23i/Ha
Harris Barrier, Inc. 23p/Ha
Harter Corp.
- *office chairs* 23o/Ha
- *stack chairs* 23o/Har

Herring-Hall-Marvin Safe Co. 23b/He
Horn Div., Brunswick-Balke-Collender Co.
- *baseball backstops* 23k/Ho
- *folding gym seats* 23J/Ho
- *folding stages and steps* 23g/Ho

Huntington Furniture Corp. 23o/Hu
Hussey Mfg. Co., Inc. 23J/Hu
Interior Steel Equipment Co. 23d/In
International Swimming Pool Corp., Commercial Pool Div. 23k/In
Jamestown Metal Products, Inc. 23L/Ja
Jamison Cold Storage Door Co. 23c/Ja
Jewett Refrigerator Co., Inc. 23L/Je
Just Mfg. Co. 23L/Ju
Keyless Lock Co. 23b/Ke
Kiefer, Adolph & Co. 23k/Ki
Knoll Associates, Inc. 23o/Kn
Knoxville Scenic Studios Inc. 23g/Kn
Korok Inc., Div. Enamel Products Co..23e/Ko
Landon Inc. 23k/La
Laverne Inc. 23o/La
LeFebure Corp. 23b/Le
Loxit Systems, Inc. 23e/Lo
Lynn-Sign Moulded Plastic Co., Inc...23a/Ly
Lyon Metal Products, Inc. 23d/Ly
Macton Machinery Co., Inc. 23g/Ma
Market Forge Co. 23c/Ma
Market Forge Co., Hospital Equipment Div. 23L/Ma
Maysteel Products, Inc. 23L/May
McShane Bell Foundry Co., Inc. 23h/Mc
Medart, Fred, Products, Inc. 23J/Me
Medart Lockers, Inc. 23d/Med
Michaels Art Bronze Co. 23e/Mi
Mitchell Mfg. Co. 23i/Mi
Mosler Dropository Corp. 23b/Mo
Mosler Safe Co. 23b/Mos
Narragansett Gymnasium Equipment Co. 23k/Na
Natural Slate Blackboard Co. 23e/Na
Nelson, A. R., Co., Inc. 23d/Ne
New York Silicate Book Slate Co., Inc.
- *bulletin boards* 23a/Ne
- *chalkboards* 23e/Ne

Paragon Swimming Pool Co., Inc....23k/Par
Pauly Jail Building Co. 23m/Pa
Penco Div., Alan Wood Steel Co.....23d/Pe
Pittsburgh-Des Moines Steel Co. 23J/Pi
Poblocki & Sons Co. 23e/Po
Porter Athletic Equipment Co., Div. Waco Mfg. Co. 23k/Por
Precision Parts Corp. 23n/Pr
Rambusch 23h/Ra
Recreation Equipment Corp. 23k/Re
Remington Rand, Div. Sperry Rand Corp.
- *library equipment* 23f/Re
- *office furniture* 23o/Re

Republic Steel Corp., Berger Div.....23d/Re
Richards-Wilcox Mfg. Co., School Equipment Div. 23d/Ri
Roanoke Iron & Bridge Works, Inc. ..23m/Ro
Rol-Fol Table Inc. 23i/Ro
Rotary Lift Co., Div. Dover Corp. 23g/Ro
Safway Steel Products, Inc. 23J/Sa
St. Charles Mfg. Co.
- *hospital equipment* 23L/Sa
- *school storage furniture* 23i/Sa

Schieber Sales Co. 23i/Sc
Schless, Robert A., & Co., Inc. 23c/Sc
School Supply Co. 23d/Sc
Schulmerich Carillons Inc. 23h/Sc
Shampaine Co. 23L/Sh
Shaw-Walker Co. 23b/Sh
Simmons Co. 23i/Sim
Son-Nel Products Co.
- *chalkboards* 23e/So
- *folding tables and benches*.........23i/So

Southern Steel Co. 23m/So
Spencer Industries, Inc. 23a/Sp
Standard Pressed Steel Co. 23i/St
Stewart Iron Works Co., Inc. 23m/St
Storagewall 23i/Sto
Structural Products, Inc. 23c/St
Tablet & Ticket Co.
- *building directories* 23a/Ta
- *changeable letter signs and letters*.23a/Tab

Unique Balance Div., S. H Pomeroy Co. 23e/Un
United States Plywood Corp.........23e/Uni
Universal Bleacher Co. 23J/Un
Vacumite Inc. 23k/Va
Van Dorn Iron Works Co. 23m/Va
Vasconcellos, Joseph, Inc. 23g/Va
Vogel-Peterson Co. 23d/Vo
Watson Mfg. Co., Inc.
- *bank equipment* 23b/Wa
- *hospital equipment* 23L/Wa

Wayne Iron Works
- *basketball backstops* 23k/Wa
- *grandstands* 23J/Wa

Weber Costello Co. 23e/We
Wolverine Brass Works 23L/Wo

backstops

baseball or tennis
Colorado Fuel & Iron Corp. Wickwire Spencer Steel Div. 22g/Co

basketball
Barber-Colman Co. 23J/Ba
Berlin Chapman Co. 23J/Ber
Horn Div., Brunswick-Balke Collender Co. 23k/Ho
Medart, Fred, Products, Inc. 23J/Me
Narragansett Gymnasium Equipment Co. 23k/Na
Porter Athletic Equipment Co., Div. Waco Mfg. Co. 23k/Por
Recreation Equipment Corp. 23k/Re
Wayne Iron Works 23k/Wa

bank equipment

burglar alarms
(see also alarm systems—burglar or fire..34)
Diebold, Inc. 23b/Di

cash drawers, record cabinets, etc.
Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
LeFebure Corp. 23b/Le
Mosler Safe Co. 23b/Mos
Shaw-Walker 23b/Sh
Watson Mfg. Co., Inc. 23b/Wa

counters and check desks
Art Metal Construction Co. 23b/Ar
Corry Jamestown Corp. 22a/Co
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Safe Co. 23b/Mos
Shaw-Walker 23b/Sh
Steel Partitions Inc. 22a/St
Watson Mfg. Co., Inc. 23b/Wa

deposit boxes
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Drepository Corp. 23b/Mo
Mosler Safe Co. 23b/Mos

drive-in or walk-in facilities
Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Dropository Corp. 23b/Mo
Mosler Safe Co. 23b/Mos

night and 24-hour depositories
Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Dropository Corp. 23b/Mo
Mosler Safe Co. 23b/Mos

safes
see safes 23

vault doors
Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Safe Co. 23b/Mos

vault ventilators
Diebold, Inc. 23b/Di

bank equipment *cont.*

wire screens
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barrels

storage racks for
see racks:—barrel, reel or merchandise storage 23

barriers and bumpers—parking

see parking equipment: — barriers and bumpers 23

bells—tower

see church equipment:—bells and carillons 23

benches

see locker room equipment: — benches; seating; work benches 23

billiard room equipment

Brunswick-Balke-Collender Co. 23k/Br

blackboards

see chalkboards 23

blanket warmers

see hospital equipment:—warming cabinets 23

bleachers and grandstands

closed deck
Hussey Mfg. Co., Inc. 23J/Hu
Pittsburgh-Des Moines Steel Co. 23J/Pi

operators for
Horn Div., Brunswick-Balke-Collender Co. 23J/Ho
Hussey Mfg. Co., Inc. 23J/Hu
Universal Bleacher Co. 23J/Un

permanent
Barber-Colman Co. 23J/Ba
Berlin Chapman Co. 23J/Ber
Eska Products, Inc. 23J/Es
Medart, Fred, Products, Inc. 23J/Me
Pittsburgh-Des Moines Steel Co. 23J/Pi

permanent—folding or telescopic
Barber-Colman Co. 23J/Ba
Berlin Chapman Co. 23J/Ber
Eska Products, Inc. 23J/Es

bleachers and grandstands *cont.*

permanent—folding or telescopic *cont.*
Horn Div., Brunswick-Balke-Collender Co. 23J/Ho
Hussey Mfg. Co., Inc. 23J/Hu
Medart, Fred, Products, Inc. 23J/Me
Narragansett Gymnasium Equipment Co. 23k/Na
Safway Steel Products, Inc. 23J/Sa
Universal Bleacher Co. 23J/Un
Wayne Iron Works................23J/Wa

portable
Berlin Chapman Co. 23J/Ber
Horn Div., Brunswick-Balke-Collender Co. 23J/Ho
Hussey Mfg. Co., Inc. 23J/Hu
Medart, Fred, Products, Inc. 23J/Me
Narragansett Gymnasium Equipment Co. 23k/Na
Porter Athletic Equipment Co., Waco Mfg. Co. 23k/Por
Safway Steel Products, Inc. 23J/Sa

bookcases

Art Metal Construction Co...23b/Art; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Cramer Posture Chair Co., Inc.......23i/Cr
Huntington Furniture Corp. 23o/Hu
Interior Steel Equipment Co.........23d/In

bookstacks

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bowling alley equipment

AMF Pinspotters, Inc., Div American Machine & Foundry Co. 23k/Am
Brunswick-Balke-Collender Co. 23k/Br

planning and contractors
AMF Pinspotters, Inc., Div. American Machine & Foundry Co. 23k/Am
Brunswick-Balke-Collender Co. 23k/Br

bulletin and display boards

changeable letter
ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Bulletin & Directory Board Corp. 23a/Ac
Claridge Products & Equipment, Inc..23e/CL
Lynn-Sign Moulded Plastic Co., Inc..23a/Ly
New York Silicate Book Slate Co., Inc. 23a/Ne
Poblocki & Sons Co. 23e/Po
Southwell Co. 6f/So
Spencer Industries, Inc. 23a/Sp
Tablet & Ticket Co. 23a/Ta; 23a/Tab

products

bulletin and display boards *cont.*

cork, magnetic, tackboard, etc.

ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Bulletin & Directory Board Corp. 23a/Ac
Beckley-Cardy Co. 23e/Be
Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
Claridge Products & Equipment, Inc. .. 23e/CL
Congoleum-Nairn Inc., Industrial Sales Div. 23e/Co
Educational Equipment Co. 23e/Ed
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Gotham Materials, sub. Gotham Chalkboard & Trim Co., Inc. 13i/Got
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
Lynn-Sign Moulded Plastic Co., Inc.. 23a/Ly
New York Silicate Book Slate Co., Inc. 23a/Ne; 23e/Ne
Poblocki & Sons Co. 23e/Po
Son-Nel Products Co. 23e/So
Southwell Co. 6f/So
Spencer Industries, Inc. 23a/Sp
Tablet & Ticket Co. 23a/Ta; 23a/Tab
Unique Balance Div., S. H. Pomeroy Co. 23e/Un
United States Plywood Corp. 23e/Uni
Vogel-Peterson Co. 23d/Vo
Weber Costello Co. 23e/We

bumpers

door

see *checks, closers, bumpers and holders—door* 18

parking

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cabinets—filing

see *filing cabinets* 23

cabinets—hospital

see *hospital equipment: — cabinets and casework* 23

cabinets—locker type

see *storage:—bins, cabinets or drawers*... 23

cabinets—x-ray

see *hospital equipment:—x-ray—viewing cabinets, observation booths, floor screens, etc.* 23

carillons

see *church equipment:—bells and carillons* 23

carts—clay storage

(see also *trucks:—hand* .... 23)
Grade-Aid Corp, Sub. Maine Mfg. Co. 23i/Gr
St. Charles Mfg. Co. 23i/Sa

chairs

see *furniture; seating* 23

chalkboards

accessories for—cleaners, mouldings, troughs, etc.

Acme Metal Molding Co. 21/Ac
Beckley-Cardy Co. 23e/Be
Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
Claridge Products & Equipment, Inc. .. 23e/CL
Educational Equipment Co. 23e/Ed
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Kawneer Co. 21/Kaw
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
Natural Slate Blackboard Co. 23e/Na
New York Silicate Book Slate Co., Inc. 23e/Ne
Son-Nel Products Co. 23e/So
United States Plywood Corp. 23e/Uni
Weber Costello Co. 23e/We

composition

Beckley-Cardy Co. 23e/Be
Claridge Products & Equipment, Inc. .. 23e/CL
Educational Equipment Co. 23e/Ed
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Loxit Systems, Inc. 23e/Lo
New York Silicate Book Slate Co., Inc. 23e/Ne
Son-Nel Products Co. 23e/So
Unique Balance Div., S. H. Pomeroy Co. 23e/Un
Weber Costello Co. 23e/We

easel type

Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
Claridge Products & Equipment, Inc. .. 23e/CL
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
New York Silicate Book Slate Co., Inc. 23e/Ne
United States Plywood Corp. 23e/Uni
Weber Costello Co. 23e/We

glass

New York Silicate Book Slate Co., Inc. 23e/Ne

plastic

Claridge Products & Equipment, Inc. .. 23e/CL
New York Silicate Book Slate Co., Inc. 23e/Ne

porcelain enamel

Bettinger Corp. 3c/Be
Claridge Products & Equipment, Inc. . 23e/CL
Educational Equipment Co. 23e/Ed
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
Mirawal Div., Birdsboro Steel Foundry & Machine Co. 3c/Mi; 6d/Mi
New York Silicate Book Slate Co., Inc.. .... 23e/Ne
Son-Nel Products Co. 23e/So
United States Plywood Corp. 23e/Uni

portable or movable

Claridge Products & Equipment, Inc. .. 23e/CL
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co.. 23e/Ko

chalkboards *cont.*

portable or movable *cont.*

New York Silicate Book Slate Co., Inc. 23e/Ne
Son-Nel Products Co. 23e/So
United States Plywood Corp. 23e/Uni
Vogel-Peterson Co. 23d/Vo
Weber Costello Co. 23e/We

reversible

Claridge Products & Equipment, Inc. .. 23e/CL
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
New York Silicate Book Slate Co., Inc. 23e/Ne

slate

Natural Slate Blackboard Co. 23e/Na
New York Silicate Book Slate Co., Inc. 23e/Ne
Unique Balance Div., S. H. Pomeroy Co. 23e/Un

sliding

Claridge Products & Equipment, Inc. .. 23e/CL
Educational Equipment Co. 23e/Ed
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
New York Silicate Book Slate Co., Inc. 23e/Ne
Son-Nel Products Co. 23e/So
Unique Balance Div., S. H. Pomeroy Co. 23e/Un
United States Plywood Corp. 23e/Uni

sliding—vertical—balanced

Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
Unique Balance Div., S. H. Pomeroy Co. 23e/Un

checkroom equipment

(see also *clothes racks* .... 23)
Borroughs Mfg. Co. 23f/Bo
Vogel-Peterson Co. 23d/Vo

church equipment

bells and carillons

McShane Bell Foundry Co., Inc. 23h/Mc
Schulmerich Carillons Inc. 23h/Sc

confessionals

Donald, J. R., Co. 23h/Do
Suttle Equipment Corp. 34a/Su

confessionals—grilles for

Donald, J. R., Co. 23h/Do

cushions and draperies

Edgewood Furniture Co., Inc. 23o/Ed
Garnett Church Furniture & Mfg. Co. 23h/Ga

depositories

Mosler Dropository Corp. 23b/Mo

furnishings—metal or wood

ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Armento Metal Arts Co. 6f/Ar

church equipment *cont.*

furnishings—metal or wood *cont.*
Donald, J. R., Co. 23h/Do
Edgewood Furniture Co., Inc. 23o/Ed
Garnett Church Furniture & Mfg. Co. 23h/Ga
Guild Hall Studios, Inc. 23h/Gu
Rambusch 23h/Ra

spires
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stained glass
Rambusch 23h/Ra

chutes

mail or package
see mail or package chutes 23

classroom equipment

see specific items as: carts — clay storage; chalkboards; desks—library, office, school; seating; storage:—bins, cabinets and drawers; wardrobe 23

clothes racks

(see also closets:—accessories for .... 18)

checking system
Vogel-Peterson Co. 23d/Vo

coat and hat
Beltor Mfg. Corp. 22c/Be
Borroughs Mfg. Co. 23f/Bo
Carnahan Mfg. Co., Inc. 23d/Ca
Knape & Vogt Mfg. Co. 18g/Kn
Nelson, A. R., Co., Inc. 23d/Ne
Richards-Wilcox Mfg. Co., School Equipment Div. 23d/Ri
St. Charles Mfg. Co. 23i/Sa
Vogel-Peterson Co. 23d/Vo

overshoe
Nelson, A. R., Co., Inc. 23d/Ne
St. Charles Mfg. Co. 23i/Sa
Vogel-Peterson Co. 23d/Vo

umbrella
Carnahan Mfg. Co., Inc. 23d/Ca
St. Charles Mfg. Co. 23i/Sa
Vogel-Peterson Co. 23d/Vo

communication chutes

Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu

confessionals

see church equipment:—confessionals 23

conveyors

book or record
see library equipment:—book or record conveyors 23

food
see food service equipment—commercial or institutional:—conveyors 26

copying and printing machines

Bruning, Charles, Co., Inc. 23b/Br

counters

commercial or institutional
see partitions:—office 22
bank equipment:—counters and check desks 23
tops—cabinet, counter, sink, etc.:—commercial or institutional 26

residential
see tops—cabinet, counter, sink, etc.:—domestic 25

crematories

American Incinerator Corp. 28a/Am
Brule Incinerator Corp. 28a/Br
Goder, Joseph, Inc. 28a/Go
Kellogg-Mann Corp. 28a/Ke
Morse Boulger, Inc. 28a/Mo
Nash, Cadmus & Voelker Inc. 28a/Na
O'Hara Incinerator Co. 28a/Oh
Plibrico Co. 28a/PL
Pyro Incinerator & Supply Co. 28a/Py
Sargent Building Specialties Inc., Equal-Aire Incinerator Div. 28a/Sar
United States Incinerator Corp. 28a/Un

depositories

see bank equipment:—night and 24-hour depositories; church equipment:—depositories; library equipment:—depository-conveyor 23

desks—library, office, school

Ames, W. R., Co., Bookstack Div. 23f/Am
Art Metal Construction Co. 23b/Art; 23f/Ar; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Corry Jamestown Corp. 22a/Co
Cramer Posture Chair Co., Inc. 23i/Cr
Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Edgewood Furniture Co., Inc. 23o/Ed
Estey Corp. 23f/Es
Globe-Wernicke Co. 23f/GL
Huntington Furniture Corp. 23o/Hu
Knoll Associates, Inc. 23o/Kn
Remington Rand, Div. Sperry Rand Corp. 23o/Re; 23f/Re
St. Charles Mfg. Co. 23i/Sa
Simmons Co. 23i/Sim

directories and signs

(see also letters and signs .... 6)
ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Bulletin & Directory Board Corp. 23a/Ac
Allen Marking Products, Inc. 23a/AL
Best Mfg. Co. 23a/Be
Cadillac Engravers 23a/Ca
Lake Shore Markers Inc. 6f/La
Lawrence Metal Products, Inc. 6e/La
Lynn-Sign Moulded Plastic Co., Inc. 23a/Ly
Matthews, Jas. H., & Co. 6f/Ma
Nelco Metalcraft, Inc. 6f/Ne
New York Silicate Book Slate Co., Inc. 23a/Ne
Oregon Brass Works 6f/Or
Southwell Co. 6f/So

directories and signs *cont.*

Spencer Industries, Inc. 23a/Sp
Supersine Co. 6f/Su
Wellman Products Co. 6f/We

changeable letter
ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Bulletin & Directory Board Corp. 23a/Ac
Allen Marking Products, Inc. 23a/AL
Florence Mfg. Co., Inc. 34a/FL
Lynn-Sign Moulded Plastic Co., Inc. 23a/Ly
New York Silicate Book Slate Co., Inc. 23a/Ne
Poblocki & Sons Co. 23e/Po
Southwell Co. 6f/So
Spencer Industries, Inc. 23a/Sp
Tablet & Ticket Co. 23a/Ta; 23a/Tab

letters for
ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Bulletin & Directory Board Corp. 23a/Ac
Andco Industries Corp. 6f/An
Art In Bronze Co., Inc. 6f/Art
Lake Shore Markers Inc. 6f/La
Lynn-Sign Moulded Plastic Co., Inc. 23a/Ly
Matthews, Jas. H., & Co. 6f/Ma
New York Silicate Book Slate Co., Inc. 23a/Ne
Oregon Brass Works 6f/Or
Poblocki & Sons Co. 23e/Po
Southwell Co. 6f/So
Spencer Industries, Inc. 23a/Sp
Tablet & Ticket Co. 23a/Ta; 23a/Tab
Wellman Products Co. 6f/We

disappearing beds

Simmons Co. 23i/Sim

disappearing stairways

see stairways:—disappearing 23

display and map rails

Beckley-Cardy Co. 23e/Be
Claridge Products & Equipment, Inc. 23e/CL
Educational Equipment Co. 23e/Ed
Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Korok Inc., Div. Enamel Products Co. 23e/Ko
Loxit Systems, Inc. 23e/Lo
New York Silicate Book Slate Co., Inc. 23e/Ne
Son-Nel Products Co. 23e/So
Weber Costello Co. 23e/We

display cabinets and cases

ABC Bulletin & Directory Co., Assoc. Nelson-Harkins Industries 23a/Ab
ABC Letter Co., Affil. Nelson-Harkins Industries 6f/Ab
Acme Metal Molding Co. 21/Ac
Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
Claridge Products & Equipment, Inc. 23e/CL
Cupples Door & Frame Corp. 16a/Cu

products

display cabinets and cases *cont.*

Educational Equipment Co. 23e/Ed
Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge
Gotham Chalkboard & Trim Co., Inc. 23e/Go
Hankins & Johann, Inc. 6e/Ha
Himmel Brothers Co. 21/Hi
Korok Inc., Div. Enamel Products Co.. 23e/Ko
Loxit Systems, Inc. 23e/Lo
Michaels Art Bronze Co. 23e/Mi
New York Silicate Book Slate Co., Inc. 23a/Ne; 23e/Ne
Poblocki & Sons Co. 23e/Po
Rebco, Inc. 21/Re
Remington Rand, Div. Sperry Rand Corp. 23f/Re
Rohm & Haas Co. 7d/Roh
Schless, Robert A., & Co., Inc. 23c/Sc
Spencer Industries, Inc. 23a/Sp

displays—advertising

Andco Industries Corp. 6f/An
Poblocki & Sons Co. 23e/Po
Rohm & Haas Co. 7d/Roh

doors

cold storage or refrigerator
see *storage room doors—cold storage or refrigerator* 23

detention
see *prison equipment:—doors—detention* .. 23

jail
see *prison equipment:—doors—detention* .. 23

showcase
see *display cabinets and cases* 23

vault, storage or record room
see *bank equipment:—vault doors; file room doors—fire-resistant* 23

wardrobe
see *wardrobe:—doors* 23

drawers

see *storage:—bins, cabinets or drawers* ... 23

elevators—stage

see *turntables and lifts* 23

file room doors—fire-resistant

Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Safe Co. 23b/Mos

filing cabinets

metal
Art Metal Construction Co. 23b/Art; 23f/Ar; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Corry Jamestown Corp. 22a/Co
Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge
Interior Steel Equipment Co. 23d/In
Mosler Safe Co. 23b/Mos
Remington Rand, Div. Sperry Rand Corp. 23f/Re
Watson Mfg. Co., Inc. 23L/Wa

fume hoods

see *laboratory equipment:—fume hoods* ... 23
ranges and ovens—domestic:—ventilating hoods for 24

furniture

(see also desks—library, office, school; disappearing beds; tables; etc. .... 23)
Art Metal Construction Co... 23b/Art; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Brody, B., Seating Co. 23o/Br
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
Chicago Hardware Foundry Co. 23o/Ch
Cramer Posture Chair Co., Inc. 23i/Cr
Edgewood Furniture Co., Inc. 23o/Ed
Harter Corp. 23o/Ha
Huntington Furniture Corp. 23o/Hu
Knoll Associates, Inc. 23o/Kn
Laverne, Inc. 23o/La
Remington Rand, Div. Sperry Rand Corp. 23o/Re
St. Charles Mfg. Co. 23i/Sa
Simmons Co. 23i/Sim
Standard Pressed Steel Co. 23i/St

glass

stained and leaded
see *church equipment:—stained glass* 23

guards—door, skylight or window

see *wirework:—door, skylight or window guards* 22
prison equipment:—window guards 23

gymnasium equipment

Knoxville Scenic Studios Inc. 23g/Kn
Medart, Fred, Products, Inc. 23J/Me
Narragansett Gymnasium Equipment Co. 23k/Na
Porter Athletic Equipment Co., Div. Waco Mfg. Co. 23k/Por
Springwood Floor System 13J/Sp

backboards
see *backstops* 23

scoreboards—electric
see *scoreboards—electric* 23

seating
see *bleachers and grandstands* 23

hardware

cold storage or refrigerator door
see *storage room doors—cold storage or refrigerator* 23

home economics equipment

Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge

hospital equipment

bandages and dressings—incinerators for
Kellogg-Mann Corp. 28a/Ke

hospital equipment *cont.*

blanket warmers
see *hospital equipment:—warming cabinets* 23

blood bank equipment
Jewett Refrigerator Co., Inc. 23L/Je
Jordon Commercial Refrigerator Co.. 26a/Jo
Koch Refrigerators, Inc. 26a/Ko
Victory Metal Mfg. Corp. 26a/Vi

cabinets and casework
Elkay Mfg. Co. 25b/ELk
General Electric Co. X-Ray Dept..... 23L/Ge
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Grand Rapids Sectional Equipment Co. 23L/Gr
Huntington Furniture Corp. 23o/Hu
Interior Steel Equipment Co. 23d/In
Jamestown Metal Products, Inc. 23L/Ja
Just Mfg. Co. 23L/Ju
Market Forge Co., Hospital Equipment Div. 23L/Ma
Maysteel Products, Inc. 23L/May
St. Charles Mfg. Co. 23L/Sa
Shampaine Co. 23L/Sh
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Watson Mfg. Co., Inc. 23L/Wa

cubicle
see *partitions:—hospital cubicle* 22

kitchen equipment
see *food service equipment—commercial or institutional* 26

mortuary refrigerators and racks
Eastern Steel Rack Co. 23c/Ea
Herrick Refrigerator Co. 26a/He
Jewett Refrigerator Co., Inc. 23L/Je
Jordon Commercial Refrigerator Co.. 26a/Jo
Market Forge Co., Hospital Equipment Div. 23L/Ma

operating, examining, treating
Industrial Acoustics Co., Inc. 11c/In
Jewett Refrigerator Co., Inc. 23L/Je
Just Mfg. Co. 23L/Ju

pharmacy
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Grand Rapids Sectional Equipment Co. 23L/Gr
Jamestown Metal Products, Inc. 23L/Ja
Maysteel Products, Inc. 23L-May
St. Charles Mfg. Co. 23L/Sa
Watson Mfg. Co., Inc. 23L/Wa

planning and contractors
Elkay Mfg. Co. 25b/ELk
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Grand Rapids Sectional Equipment Co. 23L/Gr
Jamestown Metal Products, Inc. 23L/Ja
Just Mfg. Co. 23L/Ju
Market Forge Co., Hospital Equipment Div. 23L/Ma
Maysteel Products, Inc. 23L/May
St. Charles Mfg. Co. 23L/Sa
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Watson Mfg. Co., Inc. 23L/Wa

hospital equipment *cont.*

warming cabinets
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Swartzbaugh Mfg. Co.................26d/Sw
Watson Mfg. Co., Inc. 23L/Wa

x-ray—machines, film and processing equipment
Ameray Corp. 22e/Am
Bar-Ray Products, Inc. 22e/Ba
General Electric Co. X-Ray Dept.....23L/Ge
Ray Proof Corp. 22e/Ra

x-ray—planning and contractors
(see also x-ray protection contractors.....35)
Ameray Corp. 22e/Am
General Electric Co. X-Ray Dept.....23L/Ge
General Lead Construction Corp. 22e/Ge
New England Lead Burning Co., Inc..22e/Ne
Ray Proof Corp. 22e/Ra

x-ray—viewing cabinets, observation booths, floor screens, etc.
Bar-Ray Products, Inc. 22e/Ba
General Electric Co. X-Ray Dept.....23L/Ge
New England Lead Burning Co., Inc..22e/Ne
Ray Proof Corp. 22e/Ra
Watson Mfg. Co., Inc. 23L/Wa

jail equipment
see prison equipment 23

laboratory equipment

faucets, fittings, valves, cocks
Simix Co. 27b/Si
Speakman Co. 27b/Sp
T. & S. Brass & Bronze Works, Inc.....27b/Ta
Wolverine Brass Works 23L/Wo

fume hoods
Alberene Stone Corp. of Virginia 23L/AL
Ameray Corp. 22e/Am
Duralab Equipment Corp. 23L/Du
Fisher Scientific 23L/Fi
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Jamestown Metal Products, Inc. 23L/Ja
Watson Mfg. Co., Inc. 23L/Wa

furniture and casework
Duralab Equipment Corp. 23L/Du
Fisher Scientific 23L/Fi
Jamestown Metal Products, Inc. 23L/Ja
Just Mfg. Co. 23L/Ju
Republic Steel Corp. 6c/Re
St. Charles Mfg. Co. 23L/Sa
Shampaine Co. 23L/Sh
Watson Mfg. Co., Inc. 23L/Wa

planning and contractors
Duralab Equipment Corp. 23L/Du
Fisher Scientific 23L/Fi
Jamestown Metal Products, Inc. 23L/Ja
Just Mfg. Co. 23L/Ju
Shampaine Co. 23L/Sh
Watson Mfg. Co., Inc. 23L/Wa

refrigerators
Jewett Refrigerator Co., Inc. 23L/Je
Koch Refrigerators, Inc. 26a/Ko
Victory Metal Mfg. Corp. 26a/Vi

laboratory equipment *cont.*

sinks and drainboards—acid-resisting metal alloy
(see also sinks — commercial or institutional 26
Duralab Equipment Corp. 23L/Du
Duriron Co., Inc....................29b/Du
Elkay Mfg. Co. 25b/FLk
Fisher Scientific 23L/Fi
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Jamestown Metal Products, Inc. 23L/Ja
Jewett Refrigerator Co., Inc. 23L/Je
Just Mfg. Co. 23L/Ju
Lead Industries Assn.................29a/Le

sinks and drainboards—stone
(see also sinks — commercial or institutional ....26)
Alberene Stone Corp. of Virginia 23L/AL
Geneva Hospital Casework, Div. Acme Steel Co. 23L/Gen
Jamestown Metal Products, Inc. 23L/Ja
Structural Slate Co. 4c/St

slate
Rising & Nelson Slate Co., Inc. 8e/Ri
Structural Slate Co. 4c/St

stoneware or porcelain
Fisher Scientific 23L/Fi

letter boxes
(see also mail boxes ....18)
Bommer Spring Hinge Co., Inc.......18e/Bo
Capitol Mail Chute Corp. 23b/Ca
Corbin Wood Products Div., American Hardware Corp. 23b/Co
Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Florence Mfg. Co., Inc. 34a/FL
Keyless Lock Co. 23b/Ke
Mosler Dropository Corp. 23b/Mo

library equipment

book or record conveyors
Ames, W. R., Co., Bookstack Div....23f/Am
Art Metal Construction Co...23b/Art; 23f/Ar
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
Globe-Wernicke Co. 23f/GL
Lamson Corp. 24a/La
Matot, D. A., Inc....................24a/Ma
Standard Conveyor Co. 24d/St
Virginia Metal Products, Inc. 22a/Vi

bookstacks
Ames, W. R., Co., Bookstack Div....23f/Am
Art Metal Construction Co...23b/Art; 23f/Ar
Borroughs Mfg. Co. 23f/Bo
Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
DeLuxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Estey Corp. 23f/Es
Globe-Wernicke Co. 23f/GL
Interior Steel Equipment Co. 23d/In
Remington Rand, Div. Sperry Rand Corp. 23f/Re
Virginia Metal Products, Inc. 22a/Vi

depository-conveyor
Mosler Dropository Corp. 23b/Mo

library equipment *cont.*

desks
see desks—library, office, school 23

furnishings
Ames, W. R., Co., Bookstack Div....23f/Am
Art Metal Construction Co...23b/Art; 23f/Ar
Borroughs Mfg. Co. 23f/Bo
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
DeLuxe Metal Products Co., Div. Royal Metal Mfg. Co......................23f/De
Estey Corp. 23f/Es
Globe-Wernicke Co. 23f/GL
Knoll Associates Inc. 23o/Kn
Remington Rand, Div. Sperry Rand Corp. 23f/Re

installation service
Ames, W. R., Co., Bookstack Div....23f/Am
Art Metal Construction Co...23b/Art; 23f/Ar
Globe-Wernicke Co. 23f/GL
Remington Rand, Div. Sperry Rand Corp. 23f/Re

planning and contractors
Art Metal Construction Co...23b/Art; 23f/Ar
Estey Corp. 23f/Es
Globe-Wernicke Co. 23f/GL
Remington Rand, Div. Sperry Rand Corp. 23f/Re

shelving
Ames, W. R., Co., Bookstack Div....23f/Am
Art Metal Construction Co...23b/Art; 23f/Ar
Borroughs Mfg. Co. 23f/Bo
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
DeLuxe Metal Products Co., Div. Royal Metal Mfg. Co.......................23f/De
Estey Corp. 23f/Es
Globe-Wernicke Co. 23f/GL
Interior Steel Equipment Co. 23d/In
Penco Div., Alan Wood Steel Co. ...23d/Pe
Remington Rand, Div. Sperry Rand Corp. 23f/Re
Virginia Metal Products, Inc. 22a/Vi

locker room equipment

basket racks and baskets
Interior Steel Equipment Co. 23d/In
Kiefer, Adolph & Co. 23k/Ki
Lyon Metal Products, Inc. 23a/Ly
Medart Lockers, Inc. 23d/Med
Penco Div., Alan Wood Steel Co. ...23d/Pe
Republic Steel Corp., Berger Div.....23d/Re
Woven Wire Products Assn. 22f/Wo

benches
Medart Lockers, Inc. 23d/Med
Penco Div., Alan Wood Steel Co. ...23d/Pe

lockers
Interior Steel Equipment Co. 23d/In
Lyon Metal Products, Inc. 23d/Ly
Medart Lockers, Inc. 23d/Med
Penco Div., Alan Wood Steel Co. ..23d/Pe
Republic Steel Corp., Berger Div.....23d/Re
Vogel-Peterson Co. 23d/Vo

planning and contractors
Interior Steel Equipment Co. 23d/In
Lyon Metal Products, Inc. 23d/Ly
Penco Div., Alan Wood Steel Co. ..23d/Pe
Republic Steel Corp., Berger Div.....23d/Re

products

mail or package chutes

Capitol Mail Chute Corp. 23b/Ca
Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Donley Brothers Co.................31L/Do
Keyless Lock Co. 23b/Ke
Mosler Dropository Corp. 23b/Mo
Standard Conveyor Co. 24d/St

mail slots

Capitol Mail Chute Corp. 23b/Ca
Cutler Mail Chute Co., Sub. Federal Equipment Co. 23b/Cu
Mosler Dropository Corp. 23b/Mo

mortuary racks and trays

see hospital equipment: — mortuary refrigerators and racks 23

murals

Cement Enamel Development, Inc. ..13h/Ce
Formica Corp., Sub. Cyanamid......14a/Fo
Knoxville Scenic Studios Inc. 23g/Kn
Murals Inc. 13c/Mu
Rambusch 23h/Ra

porcelain enamel

see panels—building:—metal—decorative ..3

office furniture

see bookcases; desks—library, office, school; furniture; seating:—school, library, office 23

parking equipment

barriers and bumpers

Durable Mat Co. 23p/Du
Harris Barrier, Inc. 23p/Ha
Rackle, George, & Sons Co...........2d/Ra

docks—adjustable

Globe Hoist Co......................24a/GL
Rotary Lift Co., Div. Dover Corp.....23g/Ro

playground equipment —bars, ladders, slides, etc.

Narragansett Gymnasium Equipment Co. 23k/Na

printing machines

see copying and printing machines 23

prison equipment

(see also windows—aluminum:—detention; windows—steel:—detention ....17)
Adam, Folger 23m/Ad
Decatur Iron & Steel Co., Inc. 23m/De
Pauly Jail Building Co. 23m/Pa
Roanoke Iron & Bridge Works, Inc. ..23m/Ro
Stewart Iron Works Co., Inc. 23m/St
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Van Dorn Iron Works Co. 23m/Va

prison equipment *cont.*

doors—detention

Bellwood Co. of California, Div. Packard-Bell 16c/Be
Roanoke Iron & Bridge Works, Inc. ..23m/Ro
Southern Steel Co. 23m/So
Stewart Iron Works Co., Inc. 23m/St
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Trussbilt Div., Siems Bros., Inc. 16b/Tru
Van Dorn Iron Works Co. 23m/Va

furnishings

Decatur Iron & Steel Co., Inc. 23m/De
Pauly Jail Building Co. 23m/Pa
Roanoke Iron & Bridge Works, Inc. ...23m/Ro
Southern Steel Co. 23m/So
Stewart Iron Works Co., Inc. 23m/St
Van Dorn Iron Works Co. 23m/Va

window guards

Decatur Iron & Steel Co., Inc. 23m/De
Fenestra, Inc. 17a/Fe
Roanoke Iron & Bridge Works, Inc. ...23m/Ro
Stewart Iron Works Co., Inc. 23m/St
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Van Dorn Iron Works Co. 23m/Va

racks

(see also clothes racks; storage:—racks and shelving ....23)

barrel, reel or merchandise storage

Eastern Steel Rack Co. 23c/Ea
Market Forge Co. 23c/Ma

basket

Republic Steel Corp., Berger Div. 23d/Re

radiators

cabinet-radiator or air conditioning combination

see storage:—cabinet-radiator or air conditioning combination 23

ramps—dock

adjustable

see parking equipment: — docks — adjustable 23

receivers—package

Cleveland Steel Specialty Co., Inc.....2i/CL
Donley Brothers Co.................31L/Do
Florence Mfg. Co., Inc. 34a/FL
Mosler Dropository Corp. 23b/Mo

reproducing machines

see copying and printing machines 23

safes

Diebold, Inc. 23b/Di
Herring-Hall-Marvin Safe Co. 23b/He
Mosler Safe Co. 23b/Mos

school equipment

see specific items as:
carts — clay storage; chalkboards; desks—library, office, school; gymnasium equipment; seating; storage:—bins, cabinets and drawers; wardrobe 23

scoreboards—electric

Fair-Play Scoreboard Co. 23k/Fa

controls for

Fair-Play Scoreboard Co. 23k/Fa

sculpture

Armento Metal Arts Co. 6f/Ar
Bettinger Corp. 3c/Be
Guild Hall Studios, Inc. 23h/Gu
Murals Inc. 13c/Mu
Rambusch 23h/Ra

seating

auditorium and theater

Chicago Hardware Foundry Co. 23o/Ch

cafeteria, luncheonette— chairs, tables, booths

Art Metal Construction Co...23b/Art; 23o/Ar
Brody, B., Seating Co. 23o/Br
Chicago Hardware Foundry Co. 23o/Ch
Durham Mfg. Corp. 23i/Du
Haldeman-Homme Mfg. Co. 23i/Ha
Knoll Associates, Inc. 23o/Kn
Rol-Fol Table Inc. 23i/Ro
Schieber Sales Co. 23i/Sc
Son-Nel Products Co................23e/So
Standard Pressed Steel Co. 23i/St

chairs—folding or stacking

Berlin Chapman Co. 23J/Ber
Durham Mfg. Corp. 23i/Du
Harter Corp. 23o/Har
Mitchell Mfg. Co. 23i/Mi

church

Edgewood Furniture Co., Inc.........23o/Ed
Garnett Church Furniture & Mfg. Co..23h/Ga
United States Plywood Corp. 5b/Un

gymnasium

see bleachers and grandstands 23

public (park, terminal etc.)

Edgewood Furniture Co., Inc.........23o/Ed

school, library, office

Chicago Hardware Foundry Co. 23o/Ch
Cramer Posture Chair Co., Inc. 23i/Cr
Durham Mfg. Corp. 23i/Du
Edgewood Furniture Co., Inc.........23o/Ed
Harter Corp. 23o/Ha
Knoll Associates, Inc. 23o/Kn
Mitchell Mfg. Co. 23i/Mi
Remington Rand, Div. Sperry Rand Corp. 23f/Re
Simmons Co. 23i/Sim
Son-Nel Products Co................23e/So
Standard Pressed Steel Co. 23i/St

stadium

Steel Forms, Inc. 2a/St
Universal Bleacher Co. 23J/Un

stools—bathroom

Swedish Crucible Steel Co., Plastics Div. 27a/Sw

stools—drafting, laboratory, counter, bar, etc.

Brody, B., Seating Co. 23o/Br
Chicago Hardware Foundry Co. 23o/Ch
Cramer Posture Chair Co., Inc.......23i/Cr

shelving

(see also library equipment: — shelving; storage:—racks and shelving. 23)

brackets for

All Metal Mfg. Co. 27d/AL
Ames, W. R., Co., Bookstack Div. ... 23f/Am
DeLuxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Estey Corp. 23f/Es
Knape & Vogt Mfg. Co. 18g/Kn
Masonite Corp. 8b/Mas; 14d/Mas

standards for

Ames, W. R., Co., Bookstack Div. ... 23f/Am
Knape & Vogt Mfg. Co. 18g/Kn

steel

Ames, W. R., Co., Bookstack Div. ... 23f/Am
Art Metal Construction Co. .. 23b/Art; 23o/Ar
Bastian-Blessing Co. 26d/Ba
Borroughs Mfg. Co. 23f/Bo
Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Estey Corp. 23f/Es
Interior Steel Equipment Co. 23d/In
Market Forge Co. 23c/Ma
Penco Div., Alan Wood Steel Co. 23d/Pe
Remington Rand, Div. Sperry Rand Corp. 23f/Re
St. Charles Mfg. Co. 23i/Sa
Standard Pressed Steel Co. 23i/St
Superior Fireproof Door & Sash Co., Inc. 16b/Sup
Tyler Refrigeration Corp. 26a/Ty

signs and letters

see letters, numbers and signs 6
directories and signs 23

stage equipment

curtains and rigging

Automatic Devices Co. 23g/Au
Clancy, J. R., Inc. 23g/CL
Knoxville Scenic Studios Inc. 23g/Kn
Vasconcellos, Joseph, Inc. 23g/Va

folding stages and steps

Horn Div., Brunswick-Balke-Collender Co. 23g/Ho
Schieber Sales Co. 23i/Sc

lighting

Century Lighting, Inc. 33a/Ce
Knoxville Scenic Studios Inc. 23g/Kn
Neo-Ray Products, Inc. 33a/Ne

lighting—controls for

Adam, Frank, Electric Co. .. 23g/Ad; 32a/Ad
Century Lighting, Inc. 33a/Ce

rising stages

Clancy, J. R., Inc. 23g/CL
Rotary Lift Co., Div. Dover Corp. .. 23g/Ro

scenery and props

Knoxville Scenic Studios Inc. 23g/Kn
Vasconcellos, Joseph, Inc. 23g/Va

turntables and lifts

see turntables and lifts 23

stage lighting

see stage equipment:—lighting 23

stairways

disappearing

Bessler Disappearing Stairway Co. ... 23n/Be
Precision Parts Corp. 23n/Pr

standards

for shelving

see shelving:—standards for 23

sterilizers

see hospital equipment:—sterilizers 23

storage

bins, cabinets or drawers

Art Metal Construction Co. .. 23b/Art; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Brunswick-Balke-Collender Co., School Equipment Div. 23e/Br
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
Caradco, Inc. 25b/Car
Geneva Modern Kitchens, Div. Acme Steel Co. 23i/Ge
Grade-Aid Corp., Sub. Maine Mfg. Co. 23i/Gr
Grand Rapids Sectional Equipment Co. 23L/Gr
Huntington Furniture Corp. 23o/Hu
Interior Steel Equipment Co. 23d/In
Jamestown Metal Products, Inc. 23L/Ja
Knoll Associates, Inc. 23o/Kn
LeFebure Corp. 23b/Le
Market Forge Co. 23c/Ma
Market Forge Co., Hospital Equipment Div. 23L/Ma
Maysteel Products, Inc. 23L/May
Penco Div., Alan Wood Steel Co. 23d/Pe
Remington Rand, Div. Sperry Rand Corp. 23o/Re
Republic Steel Corp., Berger Div. ... 23d/Re
St. Charles Mfg. Co. 23i/Sa; 23L/Sa
Schless, Robert A., & Co., Inc. 23c/Sc
Shampaine Co. 23L/Sh
Simmons Co. 23i/Sim
Standard Pressed Steel Co. 23i/St
Storagewall 23i/Sto
Structural Products, Inc. 23c/St
Watson Mfg. Co., Inc. 23L/Wa

cabinet-radiator or air conditioning combination

Flynn, Michael, Mfg. Co. 31a/FL
Norman Products Co. 31h/No

racks and shelving

Art Metal Construction Co. .. 23b/Art; 23o/Ar
Borroughs Mfg. Co. 23f/Bo
Brunswick-Balke-Collender Co., School Equipment Div. 23i/Br
Deluxe Metal Products Co., Div. Royal Metal Mfg. Co. 23f/De
Eastern Steel Rack Co. 23c/Ea
Emerson-Sack-Warner Corp. 6i/Em
Grade-Aid Corp., Sub. Maine Mfg. Co. 23i/Gr
Grand Rapids Sectional Equipment Co. 23L/Gr
Huntington Furniture Corp. 23o/Hu
Interior Steel Equipment Co. 23d/In
Jamestown Metal Products, Inc. 23L/Ja
Knoll Associates, Inc. 23o/Kn
Loxit Systems, Inc. 23e/Lo

storage *cont.*

racks and shelving *cont.*

Market Forge Co. 23c/Ma
Maysteel Products, Inc. 23L/May
Medart Lockers, Inc. 23d/Med
Penco Div., Alan Wood Steel Co. ... 23d/Pe
Republic Steel Corp., Berger Div. 23d/Re
St. Charles Mfg. Co. 23i/Sa; 23L/Sa
Schless, Robert A., & Co., Inc. 23c/Sc
Simmons Co. 23i/Sim
Standard Pressed Steel Co. 23i/St
Storagewall 23i/Sto
Structural Products, Inc. 23c/St
Tyler Refrigeration Corp. 26a/Ty
Vogel-Peterson Co. 23d/Vo
Watson Mfg. Co., Inc. 23L/Wa

racks and shelving—cold storage

Eastern Steel Rack Co. 23c/Ea
Market Forge Co. 23c/Ma
Tyler Refrigeration Corp. 26a/Ty

storage room doors—cold storage or refrigerator

Butcher Boy Refrigerator Door Co. 23c/Bu; 23c/But
Clark Door Co., Inc. 23c/CL
Jamison Cold Storage Door Co. 23c/Ja

swimming pool equipment

cleaning apparatus

International Swimming Pool Corp., Commercial Pool Div. 23k/In
Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La
Paragon Swimming Pool Co., Inc. 23k/Par
Recreation Equipment Corp. 23k/Re

diving board standards

International Swimming Pool Corp., Commercial Pool Div. 23k/In
Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La
Paragon Swimming Pool Co., Inc. 23k/Par
Recreation Equipment Corp. 23k/Re

diving boards, ladders, etc.

International Swimming Pool Corp., Commercial Pool Div. 23k/In
Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La
Paragon Swimming Pool Co., Inc. 23k/Par
Recreation Equipment Corp. 23k/Re

diving towers

International Swimming Pool Corp., Commercial Pool Div. 23k/In
Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La
Recreation Equipment Corp. 23k/Re

drains and fittings for

International Swimming Pool Corp., Commercial Pool Div. 23k/In
Josam Mfg. Co. 30g/Jo
Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La
Paragon Swimming Pool Co., Inc. 23k/Par

heating systems

Kiefer, Adolph & Co. 23k/Ki
Landon, Inc. 23k/La

products

swimming pool equipment *cont.*

maintenance equipment

International Swimming Pool Corp., Commercial Pool Div.	23k/In
Kiefer, Adolph & Co.	23k/Ki
Landon, Inc.	23k/La
Recreation Equipment Corp.	23k/Re

safety devices

International Swimming Pool Corp., Commercial Pool Div.	23k/In
Kiefer, Adolph & Co.	23k/Ki
Landon, Inc.	23k/La
Recreation Equipment Corp.	23k/Re

scum gutters

International Swimming Pool Corp., Commercial Pool Div.	23k/In
Paragon Swimming Pool Co., Inc.	23k/Par

water treatment apparatus (chlorinators, filters, pumps)

Detrex Chemical Industries, Filter Div.	23k/De
International Swimming Pool Corp., Commercial Pool Div.	23k/In
Kiefer, Adolph & Co.	23k/Ki
Landon, Inc.	23k/La
Paragon Swimming Pool Co., Inc.	23k/Par
Vacumite, Inc.	23k/Va

swimming pools

(see also swimming pools:—enclosures for 2)

International Swimming Pool Corp., Commercial Pool Div.	23k/In
Landon, Inc.	23k/La
Paragon Swimming Pool Co., Inc.	23k/Par

tables

folding or fold-a-way

Caradco, Inc.	25b/Car
Durham Mfg. Co.	23i/Du
Haldeman-Homme Mfg. Co.	23i/Ha
Johnson Plastic Tops, Inc.	14a/Jo
Mitchell Mfg. Co.	23i/Mi
Rol-Fol Table Inc.	23i/Ro
Schieber Sales Co.	23i/Sc
Son-Nel Products Co.	23e/So; 23i/So

folding—portable

Durham Mfg. Co.	23i/Du
Mitchell Mfg. Co.	23i/Mi
Schieber Sales Co.	23i/Sc

tables *cont.*

library, school, drafting, sorting, etc.

Art Metal Construction Co.	23b/Art
Borroughs Mfg. Co.	23f/Bo
Chicago Hardware Foundry Co.	23o/Ch
Durham Mfg. Co.	23i/Du
Edgewood Furniture Co., Inc.	23o/Ed
Grade-Aid Corp., Sub. Maine Mfg. Co.	23i/Gr
Knoll Associates, Inc.	23o/Kn
Mitchell Mfg. Co.	23i/Mi
Remington Rand, Div. Sperry Rand Corp.	23o/Re; 23f/Re
St. Charles Mfg. Co.	23i/Sa
Simmons Co.	23i/Sim
Standard Pressed Steel Co.	23i/St

restaurant, institutional dining room, etc.

Brody, B., Seating Co.	23o/Br
Chicago Hardware Foundry Co.	23o/Ch
Johnson Plastic Tops, Inc.	14a/Jo

trucks

hand

Borroughs Mfg. Co.	23f/Bo
Globe-Wernicke Co.	23f/GL
Market Forge Co.	23c/Ma
Progressive Metal Equipment Co.	26d/Pr
Standard Pressed Steel Co.	23i/St
Swartzbaugh Mfg. Co.	26d/Sw

turntables and lifts

Clancy, J. R., Inc.	23g/CL
Macton Machinery Co., Inc.	23g/Ma
Rotary Lift Co., Div. Dover Corp.	23g/Ro
Shlagro Steel Products Corp.	2f/ShL
Vasconcellos, Joseph, Inc.	23g/Va

ventilators

vault

see bank equipment:—vault ventilators....23

wardrobe

cabinets and drawers

Art Metal Construction Co.	23o/Ar
Brunswick-Balke-Collender Co., School Equipment Div.	23i/Br
Carnahan Mfg. Co., Inc.	23d/Ca
Caradco, Inc.	25b/Car
Equipment Mfg. Co., Inc.	23d/Eq

wardrobe *cont.*

cabinets and drawers *cont.*

Fairhurst, John T., Co., Inc.	23d/Fa
Geneva Modern Kitchens, Div. Acme Steel Co.	23i/Ge
Grade-Aid Corp., Sub. Maine Mfg. Co.	23i/Gr
Huntington Furniture Corp.	23o/Hu
Interior Steel Equipment Co.	23d/In
Jamestown Metal Products, Inc.	23L/Ja
Maysteel Products, Inc.	23L/May
Medart Lockers, Inc.	23d/Med
Nelson, A. R., Co., Inc.	23d/Ne
Penco Div., Alan Wood Steel Co.	23d/Pe
Remington Rand, Div. Sperry Rand Corp.	23o/Re
Republic Steel Corp., Berger Div.	23d/Re
Richards-Wilcox Mfg. Co., School Equipment Div.	23d/Ri
St. Charles Mfg. Co.	23i/Sa; 23L/Sa
School Supply Co.	23d/Sc
Shampaine Co.	23L/Sh
Simmons Co.	23i/Sim
Storagewall	23i/Sto
Watson Mfg. Co., Inc.	23L/Wa

clothes racks for

see clothes racks....23

doors

(see also doors—closet—folding, sliding, etc.....16)

Barber-Colman Co.	23d/Ba
Carnahan Mfg. Co., Inc.	23d/Ca
Curtis Companies, Inc.	16c/Cu
Dubuque Products, Inc.	22d/Du
Equipment Mfg. Co., Inc.	23d/Eq
Precision Parts Corp.	23n/Pr
School Supply Co.	23d/Sc
Simmons Co.	23i/Sim
Storagewall	23i/Sto
Woodall Industries Inc.	16c/Woo

doors—with chalkboard or tackboard

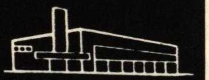
Barber-Colman Co.	23d/Ba
Equipment Mfg. Co., Inc.	23d/Eq
Fairhurst, John T., Co., Inc.	23d/Fa
Richards-Wilcox Mfg. Co., School Equipment Div.	23d/Ri
School Supply Co.	23d/Sc

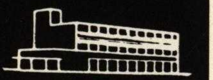
work benches

Borroughs Mfg. Co.	23f/Bo
St. Charles Mfg. Co.	23i/Sa
Standard Pressed Steel Co.	23i/St

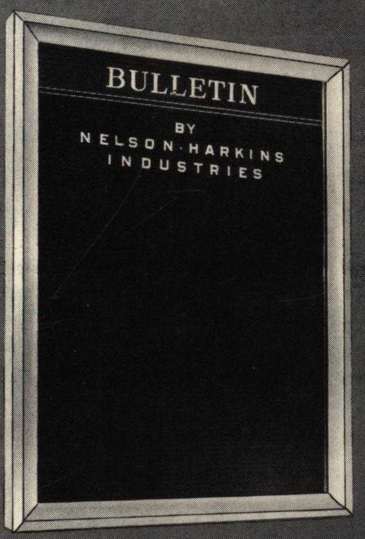
A.I.A. File No. 5-N-3

23a
Ab

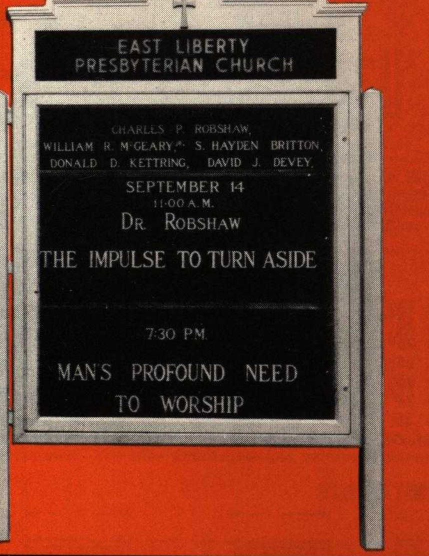




DIRECTORIES


BULLETIN
BY
NELSON-HARKINS
INDUSTRIES

BULLETINS


EAST LIBERTY
PRESBYTERIAN CHURCH
CHARLES P. ROBSHAW,
WILLIAM R. McGEARY, S. HAYDEN BRITTON,
DONALD D. KETTRING, DAVID J. DEVEY,
SEPTEMBER 14
11:00 A.M.
DR. ROBSHAW
THE IMPULSE TO TURN ASIDE
7:30 P.M.
MAN'S PROFOUND NEED
TO WORSHIP

ABC BULLETIN & DIRECTORY COMPANY
ASSOCIATE OF

NELSON-HARKINS
Industries
INC.

5301 North Kedzie Avenue • IRving 8-6243 • Chicago 25, Illinois

MEMBERS OF

National Association of
Architectural Metal Manufacturers
National Electric Sign Association

For 3-Dimensional Metal Letter Details—See ABC Letter Company—Section 6f/Ab

MEMBER OF

MARKING DEVICE
ASSOCIATION

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Nelson-Harkins Industries, Inc.

FOR
SCHOOLS • CHURCHES • STORES
OFFICE BUILDINGS • HOSPITALS
CLUBS • HOTELS • THEATRES

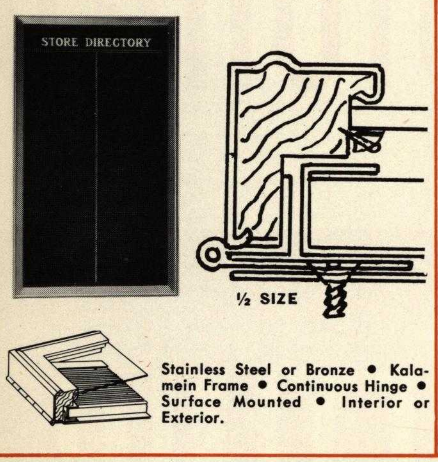
STAINLESS STEEL
CAST ALUMINUM
BRONZE
Porcelain
PLAQUES

NON-ILLUMINATED

BULLETINS • DIRECTORIES

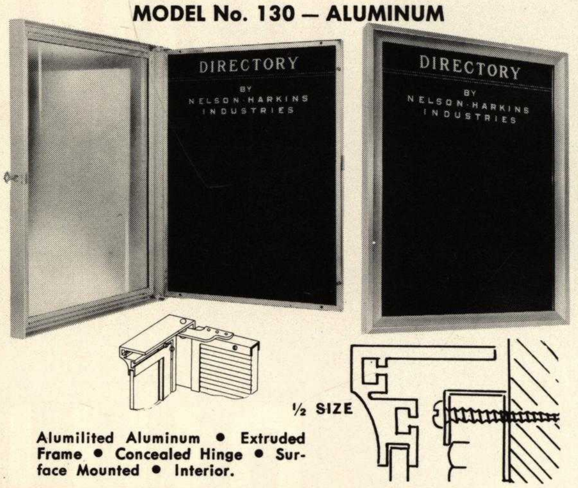
CHURCH • POSTER • ANNOUNCEMENT • DISPLAY
CHANGEABLE LETTER & CORK TACK BOARDS
STAINLESS STEEL • BRONZE • ALUMINUM

ODEL No. 140 — STAINLESS OR BRONZE


STORE DIRECTORY
½ SIZE

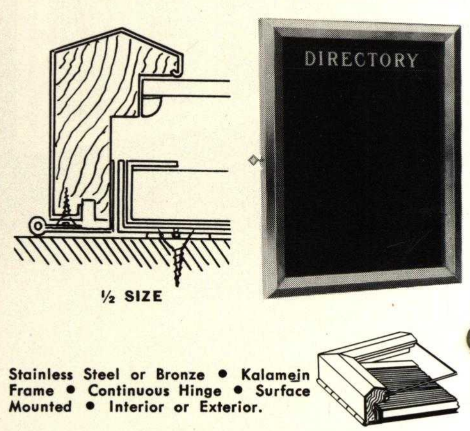
Stainless Steel or Bronze • Kalamein Frame • Continuous Hinge • Surface Mounted • Interior or Exterior.

MODEL No. 130 — ALUMINUM


DIRECTORY
BY
NELSON-HARKINS
INDUSTRIES
DIRECTORY
BY
NELSON-HARKINS
INDUSTRIES
½ SIZE

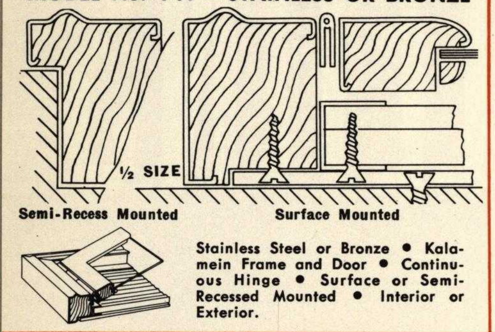
Alumilited Aluminum • Extruded Frame • Concealed Hinge • Surface Mounted • Interior.

MODEL No. 145 — STAINLESS OR BRONZE


DIRECTORY
½ SIZE

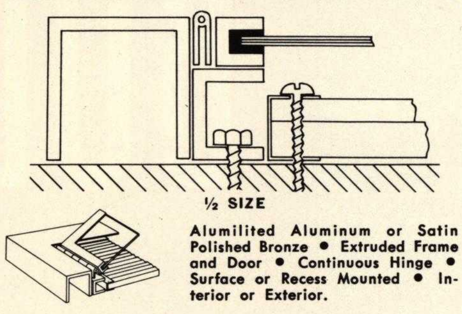
Stainless Steel or Bronze • Kalamein Frame • Continuous Hinge • Surface Mounted • Interior or Exterior.

MODEL No. 141 — STAINLESS OR BRONZE


½ SIZE
Semi-Recess Mounted
Surface Mounted

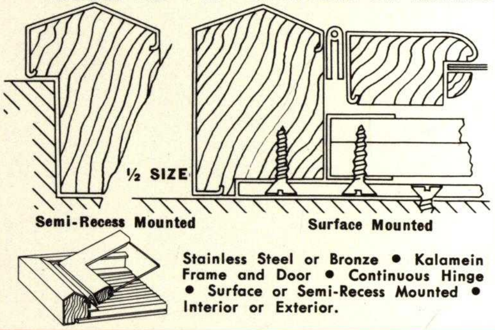
Stainless Steel or Bronze • Kalamein Frame and Door • Continuous Hinge • Surface or Semi-Recessed Mounted • Interior or Exterior.

MODEL No. 134 — ALUMINUM OR BRONZE



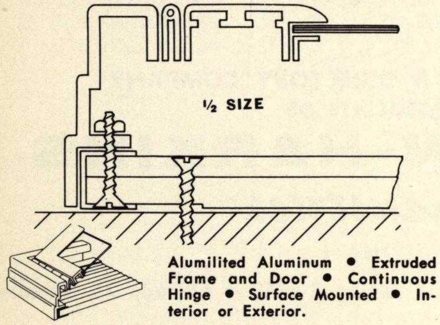
Alumilited Aluminum or Satin Polished Bronze • Extruded Frame and Door • Continuous Hinge • Surface or Recess Mounted • Interior or Exterior.

MODEL No. 143 — STAINLESS OR BRONZE


½ SIZE
Semi-Recess Mounted
Surface Mounted

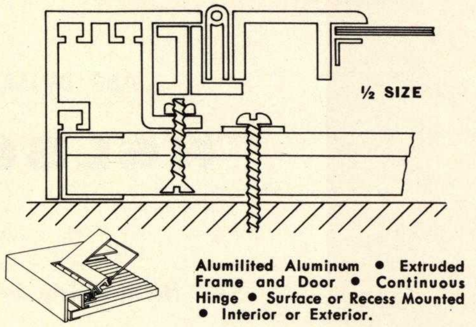
Stainless Steel or Bronze • Kalamein Frame and Door • Continuous Hinge • Surface or Semi-Recess Mounted • Interior or Exterior.

MODEL No. 136 — ALUMINUM



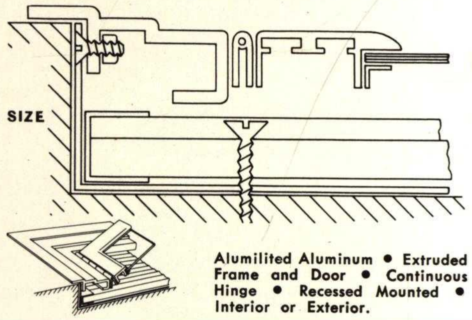
Alumilited Aluminum • Extruded Frame and Door • Continuous Hinge • Surface Mounted • Interior or Exterior.

MODEL No. 133 — ALUMINUM



Alumilited Aluminum • Extruded Frame and Door • Continuous Hinge • Surface or Recess Mounted • Interior or Exterior.

MODEL No. 135 — ALUMINUM



Alumilited Aluminum • Extruded Frame and Door • Continuous Hinge • Recessed Mounted • Interior or Exterior.

ARCHITECTS' SPECIFICATIONS

Furnish and install Bulletin (or Directory) Board as manufactured by NELSON-HARKINS INDUSTRIES, 5301 N. Kedzie Avenue, Chicago 25, Illinois. Board shall be MODEL No. 130, SIZE 30 High, 24 Wide. MATERIAL shall be ALUMINUM (Stainless—Bronze—Aluminum) with background for CHANGEABLE LETTERS (changeable letters or cork tack back).

GENERAL INFORMATION

Opening wider than 34 inches requires two doors.

Changeable letters from ¼″ to 2″ in several styles are available for use with standard grooved felt covered changeable letter backs. See back page for letters.

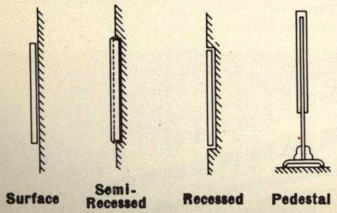
The cork back bulletin board is ideal for posting with thumb tacks. Cork may be natural tan or covered with felt to match changeable letter backs. In all cases black felt will be used unless specified otherwise. Blue, brown, maroon, crimson and green stock colors.

ANY SIZE AVAILABLE

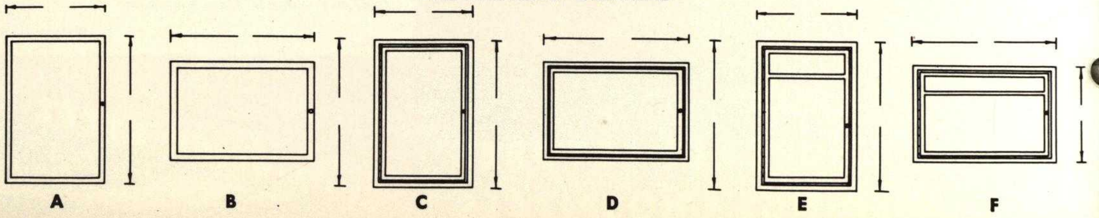
12″ x 15″
15″ x 20″
16″ x 20″
15″ x 25″
16″ x 26″
18″ x 24″
20″ x 25″
20″ x 26″
20″ x 30″
22″ x 28″
20″ x 36″
24″ x 30″
24″ x 36″
24″ x 40″
28″ x 40″
30″ x 36″
30″ x 42″
32″ x 44″
34″ x 48″
36″ x 48″
36″ x 36″

WHEN ORDERING: Advise model number, material, size, background, elevation and mounting.

MOUNTING DETAILS


Surface
Semi-Recessed
Recessed
Pedestal

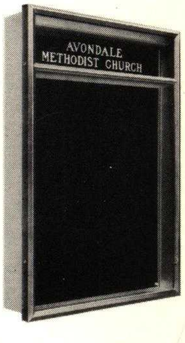
ELEVATION DETAILS

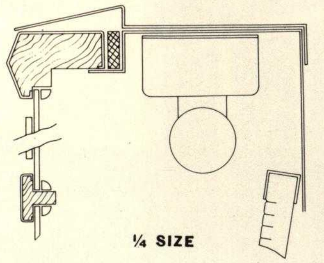


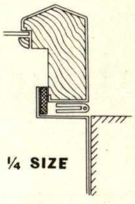
ABC BULLETIN & DIRECTORY COMPANY • ASSOCIATE OF NELSON-HARKINS *Industries, Inc.*

ILLUMINATED
BULLETINS • DIRECTORIES
CHURCH • POSTER • ANNOUNCEMENT • DISPLAY
CHANGEABLE LETTER • SHELVES • CORK TACK BOARDS
WEATHERPROOF • CONTINUOUS HINGES • LOCKS
STAINLESS STEEL • BRONZE • ALUMINUM

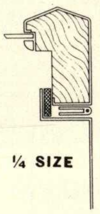
MODEL No. 147 — STAINLESS OR BRONZE



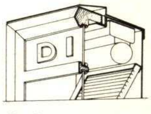

¼ SIZE


¼ SIZE

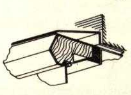
Semi-Recess Mounted


¼ SIZE

Surface Mounted

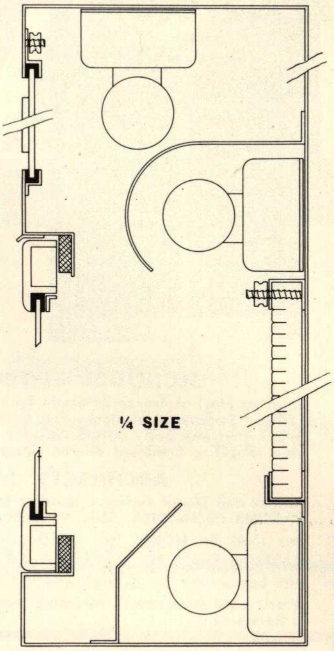


Surface Mounted

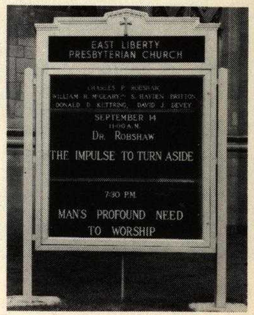

Semi-Recess Mounted

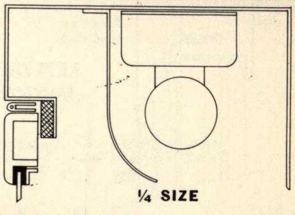
Stainless Steel or Bronze • Kalamein Door • Surface or Semi-Recessed Mounted • Top Illumination • Illuminated Heading.

MODEL No. 160—STAINLESS, BRONZE OR ALUMINUM

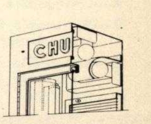

¼ SIZE

Height 10 feet

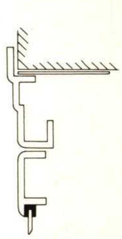


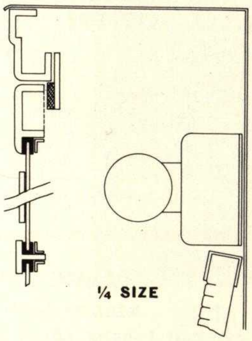

¼ SIZE

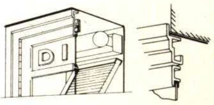
Fabricated Stainless Steel—No. 4 Satin Finish • Bronze—Satin Polished, Lacquered Finish • Aluminum—Satin Alumilite Finish • Illuminated Top or 4 Sides • Separately Illuminated Translucent Plastic Heading • Any Size • Any Mounting • Custom Fabricated to Order.



MODEL No. 155 — ALUMINUM

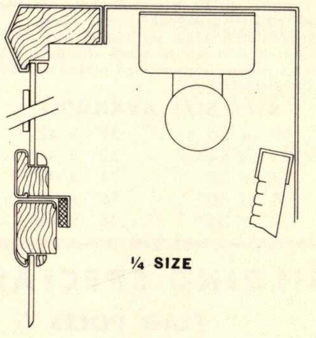

¼ SIZE
Recess Mounted

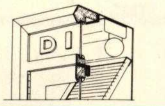

¼ SIZE



Alumilited Aluminum • Extruded Frame and Door • Surface or Recess Mounted • Top Illumination • Illuminated Heading.

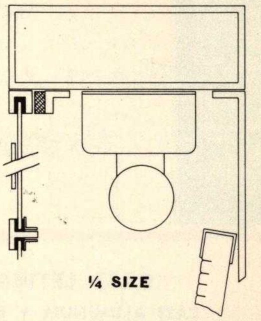
MODEL No. 149 — STAINLESS OR BRONZE

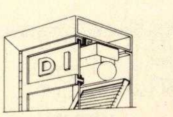

¼ SIZE



Stainless Steel • Kalamein Frame and Door • Surface or Recess Mounted • Top Illumination • Illuminated Heading.

MODEL No. 150—ALUMINUM OR BRONZE


¼ SIZE



Alumilited Aluminum or Satin Polished Bronze • Extruded Frame and Door • Surface or Recess Mounted • Top Illumination • Illuminated Heading.

ANY SIZE AVAILABLE

16″ x 20″
16″ x 26″
18″ x 24″
20″ x 26″
22″ x 28″
24″ x 30″
24″ x 36″
28″ x 40″
30″ x 36″
32″ x 44″
34″ x 48″
38″ x 60″

WHEN ORDERING: Advise model number, material, size, background, elevation and mounting.

GENERAL INFORMATION

Heading sections with white translucent plastic background with black cut-out raised plastic letters. Opening wider than 34 inches requires two doors.

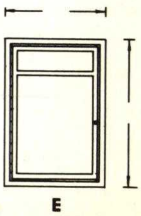
Changeable letters from ¼″ to 2″ in several styles are available for use with standard grooved felt covered changeable letter backs. See back page for letters.

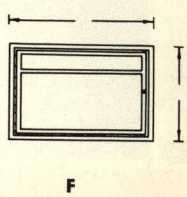
The cork back bulletin board is ideal for posting with thumb tacks. Cork may be natural tan or covered with felt to match changeable letter backs. In all cases black felt will be used unless specified otherwise. Blue, brown, maroon, crimson and green stock colors.

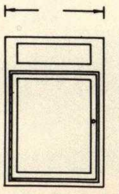
ARCHITECTS' SPECIFICATIONS

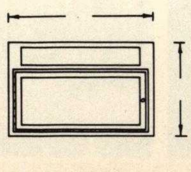
Furnish and install Bulletin (or Directory) Board as manufactured by NELSON-HARKINS INDUSTRIES, 5301 N. Kedzie Avenue, Chicago 25, Illinois. Board shall be MODEL No. 160, SIZE 60 High, 34 Wide. MATERIAL shall be STAINLESS (Stainless—Bronze—Aluminum) with background for CHANEABLE LETTERS (changeable letters, shelves, cork tack back). Mounted SEMI-RECESSED (surface, recessed or semi-recessed).

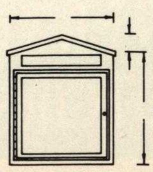
ELEVATION DETAILS


E

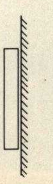

F

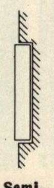

G

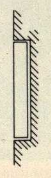

H

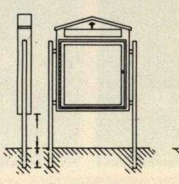

J

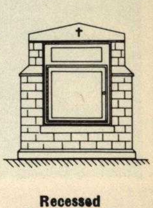
MOUNTING DETAILS


Surface


Semi-Recessed


Recessed


Ground Set with Posts

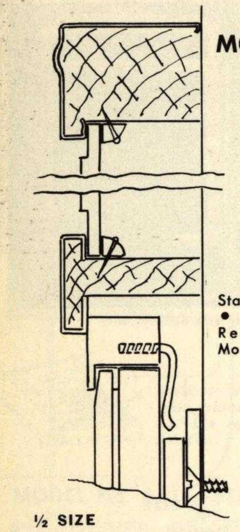

Recessed in Masonry

NON-ILLUMINATED • SECTIONAL

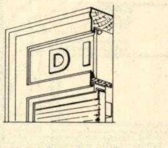
BUILDING DIRECTORIES

OFFICE • CLUB • HOSPITAL • STORE

CHANGEABLE LETTERS • EMBOSSED NAME STRIPS
REMOVABLE SECTIONS • INTERIOR USE
STAINLESS STEEL • BRONZE • ALUMINUM

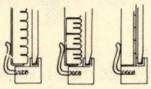


MODEL No. 142
STAINLESS OR BRONZE



Stainless Steel or Bronze • Kalamein Frame • Recess or Surface Mounted.

LETTERING METHODS

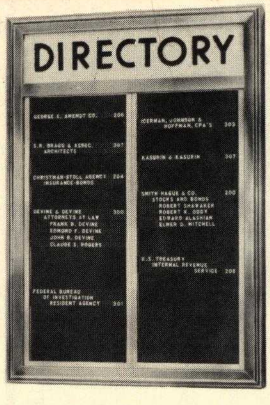


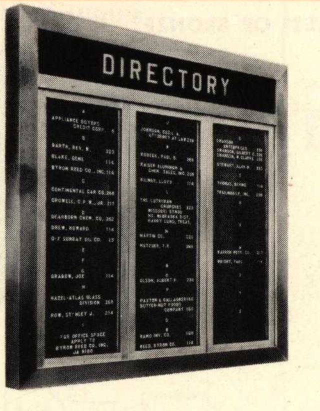
½ SIZE

A—Changeable Letters sizes.

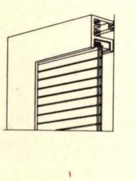
B—Removable Felt Grooved Strips for easy re-arrangement of Directory Boards.

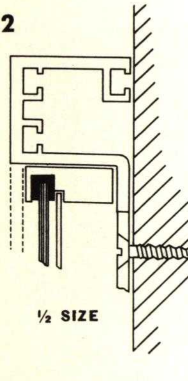
C—Removable Embossed Printed Strips. Complete copy machine printed. Most economical type.





MODEL No. 132
ALUMINUM





Alumilited Aluminum • Extruded Frame • Recess or Surface Mounting.

½ SIZE

SECTIONAL BUILDING DIRECTORIES

Stainless Steel or Bronze Kalamein Frame or Extruded Aluminum—Insert Glass Covered Removable Sections—Felt Covered Grooved Background for Changeable Letters (A), Felt Covered Grooved Interchangeable Strips (B) for Changeable Letters or Embossed Printed Name Strips (C).

ARCHITECTS' SPECIFICATIONS

Furnish and Install sectional Building Directory as manufactured by NELSON-HARKINS INDUSTRIES, 5301 N. Kedzie Avenue, Chicago 25, Illinois. Directory shall be MODEL No. 142, SIZE 26 High, 18 Wide. MATERIAL SHALL BE STAINLESS (Stainless—Bronze—Aluminum) with background for EMBOSSED STRIPS (changeable letters, or embossed name strips). Mounting shall be SURFACE (Surface or Recessed).

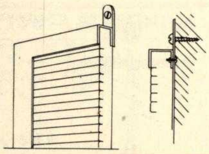
CAPACITY CHART

Frame Hgt. →	26"	33⅞"	40⅜"	47⅞"	Frame Width ↓
Sections	Number of Names				
1	45	65	80	100	10½"
2	90	130	160	200	18"
3	135	195	240	300	25½"
4	180	260	320	400	33"
5	225	325	400	500	40½"
6	270	390	480	600	48"

CHANGEABLE LETTER SIGNS OR CORK TACK BOARDS

MODEL No. 100

BUSINESS MEN'S LUNCH
SERVED FROM 11:00 A.M. - 2:30 P.M.
$1.50
SPRING VEGETABLE SOUP
ROAST TONGUE
MASHED POTATOES JUNE PEAS
COMBINATION SALAD
RICE PUDDING VANILLA SAUCE
COFFEE TEA OR MILK
DINNER SPECIAL
SERVE FROM 5 TO 8:30 P.M.
$2.50
K. C. SIRLION STEAK
AU GRATIN POTATOES
SLICED TOMATOES
COFFEE TEA OR MILK
DESERT



Stainless Steel Frame

Changeable letters from ¼" to 2" in several styles are available for use with standard grooved felt covered changeable letter backs.

The cork back bulletin board is ideal for posting with thumb tacks. Cork may be natural tan or covered with felt to match changeable letter backs. In all cases black felt will be used unless specified otherwise. Blue, brown, maroon, crimson and green are stock colors.

ANY SIZE AVAILABLE

16" x 20"	20" x 36"	30" x 42"	60" x 36"
16" x 26"	24" x 30"	32" x 44"	60" x 42"
18" x 24"	24" x 36"	34" x 48"	60" x 48"
20" x 26"	28" x 40"	36" x 36"	72" x 48"
20" x 30"	30" x 36"	36" x 48"	96" x 48"

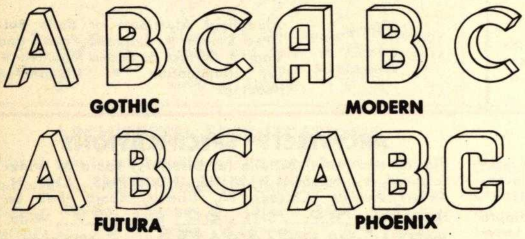
CHANGEABLE LETTERS

Style	Material	Type	Sizes
A	Celluloid	Block	¼, ⅜, ½, ¾, 1, 1½, 2
B	Celluloid	Phoenix	¼, ½, ¾, 1, 1½, 2
C	Celluloid	Lower Case	⅜ only
D	Plastic	Roman	¼, ⅜, ½, ¾, 1, 1½, 2
E	Plastic	Gothic	¼, ⅜, ½, ¾, 1, 1½
G	Aluminum	Roman	¼, ⅜, ½, ¾, 1, ½, 2, 2½, 3

BUILDING SPECIALTIES

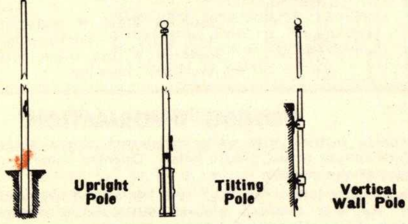
CAST LETTERS

CAST ALUMINUM • BRONZE


ABC
ABC
GOTHIC
MODERN
ABC
ABC
FUTURA
PHOENIX

FLAG POLES

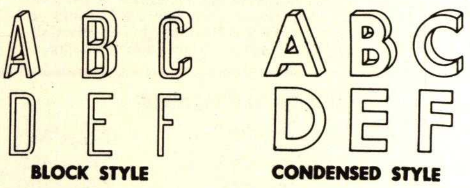
ALUMINUM • STEEL


Upright Pole
Tilting Pole
Vertical Wall Pole

PLASTIC LETTERS

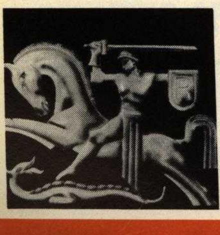
MOLDED OR BUILT-UP

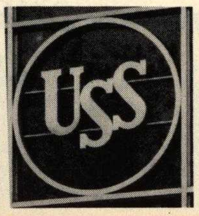
CUT-OUT PLASTIC FACES AND METAL SIDES


ABC
DEF
BLOCK STYLE
ABC
DEF
CONDENSED STYLE

TRADE MARKS

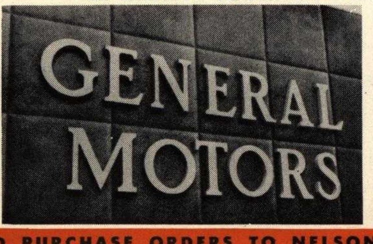
MADE TO YOUR SPECIFICATIONS





FABRICATED LETTERS

STAINLESS • PORCELAIN • BRONZE • ALUMINUM


GENERAL MOTORS

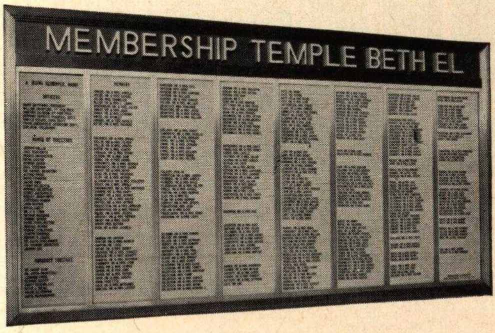
CADUCEUS

CAST • FABRICATED

SEND PURCHASE ORDERS TO NELSON-HARKINS INDUSTRIES, INC.
ABC BULLETIN & DIRECTORY COMPANY • ASSOCIATE OF NELSON-HARKINS *Industries, Inc.*
5301 NORTH KEDZIE AVENUE • Irving 8-6243 • CHICAGO 25, ILLINOI

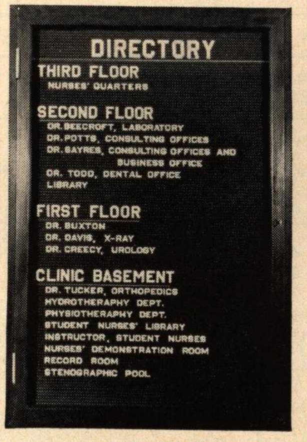
CATALOG SW-60

ACME


MEMBERSHIP TEMPLE BETH EL

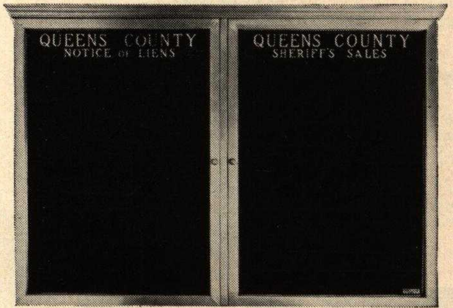
style 2600

changeable
name strip directory boards


DIRECTORY
THIRD FLOOR
NURSES' QUARTERS
SECOND FLOOR
DR. BEECROFT, LABORATORY
DR. POTTS, CONSULTING OFFICES
DR. SAYRES, CONSULTING OFFICES AND BUSINESS OFFICE
DR. TODD, DENTAL OFFICE
LIBRARY
FIRST FLOOR
DR. BUXTON
DR. DAVIS, X-RAY
DR. CREECY, UROLOGY
CLINIC BASEMENT
DR. TUCKER, ORTHOPEDICS
HYDROTHERAPHY DEPT.
PHYSIOTHERAPHY DEPT.
STUDENT NURSES' LIBRARY
INSTRUCTOR, STUDENT NURSES
NURSES' DEMONSTRATION ROOM
RECORD ROOM
STENOGRAPHIC POOL

style 35

changeable letter
bulletin, directory, menu
and statistical boards


QUEENS COUNTY
NOTICE OF LIENS
QUEENS COUNTY
SHERIFF'S SALES

style 730

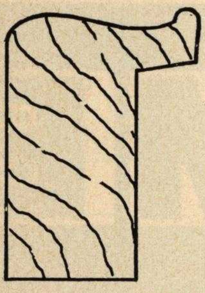
cork bulletin boards

ACME BULLETIN & DIRECTORY BOARD CORP.

ACME means beauty • durability • utility

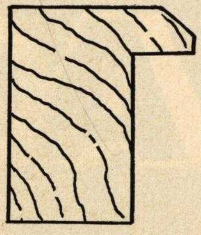
Our frames are made of metal or wood, as illustrated:

■ wood mouldings



OG

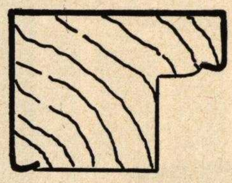
mahogany, oak
walnut or any
finish designated



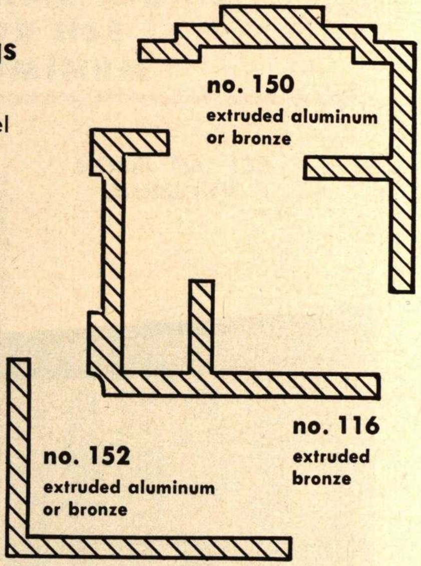
flat

■ metal mouldings

kalamein bronze or
kalamein stainless steel



no. 362


no. 150
extruded aluminum or bronze
no. 116
extruded bronze
no. 152
extruded aluminum or bronze

Note: **The boards shown on the following pages can be made up using the above mouldings in most cases. Special shapes can be supplied in kalamein bronze or kalamein stainless steel at extra cost.**

Our strip boards are shipped complete with all names. Changeable letter boards will also be set up before shipping.

■ bulletin boards · changeable LETTER TYPES

name capacity of changeable letter board

In all cases the capacities listed in the table to the right allow for a heading in larger letters to be placed at the top of the board, such as, "DIRECTORY," (one line only), in either ¾", 1", or 1½" high letters depending upon the size of the board.

In all cases we have allowed ¼" space between each listing, excepting the ⅜" letters where ⅛" only is the spacing between each listing.

These capacities are approximate, and they are the maximum for each size board.

Our method of figuring is as follows:

¼" letters are 3 to 1"
⅜" letters are 3 to 1¼"
½" letters are 3 to 1½"
¾" letters are 3 to 2¼"

In other words, for figuring purposes you allow the width of the letter the same as the height. For example, assuming that there are 21 characters in the name, this will take up a space of 7" in width using ¼" letters.

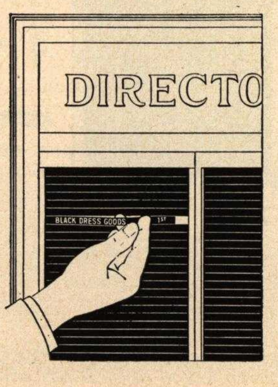
size of letters

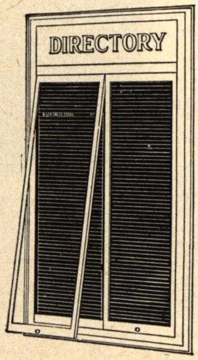
overall size	size of letters							
	¼"		⅜"		½"		¾"	
	no. of columns	no. of names	no. of columns	no. of names	no. of columns	no. of names	no. of columns	no. of names
10" wide x 8" high	1	10	1	10				
16" wide x 6" high	2	12	1	6	1	4		
15" wide x 10" high	1	14	1	14	1	9	1	7
16" wide x 12" high	2	36	1	18	1	12	1	9
15" wide x 20" high	1	26	1	26	1	18	1	14
16" wide x 23" high	2	64	1	32	1	21	1	16
16" wide x 30" high	2	92	1	46	1	30	1	23
20" wide x 25" high	2	72	2	72	1	24	1	18
20" wide x 30" high	2	92	2	92	1	30	1	23
20" wide x 36" high	2	116	2	116	1	38	1	29
20" wide x 40" high	2	132	2	132	1	44	1	33
24" wide x 30" high	2	92	2	92	2	60	1	23
24" wide x 36" high	2	116	2	116	2	76	1	29
24" wide x 40" high	2	132	2	132	2	88	1	33
28" wide x 40" high	3	198	2	132	2	88	1	33
32" wide x 40" high	3	198	3	198	3	132	2	66
36" wide x 44" high	4	296	3	222	3	147	2	74
36" wide x 48" high	4	328	3	246	3	162	2	82
40" wide x 48" high	4	328	3	246	3	162	2	82

■ directory boards

changeable STRIP TYPE

Illustration shows door lifted out. Name strip panels are accessible from the front and strips are kept in alphabetical order and are movable up or down, without having to be taken out of panel. Neatness is assured. Perfect alignment is automatic. Strips are black with white letters, or white with black or blue letters.





■ directory boards (strip type)

style 2600 (strip type)—for large buildings

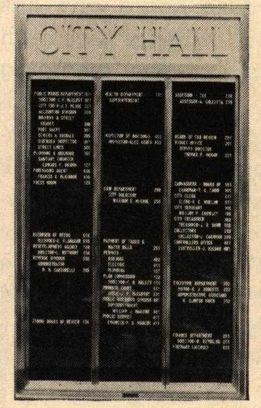
MAJESTIC BUILDING

This illustration shows style 150 moulding in aluminum and cast aluminum letter heading. Each panel is 7½" wide x 26" high, holding ⅜" x 7⅛" strips. Also in extruded bronze.

overall size	no. of panels	strip capacity
18"x33¾"	2	120
25⅝"x33¾"	3	180
33⅛"x33¾"	4	240
40¾"x33¾"	5	300
48⅜"x33¾"	6	360
55⅞"x33¾"	7	420
63⅜"x33¾"	8	480
70⅞"x33¾"	9	540
78½"x33¾"	10	600

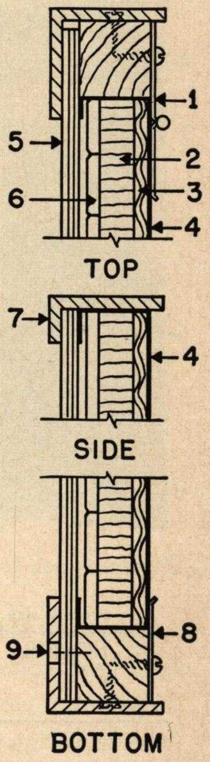
style 3000 (strip type)—for large buildings

This is a bronze framed directory board, style 116 moulding, with cast bronze heading. Each panel is 7½" wide x 32" high, holding strips ⅜" x 7⅛". Can be supplied in extruded aluminum.



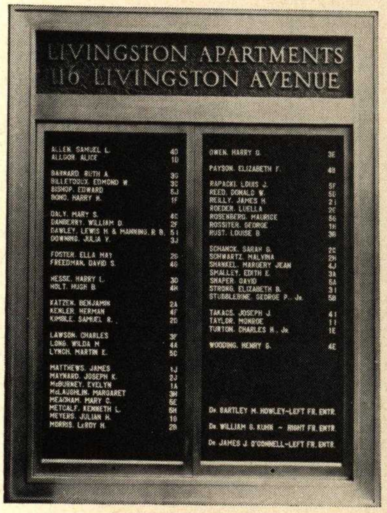
typical section of Acme directory board panels

1. Lever securing panel to frame
2. Wool felt
3. Composition board
4. Aluminum panel frame
5. Beveled plate glass
6. Fibre board directory strips
7. Panel frame
8. Retainer strip
9. Hole for pin to lift frame from board



overall size	no. of panels	strip capacity
17¾"x40"	2	152
25⅜"x40"	3	228
32⅞"x40"	4	304
40½"x40"	5	380
48⅛"x40"	6	456
55⅝"x40"	7	532
63⅛"x40"	8	608
70⅝"x40"	9	684
78¼"x40"	10	760

style 498 (strip type) • *for small buildings and apartment houses*

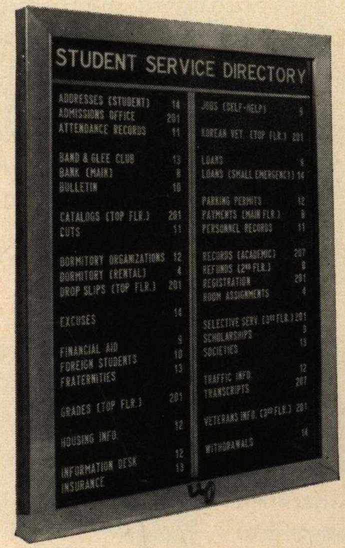


This illustrates an extruded bronze framed board, style 116 moulding, cast bronze heading. Panels are 7½" wide x 18" high. Name strips are standard ⅜" x 7⅛" size. Can be supplied in extruded aluminum frame No. 150 and No. 152 mouldings.

overall size	no. of panels	name strip capacity
17¾"x28"	2	82

Available in smaller or larger panels and in any number of panels.

style 494 — *for small buildings or individual tenant directory*



This board has a kalamein stainless steel frame. The heading is embossed letters, and the panels are 7⅛" wide x 20" high. Name strips are standard ⅜" x 7⅛". Can also be supplied in kalamein bronze.

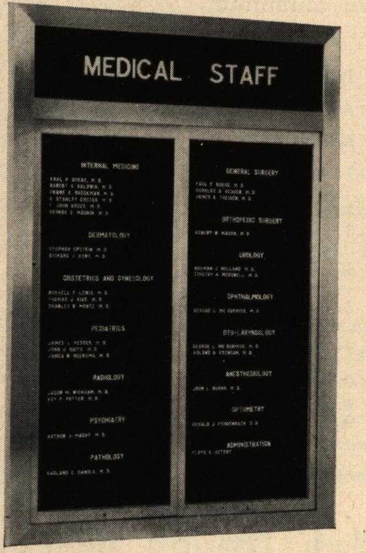
overall size	no. of panels	name strip capacity
16¼"x26¼"	2	92

Available in smaller or larger panels and in any number of panels.

ALL BOARDS CAN BE MADE TO YOUR SPECIFICATIONS

■ directory boards — strip type

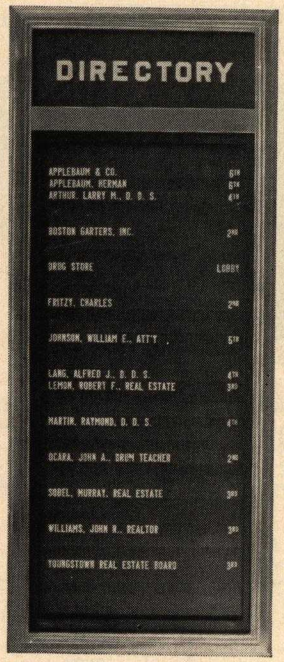
style 490 — for upper floors


MEDICAL STAFF
INTERNAL MEDICINE
DERMATOLOGY
OBSTETRICS AND GYNECOLOGY
PEDIATRICS
RADIOLOGY
PSYCHIATRY
PATHOLOGY
GENERAL SURGERY
ORTHOPEDIC SURGERY
UROLOGY
OPHTHALMOLOGY
OTO-LARYNGOLOGY
ANESTHESIOLOGY
OPTOMETRY
ADMINISTRATION

This is an extruded bronze board and has 7½" wide x 20" high panels. The moulding is #152 and the heading is in large white embossed letters on black background, glass covered. Name strips are ⅜" x 7⅛". Can also be supplied in extruded aluminum.

overall size	no. of panels	name strip capacity
17"x26¾"	2	92

style 496 — for small buildings or upper floor directories

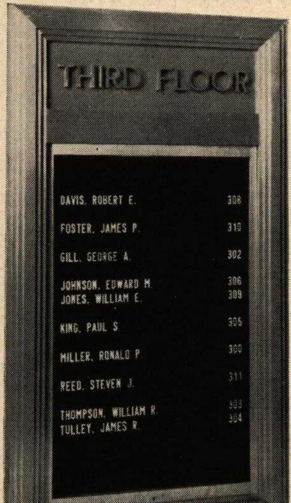

DIRECTORY
APPLEBAUM & CO. 6TH
APPLEBAUM, HERMAN 6TH
ARTHUR, LARRY M., D. D. S. 4TH
BOSTON GARTERS, INC. 2ND
DRUG STORE LOBBY
FRITZY, CHARLES 2ND
JOHNSON, WILLIAM E., ATT'Y 5TH
LANG, ALFRED J., D. D. S. 4TH
LEMON, ROBERT F., REAL ESTATE 3RD
MARTIN, RAYMOND, D. D. S. 4TH
OCARA, JOHN A., DRUM TEACHER 2ND
SOBEL, MURRAY, REAL ESTATE 3RD
WILLIAMS, JOHN R., REALTOR 3RD
YOUNGSTOWN REAL ESTATE BOARD 3RD

This board has a kalamein sheet bronze frame and heading is in large, white embossed letters on black background, glass covered. Panel is 10" wide x 26" high, and holds ⅝" x 9⅝" name strips. Can also be supplied in kalamein stainless steel.

overall size	no. of panels	name strip capacity
12½"x34⅜"	1	36
22½"x34⅜"	2	72

Available in smaller or larger panels and in any number of panels.

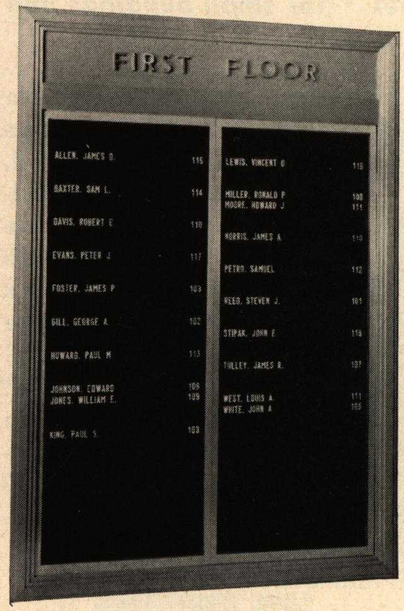
style 480 — for upper floor directories


THIRD FLOOR
DAVIS, ROBERT E. 308
FOSTER, JAMES P. 310
GILL, GEORGE A. 302
JOHNSON, EDWARD M 306
JONES, WILLIAM E. 309
KING, PAUL S. 305
MILLER, RONALD P. 300
REED, STEVEN J. 311
THOMPSON, WILLIAM R. 303
TULLEY, JAMES R. 304

This board has an extruded aluminum frame, moulding #150. Heading in raised aluminum letters. Each panel is 10" wide x 18" high, holding ⅝" x 9⅝" strips. Also available in extruded bronze.

overall size	no. of panels	name strip capacity
13"x28"	1	24

style 2600 — for upper floor directories

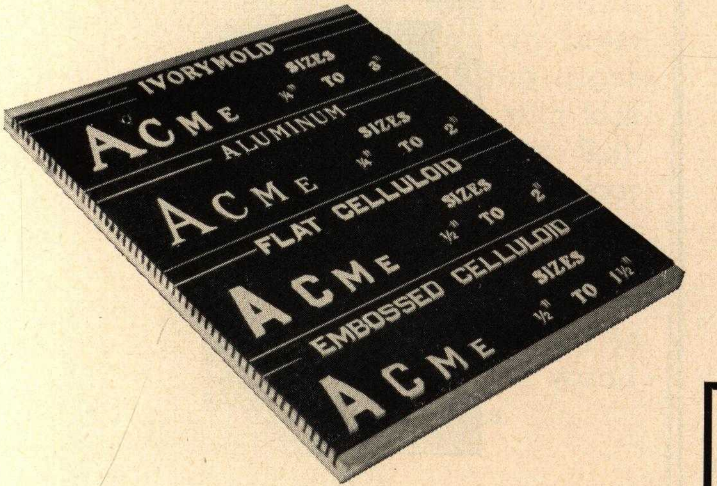

FIRST FLOOR
ALLEN, JAMES D. 115
BAXTER, SAM L. 114
DAVIS, ROBERT E 110
EVANS, PETER J 117
FOSTER, JAMES P 103
GILL, GEORGE A 102
HOWARD, PAUL M 113
JOHNSON, EDWARD 106
JONES, WILLIAM E. 109
KING, PAUL S. 103
LEWIS, VINCENT D 116
MILLER, RONALD P 100
MOORE, HOWARD J 111
NORRIS, JAMES A 110
PETRO, SAMUEL 112
REED, STEVEN J. 101
STIPAK, JOHN E 114
TULLEY, JAMES R. 107
WEST, LOUIS A 111
WHITE, JOHN A 105

An extruded aluminum framed board with #150 moulding. Heading is in raised aluminum letters. Each panel is 7½" wide x 26" high holding ⅜" x 7½" strips. Can be supplied in extruded bronze.

overall size	no. of panels	name strip capacity
18"x34"	2	120

changeable letter boards

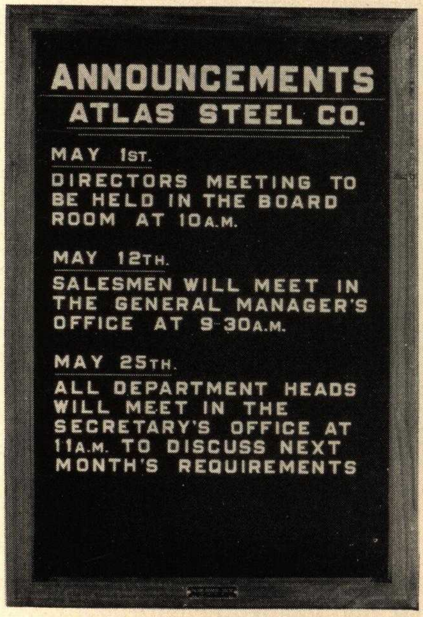
style 24 — for insertion in existing frames


IVORYMOLD
SIZES ¼" TO 3"
ACME
ALUMINUM
SIZES ¼" TO 2"
ACME
FLAT CELLULOID
SIZES ½" TO 2"
ACME
EMBOSSED CELLULOID
SIZES ½" TO 1½"
ACME

Letters are precision die cut. Four distinct styles to choose from.
Ivorymold sizes ¼", ⅜", ½", ¾", 1", 1½", 2", 2½", 3".
Cast aluminum sizes ¼", ⅜", ½", ¾", 1", 1½", 2".
Flat celluloid sizes ½", ¾", 1" 1½", 2".
Embossed celluloid sizes ½", ¾", 1", 1½".

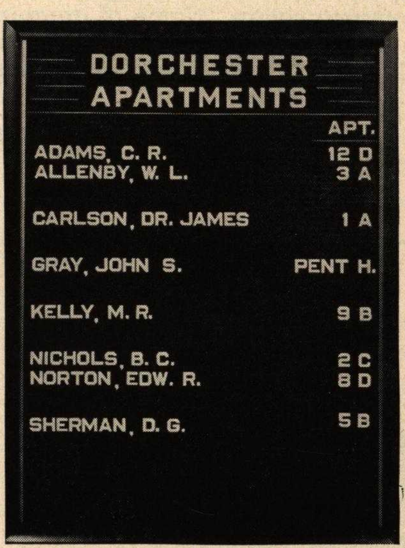
Made of white veneer panel, grooved ¼" center to center. Cloth covered in any color. Standard thickness 11/16", but 9/16" can be supplied if necessary.

style 25 — for announcements and inserting in existing frames


ANNOUNCEMENTS
ATLAS STEEL CO.
MAY 1ST.
DIRECTORS MEETING TO BE HELD IN THE BOARD ROOM AT 10A.M.
MAY 12TH.
SALESMEN WILL MEET IN THE GENERAL MANAGER'S OFFICE AT 9·30A.M.
MAY 25TH.
ALL DEPARTMENT HEADS WILL MEET IN THE SECRETARY'S OFFICE AT 11A.M. TO DISCUSS NEXT MONTH'S REQUIREMENTS

Can be framed with metal binding, with knobs or ring for removal. Also available framed in kalamein and extruded metal. Size shown 16" wide x 23" high with 1", ¾" and ½" flat celluloid letters. Wood frame available in walnut, mahogany, oak, maple or birch.

style 20 — for apartment houses or small buildings

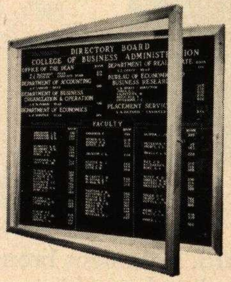

DORCHESTER
APARTMENTS
APT.
ADAMS, C. R. 12 D
ALLENBY, W. L. 3 A
CARLSON, DR. JAMES 1 A
GRAY, JOHN S. PENT H.
KELLY, M. R. 9 B
NICHOLS, B. C. 2 C
NORTON, EDW. R. 8 D
SHERMAN, D. G. 5 B

Letters in ¾" and ½".

Flat celluloid style.

This board has a removable glass front, and can be supplied with or without lock at bottom. Illustration shows wood frame.

style 30 — for small buildings

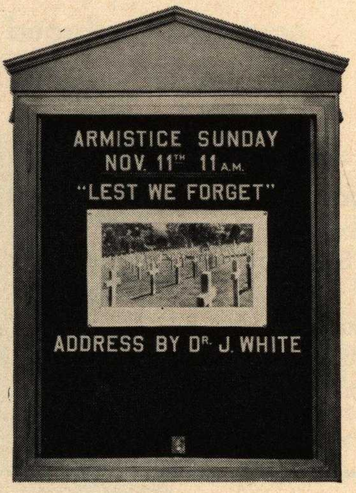

DIRECTORY BOARD
COLLEGE OF BUSINESS ADMINISTRATION
FACULTY

Suitable where there are few changes. Has overlap door hinged to frame holding grooved backboard. Can be supplied with permanent or removable backboard. Illustration shows wood frame, overall size 36" wide x 24" high.

ALL BOARDS CAN BE MADE TO YOUR SPECIFICATIONS

church boards — changeable letter

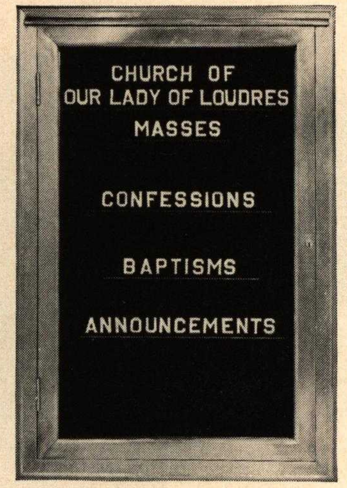
style 5000


ARMISTICE SUNDAY
NOV. 11TH 11 A.M.
"LEST WE FORGET"
ADDRESS BY DR. J. WHITE

Extruded bronze or aluminum framed church bulletin board, for indoor or outdoor use. Can be supplied with posts for lawn display. Backboard is removable for convenience in changing setups. Name of organization can be put in top panel in raised bronze letters. Moulding is style 116 and embossed celluloid changeable letters in 1½" size are used.

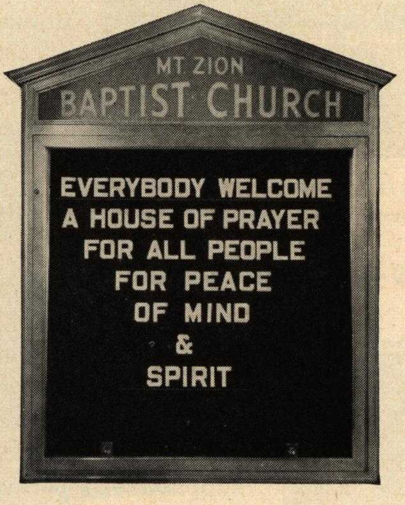
Overall size is 28" wide x 52" high. (Without top panel —28" wide x 40" high.)

style 35


CHURCH OF
OUR LADY OF LOUDRES
MASSES
CONFESSIONS
BAPTISMS
ANNOUNCEMENTS

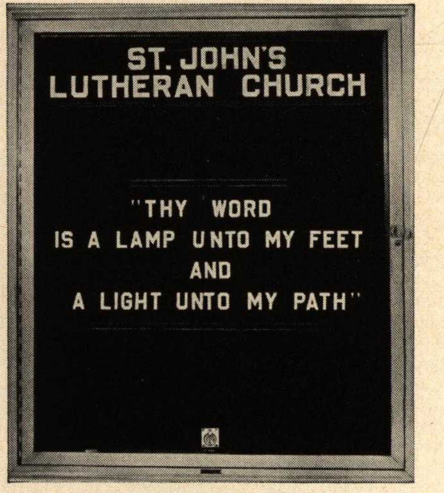
Kalamein bronze or stainless steel framed outdoor board. Has a permanent backboard, but can be supplied with removable backboard. Also available with metal posts for lawn display. Overall size is 20" wide x 30" high — letters 1" embossed celluloid.

style 5100 (letter type)


MT ZION
BAPTIST CHURCH
EVERYBODY WELCOME
A HOUSE OF PRAYER
FOR ALL PEOPLE
FOR PEACE
OF MIND
&
SPIRIT

Outdoor illuminated bulletin board. Kalamein bronze or stainless steel frame. Heading plate has white opal glass letters, and backboard is removable. Can be used with posts for lawn display. Overall size 36" wide x 48" high—letters 2" flat celluloid.

style 5300 (letter type)

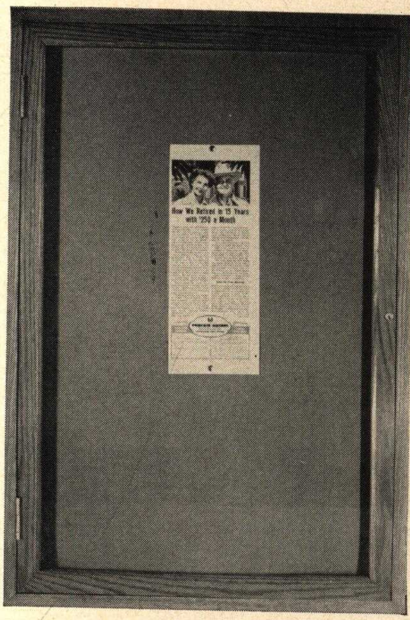

ST. JOHN'S
LUTHERAN CHURCH
"THY WORD
IS A LAMP UNTO MY FEET
AND
A LIGHT UNTO MY PATH"

Outdoor illuminated board with kalamein bronze or stainless steel frame, and removable backboard. Can be used with posts for lawn display or mounted on wall. Overall size 32" wide x 40" high—letters 2" and 1½" flat celluloid.

ALL BOARDS CAN BE MADE TO YOUR SPECIFICATIONS

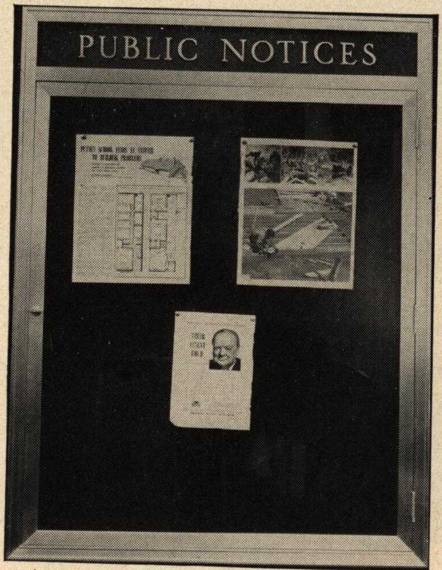
■ cork boards

style 75



This board has an inset hinged glass door with lock and key. Suitable for indoor and outdoor use, please specify. Size illustrated is 24"x 36" wood frame.

style 735



Extruded bronze framed board with cast bronze heading. Inset hinged glass door, lock and key. Size illustrated 36" wide x 48" high. Can be made up in any size desired. Can also be supplied in extruded aluminum.

style 730

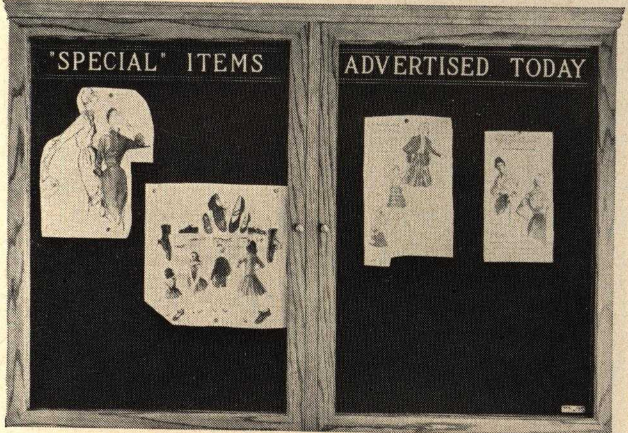
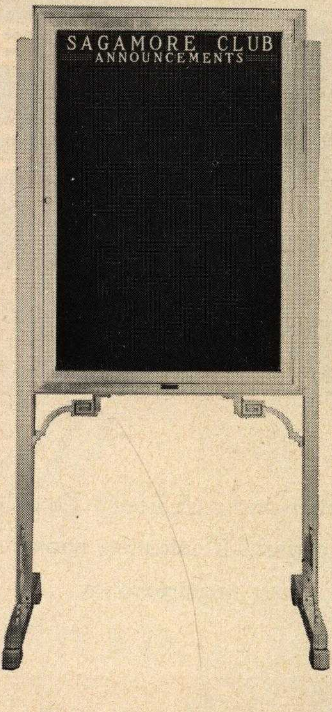


Illustration shows oak framed board with two overlap Glass doors. Top part of board grooved and cloth covered for holding 1½" cast aluminum letters for title. Remainder of board in cork for thumb tack notices.

Overall size 50"x35"
Available in any size desired.

style 735D



Board with Kalamein bronze frame and bronze standards, inset hinged glass door, lock and key. Top part of board grooved and cloth covered for holding 1½" and 1" cast aluminum letters for title. Remainder of board in cork for thumb tack notices.

Overall Size 28"x40".
Standard 65"

Other sizes made to your requirements.

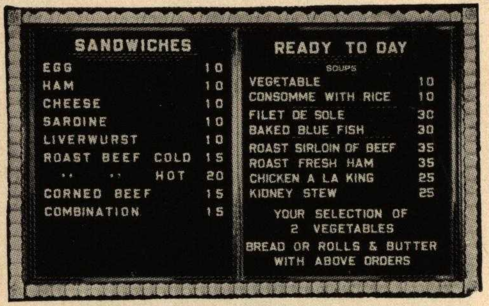
Also obtainable in kalamein stainless steel with aluminum standards.

Made of ¼" cork cemented to ¼" veneer panel, covered with cloth to hide tack holes.

ALL BOARDS CAN BE MADE TO YOUR SPECIFICATIONS

menu boards — changeable letter

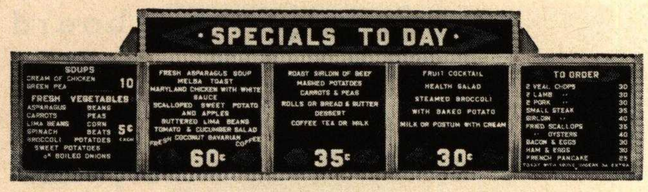
style 120


SANDWICHES
EGG 10
HAM 10
CHEESE 10
SARDINE 10
LIVERWURST 10
ROAST BEEF COLD 15
" " HOT 20
CORNED BEEF 15
COMBINATION 15
READY TO DAY
SOUPS
VEGETABLE 10
CONSOMME WITH RICE 10
FILET OF SOLE 30
BAKED BLUE FISH 30
ROAST SIRLOIN OF BEEF 35
ROAST FRESH HAM 35
CHICKEN A LA KING 25
KIDNEY STEW 25
YOUR SELECTION OF 2 VEGETABLES
BREAD OR ROLLS & BUTTER WITH ABOVE ORDERS

Board with solid Walnut and Maple frame. Backboards are removable and the board can be made open face or with glass door. The size of each section is 17½"x21".

no. of sections	overall size
1	20½"x24"
2	38" x24"
3	55½"x24"
4	73" x24"

style 111

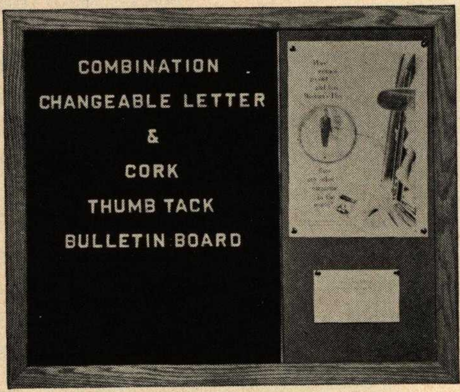

SPECIALS TO DAY
SOUPS
FRESH VEGETABLES
60¢
35¢
30¢
FRUIT COCKTAIL
TO ORDER

"The Queen of Menu Boards"

Has frame of solid Walnut and Maple. Sections are removable from front. Can be made with or without glass door. Size of each section is 18½"x17" high.

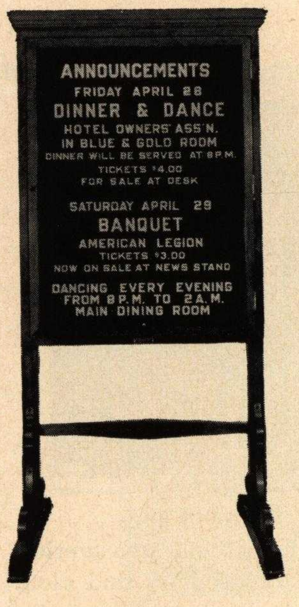
no. of sections	overall size
2	41½"x27"
3	61½"x27"
4	81½"x27"
5	101½"x27"

style 67—combination board


COMBINATION
CHANGEABLE LETTER
&
CORK
THUMB TACK
BULLETIN BOARD

Combination changeable letter and cork board. Open face construction only (no glass). Illustration shows wood frame. Sizes made to your requirements.

style 55 — floor standard


ANNOUNCEMENTS
FRIDAY APRIL 28
DINNER & DANCE
HOTEL OWNERS' ASS'N.
IN BLUE & GOLD ROOM
DINNER WILL BE SERVED AT 8 P.M.
TICKETS $4.00
FOR SALE AT DESK
SATURDAY APRIL 29
BANQUET
AMERICAN LEGION
TICKETS $3.00
NOW ON SALE AT NEWS STAND
DANCING EVERY EVENING
FROM 8 P.M. TO 2 A.M.
MAIN DINING ROOM

Overall size 26" wide x 57" high. Sight size of grooved board 21½"x29". Has inset door, lock and key. Grooved backboard is removable. Standards and frame are made of solid walnut, mahogany, oak, maple or birch.

ACME BULLETIN & DIRECTORY BOARD CORP.

executive offices and manufacturing plant:

37 East 12th Street, New York 3, N. Y.

23a
AL

ARCHITECTURAL MARKING

SIGNS
PLATES
DIRECTORIES

engraved in *Allenite*

the modern
plastic laminate

ALLEN MARKING PRODUCTS, INC.
806 DELAWARE ST., KANSAS CITY 5, MO.

Allenite

75 YEARS AGO . . . The Allen company began making rubber stamps, cutting keys, stamping plates . . . a general local service. But the challenge to pioneer in the development of "Marking," in all its many facets, set the direction of this firm.

Today this operation is divided into several product divisions, but one of the most influential is the Name Plate Engraving Department.

Now with the discovery of Allenite, any school, church, store, office or public building can have signs that are a distinctive part of its overall decor. The ways in which this plastic laminate can be used are limited only by the imagination of the sign designer!

ALLEN MARKING PRODUCTS

COLOR SELECTIONS

Allenite colors make the difference!

DECORATOR COLORS

210 Dove Gray
215 Deep Yellow
218 Jonquil
235 Desert Sand
245 Sepia Brown
250 Ocean Blue
255 Charcoal
263 Sunset
275 Mist Green
285 Powder Blue

FABRIC COLORS

100 Royal Blue
120 Forest Green
130 Vermillion

TRADITIONAL COLORS

200 Ebony
225 White
*230 White

WOOD GRAINS

300 Mahogany
312 Walnut
324 Gray Oak
332 Prima Vera

*Flexible sheet

5 REASONS WHY ALLENITE ENGRAVED PLATES ARE SPECIFIED

1. Wide range of 20 Decorator Colors to harmonize or contrast with interior trim or furnishings.
2. Complete complimentary selection of letter styles and sizes.
3. Latest designs in extruded aluminum holders and attachments.
4. Skilled craftsmen offer a consulting service as an aid in custom planning.
5. Allenite provides the finest permanent type signs that technical know-how and skill of manufacture can produce.

ADVANTAGES OF ALLENITE

LIGHT IN WEIGHT . . . resists breakage . . . handles easily and safely.

DURABLE FINISH . . . resists fading or cracking.

WEATHER RESISTANT . . . no protective coating needed to retain finish.

TEMPERATURE RESISTANT . . . withstands 270° temperature and does not conduct electricity.

GUARANTEED BOND between surface and color core.

NO PAINT PIGMENT . . . letters are engraved to core, exposing contrasting color center.

ALLENITE IS ECONOMICAL

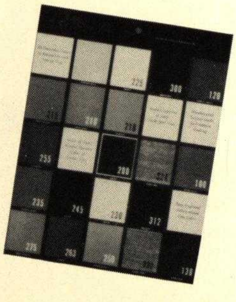
LOW INITIAL COST as compared to metal or painted signs.

NO MAINTENANCE . . . cleaned with a damp cloth.

EASY TO INSTALL with bracket, holder, or adhesive.

NO REPLACEMENT . . . like new after years of service.

WRITE FOR THE ALLENITE COLOR CHART



This hang-up card vividly displays the full range of pastels and wood grains of this quality material. It is designed to assist the architect and engineer to select the correct combination of "go-together" colors.

Allenite DIRECTIONAL SIGNS ROOM NUMBER PLATES

100

101

102

103

104

STUDY
2 HALL
105

READING
305 ROOM
106

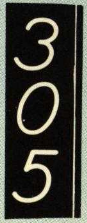
107

Crow's Nest
1235
110

108

CHEMISTRY LAB
109

SILVERWARE
111



112

FOR

- SCHOOLS
- HOSPITALS
- HOTELS
- CHURCHES
- BANKS
- PUBLIC BUILDINGS
- CLUBS
- LIBRARIES
- STORES

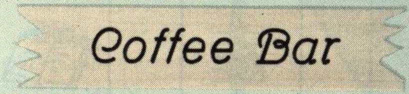
ALLENITE plates are custom made to meet any requirement. They can be engraved on one, or both sides for bracket signs, drilled for screw mounting, fitted into easels or adhesive backed for all kinds of surfaces.

This display of cataloged models is suggestive, but any size, or style, or color may be specified. (See page 6 for attachment accessories.)

PERIODICALS L TO Z
113

114

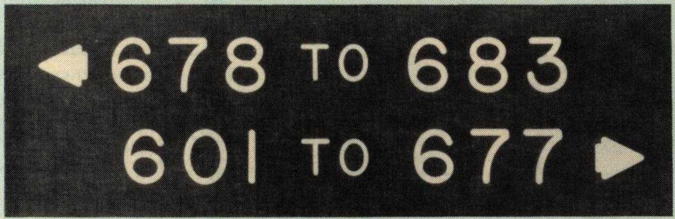
GEORGE K. CORBETT
ASSISTANT TRUST OFFICER
117

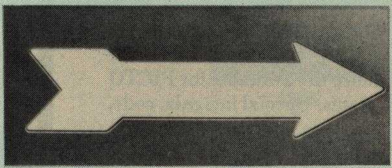


115

116

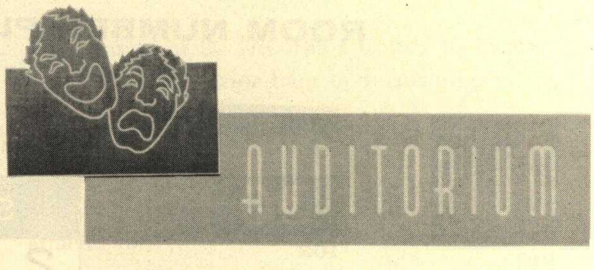
119


678 TO 683
601 TO 677
118

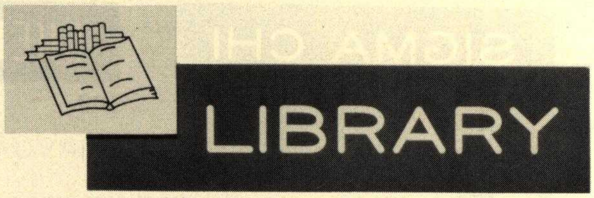

120

PICTO IDENTIFICATION PLATES

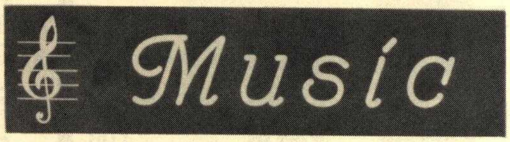
scale: 1/4 actual



STYLE 1



STYLE 2



STYLE 3

"Pictures Speak Louder than Words." Before the development of the alphabet, the early Egyptians conveyed messages by carving or painting pictographs on tombs and monuments. Today modern "picture writing" is used to quickly transmit an idea to a fast moving world.

This PICTO series of Allenite plates is so designed as to be readily understood, visually as well as literally, by combining the title with selected symbols.

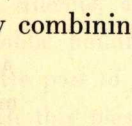
Such plates are both pleasing, decorative and effective. Any combination of colors can be used.

ALLEN MARKING PRODUCTS

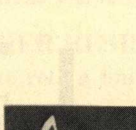
scale: 1/8 actual

other characters and symbols

These illustrations show a part of our stock designs, but more are available for PICTO plates. Special insignia, code, or trade marks can be reproduced at extra cost.

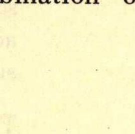

a

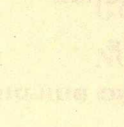
b

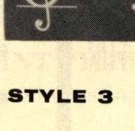

c

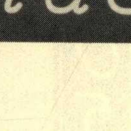
d

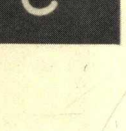
e


f


g

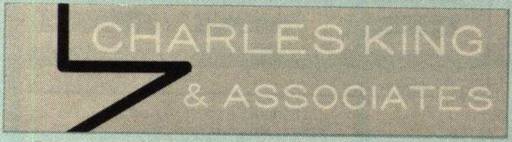

h


i

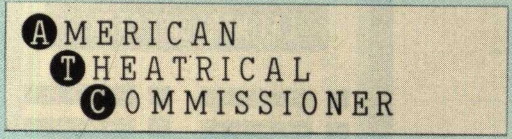

j

INLAY IDENTIFICATION PLATES

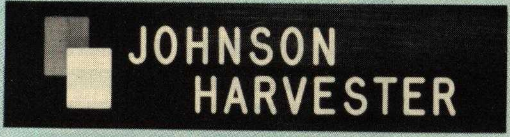
scale: 1/4 actual


CHARLES KING
& ASSOCIATES

121


AMERICAN
THEATRICAL
COMMISSIONER

122


JOHNSON
HARVESTER

123

124

"There is an Art to Inlay"

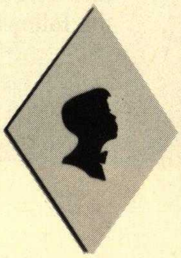
The fanciful arabesques of Greece and Rome, whose inlaid patterns were the cynosure of all decorative art, have inspired this class of architectural plates.

This series of Allenite plates employs the same technique of combining the rich decorator color background with contrasting inlaid geometrical designs.

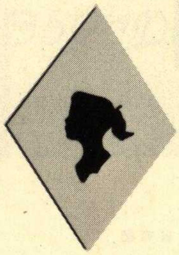
Such plates are not only attractive in appearance but also capable of harmonizing with the decor.

SILOET TOILET SIGNS

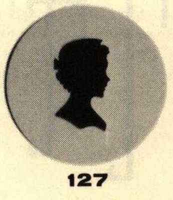
These personable silhouettes are cut to exacting outline and very handily provide an artistic rest room insignia. As in all Allenite products, any combination can be specified from the profuse range of decorator colors. Plate designs are interchangeable.



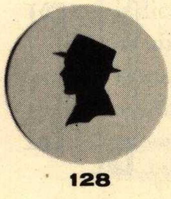
125



126



127



128

OTHER STOCK ITEMS

2" x 10"

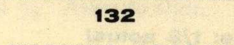
Powder Room

129

2" x 8"

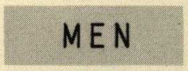
130

131



132

2" x 6"

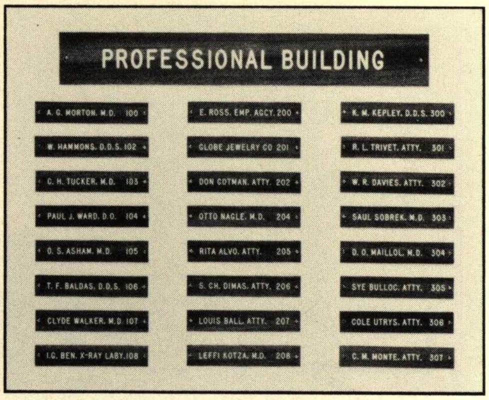


133

134

135

136


PROFESSIONAL BUILDING
A. G. MORTON, M.D. 100
W. HAMMONS, D.D.S. 102
C. H. TUCKER, M.D. 103
PAUL J. WARD, D.O. 104
O. S. ASHAM, M.D. 105
T. F. BALDAS, D.D.S. 106
CLYDE WALKER, M.D 107
I.G. BEN. X-RAY LABY.108
E. ROSS, EMP. AGCY. 200
GLOBE JEWELRY CO 201
DON COTMAN, ATTY. 202
OTTO NAGLE, M.D. 204
RITA ALVO, ATTY. 205
S. CH. DIMAS, ATTY. 206
LOUIS BALL, ATTY. 207
LEFFI KOTZA, M.D. 208
K. M. KEPLEY, D.D.S. 300
R. L. TRIVET, ATTY. 301
W. R. DAVIES, ATTY. 302
SAUL SOBREK, M.D. 303
D. O. MAILLOL, M.D. 304
SYE BULLOC, ATTY. 305
COLE UTRYS, ATTY. 306
C. M. MONTE, ATTY. 307

137

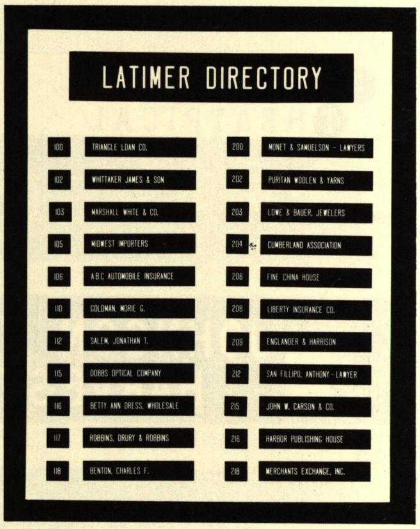
Allenite BUILDING DIRECTORIES

These boards come in all the Allenite colors. By selecting a combination of wood grain and pastel finishes, these directories present a most unique and magnificent appearance. The room plate and numbers are easy to change and replace with screw or adhesive.

The illustrations show two standard formats. Allen is prepared to carry out any idea in building directories as a service to architects.

SPECIFICATIONS

Building Directory shall be Allenite Directory Board as manufactured by Allen Marking Products, Kansas City, Mo. Board shall be..........″ wide by..........″ high, and made from No...............Allenite background color over wood base. All room names and number plates shall be engraved in No................ Allenite color, cut to patent side, and attached with (screws or adhesive).


LATIMER DIRECTORY
100 TRIANGLE LOAN CO.
102 WHITTAKER JAMES & SON
103 MARSHALL WHITE & CO.
105 MIDWEST IMPORTERS
106 A.B.C. AUTOMOBILE INSURANCE
110 GOLDMAN, MORIE G.
112 SALEM, JONATHAN T.
115 DOBBS OPTICAL COMPANY
116 BETTY ANN DRESS, WHOLESALE
117 ROBBINS, DRURY & ROBBINS
118 BENTON, CHARLES F.
200 MONET & SAMUELSON - LAWYERS
202 PURITAN WOOLEN & YARNS
203 LOWE & BAUER, JEWELERS
204 CUMBERLAND ASSOCIATION
206 FINE CHINA HOUSE
208 LIBERTY INSURANCE CO.
209 ENGLANDER & HARRISON
212 SAN FILLIPO, ANTHONY - LAWYER
215 JOHN W. CARSON & CO.
216 HARBOR PUBLISHING HOUSE
218 MERCHANTS EXCHANGE, INC.

138

scale: 1/12 actual

TYPE DIRECTORY

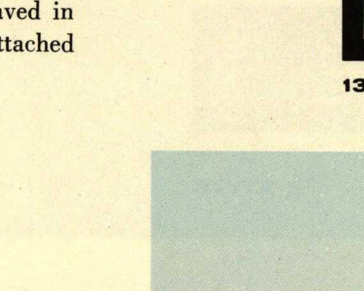
All Allenite signs, plates, or directories are available in any of the following letter styles.

ALLEN MARKING PRODUCTS

ATTACHMENT ACCESSORIES

These new designs of lustrous anodized extruded aluminum give the touch of distinction to Allenite signs. All models come in Silver or Gold and are guaranteed not to tarnish.

scale: 1/2 actual


1/8″
1/8″
2″
1-1/2″
12
18
20
24
26

Nos. 12, 18 and 20 Door and Wall Sign Holders For Surface Mounting. Available in 3″, 4″, 6″, 8″, 10″, 12″, 15″ and 18″ lengths. No. 20 may be split, as illustrated, to hold any size sign. Screws are concealed.

Nos. 24 and 26 Holders For Self-Hanging Signs On Glass Partitions. No. 24 is available in 8″ and 10″ lengths. No. 26 is available in 6″, 7½″ and 8″ lengths.

E-1

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	3	5	8	11	14	20	25	28	31
⅜	2	3	5	7	9	13	17	19	21
½	1	2	4	5	7	10	12	14	15
¾	1	2	2	3	4	6	8	9	10
⅞	1	1	2	3	4	5	7	8	9
1	1	1	2	2	3	5	6	7	7
1¼	0	1	1	2	2	4	5	5	6
1½	0	0	1	1	2	3	4	4	5
2	0	0	1	1	1	2	3	3	4
3	0	0	0	1	1	1	2	2	2

X-4

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	6	13	20	26	33	47	60	66	70
⅜	4	9	13	17	22	31	40	44	49
½	3	6	10	13	16	23	30	33	36
¾	2	4	6	9	11	15	20	22	24
⅞	2	4	5	7	9	13	17	19	21
1	2	3	5	6	8	11	15	16	18
1¼	2	2	4	5	6	9	12	13	14
1½	1	2	3	4	5	7	10	11	12
2	1	1	2	3	4	5	7	8	9
3	0	1	1	2	2	4	5	5	6

N-2

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	4	7	11	14	18	25	32	36	40
⅜	3	5	7	9	12	17	20	23	26
½	2	4	6	8	10	13	17	19	20
¾	1	2	3	5	6	8	10	12	13
⅞	1	2	3	4	5	7	9	10	11
1	1	2	3	3	4	6	8	9	10
1¼	1	1	2	3	3	5	6	7	8
1½	0	1	1	2	3	4	5	6	6
2	0	0	1	1	2	3	4	4	5
3	0	0	1	1	1	2	2	3	3

R-7

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	6	12	14	18	24	30	36	42	48
⅜	4	8	9	12	16	20	24	28	32
½	3	5	7	9	12	15	18	21	24
¾	2	4	5	6	8	10	12	14	16
⅞	1	3	4	5	7	9	10	12	13
1	1	2	3	4	5	8	10	11	12
1¼	1	2	2	3	4	6	8	9	10
1½	1	1	2	3	3	5	6	7	8

C-3

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	5	9	13	17	22	31	40	44	49
⅜	3	6	9	11	14	20	26	29	32
½	2	4	6	9	11	15	20	22	24
¾	1	3	4	6	7	10	13	15	16
⅞	1	2	3	5	6	9	11	12	14
1	1	2	3	4	5	7	9	10	12
1¼	1	1	2	3	4	6	7	9	9
1½	1	1	2	3	3	5	6	7	8
2	0	0	1	1	2	3	4	5	6
3	0	0	1	1	2	2	3	3	4

H-5

Letter height (in.)	Length of sign (inches)								
	2	3	4	5	6	8	10	11	12
¼	8	16	25	34	42	59	76	84	92
⅜	5	11	17	22	28	40	50	56	62
½	4	8	12	16	21	29	38	42	46
¾	3	5	8	11	14	20	25	28	31
⅞	2	5	7	9	12	17	21	24	26
1	2	4	6	8	10	15	19	21	23
1¼	2	3	5	6	8	11	15	17	18
1½	1	2	4	5	7	9	12	14	15
2	1	2	3	4	5	7	9	10	11
3	1	1	2	2	3	5	6	7	7

CALCULATION CHARTS FOR ALLENITE SIGNS

These charts and letter styles are to assist in estimating sign lengths. If accuracy is required, it is suggested that a rough sketch be submitted. On the basis of a scale drawing, a recommendation will be presented. Due to certain letter variaitons, ITALIC, BODONI and SCRIPT are not charted.

E-1 extended gothic

ABCDEF

N-2 normal gothic

ABCDEFGH

C-3 condensed gothic

ABCDEFGHIJ

X-4 extra condensed gothic

ABCDEFGHIJKLMN

H-5 himalaya

ABCDEFGHIJKLMNOPQ

I-6 italic

AaBbCcDdE

R-7 roman

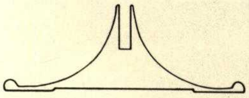
ABCDEFGHIJK

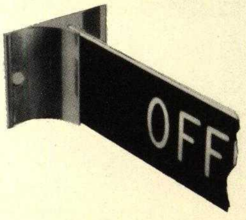
B-8 bodoni

ABCDEFGHIJ

S-9 script

AaBbCcDdEeFfGg





BRACKET FOR WALL SIGNS

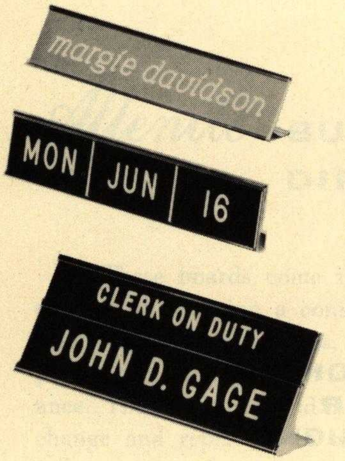
Plastic sign is press fitted into slot. Bracket is screwed onto wall. Measures 2½"x⅞". Available in 2", 3", 4", 6", 8", 10", 12" and special.

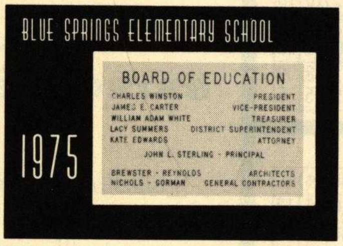
SPECIFICATIONS

Sign Brackets and Name Plate Holders, where indicated, are to be extruded anodized aluminum and as distributed by the Allen Marking Products, Inc., Kansas City, Mo. The type required is designated by number and size. All ends are to be buffed smooth; exposed surfaces polished; anodized silver or gold. Holders to hold ⅛" Allenite sign.

COLORFUL *Allenite*

enhances other products too!

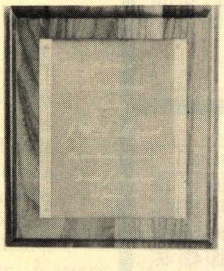

margie davidson
MON | JUN | 16
CLERK ON DUTY
JOHN D. GAGE


BLUE SPRINGS ELEMENTARY SCHOOL
1975
BOARD OF EDUCATION
CHARLES WINSTON PRESIDENT
JAMES E. CARTER VICE-PRESIDENT
WILLIAM ADAM WHITE TREASURER
LACY SUMMERS DISTRICT SUPERINTENDENT
KATE EDWARDS ATTORNEY
JOHN L. STERLING - PRINCIPAL
BREWSTER - REYNOLDS ARCHITECTS
NICHOLS - GORMAN GENERAL CONTRACTORS

RESEARCH HOSPITAL

BRASS
MEMORIALS

3RD NAVIGATORS



BRONZE
PLAQUES

ACTIVATOR PROCESS ADHESIVE

When applied in accordance with the manufacturer's directions, this material is guaranteed to adhere Allenite signs to metal, glass, tile, plastic, wood, or plaster. The installation is fast and the sign can be removed and relocated by applying additional activator.

SPECIFICATIONS

Signs shall be attached to ....with Activator Process Adhesive, as furnished by Allen Marking Products, Inc., Kansas City, Mo. Mounting instructions shall be supplied by the manufacturer.

OUR PLEDGE

The Allen Marking Products, Inc. is one of the oldest and largest manufacturers of marking devices in the Midwest. Our skilled craftsmen patiently and proudly apply their engraving art to produce signs and plates worthy of the finest in architectural installations. We guarantee satisfaction and, if for any reason our customer is not satisfied, we will do all we can to correct. If you have any special problems, please make inquiry, and we will do all we can to be helpful. We supply estimates promptly. Samples are also available, but particularly we recommend our Allenite Color Chart. Write for yours today!

ALLEN MARKING PRODUCTS, INC.
806 DELAWARE ST., KANSAS CITY 5, MO.
Telephone VIctor 2-0963

ALLENITE CONSTRUCTION

Allenite signs are machine engraved on 1/8" phenolic plastic laminate base. Backgrounds are satin finished. Letters are deeply and evenly cut into the surface, exposing a contrasting color core beneath. Choice of 20 colors are made available as listed on page 2 or shown on the Allenite Color Card, which authentically reproduces the full range of colors and wood grains.

ALLENITE SPECIFICATIONS

All signs shall be of Allenite Plastic Laminate, as manufactured by Allen Marking Products, Inc., Kansas City, Mo. There shall be................. Catalog No.................. signs engraved on Color No................. All lettering shall be style.............., ..." in height. Signs shall be furnished with Catalog No..................... Mounting (or Activator Process Adhesive) (or #................ Screws).

ALLENITE SIGNS

MAKING GOOD IMPRESSIONS
SINCE 1882

Printed in U.S.A.

Signs of:

"ES" Melamine Plastic

Bronze

Brass

Stainless Steel

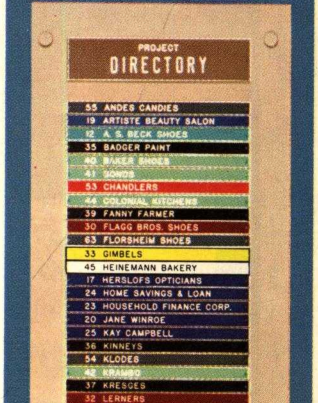
Aluminum

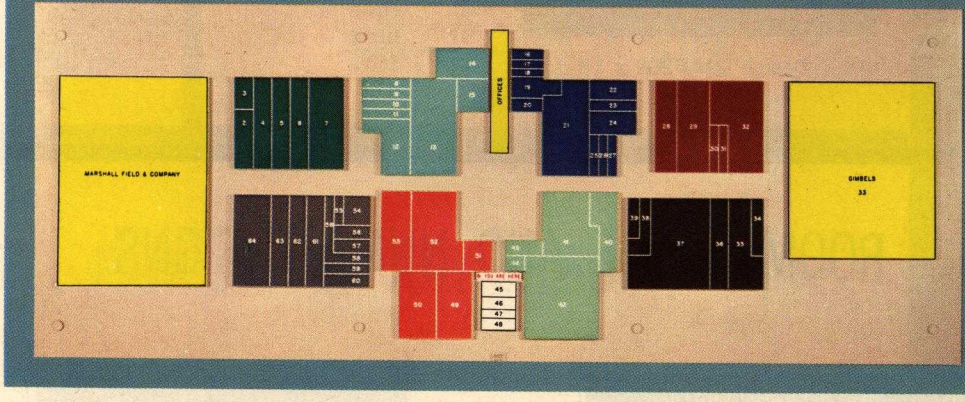
Plexiglas

Memorials

Directories

Plaques


PROJECT
DIRECTORY
55 ANDES CANDIES
19 ARTISTE BEAUTY SALON
12 A. S. BECK SHOES
35 BADGER PAINT
40 BAKER SHOES
41 BONDS
53 CHANDLERS
44 COLONIAL KITCHENS
39 FANNY FARMER
30 FLAGG BROS. SHOES
63 FLORSHEIM SHOES
33 GIMBELS
45 HEINEMANN BAKERY
17 HERSLOFS OPTICIANS
24 HOME SAVINGS & LOAN
23 HOUSEHOLD FINANCE CORP.
20 JANE WINROE
25 KAY CAMPBELL
36 KINNEYS
54 KLODES
42 KRAMBO
37 KRESGES
32 LERNERS
16 LOEWI & CO. INC.
64 MacNEIL & MOORE
38 MARINES GIFTS
1 MARSHALL FIELD & COMPANY
28 MARY JANE SHOES
14 MAYFAIR NATIONAL BANK
6 MILWAUKEE GAS LIGHT CO.
60 MR. FORMAL WEAR
15 PAN DEE RESTAURANT
18 PROHASKA BARBER SHOP
26 RECORD SHOP
31 ROYAL CROWN HOSIERY
52 SMARTWEAR
13 SINGERS
48 SPIC & SPAN
49 STEINMEYER FOODS
7 STUARTS
29 STUMPFS
5 TOEPFER & BELLACK
51 TOY FAIR
21 WALGREENS
8 YOUTHFUL SHOES


MARSHALL FIELD & COMPANY
OFFICES
YOU ARE HERE
GIMBELS
33

Mayfair Shopping Center Directory / Wauwatosa, Wisconsin
Grassold-Johnson & Associates / Milwaukee, Wisconsin
Perkins & Will / Chicago, Illinois / Architects

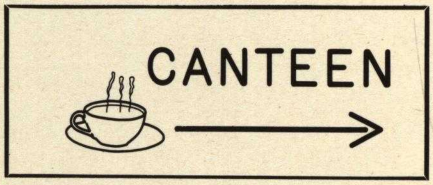
A. I. A. FILE NO. 24-C

BEST

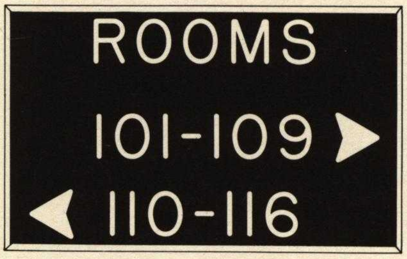
Established in 1924

Call your Best dealer today

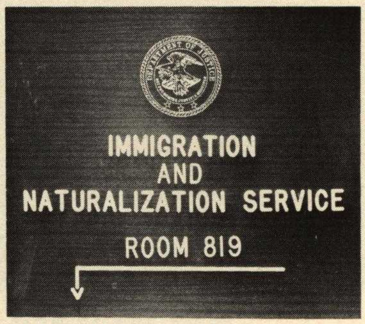
PLAIN OR FANCY DIRECTIONAL SIGNS



No. 40A / 10" x 4"


ROOMS
101-109
110-116

No. 60 / 10" x 6"

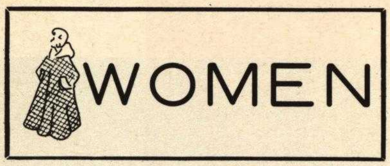

IMMIGRATION
AND
NATURALIZATION SERVICE
ROOM 819

Design DJ / 20" x 18"

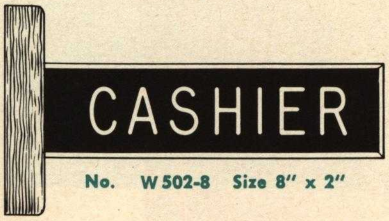
ROOM, NAME AND NUMBER SIGNS

DR. HEMPSTEADER
SURGEON

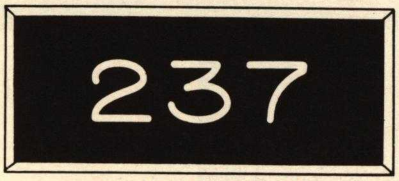
No. 128 Size 8" x 1½"



No. 40C Size 10" x 4"



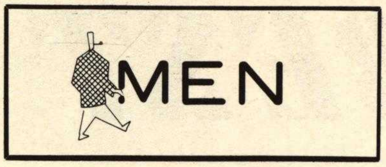
No. W 502-8 Size 8" x 2"



No. 10 Size 5" x 2"

KINDERGARTEN

No. 20 Size 10" x 2"



No. 40B Size 10" x 4"

BEST signs put no limit on the creative demands of architects, designers and decorators. Signs may be kept simple and conservative or they may be decorated, cut and shaped to any specification desired.

DESK NAME PLATES

INFORMATION

No. P-508 / 8″ long

LAWRENCE JONES

No. P-515 / 5″ long

GEORGE CARTER

No. P-507 / 7″ long

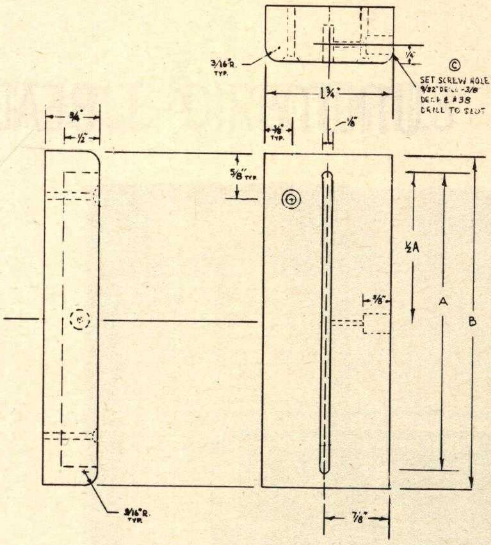
NINA FLANIGANE
SECRETARY

No. P-510 / 10″ long

A plus factor in the appearance and efficiency of any office or department is the proper marking of desks. BEST offers a wide variety of styles to fit any need, any atmosphere.

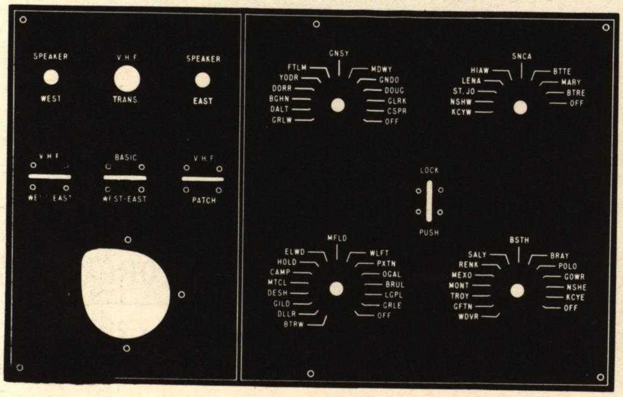
WALL AND CEILING BRACKETS

Primed for paint / Walnut / Limed Oak and Birch.


3/16″R. TYP.
©
SET SCREW HOLE*
9/32″ DRILL - 3/8″ DEEP & #38 DRILL TO SLOT
1¾″
¼″
¾″
½″
3/8″ TYP.
1/8″
5/8″ TYP.
½A
3/8″
A
B
9/16″R. TYP.
7/8″

Part Number	A	B	*No. & Spacing of Hole C
W-502	2″	4½″	1 As Shown
W-503	3″	4½″	1 As Shown
W-504	4″	4½″	1 As Shown
W-505	5″	5½″	1 As Shown
C-506	6″	6½″	2-3″C to C
C-508	8″	8½″	2-5″C to C
C-510	10″	10½″	2-7″C to C
C-512	12″	12½″	2-9″C to C

CONTROL PANELS FOR ANY NEED


SPEAKER
WEST
V.H.F.
TRANS.
SPEAKER
EAST
V.H.F.
WEST EAST
BASIC
WEST-EAST
V.H.F.
PATCH
GNSY
FTLM
YODR
DORR
BGHN
DALT
GRLW
MDWY
GNDO
DOUG
GLRK
CSPR
OFF
SNCA
HIAW
LENA
ST. JO
NSHW
KCYW
BTTE
MARY
BTRE
OFF
LOCK
PUSH
MFLD
ELWD
HOLD
CAMP
MTCL
DESH
GILD
DLLR
BTRW
WLFT
PXTN
OGAL
BRUL
LGPL
GRLE
OFF
BSTH
SALY
RENK
MEXO
MONT
TROY
GFTN
WDVR
BRAY
POLO
GOWR
NSHE
KCYE
OFF

No. 149

No. 314

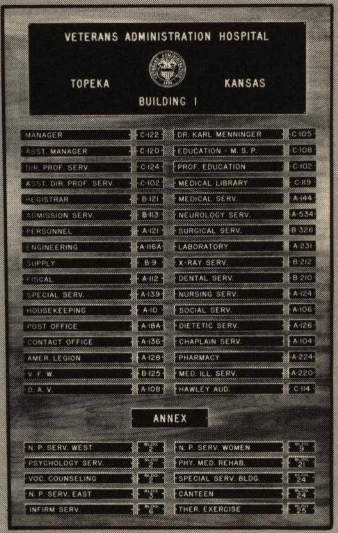
ALARM
RESET

No. 450

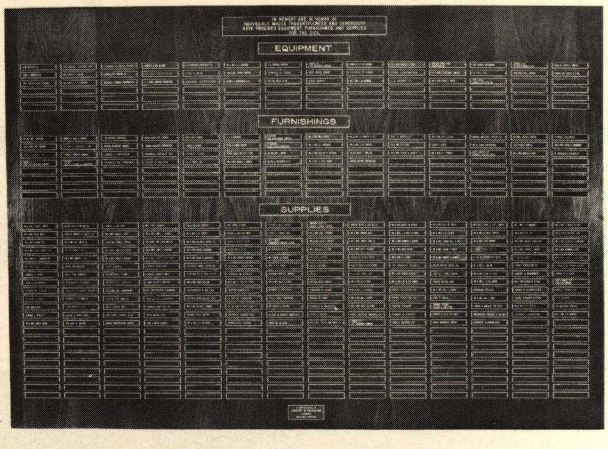
If you need a custom designed **control panel** for an elevator, switchboard or some intricate electronic equipment, BEST guarantees to the letter, execution of exact specification.

UTILITY / BEAUTY / ECONOMY

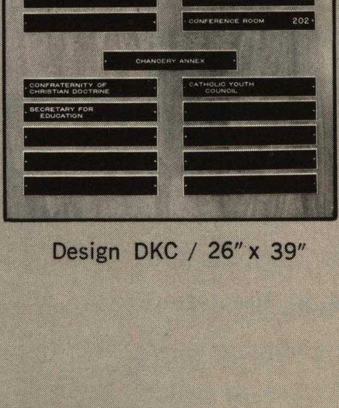
A practical **building directory** must meet three standards. It must be designed to be easily read and understood. Secondly, it should be attractive and in accord with the architecture and decoration of the building or area it occupies. The third requirement is economy. It must be competitively priced, free of maintenance and easily and inexpensively alterable when necessary. These three qualities are a BEST guarantee. These signs are custom-made to fit your specific needs. Twenty colors are available and may be mounted on a number of fine woods.


VETERANS ADMINISTRATION HOSPITAL
TOPEKA
KANSAS
BUILDING I
MANAGER C-122
ASST. MANAGER C-120
DIR. PROF. SERV. C-124
ASST. DIR. PROF. SERV. C-102
REGISTRAR B-121
ADMISSION SERV. B-113
PERSONNEL A-121
ENGINEERING A-116A
SUPPLY B-9
FISCAL A-112
SPECIAL SERV. A-139
HOUSEKEEPING A-10
POST OFFICE A-118A
CONTACT OFFICE A-136
AMER. LEGION A-128
V. F. W. B-125
D. A. V. A-108
DR. KARL MENNINGER C-105
EDUCATION - M. S. P. C-108
PROF. EDUCATION C-102
MEDICAL LIBRARY C-119
MEDICAL SERV. A-144
NEUROLOGY SERV. A-534
SURGICAL SERV. B-326
LABORATORY A-231
X-RAY SERV. B-212
DENTAL SERV. B-210
NURSING SERV. A-124
SOCIAL SERV. A-106
DIETETIC SERV. A-126
CHAPLAIN SERV. A-104
PHARMACY A-224
MED. ILL. SERV. A-220
HAWLEY AUD. C-114
ANNEX
N. P. SERV. WEST BLDG 2
PSYCHOLOGY SERV. BLDG 2
VOC. COUNSELING BLDG 2
N. P. SERV. EAST BLDG 3
INFIRM SERV. BLDG 6
N. P. SERV. WOMEN BLDG 9
PHY. MED. REHAB. BLDG 21
SPECIAL SERV. BLDG. BLDG 24
CANTEEN BLDG 24
THER. EXERCISE BLDG 25

Design VHD / 36″ x 54″


EQUIPMENT
FURNISHINGS
SUPPLIES

Design NKC / 66″ x 46″


DIOCESE OF KANSAS CITY-ST. JOSEPH
DIOCESAN OFFICES
BISHOP'S OFFICE 101
VICAR GENERAL'S OFFICE 103
CHANCELLOR'S OFFICE 104
VICE CHANCELLOR'S OFFICE 105
TREASURER'S OFFICE 102
DIRECTOR OF VOCATIONS 106
DIOCESAN TRIBUNAL 201
OFFICIALIS 203
VICE OFFICIALIS 204
SOCIETY FOR THE PROPAGATION OF THE FAITH 205
DIOCESAN BUILDING COMMISSION 207
DIOCESAN COUNCIL OF CATHOLIC MEN AND WOMEN 206
THE "REGISTER" 208
CONFERENCE ROOM 202
CHANCERY ANNEX
CONFRATERNITY OF CHRISTIAN DOCTRINE
SECRETARY FOR EDUCATION
CATHOLIC YOUTH COUNCIL

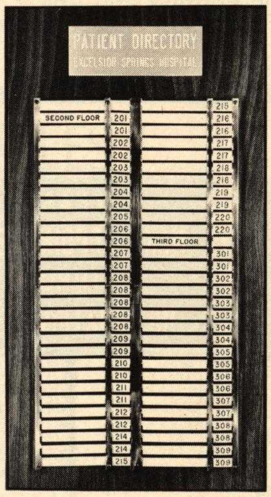
Design DKC / 26″ x 39″

THIS ROOM WAS FURNISHED
IN MEMORY OF
JOHN JOSEPH CALHOUN
BY
HIS CHILDREN, GEORGE & MARY

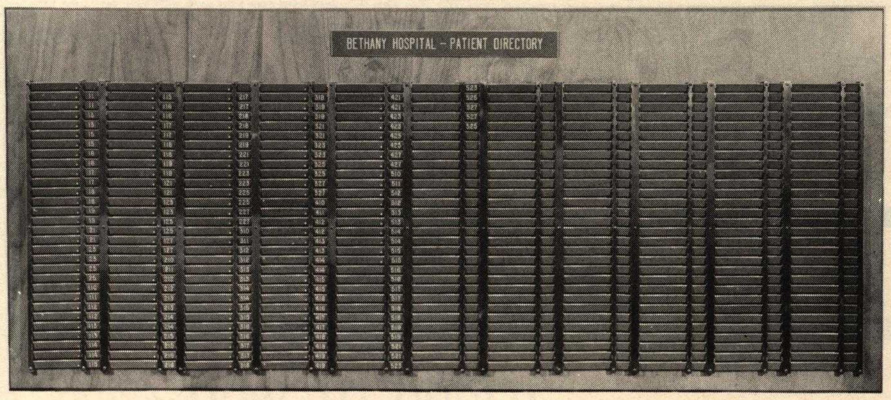
No. 722 / 7″ x 2½″

Thirty years of experience in the manufacturing of **memorial plaques,** large or small, guarantees the best workmanship and materials. Memorials may be made to any specification out of laminated melamine plastics, brass, bronze, stainless steel, or aluminum.

INTERCHANGEABLE DIRECTORIES


PATIENT DIRECTORY
EXCELSIOR SPRINGS HOSPITAL
SECOND FLOOR
THIRD FLOOR

Design ESH / 17″ x 36″

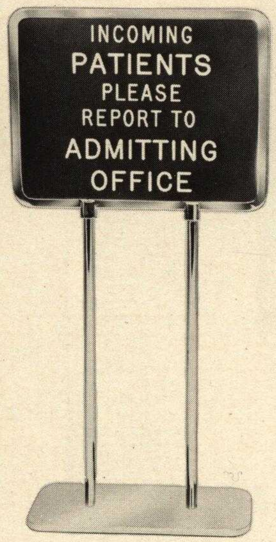

BETHANY HOSPITAL - PATIENT DIRECTORY

Design BH / 70″ x 32″

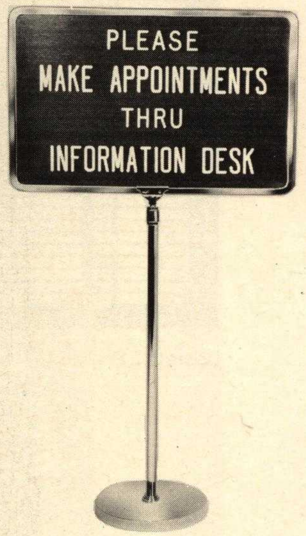
Number plates and various heading plates may be lettered permanently and one or more plates can be removed readily. There are many applications such as: bed directories and operating schedules for hospitals; room directories in hotels, motels and clinics and many more too numerous to mention. At a glance the directory will tell how many beds are available, how many rooms are out of service and why, quarantine patients, male or female patients and attending physician's name.

FLOOR AND COUNTER SIGNS

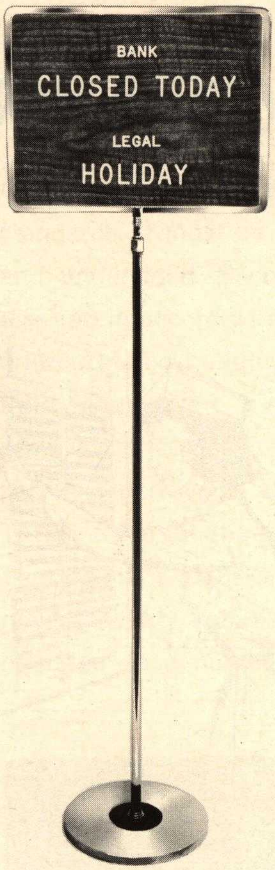
Counter signs, regular and adjustable height, are available as shown. Floor signs measure 14″ x 11″ and come in medium and heavy duty weights. Adjustable for height. Both types are gleaming chrome and any color insert may be used, lettered one or both sides.



No. C-1 / 7″ x 5½″



No. C-2 / 11″ x 7″



No. F-3 / 14″ x 11″

MATERIALS

ADVANTAGES OF "ES" MELAMINE PLASTIC

The most practical material for memorials, signs and directories. This product resists fading, tarnishing or discoloration and will retain its beauty through the years—indoors or out. It is available in 2 thicknesses, 1/16″ and 1/8″, and signs may be made any size up to 36″ x 42″. The most economical material yet discovered. Choose from colors and wood grains shown on back cover. All have a rock-hard surface to resist scratches and may be washed with mild soap and water, and may be lettered one or both sides.

Signs are also available in bronze, brass, stainless steel, aluminum and plexiglas.

WHERE YOU CAN SEE A BEST JOB:

BAPTIST MEMORIAL HOSPITAL
Oklahoma City, Oklahoma

COMMUNITY CENTER
Hammond, Louisiana

COLONIAL COUNTRY CLUB
Memphis, Tennessee

DES MOINES REGISTER & TRIBUNE
Des Moines, Iowa

DORMITORY
Cheltenham, Maryland

FORBES AFB HOSPITAL
Topeka, Kansas

GOOD SAMARITAN HOME
St. Louis, Missouri

GAYLORD MEDICAL CLINIC
Denver, Colorado

HOLIDAY HOSPITAL
Orlando, Florida

IOWA STATE COLLEGE
Ames, Iowa

JONES STORE
Kansas City, Missouri

KAHN MEMORIAL HOSPITAL
Marshall, Texas

MILWAUKEE HOSPITAL
Milwaukee, Wisconsin

MONTEZUMA ELEMENTARY SCHOOL
Albuquerque, New Mexico

MARION HOTEL
Little Rock, Arkansas

NEW SCHOOL
Portland, Oregon

OCEAN SPRINGS JR. HIGH SCHOOL
Ocean Springs, Mississippi

OHIO UNIVERSITY
Athens, Ohio

ORANGE TWP. SCHOOL
Indiana

OFFICE BUILDING
Union City, Georgia

ST. LUKE'S HOSPITAL
Spokane, Washington

SIMMONS SCHOOL
Aberdeen, South Dakota

ST. MARY'S HOSPITAL
Duluth, Minnesota

ST. FRANCIS HOSPITAL
Blue Island, Illinois

STATE OFFICE BUILDING
Tucson, Arizona

SOUTHRIDGE SCHOOL
Casper, Wyoming

T B HOSPITAL
Birmingham, Alabama

UNIVERSITY OF NORTH DAKOTA
Grand Forks, North Dakota

UNIVERSITY OF KANSAS
Lawrence, Kansas

UNION COLLEGE DORM
Lincoln, Nebraska

YOUNGSTOWN UNIVERSITY
Youngstown, Ohio

HOW TO SPECIFY:

Most architects prefer to specify only letter height, style or styles, color and method of attachment. The following is a typical specification:

SIGNS. All signs shall be of type "ES" laminated plastic as manufactured by Best Manufacturing Company of Kansas City, Mo. and shall consist of 35-Design #10-Room Numbers (1 through 35). All other signs shall have 1" Moderne-C style letters on a 2" high plate x length required by copy. Where length would exceed 16" two or more lines may be used, increasing height of plate 2" for each line added. Where indicated supply right angle wall signs with (specify wood) brackets to read from both sides. All other signs shall be mounted flat and all to be attached with (specify attachments). Colors shall be (specify background and letter).

LETTER STYLES

Charts below indicate approximate number of letters that will fit signs of lengths shown.

FOR THE

HIMALAYA

LENGTH OF SIGN

LETTER HEIGHT	2"	3"	4"	5"	6"	8"	10"	11"	12"
¼"	8	16	25	34	42	59	76	84	92
⅜"	5	11	17	22	28	40	50	56	62
½"	4	8	12	16	21	29	38	42	46
¾"	3	5	8	11	14	20	25	28	31
⅞"	2	5	7	9	12	17	21	24	26
1"	2	4	6	8	10	15	19	21	23
1¼"	2	3	5	6	8	11	15	17	18
1½"	1	2	4	5	7	9	12	14	15
2"	1	2	3	4	5	7	9	10	11
3"	1	1	2	2	3	5	6	7	7

BEST IN

EXTRA COND

LENGTH OF SIGN

LETTER HEIGHT	2	3	4	5	6	8	10	12	14
¼	13	20	28	35	42	58	72	87	100
⅜	8	12	17	22	27	37	48	56	66
½	5	9	12	16	19	26	34	41	48
¾	3	5+	8	10	13	18	23	28	33
⅞	2	4	6	8	10	14	18	22	26
1	2	4	5	7	9	13	17	20+	24
1¼	2	3–	4	5	7	10	13	16	18
1½	2–	2	3	4	6	8	10	13	15
2	1	1+	2	3	4	5	7	9	11
3	1–	1	1+	2	2+	4	4+	5	6

INTERIOR

CONDENSED

LENGTH OF SIGN

LETTER HEIGHT	2	3	4	5	6	8	10	12	14
¼	8	12	17	22	26	36	45	55	64
⅜	4	8	11	14	18	24	30	37	44
½	3	5	8	10	12	17	22	27	32
¾	2	3	5	6	8	11	15	18	21
⅞	1+	2	3	5	6	9	11	14	17
1	1	2	3	4	5	8	10	13	16
1¼	1	1	2	3	4	6	8	9	11
1½	1	1	2	3	4	5	7	8	10
2	1–	1	1+	2	2	3	5	6	7
3	0	0	1	1	2–	2	3	3+	4

SIGNS

NORMAL

LENGTH OF SIGN

LETTER HEIGHT	2	3	4	5	6	8	10	12	14
¼	6	10	14	18	23	31	39	50	55
⅜	4	6	9	12	15	20	26	32	37
½	2	4	6	8	10	14	19	25	27
¾	1	2	3	5	6	9	12	15	18
⅞	1	2	3	4	5	7	10	12	14
1	1	1	2	3	4	6	8	11	13
1¼	1–	1	1+	2	3	4	6	8	9
1½	1–	1	1	2	2+	4	5	7	8
2	0	1	1	2–	2	3	4	5	6
3	0	0	1–	1	1+	2	3	3	4

SEE

EXTENDED

LENGTH OF SIGN

LETTER HEIGHT	2	3	4	5	6	8	10	12	14
¼	5	8	11	14	18	24	31	37	44
⅜	3	5	7	9	11	15	19	23	28
½	2	3	5–	6	8	11	14	18	22
¾	1	2	3	4–	4	6	9	11	13
⅞	1	2–	2	3	4	5	7	9	11
1	1	1	2	3	3	5	7	8	10
1¼	1	1	1	2	2	3	4	6	7
1½	0	1	1	2	2	3	4	5	6
2	0	0	1	1	1	2	3	3	4
3	0	0	0	1	1	1	2	2	2

BEST

ROMAN

LENGTH OF SIGN

LETTER HEIGHT	2"	3"	4"	5"	6"	8"	10"	11"	12"
¼"	4	8	12	16	20	28	36	40	44
⅜"	2	5	8	10	13	18	24	26	29
½"	2	4	6	8	10	14	18	20	22
⅝"	1	3	4	6	8	11	14	16	17
¾"	1	2	4	5	6	9	12	13	14
⅞"	1	2	3	4	6	8	10	11	12
1"	1	2	3	4	5	7	9	10	11
1¼"	1	1	2	3	4	5	7	8	9
1½"	1	1	2	2	3	4	6	6	7

(1½" Maximum Height)

Manufacturing

SCRIPT

LENGTH OF SIGN

LETTER HEIGHT (CAPITAL)	2	3	4	5	6	8	10	12	14
½	18	28	38	48	58	78	95	118	135
¾	12	18	24	31	38	50	64	78	90
⅞	9	15	20	26	31	42	58	64	72
1	8	12	17	21	26	36	45	54	64
1¼	5	9	13	17	21	28	36	44	51
1½	5	7	11	14	17	24	30	43	36
2	2+	5	8	10	12	17	23	26	31
3	2	3	5	6	8	10	14	17	22

1 Capital = 3 Lower Case

COMPANY

MODERNE-C

LENGTH OF SIGN

LETTER HEIGHT	2	3	4	5	6	8	10	12	14
¼	5	9	13	16	20	27	35	42	50
⅜	4	6	9	12	15	20	26	31	37
½	3	4	7	9	11	15	19	24	28
¾	2	3	4	5	6	9	12	15	17
⅞	1	2	3	4	6	7	10	13	15
1	1	2	3–	3	4	6	8	10	12+
1¼	1	1	2	3	4–	5	7	8	10
1½	0	1	2	2+	3	4	6	7	8
2	0	1	2–	2	3–	3	4	5	6
3	0	0	1	1	1+	2	3	3+	3

This style letter varies in width—Above figures are averages

Kansas City, Mo.

MODERNE-CL

LENGTH OF SIGN

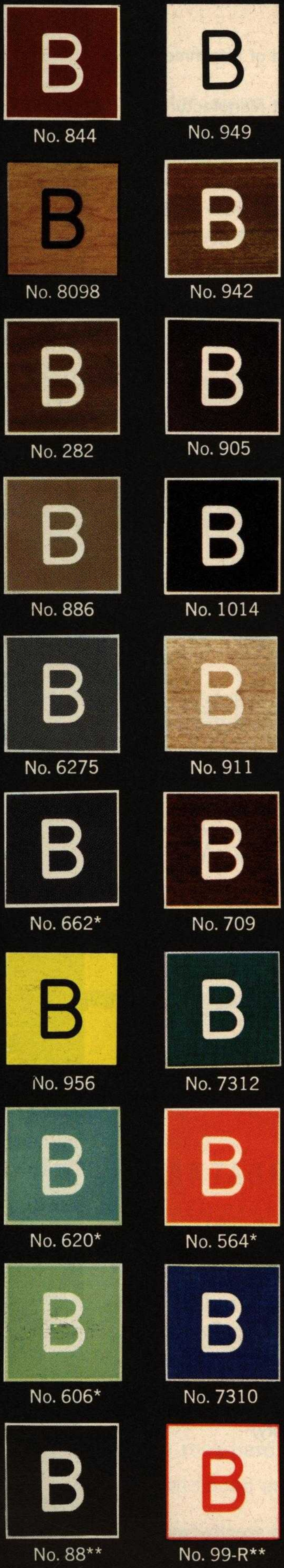
LENGTH HEIGHT (CAPITAL)	2	3	4	5	6	8	10	12	14
¼	8	13	18	23	28	38	48	58	68
⅜	6	9	13	17	21	29	36	44	52
½	4	7	9	12	14	20	25	31	37
¾	2	4	6	7	9	13	17	20	24
⅞	2–	3	4	6	7	11	13+	17	20
1	1	2	4–	5	6	9	12	14	17
1¼	1	2	2+	3	5–	7	9	11	13
1½	1	1	2	3	4	6	8	9	11
2	1–	1	2–	2	3–	4	5	6	8
3	0	1	1	2	2	3–	3	4	5

1 Capital = 1½ Lower Case

HOW TO ORDER:

1. Give quantity of each and copy.
2. Give material.
3. Give color of plastic or finish of metal.
4. Give letter size (can be approx.)
5. Give letter style or styles, but if specifying length of plate be sure to check chart above to be sure size and style of letter will fit.
6. If not specified we will use double letter height for top to bottom dimension of sign. For example: a 2" plate with 1" letters, etc.
7. Specify any of following attachments (included in price):
    - Wood screws
    - Sheet metal screws
    - "One-way" screws (for wood or metal)
    - Adhesive (specify surface)
    - Expansion shields (masonry)
    - Brads

    (If you don't specify we will supply holes and wood screws).
8. If right angle wall bracket or ceiling bracket signs are to be supplied be sure to specify type of wood. On one sided signs or signs with arrows, be sure to sketch or specify which end will have bracket.


No. 844
No. 949
No. 8098
No. 942
No. 282
No. 905
No. 886
No. 1014
No. 6275
No. 911
No. 662*
No. 709
No. 956
No. 7312
No. 620*
No. 564*
No. 606*
No. 7310
No. 88**
No. 99-R**

*Available in 1/8″ thickness only.
**Maximum size 26″ x 33″.

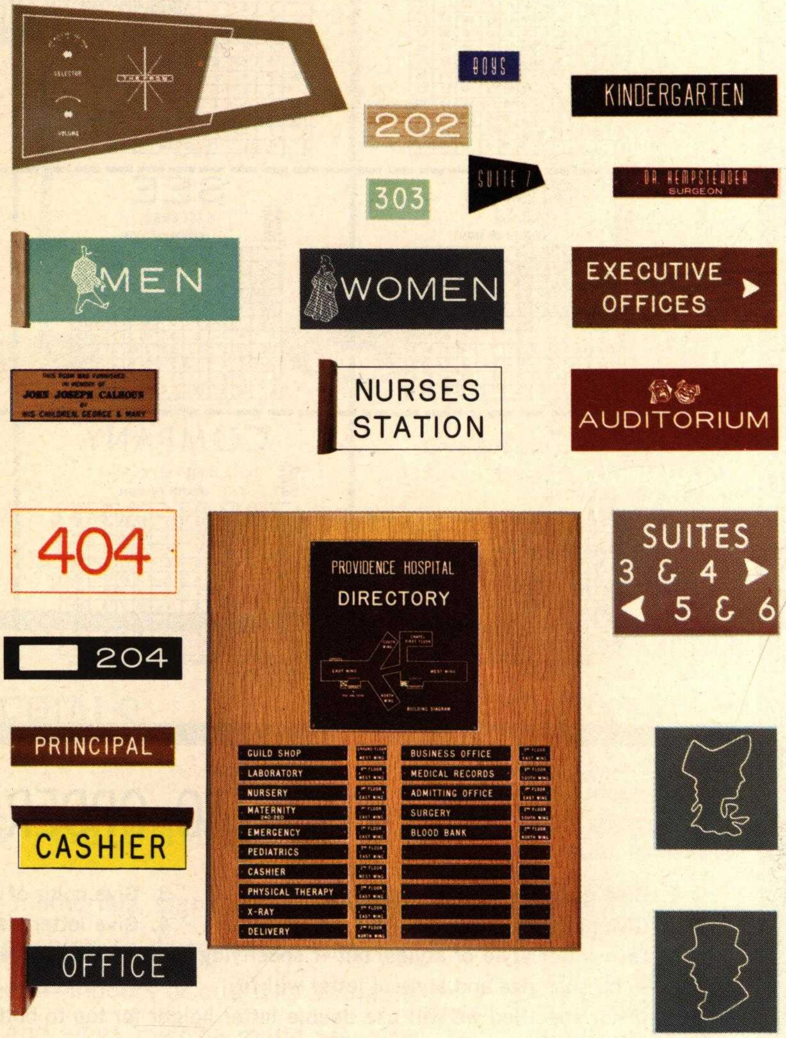
Due to the limitations of color printing, it is impossible to exactly match all of the brilliant hues of our products.

versatile!

Any sign you can design
BEST can produce

Here are 20 beautiful color combinations that can fit the decoration needs of any building. Memorials, plaques, direction signs, control boards, for use indoors or out, BEST will produce for you exactly as you specify.

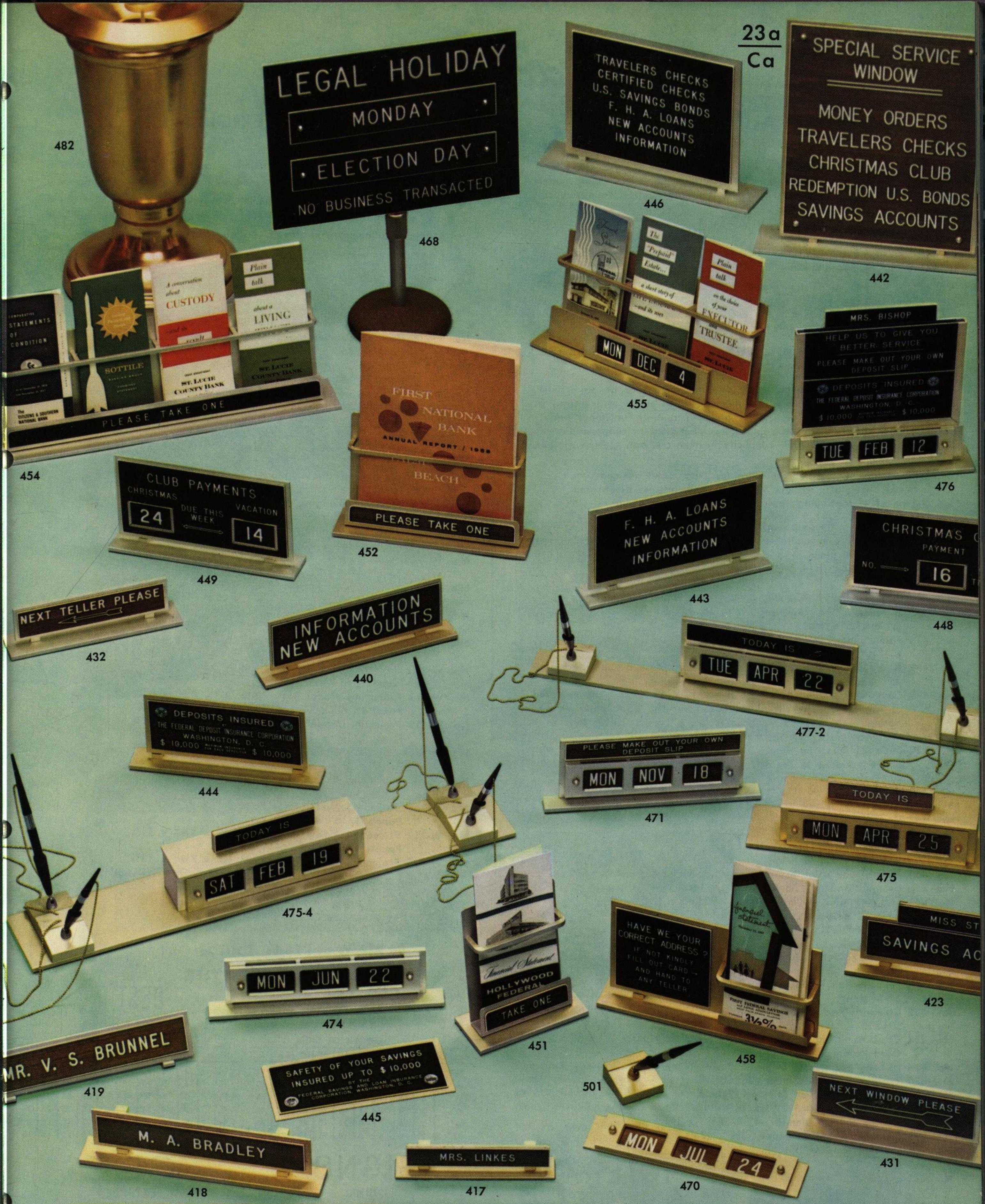
Contact your **BEST DEALER** today!


SELECTOR
VOLUME
BOYS
KINDERGARTEN
202
SUITE 7
DR. HEMPSTEADER
SURGEON
303
MEN
WOMEN
EXECUTIVE OFFICES
JOHN JOSEPH CALHOUN
NURSES STATION
AUDITORIUM
404
PROVIDENCE HOSPITAL
DIRECTORY
EAST WING
WEST WING
SOUTH WING
NORTH WING
BUILDING DIAGRAM
SUITES 3 & 4
5 & 6
204
PRINCIPAL
GUILD SHOP
LABORATORY
NURSERY
MATERNITY
240-260
EMERGENCY
PEDIATRICS
CASHIER
PHYSICAL THERAPY
X-RAY
DELIVERY
BUSINESS OFFICE
MEDICAL RECORDS
ADMITTING OFFICE
SURGERY
BLOOD BANK
CASHIER
OFFICE

BEST

Best Manufacturing Company

1333 Walnut / Kansas City 6, Mo. / HArrison 1-4466


482
LEGAL HOLIDAY
MONDAY
ELECTION DAY
NO BUSINESS TRANSACTED
468
TRAVELERS CHECKS
CERTIFIED CHECKS
U.S. SAVINGS BONDS
F. H. A. LOANS
NEW ACCOUNTS
INFORMATION
446
SPECIAL SERVICE WINDOW
MONEY ORDERS
TRAVELERS CHECKS
CHRISTMAS CLUB
REDEMPTION U.S. BONDS
SAVINGS ACCOUNTS
442
PLEASE TAKE ONE
454
MON DEC 4
455
PLEASE TAKE ONE
452
MRS. BISHOP
HELP US TO GIVE YOU BETTER SERVICE
PLEASE MAKE OUT YOUR OWN DEPOSIT SLIP
DEPOSITS INSURED
TUE FEB 12
476
CLUB PAYMENTS
CHRISTMAS
24
DUE THIS WEEK
VACATION
14
449
F. H. A. LOANS
NEW ACCOUNTS
INFORMATION
443
CHRISTMAS
PAYMENT
NO.
16
448
NEXT TELLER PLEASE
432
INFORMATION
NEW ACCOUNTS
440
TODAY IS
TUE APR 22
477-2
DEPOSITS INSURED
THE FEDERAL DEPOSIT INSURANCE CORPORATION
WASHINGTON, D. C.
$ 10,000
$ 10,000
444
PLEASE MAKE OUT YOUR OWN DEPOSIT SLIP
MON NOV 18
471
TODAY IS
MON APR 25
475
TODAY IS
SAT FEB 19
475-4
MON JUN 22
474
TAKE ONE
451
HAVE WE YOUR CORRECT ADDRESS? IF NOT KINDLY FILL OUT CARD — AND HAND TO ANY TELLER
458
MISS
SAVINGS AC
423
MR. V. S. BRUNNEL
419
SAFETY OF YOUR SAVINGS INSURED UP TO $ 10,000
445
501
NEXT WINDOW PLEASE
431
M. A. BRADLEY
418
MRS. LINKES
417
MON JUL 24
470

WALNUT BLACK MAHOGANY

Cadillac Engravers P. O. Box 4215 Fort Lauderdale, Florida

THE *Cadillac* LINE

CADILLAC ALUMINUM LINE

(FRONT COVER)

This newly designed line will fill your needs for a line of signs, check desk calendars, folder racks, desk name plates, counter signs, projecting models (made to read one or two sides) glass overhanging models, door and wall models, room numbers.

FEATURES — YOUR SELECTION OF 10 DIFFERENT PANEL COLORS

Black, red, brown, green, gray, tan, white, blond (grained) mahagony (grained) walnut (grained).

All materials have a polished clear bakelite surface and can be kept immaculate simply by wiping with a damp cloth. Lettering is engraved into the matte white core. There is no filling to discolor, fade, or chip out. (White panels have black letters.)

Cadillac Deluxe line of fixtures and back mounting plates. Nowhere can you obtain signs of such distinctive appearance.

All metalwork is aluminum anodized in either a natural or gold finish, and highly polished. It neither tarnishes nor fingermarks and retains its lustre through the years. The quality and outstanding functional beauty are a definite addition to the appearance. Designed in cooperation with architects and decorators, their simplicity harmonizes with today's modern decor.

Hundreds of complete installations from coast to coast in banks, hospitals, schools, churches, and offices, assure the user of a continuing replacement service in the future.

Listed below are the items appearing on the cover of this folder. Engraved replacement panels are available for all units, and are easily changed. Panels are held in place with double-coated tape. Replacement panels are shipped with new tape.

No. 417 Name plate. A feature is the 1″ x 6″ name plate mounted on clip-plate. The clip-plate slides over the back plate. Base is ¼″ x 1¼″ x 6¾″.
No. 418 Name plate. The back plate is ⅛″ x 2″ x 9½″. Base ¼″ x 1½″ x 10½″.
No. 419 Name plate. The ⅛″ x 2″ x 9½″ back-plate is supported at a 55° angle by two solid, machined aluminum legs.
No. 423 Combination sign. A feature is the 1″ x 6″ name plate mounted on clip-plate. The clip-plate slides over the back plate. Designating plate is 2″ x 9″ base is ¼″ x 1½″ x 10½″; legs raise the back plate from the base.
No. 430 and 431 Direction sign. There is a plate on each side with arrow pointing to the left on one side and right on the other. Dimensions 2¾″ high, 2″ wide, 9″ long.
No. 440 Designation sign. The base is ¼″ x 1½″ x 10½″; the back plate is ⅛″ x 3″ x 9⅜″.
No. 442 Designation sign. Size 14½″ x 11¾″.
No. 443 Designation sign. Size 5½″ x 9¾″.
No. 444 F.D.I.C. sign for banks. The base is ¼″ x 1½″ x 9⅜″. Back plate is 1/16″ x 3½″ x 8″.
No. 445 Savings and Loan Insurance sign. Back plate is 1/16″ x 3½″ x 8″.
No. 446 Designation sign. Base ¼″ x 3″ x 14¼″, over all size 9″ x 11¾″.
No. 448 and 449 Club Payment signs. Back plate is 5″ x 9¾″. Base 2″ x 10¼″.
No. 451 Single Folder Rack. Base 5½″ x 2¾″, height 6¼″, capacity 1″ in depth.
No. 452 Double Folder Rack. Base 10½″ x 2¾″, height 6¼″, capacity 1″ in depth.
No. 454 Four Section Folder Rack. Base 15″ x 3″, height 6¼″, capacity 1″ in depth.
No. 455 Calendar Rack. Base ¼″ x 3″ x 14¼″. Back plate 1/16″ x 6¼″ x 13¾″
No. 458 Card Stand. Base is ¼″ x 2″ x 10⅜″. Back plate ⅛″ x 5″ x 9¾″ Card Holder 1″ x 3⅞″
No. 468 Holiday Standard. 14½″ x 10½″
No. 470 Wall or Booth Calendar. 2″ x 8½″ x ⅜″
No. 471 Counter Calendar. 3¾″ x 11″ x 1″
No. 473 Counter Calendar. 2½″ x 11″ x 1″
No. 475 Double Sided Calendar. 4″ x 10½″ x 1″
No. 475-4 Double Sided Calendar. 3½″ x 24″ x 4″
No. 467 Drive-In-Window Unit, 9¼″ x 10″
No. 477-2 Counter Calendar. 4″ x 24″ x 2″
No. 482 Spun Anodized Aluminum Urn. 19″ height, diameter of top 11½″
No. 501 Cadillac Pen Ball Point with base. Base is 2″ x 2″

CADILLAC PLEXIGLAS LINE

(BACK COVER)

The holders are made of heavy ⅜″ gleaming, transparent plexiglas material, unaffected by weather and easily cleaned with a damp cloth. Replacement panels are available for all units, and are easily changed. Panels are held in place with double-coated tape. Replacement panels are shipped with new tape. All panels are engraved. Nothing to wear off or discolor.

Listed below are the items appearing on the back cover of this folder.

No. 110 Desk or Counter Model Back Plate ⅜″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″
No. 111 Desk or Counter Model Back Plate ⅜″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″
No. 112 Desk or Counter Madel Back Plate ⅜″ x 2⅞″ x 11⅞″ Panel 1/16″ x 2″ x 11⅞″
No. 115 Desk or Counter Model Back Plate ⅜″ x 3⅞″ x 13⅞″ Panel 1/16″ x 3″ x 13⅞″
No. A-210 Desk or Counter Model Back Plate ⅜″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″. Panel 1/16″ x ½″ x 7½″
No. A-211 Desk or Counter Model Back Plate ⅜″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″. Panel 1/16″ x ¾″ x 8⅞″
No. G-110 Glass Overhanging Model Back Plate ⅜″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″
No. G-111 Glass Overhanging Model Back Plate ⅜″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″
No. G-112 Glass Overhanging Model Back Plate ⅜″ x 2⅞″ x 11⅞″ Panel 1/16″ x 2″ x 11⅞″
No. G-115 Glass Overhanging Model Back Plate ⅜″ x 3⅞″ x 13⅞″ Panel 1/16″ x 3″ x 13⅞″
No. T-110 Teller Counter Model Back Plate ⅝″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″
No. T-111 Teller Counter Model Back Plate ⅝″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″
No. V-110 Counter Model Back Plate ⅜″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″
No. V-111 Counter Model Back Plate ⅜″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″
No. W-110 Projecting Model Back Plate ⅜″ x 1⅝″ x 7½″ Panel 1/16″ x 1″ x 7½″
No. W-111 Projecting Model Back Plate ⅜″ x 2¼″ x 8⅞″ Panel 1/16″ x 1½″ x 8⅞″
No. W-112 Projecting Model Back Plate ⅜″ x 2⅞″ x 11⅞″ Panel 1/16″ x 2″ x 11⅞″
No. W-115 Projecting Model Back Plate ⅜″ x 3⅞″ x 13⅞″ Panel 1/16″ x 3″ x 13⅞″
No. W-210 Projecting Model Back Plate ⅜″ x 2⅞″ x 7½″ Panels 1/16″ x 1″ x 7½″
No. W-211 Projecting Model Back Plate ⅜″ x 4″ x 8⅞″ Panels 1/16″ x 1½″ x 8⅞″
No. W-212 Projecting Model Back Plate ⅜″ x 5¼″ x 11⅞″ Panels 1/16″ x 2″ x 11⅞″
No. W-215 Projecting Model Back Plate ⅜″ x 7¼″ x 13⅞″ Panels 1/16″ x 3″ x 13⅞″
No. 426 Solid Walnut Triangular Block 1⅝″D. 1¾″ H. 9″ L. 1½″ x 8½″
No. 427 Solid Walnut Triangular Block 1⅜″ D. 2⅝″ H. 11″ L. Panel 2½″ x 10½″

LETTER STYLES

FOR THE

HIMALAYA

Letter Height	LENGTH OF SIGN 2″	3″	4″	5″	6″	8″	10″	11″	12″
¼″	8	16	25	34	42	59	76	84	92
⅜″	5	11	17	22	28	40	50	56	62
½″	4	8	12	16	21	29	38	42	46
¾″	3	5	8	11	14	20	25	28	31
⅞″	2	5	7	9	12	17	21	24	26
1″	2	4	6	8	10	15	19	21	23

BEST IN

EXTRA COND

Letter Height	LENGTH OF SIGN 2″	3″	4″	5″	6″	8″	10″	11″	12″
¼″	6	13	20	26	33	47	60	66	70
⅜″	4	9	13	17	22	31	40	44	49
½″	3	6	10	13	16	23	30	33	36
¾″	2	4	6	9	11	15	20	22	24
⅞″	2	4	5	7	9	13	17	19	21
1″	2	3	5	6	8	11	15	16	18

INTERIOR

CONDENSED

Letter Height	LENGTH OF SIGN 2″	3″	4″	5″	6″	8″	10″	11″	12″
¼″	5	9	13	17	22	31	40	44	49
⅜″	3	6	9	11	14	20	26	29	32
½″	2	4	6	9	11	15	20	22	24
¾″	1	3	4	6	7	10	13	15	16
⅞″	1	2	3	5	6	9	11	12	14
1″	1	2	3	4	5	7	9	10	12

SIGNS

NORMAL

Letter Height	LENGTH OF SIGN 2″	3″	4″	5″	6″	8″	10″	11″	12″
¼″	4	7	11	14	18	25	32	36	40
⅜″	3	5	7	9	12	17	20	23	26
½″	2	4	6	8	10	13	17	19	20
¾″	1	2	3	5	6	8	10	12	13
⅞″	1	2	3	4	5	7	9	10	11
1″	1	2	3	3	4	6	8	9	10

SEE

EXTENDED

Letter Height	LENGTH OF SIGN 2″	3″	4″	5″	6″	8″	10″	11″	12″
¼″	3	5	8	11	14	20	25	28	31
⅜″	2	3	5	7	9	13	17	19	21
½″	1	2	4	5	7	10	12	14	15
¾″	1	2	2	3	4	6	8	9	10
⅞″	1	1	2	3	4	5	7	8	9
1″	1	1	2	2	3	5	6	7	7

Cadillac MASTER LINE

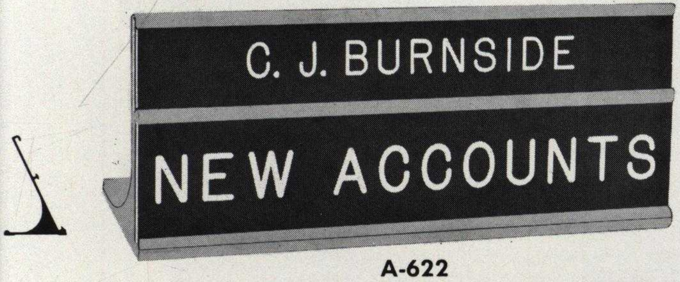
Frames are extruded aluminum, designed to hold the engraved inserts of any of the 10 plastic materials. All metalwork is anodized aluminum in either gold or natural finish, and highly polished. It neither tarnishes nor fingermarks and retains its lustre through the years.

This newly designed line will fill your needs for a sign requiring a permanent or a changeable plate. The engraved plastic inserts slide into the metal frame from the ends.

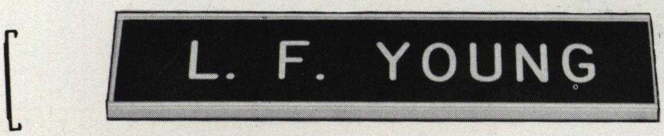
FRANK C. GRAY

A-611

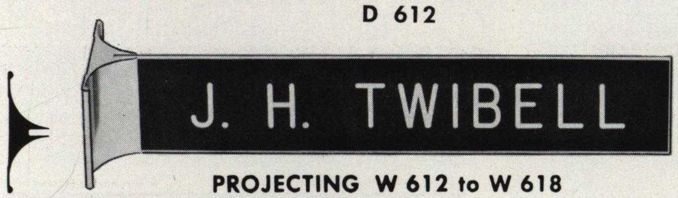
A-612



A-622



D 612



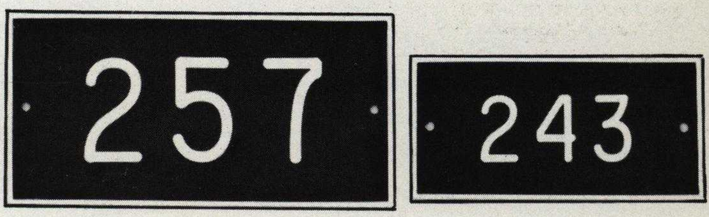
PROJECTING W 612 to W 618

PRICE, COMPLETE WITH INSERTS:

			one-line	two-line
A-611	Desk or Counter Style	1⅞" x 8⅞"	$5.65	$6.65
	Replacement Panel	1½" x 8⅞"	2.25	3.25
A-612	Desk or Counter Style	2⅜" x 12"	7.50	8.50
	Replacement Panel	2" x 12"	3.00	4.00
A-622	Desk or Counter Style	3" x 12"		
	Complete with 2 panels			13.25
	Replacement Panel		3.00 ea.	
D-612	Flat Mounting for Door or Wall	2¼" x 12"	$7.50	
	Replacement Panel	2"x12"	3.00	
		size of panel	**one side**	**two sides**
W-612	Projecting	2" x 12" x ⅛"	$7.50	$9.00
W-613	Projecting	3" x 14" x ⅛"	9.50	11.00
W-614	Projecting	4" x 16" x ⅛"	12.75	14.50
W-615	Projecting	6" x 16" x ⅛"	19.75	23.75
W-616	Projecting	8" x 18" x ⅛"	25.25	29.75
W-617	Projecting	10"x20"x⅛"	29.50	34.50
W-618	Projecting	12" x 24" x ⅛"	38.75	43.75

Cadillac ROOM NUMBER MODELS

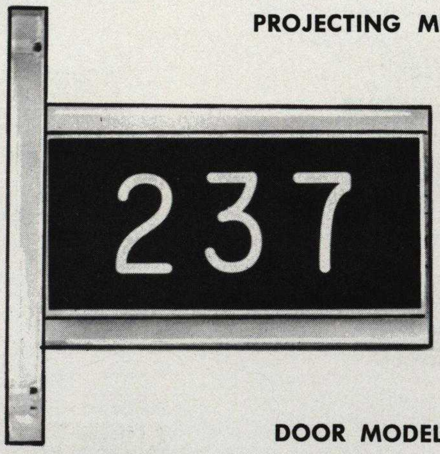
Panels are made of Bakelite material with white letter engraved. One of our 10 color panels will harmonize with your color scheme. (White panels have black letters.) Panels are drilled for mounting.



No.	Panel Size	Number Size	Price
11	3 x 1½"	¾"	$ .75
12	4 x 2"	1"	1.00
15	5 x 3"	1¼"	1.25

Price includes one to three digits. Plates with over three digits require special quotation.

PROJECTING MODELS



The holders are made of heavy ⅜" gleaming, transparent plexiglas material, unaffected by weather and easily cleaned with a damp cloth.

	1 side	2 sides
No. W-12 Price	$3.25	$4.00
Size 2¾ x 4"		
No. W-15 Price	$4.25	$5.00
Size 3¾ x 5"		

DOOR MODEL

NO VISITORS
470

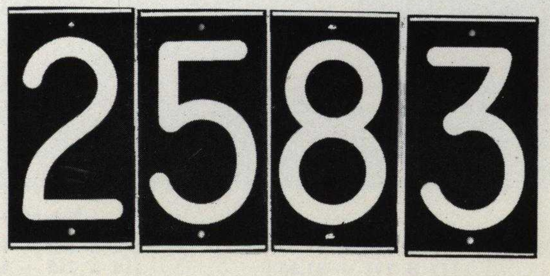
With E-Z interchangeable plate that slides in. Designed in cooperation with hospital architects.

No. D-17..................Price $3.25
Size 4" x 4"

STOCK NUMERAL PLATES

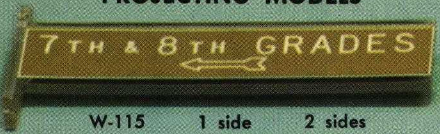
The stock numeral plates are engraved on 1/16" thick black bakelite with bold WHITE numerals. Each numeral plate has two screw holes so it can be attached to wood doors, etc. Widely used for identifying doors or treatment rooms, hotels and hospitals. Carried in stock at all times.

No. 16 Size 1⅝" x 3" Price, each..............................$ .75



THE CLEAR PLEXIGLAS LINE

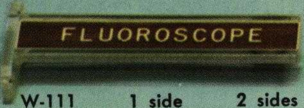
PROJECTING MODELS


7TH & 8TH GRADES

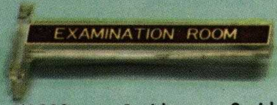
W-115 1 side 12.50 2 sides 16.25

INFORMATION

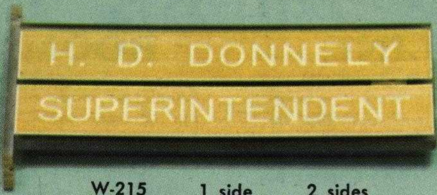
W-112 1 side 8.50 2 sides 11.25


FLUOROSCOPE

W-111 1 side 5.50 2 sides 7.50


EXAMINATION ROOM

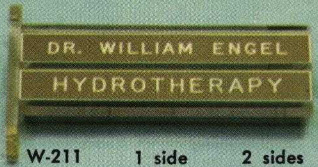
W-110 1 side 3.75 2 sides 5.25


H. D. DONNELY
SUPERINTENDENT

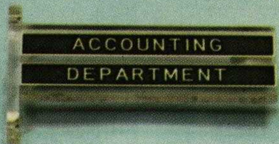
W-215 1 side 20.50 2 sides 28.00

ACCOUNTANT
W. R. KLEEMAN

W-212 1 side 16.25 2 sides 21.75


DR. WILLIAM ENGEL
HYDROTHERAPY

W-211 1 side 9:50 2 sides 13.25


ACCOUNTING
DEPARTMENT

W-210 1 side 5.25 2 sides 8.25

WALNUT WOOD BLOCKS

INFORMATION

427 8.50

ELAINE BRUNDAGE

426 6.50

FLAT DOOR MODELS

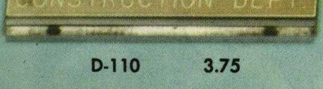
DOCTORS STUDY

D-115 12.50

INDUSTRIAL TOOLS INC.

D-112 8.50

D-111 5.50


CONSTRUCTION DEPT

D-110 3.75

V MODELS

NEXT WINDOW PLEASE

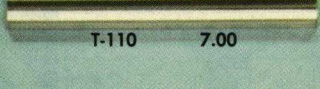
V-111 9.25

NEXT WINDOW

V-110 6.00

TELLER MODELS

T-111 8.50


JOSEPH P. KINCAID
VICE PRESIDENT

T-110 7.00

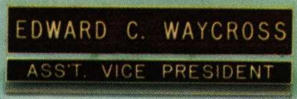
DESK MODELS

ARTHUR J. CREST
PRINCIPAL

A-115 12.50

JOHN TAMMANY
ATTORNEY AT LAW

A-112 8.50


EDWARD C. WAYCROSS
ASS'T. VICE PRESIDENT

A-211 7.50

H. M. SPENCER
PATHOLOGIST

A-111 5.50

DAVID A. STEVENS
VICE PRESIDENT

A-210 5.50

WILLIAM N. STROUSE
VICE PRESIDENT

A-110 3.75

GLASS MODELS

PEDIATRICS

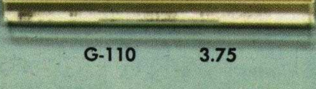
G-115 12.50

A. H. HAMILTON

G-112 8.50

MARTIN H. HALL

G-111 5.50


6TH GRADE STUDENTS

G-110 3.75

REPLACEMENT PANELS AVAILABLE IN ALL TEN COLORS

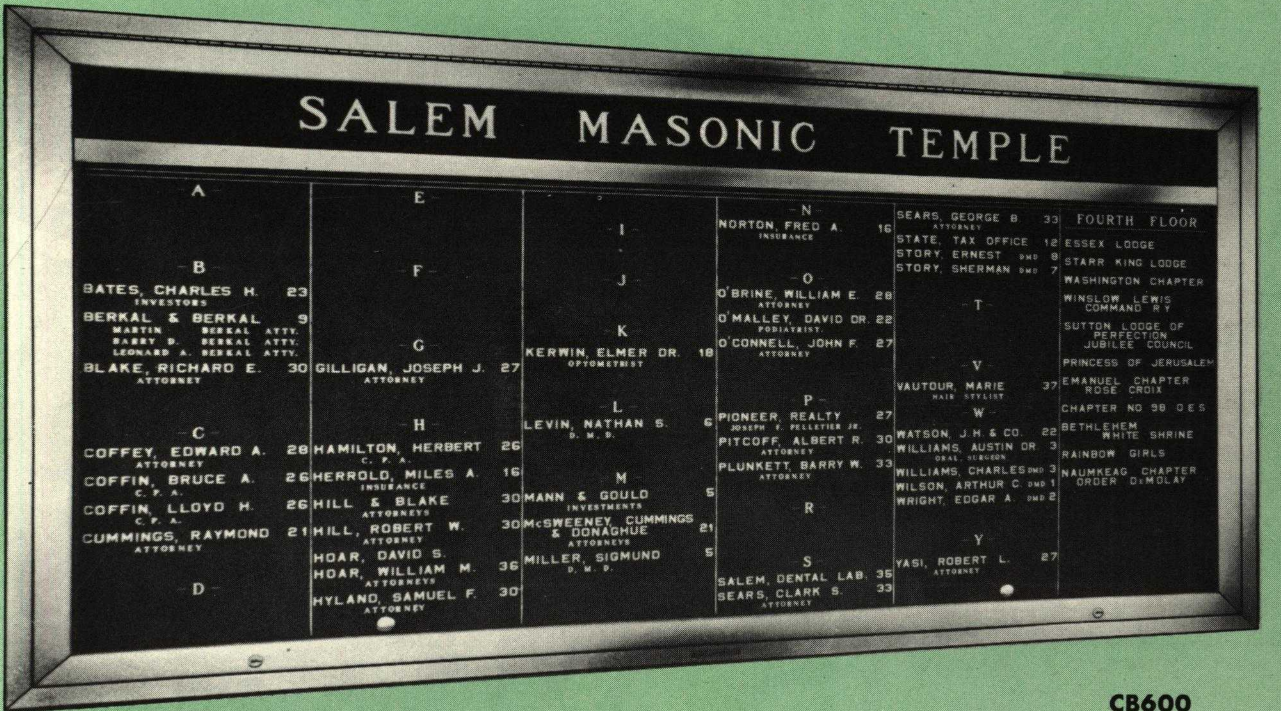
110 & 210 — $1.25
111 & 211 — $1.65
112 & 212 — $2.50
115 & 215 — $3.50
426 — $2.25
427 — $3.50

Extra line engraved — $1.50

SEND FOR COMPLETE CATALOG.

plastic changeable letters

directories
bulletin boards
church signs


SALEM MASONIC TEMPLE
A
B
BATES, CHARLES H. 23
INVESTORS
BERKAL & BERKAL 9
MARTIN BERKAL ATTY.
BARRY D. BERKAL ATTY.
LEONARD A. BERKAL ATTY.
BLAKE, RICHARD E. 30
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C. P. A.
COFFIN, LLOYD H. 26
C. P. A.
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ATTORNEY
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G
GILLIGAN, JOSEPH J. 27
ATTORNEY
H
HAMILTON, HERBERT 26
C. P. A.
HERROLD, MILES A. 16
INSURANCE
HILL & BLAKE 30
ATTORNEYS
HILL, ROBERT W. 30
ATTORNEY
HOAR, DAVID S.
HOAR, WILLIAM M. 36
ATTORNEYS
HYLAND, SAMUEL F. 30
ATTORNEY
I
J
K
KERWIN, ELMER DR. 18
OPTOMETRIST
L
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D. M. D.
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MANN & GOULD 5
INVESTMENTS
McSWEENEY, CUMMINGS & DONAGHUE 21
ATTORNEYS
MILLER, SIGMUND 5
D. M. D.
N
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ATTORNEY
O'MALLEY, DAVID DR. 22
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JOSEPH F. PELLETIER JR.
PITCOFF, ALBERT R. 30
ATTORNEY
PLUNKETT, BARRY W. 33
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SEARS, CLARK S. 33
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SEARS, GEORGE B. 33
ATTORNEY
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STORY, ERNEST DMD 8
STORY, SHERMAN DMD 7
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V
VAUTOUR, MARIE 37
HAIR STYLIST
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WATSON, J.H. & CO. 22
WILLIAMS, AUSTIN DR. 3
ORAL SURGEON
WILLIAMS, CHARLES DMD 3
WILSON, ARTHUR C. DMD 1
WRIGHT, EDGAR A. DMD 2
Y
YASI, ROBERT L. 27
ATTORNEY
FOURTH FLOOR
ESSEX LODGE
STARR KING LODGE
WASHINGTON CHAPTER
WINSLOW LEWIS COMMAND R.Y.
SUTTON LODGE OF PERFECTION JUBILEE COUNCIL
PRINCESS OF JERUSALEM
EMANUEL CHAPTER ROSE CROIX
CHAPTER NO 98 O.E.S.
BETHLEHEM WHITE SHRINE
RAINBOW GIRLS
NAUMKEAG CHAPTER ORDER DeMOLAY

CB600
Stainless steel frame

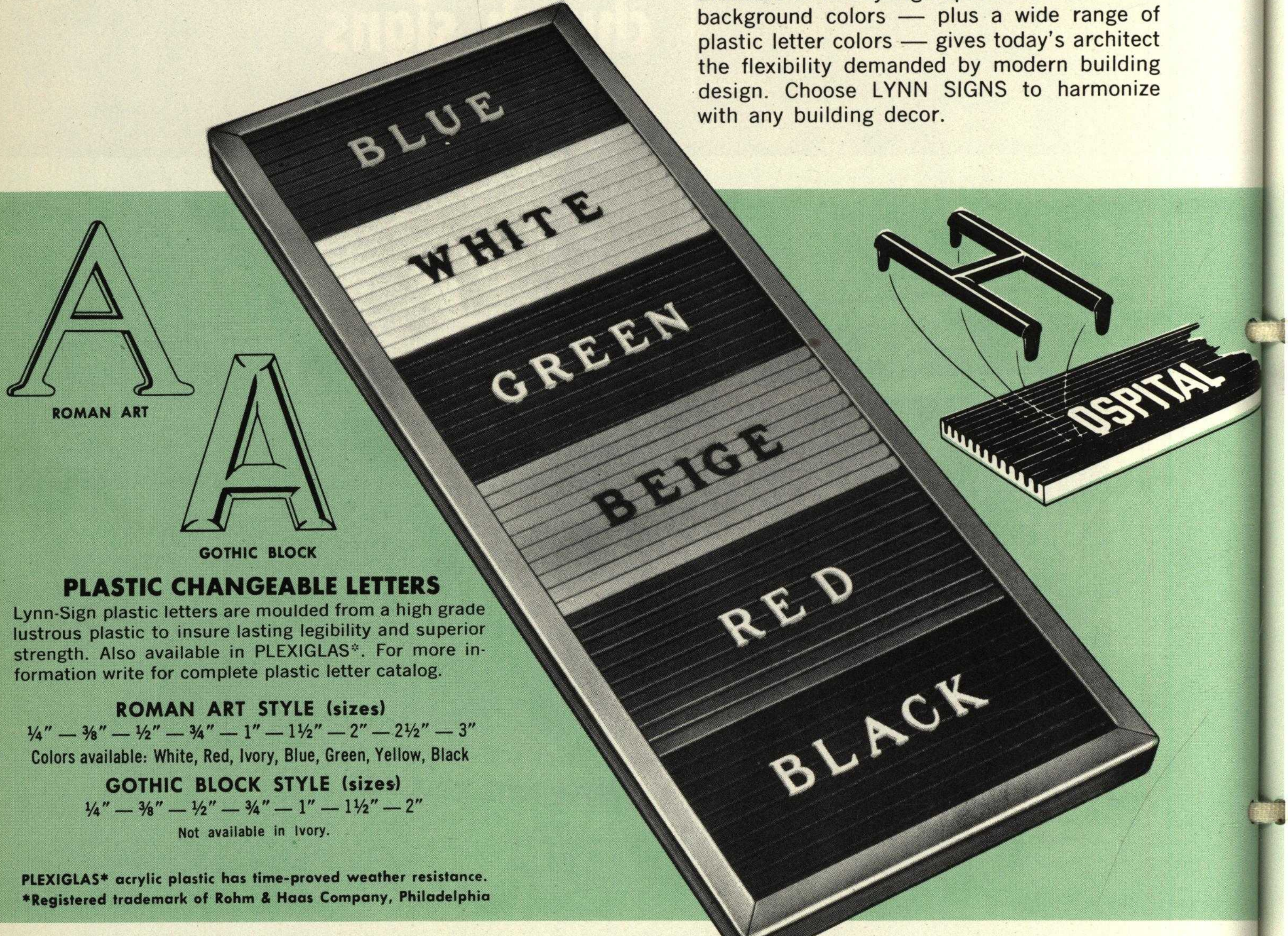
bronze | stainless steel | extruded aluminum | satin chrome | wood

LYNN

LYNN-SIGN MOULDED PLASTIC CO., INC.

CHANGEABLE LETTERBOARDS IN MODERN COLORS . . .
COLORFUL PLASTIC LETTERS TO HARMONIZE OR CONTRAST

New exclusive PERMALYNN backgrounds are available to fit any sign specified. Six modern background colors — plus a wide range of plastic letter colors — gives today's architect the flexibility demanded by modern building design. Choose LYNN SIGNS to harmonize with any building decor.



ROMAN ART

GOTHIC BLOCK

PLASTIC CHANGEABLE LETTERS

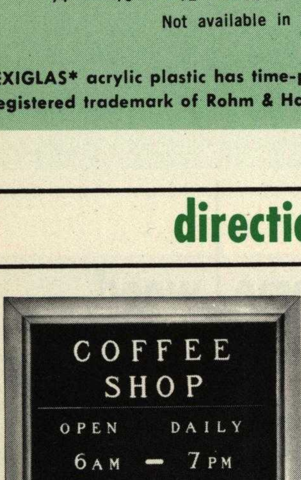
Lynn-Sign plastic letters are moulded from a high grade lustrous plastic to insure lasting legibility and superior strength. Also available in PLEXIGLAS*. For more information write for complete plastic letter catalog.

ROMAN ART STYLE (sizes)
¼" — ⅜" — ½" — ¾" — 1" — 1½" — 2" — 2½" — 3"
Colors available: White, Red, Ivory, Blue, Green, Yellow, Black

GOTHIC BLOCK STYLE (sizes)
¼" — ⅜" — ½" — ¾" — 1" — 1½" — 2"
Not available in Ivory.

PLEXIGLAS* acrylic plastic has time-proved weather resistance.
***Registered trademark of Rohm & Haas Company, Philadelphia**

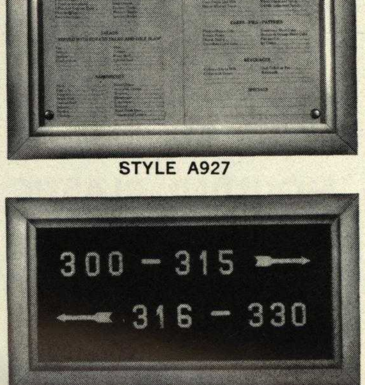
directional and elevator signs



STYLE A926

BILL OF FARE
BILL OF FARE

STYLE A927



STYLE A925

A925 ROOM DIRECTIONAL SIGN. 15" x 8". Single face for flush mounting. Double face for extended-from-wall mounting.

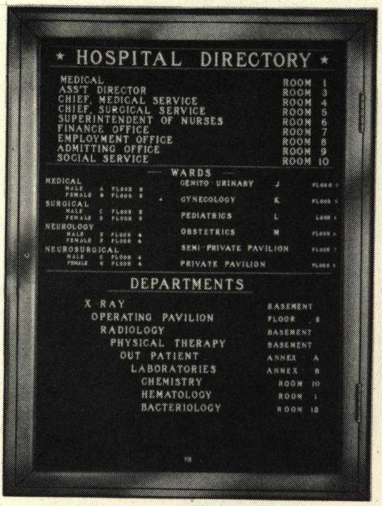
A926 ELEVATOR SIGN. 14" x 20". May be used for printed inserts such as elevator license or menus as shown.

A927 ELEVATOR SIGN. 14" x 11". This sign, although constructed with regular changeable letterboard, is often used with printed insert for advertisements or licenses.

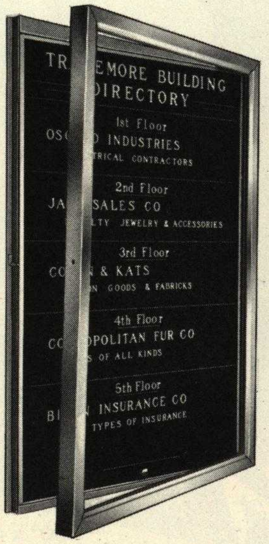
All three signs described above are available only with extruded anodized aluminum frames with moulding number 4. All three have glass face and changeable letter backboards removable from rear.

directories

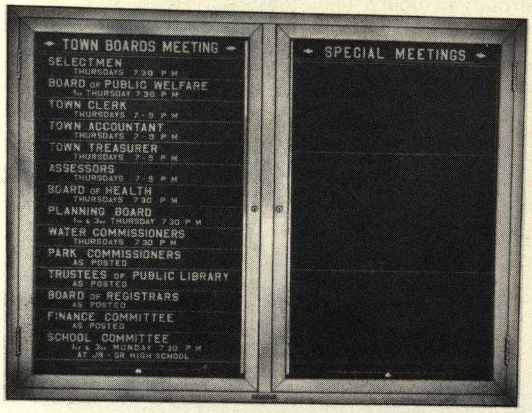
for LOBBY or INDIVIDUAL FLOOR LISTINGS


★ HOSPITAL DIRECTORY ★
MEDICAL ROOM 1
ASS'T DIRECTOR ROOM 3
CHIEF MEDICAL SERVICE ROOM 4
CHIEF SURGICAL SERVICE ROOM 5
SUPERINTENDENT OF NURSES ROOM 6
FINANCE OFFICE ROOM 7
EMPLOYMENT OFFICE ROOM 8
ADMITTING OFFICE ROOM 9
SOCIAL SERVICE ROOM 10
WARDS
DEPARTMENTS
X RAY BASEMENT
OPERATING PAVILION FLOOR 8
RADIOLOGY BASEMENT
PHYSICAL THERAPY BASEMENT
OUT PATIENT ANNEX A
LABORATORIES ANNEX B
CHEMISTRY ROOM 10
HEMATOLOGY ROOM 1
BACTERIOLOGY ROOM 12

A600 Deluxe directory with set-in hinged glass door, lock and key. Illustrated example is a 27″ x 36″ changeable letterboard with ⅜″ roman letters. Available in extruded aluminum with case moulding number 6 and door moulding number 3. Available in all other materials with case moulding 78 and door moulding 28.


TR EMORE BUILDING
DIRECTORY
1st Floor
2nd Floor
3rd Floor
4th Floor
5th Floor
INSURANCE CO

940 Changeable letterboard with extra heavy extruded anodized aluminum case with moulding number 4. Cover-all door type construction. Frame is hinged to a rear metal insert holder — or pan — by means of an aluminum piano hinge. Letterboard fits into pan and is bound with an aluminum channel for easy removal. Special locking device for case. ½″, ¾″ and 1″ roman art letters are used in 20″ x 30″ board illustrated.

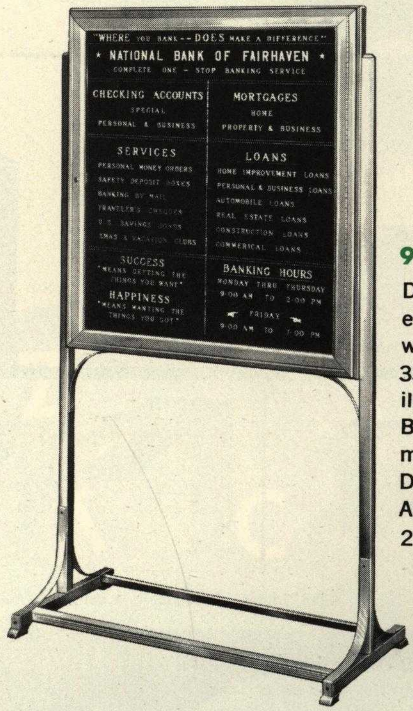

TOWN BOARDS MEETING
SELECTMEN
BOARD OF PUBLIC WELFARE
TOWN CLERK
TOWN ACCOUNTANT
TOWN TREASURER
ASSESSORS
BOARD OF HEALTH
PLANNING BOARD
WATER COMMISSIONERS
PARK COMMISSIONERS
TRUSTEES OF PUBLIC LIBRARY
BOARD OF REGISTRARS
FINANCE COMMITTEE
SCHOOL COMMITTEE
SPECIAL MEETINGS

A600-2D Same specifications as A600 with two door type construction. Three and four door styles are also available. 36″ x 48″ board illustrated

STOCK SIZES FOR BULLETINS AND DIRECTORIES

15″ x 20″	22″ x 32″	28″ x 40″
18″ x 24″	24″ x 36″	32″ x 44″
20″ x 30″	27″ x 36″	36″ x 48″

Any style or size can be custom made to fit your requirements.


"WHERE YOU BANK -- DOES MAKE A DIFFERENCE"
★ NATIONAL BANK OF FAIRHAVEN ★
COMPLETE ONE - STOP BANKING SERVICE
CHECKING ACCOUNTS
MORTGAGES
SERVICES
LOANS
SUCCESS
HAPPINESS
BANKING HOURS

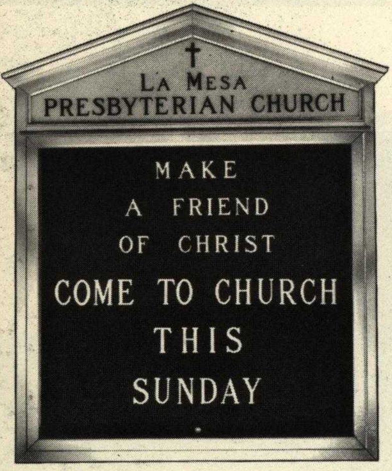
950

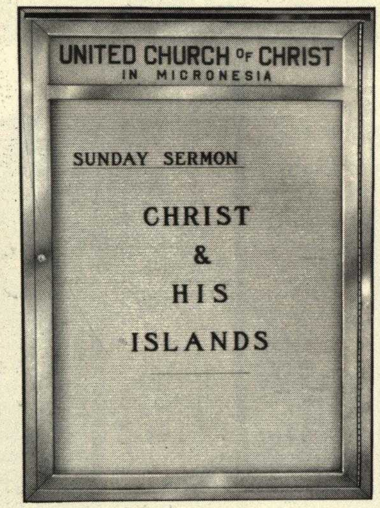
Deluxe bulletin in extruded aluminum frame with 5 ft. standards. 33″ x 36″ bulletin illustrated. Bulletin case with moulding number 6. Door moulding number 3. Also available 27″ x 36″.

LYNN

LYNN-SIGN MOULDED PLASTIC CO., INC.

church signs


LA MESA
PRESBYTERIAN CHURCH
MAKE
A FRIEND
OF CHRIST
COME TO CHURCH
THIS
SUNDAY


UNITED CHURCH OF CHRIST
IN MICRONESIA
SUNDAY SERMON
CHRIST
&
HIS
ISLANDS

Outdoor bulletins — illuminated or non-illuminated — in genuine bronze or stainless steel. All cases are thoroughly weatherproofed with watertight soldered corners and reinforcing iron corner plates. Doors are provided with top and bottom raindrip. Inside of door frame lined with aluminum. Backs are completely covered with painted galvanized metal — soldered watertight. Illuminated cases are 5″ deep with lighting fixtures mounted inside the top portion of case. Non-illuminated cases are 2½″ deep. Church name is mounted on ¼″ thick opaque plexiglas with raised black plexiglas letters.

Inserts available in either black or white Permalynn backgrounds. Mounting posts and hardware available.

THE MAYFLOWER

29″ x 52″
33″ x 57″
42″ x 52″
42″ x 62″
54″ x 72″
60″ x 54″

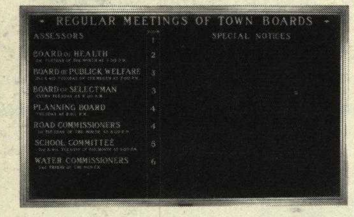
THE PILGRIM

28″ x 40″
30″ x 40″
30″ x 45″
33″ x 50″
36″ x 48″

PILGRIM
33″ x 50″ board illustrated

MAYFLOWER
42″ x 52″ board illustrated

bulletins

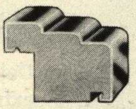

REGULAR MEETINGS OF TOWN BOARDS
ASSESSORS
SPECIAL NOTICES
BOARD OF HEALTH
BOARD OF PUBLICK WELFARE
BOARD OF SELECTMAN
PLANNING BOARD
ROAD COMMISSIONERS
SCHOOL COMMITTEE
WATER COMMISSIONERS

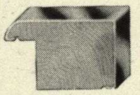
A920 Changeable letterboard with any specified moulding. Illustration shows extruded anodized aluminum moulding number 1 with 1½″ face. When frame is assembled, letterboard is held in place permanently. Open face style — no glass. This frame is adaptable to all sizes — recommended for larger signs. Illustrated example is a 60″ x 36″ Permalynn board with 1″ and ½″ roman art letters.

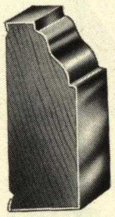
CORK BACK BULLETINS are available in chrome or wood frames to your specifications. Open faced or with hinged glass doors.

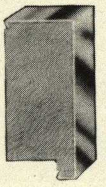
mouldings

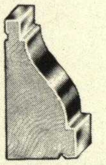
**bronze
stainless
satin chrome
wood**

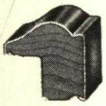

No. 62


No. 28

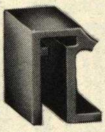
No. 78


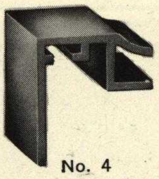
No. 70


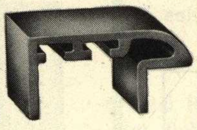

No. 48

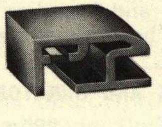
CHROME ONLY

No. 45

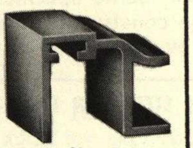
**extruded
aluminum**
(available plain, gold finished or anodized in any shade specified.)

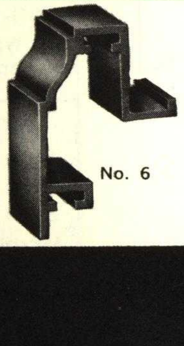

No. 2


No. 4


No. 5


No. 3


No. 1

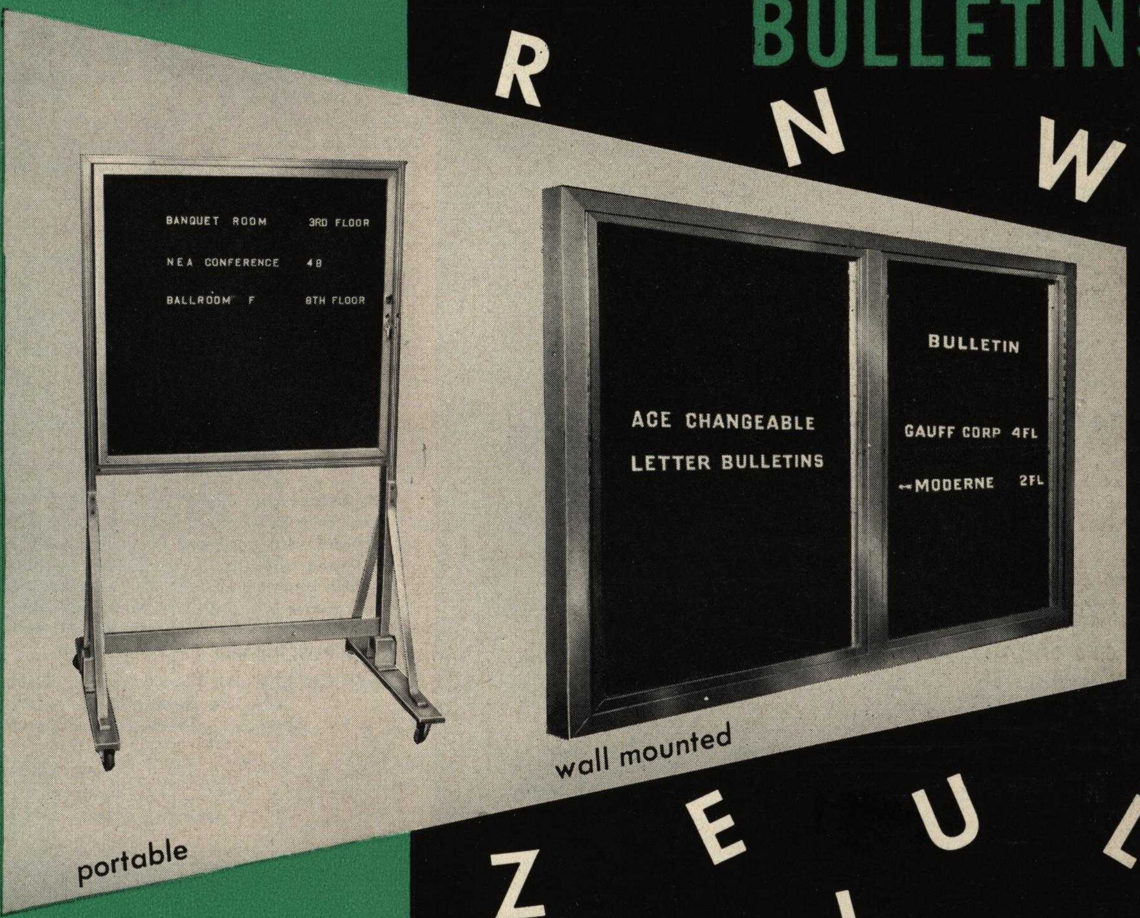

No. 6

Wood frames are available in solid oak, mahogany or walnut — or in mahogany or walnut finishes.

LYNN

LYNN-SIGN MOULDED PLASTIC CO., INC.
230 ALBANY STREET, CAMBRIDGE, MASSACHUSETTS UNiversity 4-8050

Ace changeable letter BULLETINS


BANQUET ROOM 3RD FLOOR
NEA CONFERENCE 4B
BALLROOM F 8TH FLOOR
ACE CHANGEABLE LETTER BULLETINS
BULLETIN
GAUFF CORP 4FL
↔ MODERNE 2FL
wall mounted
portable

New York Silicate Book Slate Co. Inc.

Ace
changeable letter
bulletins

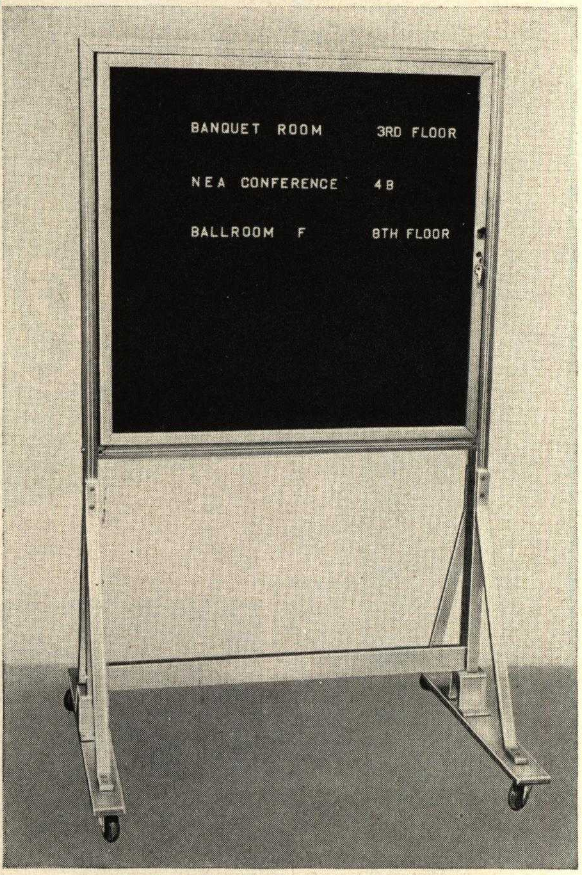
Ace changeable letter bulletins are widely used by all types of businesses, schools and institutions, that have messages that must be changed from time to time — or every day if necessary. They are made in a wide variety of metals or wood, modern in design, all of which are available in varied sizes and kinds of construction.

Ace changeable letter bulletins are easily read because of sharp contrast between letters and background. They are visible at almost any distance because of the varied size letters.

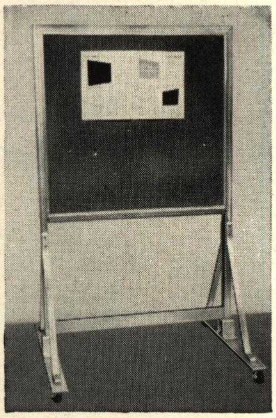
Letters and numerals are easily and quickly changed. There is perfect alignment and spacing because of accurate cloth covered grooves which are one-quarter inch apart.

They are made by a company which has been in business since 1865.

Free standing - Delux type A



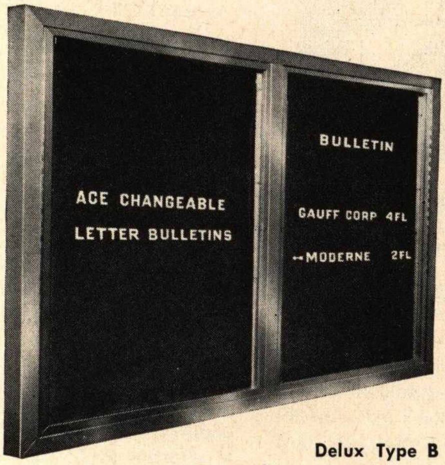
The Deluxe type boards are the Cadillacs of the field of changeable letter boards. Made of hollow aluminum tubing with 1/8" thick wall sections. Has anodized finish that will not tarnish or finger mark. Equipped with rubber-tired ball bearing casters. One side has 1/4-inch plate glass door with stainless steel piano hinge and lock and grooved background for changeable letters. Other side has cork bulletin board for thumb-tacking notices. It is not only a versatile item, but also a thing of beauty.



Overall height of unit is 62 inches from floor to top. Standard sizes of board units as follows:

32" wide x 32" high
32" wide x 36" high
32" wide x 40" high

wall mounted


ACE CHANGEABLE
LETTER BULLETINS
BULLETIN
GAUFF CORP 4FL
↔MODERNE 2FL

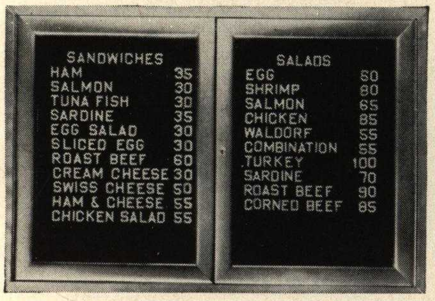
Delux Type B

This is another Cadillac, but for wall hanging with blind hangers in rear. Made of aluminum tubing with non-tarnishing anodized finish. Wall thickness of tubing is ⅛″. Made in single or double door types — double door has mullion between doors. Made with two inch deep tubing without light. With fluorescent light 3″ deep tubing is used. ¼″ plate glass doors with stainless steel piano hinges.

standard sizes

single door
18″ wide x 24″ high
20″ wide x 30″ high
24″ wide x 36″ high
30″ wide x 42″ high
36″ wide x 36″ high

double door
54″ wide x 36″ high
60″ wide x 42″ high

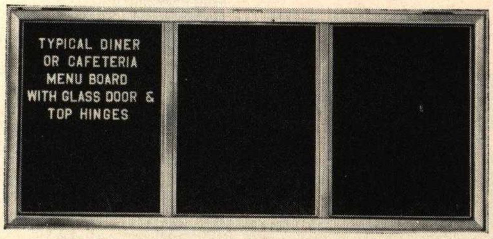

SANDWICHES
HAM 35
SALMON 30
TUNA FISH 30
SARDINE 35
EGG SALAD 30
SLICED EGG 30
ROAST BEEF 60
CREAM CHEESE 30
SWISS CHEESE 50
HAM & CHEESE 55
CHICKEN SALAD 55
SALADS
EGG 60
SHRIMP 80
SALMON 65
CHICKEN 85
WALDORF 55
COMBINATION 55
TURKEY 100
SARDINE 70
ROAST BEEF 90
CORNED BEEF 85

Type C

This type has two separately hinged glass doors with lock and key. Panels are removable from front when doors are open. Ideal not only as menu board, but also for announcements.

standard sizes
30″ wide x 20″ high outside measure
44″ wide x 25″ high outside measure

Special sizes on request.

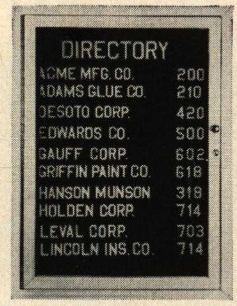

TYPICAL DINER
OR CAFETERIA
MENU BOARD
WITH GLASS DOOR &
TOP HINGES

Type D

Type D is an ideal three panel menu board. The glass door is hinged at top, and the panels are removable from front.

Standard overall sizes are as follows:
45″ wide x 20″ high
45″ wide x 22″ high
50″ wide x 20″ high
50″ wide x 22″ high

type E

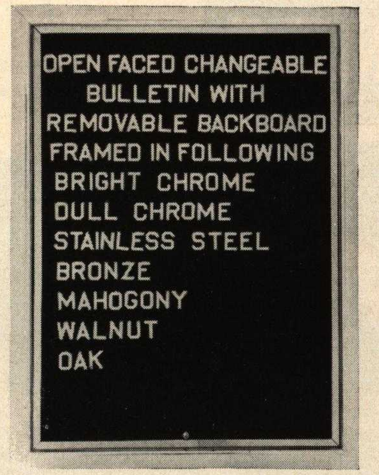

DIRECTORY
ACME MFG. CO. 200
ADAMS GLUE CO. 210
DESOTO CORP. 420
EDWARDS CO. 500
GAUFF CORP. 602
GRIFFIN PAINT CO. 618
HANSON MUNSON 318
HOLDEN CORP. 714
LEVAL CORP. 703
LINCOLN INS. CO. 714

The Type E board is usable for almost any type of announcement. It has a fixed rear panel and glass door with lock.

standard sizes

width in.	height in.
15 18	20 24
20	26 30
22	32 39
25 26 27	36 26 39
40	50

type F

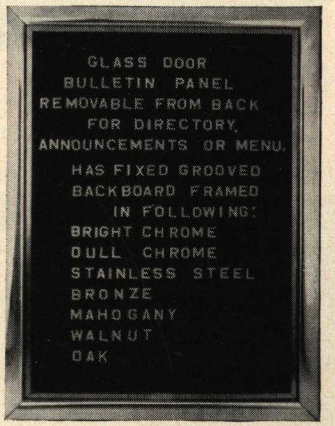

OPEN FACED CHANGEABLE
BULLETIN WITH
REMOVABLE BACKBOARD
FRAMED IN FOLLOWING
BRIGHT CHROME
DULL CHROME
STAINLESS STEEL
BRONZE
MAHOGONY
WALNUT
OAK

The Type F has open face with grooved panel removable from front. This is ideal when no glass door is required.

standard sizes

width in.	height in.
15 18	20 24
20	26 30
22	32 39
25 26 27	36 26 39
40	50

type G


GLASS DOOR
BULLETIN PANEL
REMOVABLE FROM BACK
FOR DIRECTORY,
ANNOUNCEMENTS OR MENU.
HAS FIXED GROOVED
BACKBOARD FRAMED
IN FOLLOWING:
BRIGHT CHROME
DULL CHROME
STAINLESS STEEL
BRONZE
MAHOGANY
WALNUT
OAK

Type G has glass panel which is not removable. Grooved panel is removable from back of board.

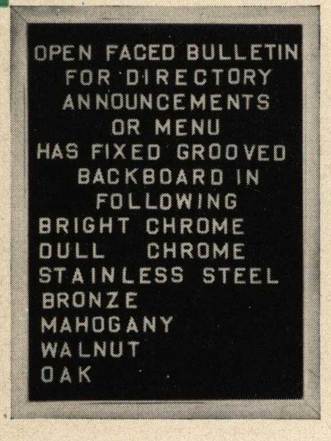
standard sizes

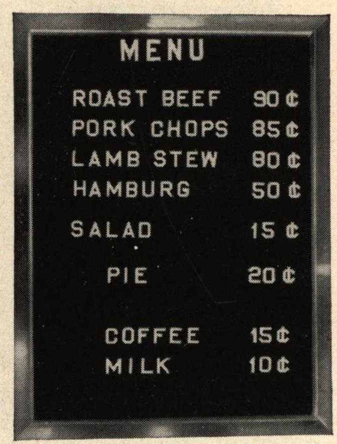
width in.	height in.
15 18	20 24
20	26 30
22	32 39
25 26 27	36 26 39
40	50

Types C, D, E, F, G, and H made in dull or bright chrome or stainless steel Kalamein molding.
All dimensions shown are outside measurements.

wall mounted bulletins (continued)

type H


OPEN FACED BULLETIN
FOR DIRECTORY
ANNOUNCEMENTS
OR MENU
HAS FIXED GROOVED
BACKBOARD IN
FOLLOWING
BRIGHT CHROME
DULL CHROME
STAINLESS STEEL
BRONZE
MAHOGANY
WALNUT
OAK

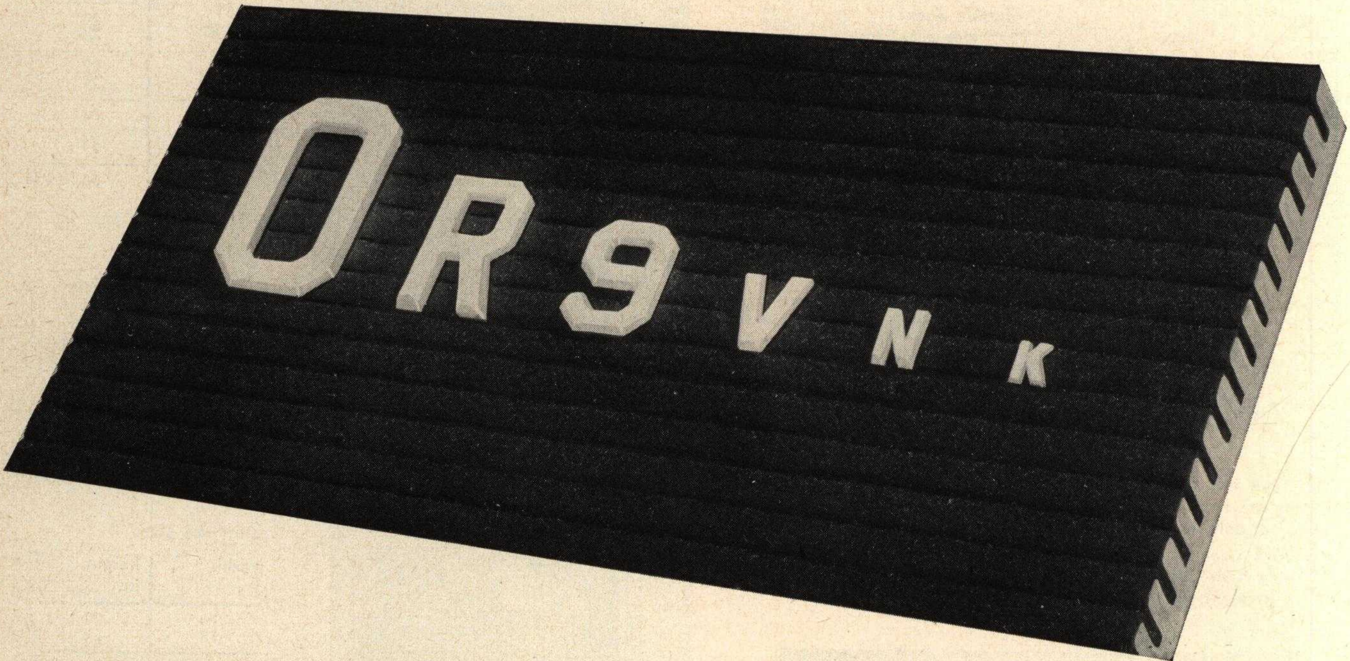

MENU
ROAST BEEF 90¢
PORK CHOPS 85¢
LAMB STEW 80¢
HAMBURG 50¢
SALAD 15¢
PIE 20¢
COFFEE 15¢
MILK 10¢

standard sizes

width in.	height in.
15	20
18	24
20	26
	30
22	32
	39
25	36
26	26
27	39
40	50

Type H has frame with fixed open face panel, so it can be readily moved from wall to wall or placed upon stand or easel feet.

plastic letters: in White, Red, and Yellow; sizes shown below.



letter sizes: 1½″ 1″ ¾″ ½″ ⅜″ ¼″

NEW YORK SILICATE BOOK SLATE CO. INC.

600 Old Country Road,
Garden City, New York

If it's a SIGN . . . We'll make it!
Write for our 100 Page Catalog

John M. Doyle, President
Charles L. Wilson, Vice Pres.
John J. Kintsch, Sales Mgr.
M. G. Jackson, Office Mgr.

SPENCER INDUSTRIES

- **LETTERS**
- **SIGNS**
- **BULLETIN BOARDS**

MADE TO ORDER — ENGRAVED BAKELITE SIGNS . . .

Engraved Bakelite Plates are made to order (using our standard styles of lettering) and their clean-cut legibility does not require polishing although it withstands atmospheric conditions as well as most acids and alkalies. The secret lies in the "sandwich-like" construction of the bakelite sheets. The engraving cuts through the black surface of the material—exposing the white center of the bakelite. No paint, lacquer or other coatings—just the original plastic material itself. Extremely legible and easily cleaned with a damp cloth.

COLORS OF BAKELITE AVAILABLE

BLACK — white lettering
BLONDE (grained)—black lettering
GREY (grained) black lettering
MAHOGANY (grained) — white lettering
WALNUT (grained)—white lettering
WHITE — black lettering
DARK STATUARY BROWN with WHITE lettering

MINIMUM PRICE
$5.00
FOR ANY MADE-TO-ORDER
ENGRAVED BAKELITE PLATE

THICKNESSES: 1/16", 1/8" or 3/16"

GOTHIC
DUQUESNE
BLOCK
ROMAN

STYLES OF LETTERING

STOCK SIGNS
ENGRAVED BAKELITE (black plastic)

DOCTORS ONLY
ENGLISH
LAVATORY
PRINCIPAL
SENIORS

300 WORDINGS CARRIED IN STOCK

size: 2" x 8"—1/16" thick

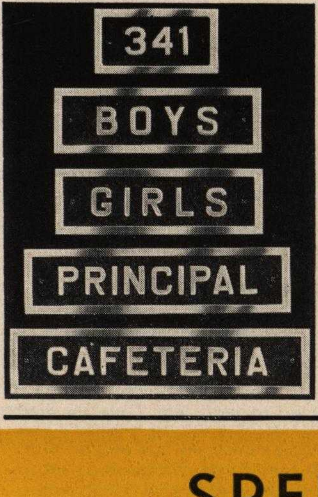
The most popular stock signs on the market. Dignified, legible and inexpensive.

The white lettering is permanently engraved into the black surface. For interior or exterior use. Easily cleaned.

$2.50 each; $21.00 per dozen.

Special wordings—$5.00 each

ALUMILITED ALUMINUM "ENDUROSIGNS"
(die stamped)



style No. 870

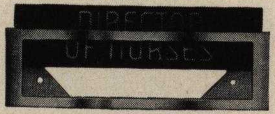
Signs with embossed raised letters, available in 300 stock wordings listed here. Lettering and borders are natural satin *alumilited*, with backgrounds a black wrinkle finish.

2" high x nec. length; all lettering ⅞" high $5.50 each; $55.00 doz.

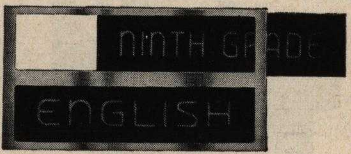
Signs with special wordings priced slightly higher.

INTERCHANGEABLE SIGNS

Model #74



Model #75



To answer a large demand from schools, public buildings and others who wanted an attractive sign frame that would hold our popular engraved bakelite signs—yet permit the sign panels to be changed when desired without drilling additional holes in their fine wood doors—we made our Model #74 interchangeable signs. These sign frames are made of Alumilited Cast Aluminum and measure 8½" long. The sign panels (which easily slide into the aluminum frames) are made of Engraved Bakelite.

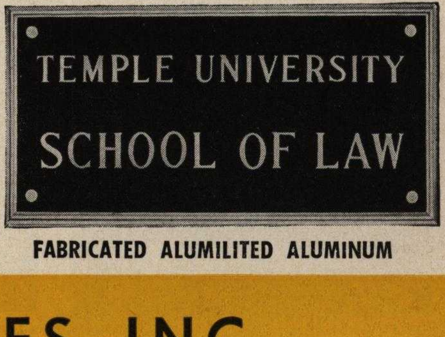
PRICES COMPLETE WITH SIGN PANELS

Model #74
(with one sign panel)
8½"x2½" overall $10.00
8"x4" overall 12.00

Model #75
(with two sign panels)
8½"x4½" $15.00

Prices shown include necessary STOCK BAKELITE SIGNS (any one of 300 inscriptions). If signs are to be engraved with names or special wordings—there will be an extra charge of $3.00 per sign panel.

If it's a sign . . . We'll make it!



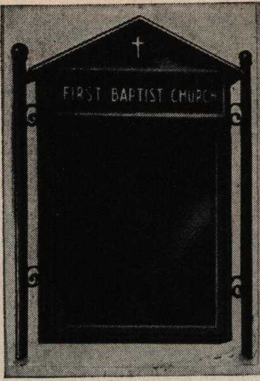
FABRICATED ALUMILITED ALUMINUM

SPENCER INDUSTRIES INC.

1504 N. MASCHER STREET
PHILADELPHIA 22, PENNA.

TELEPHONE
GARFIELD 5-1506

SIGNS OF ALL KINDS



model #1400

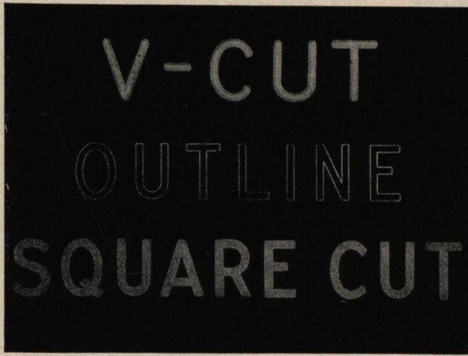
Made in one standard size—40" x 57" overall. Contains a grooved metal changeable letter panel 30" wide x 38" high. Name panel (translucent bakelite) measures 6" x 31". Complete with one set of changeable letters, flashing cross and two lawn posts.

Frame fabricated of paint-grip steel, sprayed-statuary brown color. **$460.00**

Same as above—but with frame made of Stainless Steel **$640.00**

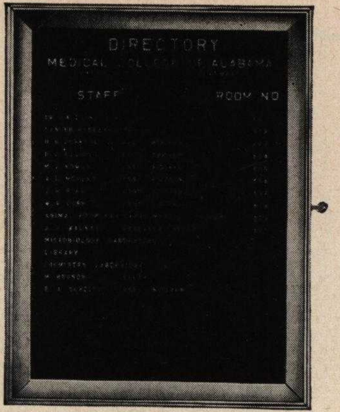
ENGRAVED PLEXIGLAS SIGNS

STYLE #792



STANDARD STYLES OF LETTERING

These signs are made of 3/16" thick clear Plexiglas. The lettering is engraved from the back and is usually colored White or Gold—while the sign background is sprayed Black or any other standard color. These signs are very legible—and require practically no maintenance as the lettering is not on the exposed surface of the sign.

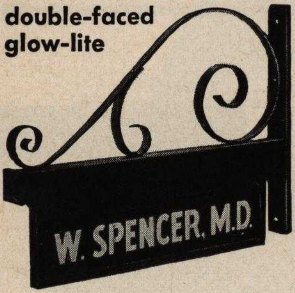


model #1450

This type of changeable letter directory is recommended only for Indoor Use—because it is not made with weatherproof construction. However it is "budget-priced", attractive in appearance and made with our standard kalamein Stainless Steel construction. Complete with hinged glass door and lock—made in almost any size.

---

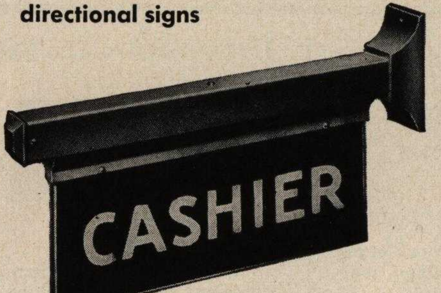
double-faced glow-lite



no. W-720

A professional sign for outdoor use. The scroll adds strength and support to the sign. Indoor models do not have a scroll or metal binding frame around the glass sign panel. Available with square or rounded corners with glass or plexiglas sign panels. Made of copper, sprayed dark statuary brown or duotone bronze. Also in a DeLuxe brushed finish—either bronze or stainless steel. $56.00 and up

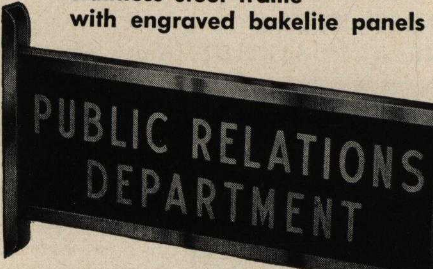
directional signs



no. W-718

This Spencer "Glow-Lite" sign is equally adaptable to both indoors and outdoors. Metal frames are made in statuary brown, brushed bronze and stainless steel, and the inscription is permanently carved into the glass. Illumination is supplied by a 60 watt tubular lamp. Double-faced sign illustrated (indoor type) has sign panels measuring 6" x 18½". $52.00 and up

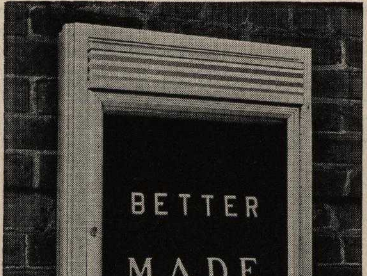
stainless steel frame with engraved bakelite panels



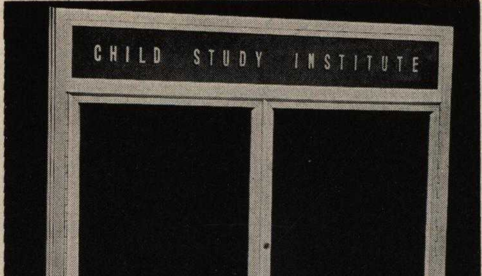
no. 1644

An ideal projecting, non-illuminated sign for directional purposes. These handsome signs are made with engraved black bakelite sign panels encased in lustrous stainless steel frames. The double-faced sign illustrated (indoor type) measures 18" x 6" over-all. $40.00

EXTRUDED ALUMILITED ALUMINUM BULLETIN BOARDS with changeable letter directories



no. 1447 Display Case with changeable letter insert panel. Fluorescent light at top. 31" (high) x 22" x 3" (over-all)



no. 1446 Double Door Bulletin Board (with changeable letter or cork-covered panels) and a raised letter, cast aluminum panel across the top of the case.

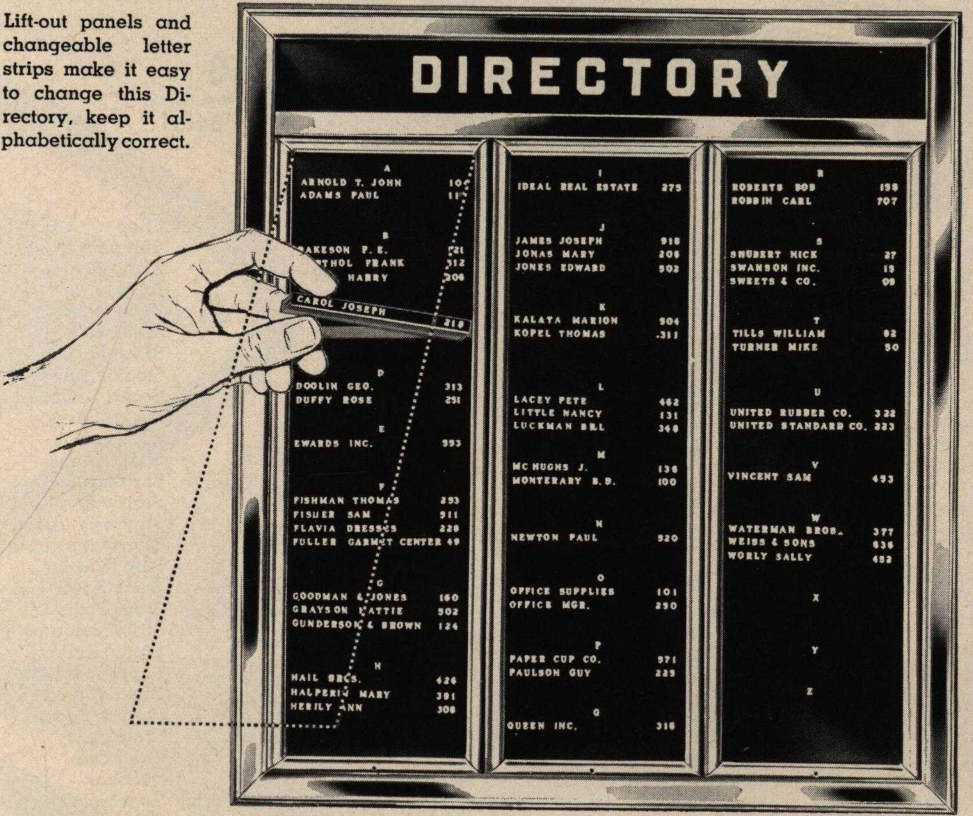
Spencer Display Cases are fabricated from our standard sections of heavy 63-ST extruded aluminum with a permanent alumilited finish, a great improvement over cases fabricated of sheet or kalamein metal. They are made with inset doors, piano hinges, cylinder locks and completely waterproof construction. Made in almost any desired size.

These quality cases are made to order, so they can be made with raised letter heading panels, changeable letter inserts, cork, felt covered or plywood backgrounds, illuminated or non-illuminated, flush or recess mounted to wall, etc. Give us details of your requirements and we shall be glad to quote.

Something NEW in Changeable Letter Directories!
THE DIRECTORY YOU OWN AND CONTROL YOURSELF

ALL PANELS ARE GLASS ENCLOSED

Lift-out panels and changeable letter strips make it easy to change this Directory, keep it alphabetically correct.


DIRECTORY
A
ARNOLD T. JOHN 10
ADAMS PAUL 11
B
BAKESON P. E. 21
BERTHOL FRANK 312
HARRY 206
CAROL JOSEPH 218
D
DOOLIN GEO. 313
DUFFY ROSE 251
E
EWARDS INC. 553
F
FISHMAN THOMAS 293
FISHER SAM 911
FLAVIA DRESSES 228
FULLER GARMENT CENTER 49
G
GOODMAN & JONES 160
GRAYSON HATTIE 502
GUNDERSON & BROWN 124
H
HAIL BROS. 426
HALPERIN MARY 391
HERILY ANN 308
I
IDEAL REAL ESTATE 275
J
JAMES JOSEPH 918
JONAS MARY 206
JONES EDWARD 502
K
KALATA MARION 504
KOPEL THOMAS 311
L
LACEY PETE 462
LITTLE NANCY 131
LUCKMAN BILL 348
M
MC HUGHS J. 136
MONTERARY B. D. 100
N
NEWTON PAUL 520
O
OFFICE SUPPLIES 101
OFFICE MGR. 290
P
PAPER CUP CO. 571
PAULSON GUY 225
Q
QUEEN INC. 316
R
ROBERTS BOB 158
ROBBIN CARL 707
S
SHUBERT NICK 27
SWANSON INC. 15
SWEETS & CO. 09
T
TILLS WILLIAM 82
TURNER MIKE 50
U
UNITED RUBBER CO. 322
UNITED STANDARD CO. 223
V
VINCENT SAM 453
W
WATERMAN BROS. 377
WEISS & SONS 636
WORLY SALLY 452
X
Y
Z

EASY to maintain
EASY to own
EASY to keep in alphabetical order

NOW AVAILABLE IN . . .

Kalamein Metal Frames: Anodized aluminum, bronze, chrome or stainless steel. Wood Frames: Mahogany, oak, walnut, bleached (any shade). Background colors are red, green, blue, brown, gray, maroon, and black. Letter colors are white, red, yellow and green.

Anyone can make changes in these directories in a few minutes. Using the extra supply of letters (that are kept in an alphabetical compartment box which we furnish) a new line is set up on a blank changeable strip. This new strip is then inserted anywhere on the Directory by just moving other strips to make room for a new strip.

No need to change other lettering—or to order individual name strips from the factory. DO IT YOURSELF—and keep tenants happy with immediate service. This revolutionary idea in directories is ideal for both small and large Office Buildings—and also has many other uses in schools, clubs and other public places.

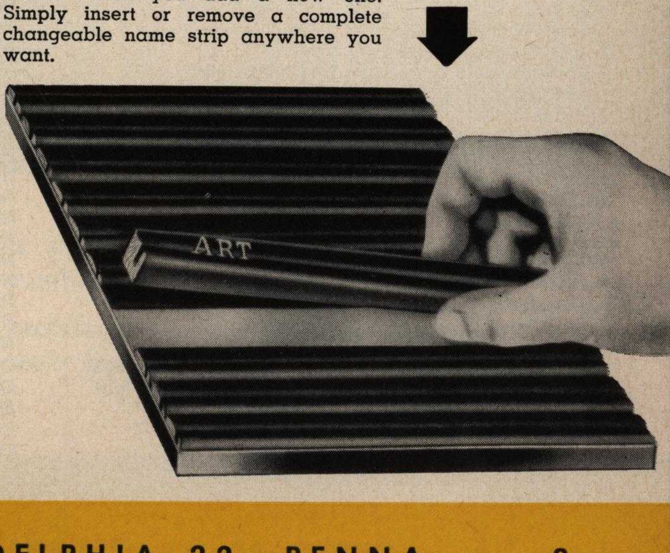
STYLE No. 19
NO CHARGE FOR BUILDING NAME AT TOP OF DIRECTORY

STYLE No. 19			CONSTRUCTION OF FRAME				
PANELS	TOTAL STRIPS	SIZE	CHROME	BRONZE	STAINLESS STEEL	ALUMINUM	WOOD
1	50	11½″ x 33½″	$ 136.00	$ 144.50	$ 197.20	$ 139.40	$ 136.00
2	100	20″ x 33½″	231.20	243.10	295.80	238.00	231.20
3	150	28½″ x 33½″	289.00	300.90	365.50	295.80	289.00
4	200	37″ x 33½″	382.50	392.70	445.40	387.60	382.50
5	250	45½″ x 33½″	498.10	510.00	566.10	503.20	498.10
6	300	54″ x 33½″	596.70	606.90	676.60	601.80	596.70
7	350	62½″ x 33½″	693.60	705.50	787.10	700.40	693.60
8	400	72″ x 33½″	792.20	804.10	892.50	799.00	792.20
10	500	45½″ x 60¾″	989.40	1001.30	1116.90	994.50	989.40
12	600	54″ x 60¾″	1184.90	1196.80	1302.20	1191.70	1184.90
14	700	62½″ x 60¾″	1382.10	1394.00	1553.80	1387.20	1382.10
16	800	71″ x 60¾″	1579.30	1589.50	1774.80	1584.40	1579.30

Be sure to allow for ENOUGH STRIPS for spaces, alphabetical headings—and possible future needs.

Above prices do not include the Changeable Letters. Only ¼″ high Changeable Letters can be used—price of these letters is 6¢ each. We suggest you order a standard assortment (or font) of letters—which we will pack in a compartment box. We suggest ordering about 200 letters and numerals for each TEN NAMES that will be on the Directory.

EASY DOES IT! No more juggling of names when you add a new one. Simply insert or remove a complete changeable name strip anywhere you want.

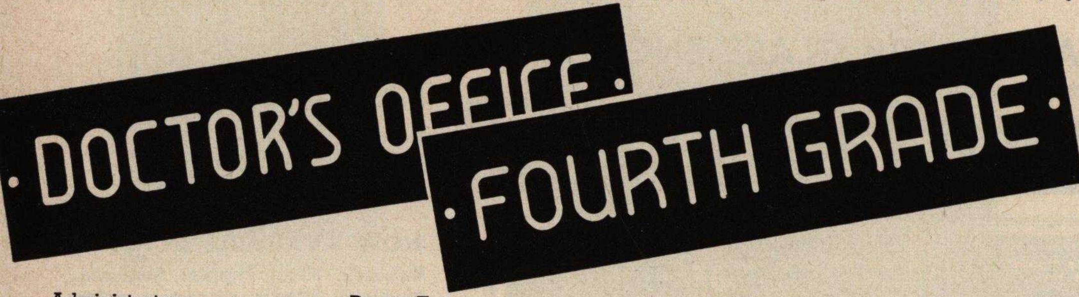


ENGRAVED BAKELITE SIGNS

INSCRIPTIONS CARRIED IN STOCK
ALL 2" x 8" SIZE

"IDENTIFY EVERY ROOM" WITH A STOCK BAKELITE SIGN . . .

More than **300** stock inscriptions
Size: 2" x 8" x 1/16" thick
White Lettering on Black Bakelite



$2.50 EACH

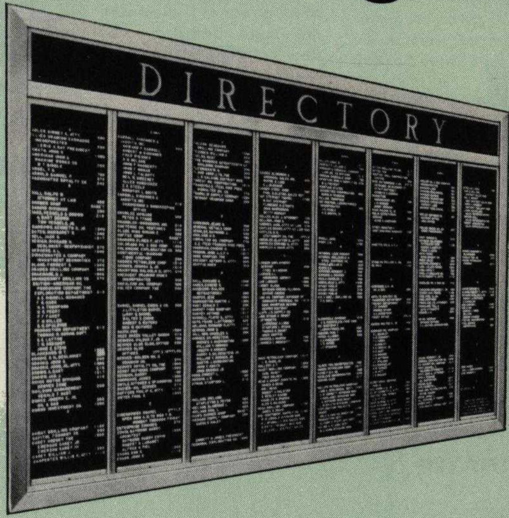
6 to 11 Signs $2.00 EA.

12 or more Signs $1.75 EA.

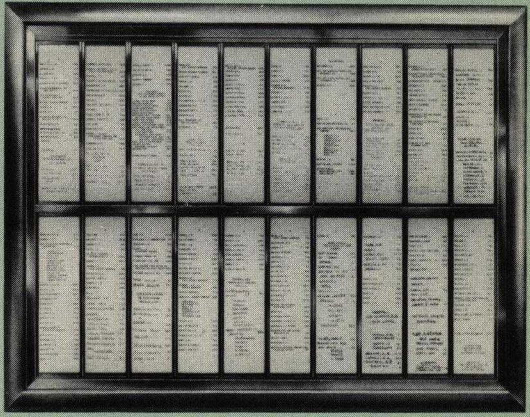
Administrator
Admitting Office
Apply at Office
Apply at Office (arrow right)
Apply at Office (arrow left)
Arrows, plain (right or left)
Attorney at Law
Auditorium
Baggage
Barber Shop
Basal Metabolism
Bath Room
Beauty Shop
Beware of Dog
Biology
Boiler Room
Bookkeeper
Bookkeeping
Boys
Bulletin Board
Business Office
By Appointment Only
Cafe
Cafeteria
Cashier
Chapel
Check Room
Chemistry
Children's Ward
Chiropody Therapy
Chiropractor
Chiropodist
Class Room
Clinic
Cloak Room
Closed
Closet
Colored
Colored Reception Room
Colored Ward
Commercial
Consultation Room
Credit Dept.
Danger (red)
Dark Room
Deliver All Goods in Rear
Deliver Flowers in Rear
Delivery Room
Dental Clinic
Dental Supplies
Dentist's Office
Dentist's Office (arrow right)
Dentist's Office (arrow left)
Dietitian
Diet Kitchen
Dining Room
Director of Nurses
Director
Dispensary
Display Room
Doctor
Doctor's Lounge
Doctor's Office
Doctor's Office (arrow right)
Doctor's Office (arrow left)
Doctors Only
Domestic Science
Do not Enter
Dressing Room
Drug Room
Ear, Nose & Throat
Eighth Grade
Electrocardiograph
Electrolysis
Elevator (arrow right)
Elevator (arrow left)
Emergency Room
Employees only
Employment Office
Engineer
English
Enter
Entrance
Entrance (arrow right)
Entrance (arrow left)
Examining Room
Exit
Exit (arrow right)
Exit (arrow left)
Eye-Ear-Nose-Throat
Faculty
Family Room
Fifth Grade
Fire Escape (RED)
Fire Escape (arrow right)
Fire Escape (arrow left)
First Aid
First Aid (arrow right)
First Aid (arrow left)
First Grade
Fluoroscopic
Foot Specialist
For Rent
For Sale
Fourth Floor
Fourth Grade
Freshmen
Furnished Rooms
Gentlemen
Gentlemen (arrow right)
Gentlemen (arrow left)
Gents Only
Gents Toilet
Girls
Guests Only
Gymnasium
Hands Off
Health Suite
Hearing Aid Room
History
Home Economics
Hospital
Housekeeper
Hydrotherapy
In
Incinerator
Infirmary
Information
Information (arrow right)
Information (arrow left)
Insurance
Internes
Janitor
Juniors
Justice of the Peace
Keep Out
Kindergarten
Kitchen
Laboratory
Ladies
Ladies (arrow right)
Ladies (arrow left)
Ladies Dressing Room
Ladies Lockers
Ladies Only
Ladies Parlor
Ladies Rest Room
Ladies Toilet
Laundry
Lavatory
Lavatory (arrow right)
Lavatory (arrow left)
Library
Linen Chute
Linen Room
Manager
Manual Training
Mathematics
Medical Ward
Medicine
Members Only
Men
Men's Lavatory
Men's Lockers
Men's Rest Room
Men's Dressing Room
Men's Treatment Room
Morgue
Music Room
New Accounts
Next Window
Next Window (arrow right)
Next Window (arrow left)
Ninth Grade
No Admittance
No Checks Cashed
No Credit
No Dancing
No Dogs Allowed
No Loitering
No Parking
No Peddlers
Nose & Throat
No Smoking
No Smoking Please
No Spitting
Notary Public
No Trespassing
No Vacancies
No Visitors
Nurse
Nursery
Nurses' Library
Nurses' Office
Nurses Only
Obstetrics
Office
Office (arrow right)
Office (arrow left)
Office in Rear
Office Upstairs
Office—Walk In
Open
Operating Room
Out
Parlor
Parlor A
Parlor B
Parlor C
Parts Dept.
Pastor's Study
Pathologist
Pay Here
Pay Toilet
Paying Teller
Pharmacy
Physician's Office
Physician's Office (arrow right)
Physician's Office (arrow left)
Physics
Physiotherapist
Physio Therapy Room
Piano Studio
Please Close
Please Flush Toilet
Please Knock
Please Register
Please Remove Your Rubbers
Please Wipe Your Feet
Powder Room
Prescriptions
President
Principal
Private
Private Entrance
Projection Room
Public Stenographer
Pull (vertical) 1½" x 6"
Purchasing Dept.
Push (vertical) 1½" x 6"
Quiet Please
Radiologist
Receiving Dept.
Receiving Room
Receiving Teller
Reception Room
Receptionist
Record Room
Recovery Room
Rectory
Remove Your Rubbers
Residence
Rest Room
Rest Room (arrow right)
Rest Room (arrow left)
Ring Bell and Walk In
Rooms for Rent
Sales Manager
Savings
Science
Second Floor
Second Grade
Secretary
Seniors
Service Entrance
Seventh Grade
Shipping Clerk
Shop
Shipping Room
Show Room
Silence
Sixth Grade
Slumber Room
Smoking Room (arrow righ
Smoking Room (arrow left)
Social Science
Social Service
Solarium
Sophomores
Staff Library
Stairway
Stairway (arrow right)
Stairway (arrow left)
Step Down
Stock Room
Store Room
Strict Isolation
Study Hall
Superintendent
Supt. of Nurses
Supply Room
Surgery
Take One
Teacher
Teacher's Room
Telephone
Telephone (arrow right)
Telephone (arrow left)
Terms Strictly Cash
Thank You—Call Again
Therapy
Third Floor
Third Grade
Ticket Office
Toilet
Toilet (arrow right)
Toilet (arrow left)
Tourists
Treatment Room
Typewriting
Use Other Door
Use Side Door
Utility Room
Vacancies
Visitors
Waiting Room
Waiting Room (arrow right)
Waiting Room (arrow left)
Walk In
Ward
Wash Room (arrow right)
Wash Room (arrow left)
Watch Your Step
White
White Reception Room
Wholesale Only
Women
Women's Lavatory
Womens' Treatment Room
x-Ray
x-Ray Office
x-ray Room

T&T building directories

illuminated



TRANSLITE ILLUMINATED DIRECTORIES
Illuminated letters on black background



STANDARD ILLUMINATED DIRECTORIES
Black letters on illuminated translucent background

non-illuminated

STANDARD OIL BUILDING
STANDARD
OIL
COMPANY
OF
CALIFORNIA
TENANTS
TENANTS
NOTICE
NO PEDDLERS
OR
CANVASSERS
ALLOWED
TO SOLICIT
IN THIS BUILDING

NON-ILLUMINATED WHITE AND COLORED BACKGROUND DIRECTORIES
Colored or black letters on white or colored backgrounds

STANDARD NON-ILLUMINATED DIRECTORIES
White letters on black background

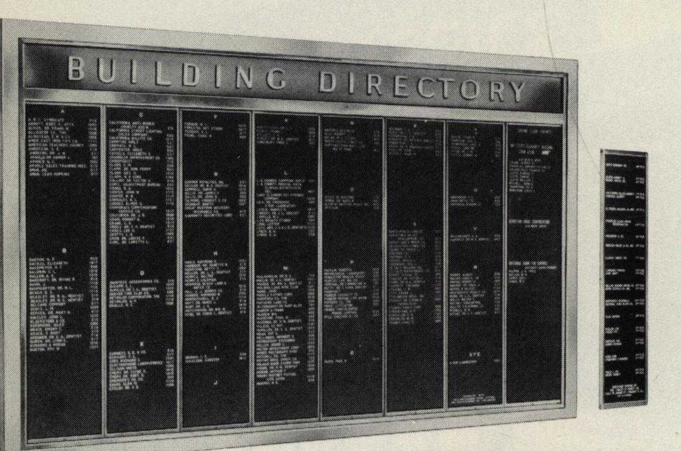
T&T Changeable Name Strip Building Directories are available in all types and sizes from 12 name capacities up to any desired number.

Directories can be furnished with either T&T Stock moldings, as shown on next page, or made up of Standard T&T sections for your custom made frames that match moldings and trim on your new construction or remodeling projects.

THE TABLET & TICKET CO.
Executive Office: 1021 West Adams Street, Chicago 7, Illinois
NEW YORK • SAN FRANCISCO • LOS ANGELES
Sales Representative in Principal Cities

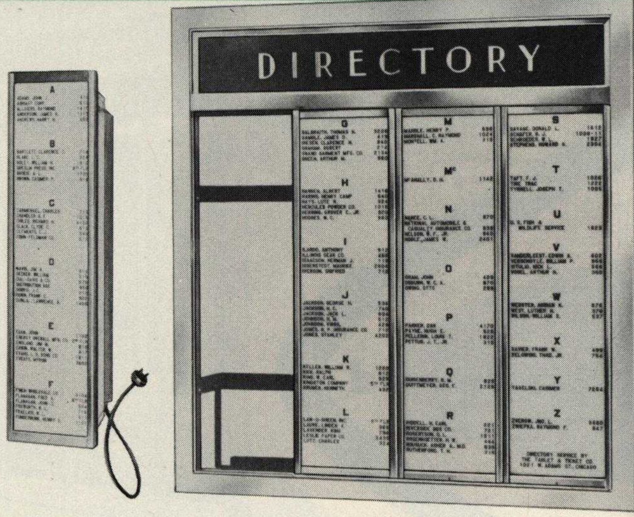
SECTIONAL STRIP

BUILDING DIRECTORIES



NON-ILLUMINATED

PAT. No. 1970822

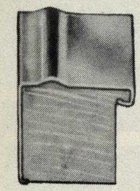


ILLUMINATED

PAT. No. 2269278
OTHER PATENTS APPLIED FOR

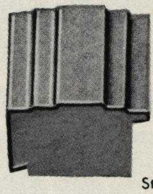
TYPICAL MOLDING DESIGNS

Kalamein (metal drawn over a wood core), moldings are indicated by the letter "K" and are used for non-illuminated directories. Extruded or solid metal moldings are indicated by the letters "E" and "R" and are used for either illuminated or non-illuminated directories.



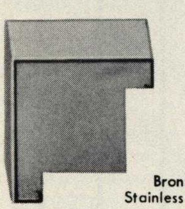
Bronze, Stainless Steel

D-312-K 1$\frac{3}{16}$-in.



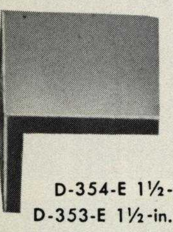
Bronze, Stainless Steel

D-313-K 1$\frac{3}{8}$-in.

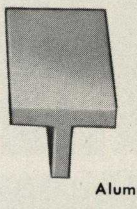


Bronze, Stainless Steel

D-314-K 1$\frac{3}{8}$-in.

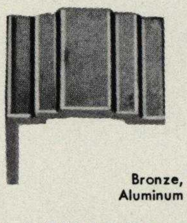


D-354-E 1½-in. (bronze)
D-353-E 1½-in. (aluminum)
D-352-R 1½-in. (stainless steel)



Aluminum

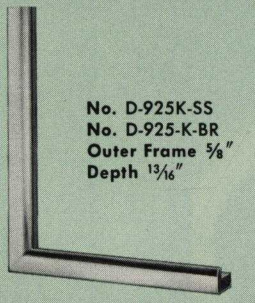
D-430-E 1¼-in.



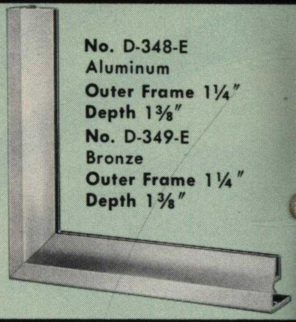
Bronze, Aluminum

D-319-E 1-½in.

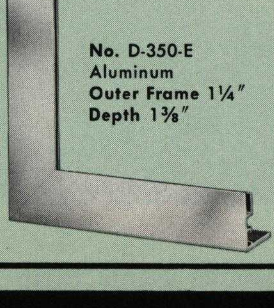
FOR SLIP-IN-STRIP DIRECTORIES ONLY



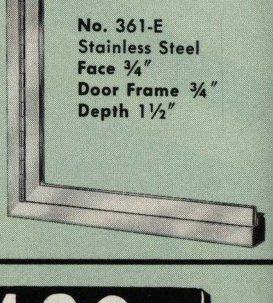
No. D-925K-SS
No. D-925-K-BR
Outer Frame ⅝″
Depth $\frac{13}{16}$″



No. D-348-E
Aluminum
Outer Frame 1¼″
Depth 1⅜″
No. D-349-E
Bronze
Outer Frame 1¼″
Depth 1⅜″



No. D-350-E
Aluminum
Outer Frame 1¼″
Depth 1⅜″



No. 361-E
Stainless Steel
Face ¾″
Door Frame ¾″
Depth 1½″

DUDLEY, C. R., JR.	430
GLASSEL, E. W.	500

STANDARD SIZE DIRECTORY STRIPS

Non-illuminated: No. 1 name strip 7⅛″ x ⅜″.
No. 2 name strip 7⅛″ x ⅝″.
No. 4-A name strip 10⅞″ x ⅝″.

Illuminated: Size 7$\frac{5}{16}$″ x ⅜″ for illuminated directory.

ARCHITECTS' SPECIFICATIONS

For ILLUMINATED and NON-ILLUMINATED SECTIONAL STRIP DIRECTORY

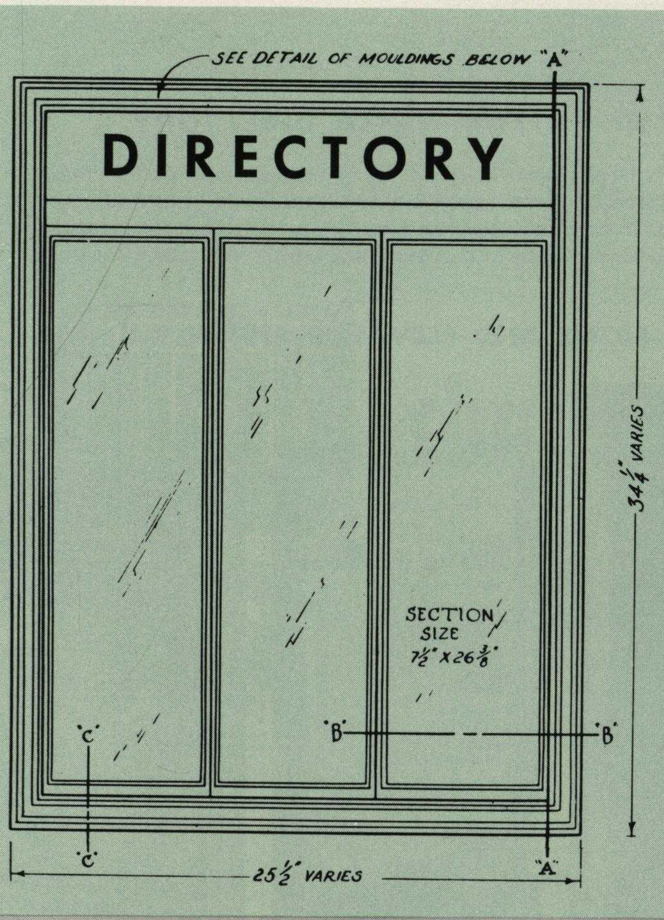
Details of standard illuminated and non-illuminated equipment appear below. Sections may be a single tier as shown or in double or triple tiers, depending on the number of sections and dimensions desired.

Frames are available in extruded or formed metal and kalamein in shapes illustrated on opposite page. Aluminum is available in 319-E, 353-E and D-430-E only; stainless steel, in formed metal and kalamein; bronze in both kalamein and extruded. Metal finish may be brushed or polished. Aluminum may be alumilited. Extruded molding frames may be recessed into the wall by reversing the molding as shown in the sketch of the illuminated section. Standard sections can be furnished for your custom made frames to match moldings or trim on your new construction or remodeling projects.

Sections are made with extruded metal matching the frame. Non-illuminated have a beveled plate glass front and padded removable backboard. Strips are held in channels between the glass and padded backboard assuring perfect alignment. The illuminated section consists of extruded frame, double strength clear glass, opal glass diffusion screen, and a reflector light unit which is individually wired to plug into a wired channel on the frame. A recess or cavity in the wall to 6¾" is required for this type directory. Provision must be made so that the recess is dust proof and where necessary filtered ventilation provided for dissipation of excess heat.

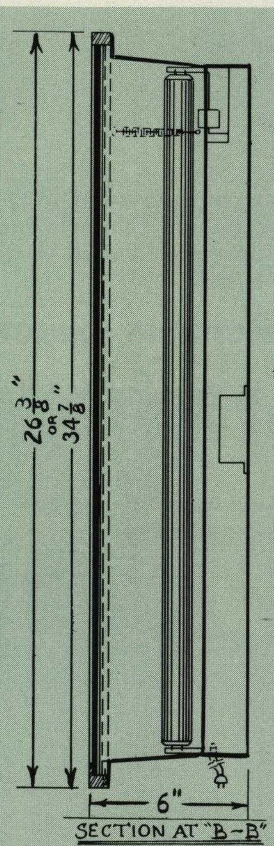
Headings are made in black and white under glass or in color to conform to the name strips. They are also made of cast metal to match the frame or can be illuminated.

The Tablet & Ticket Co. offers the only Complete Building Directory Service available today!


SEE DETAIL OF MOULDINGS BELOW "A"
DIRECTORY
SECTION SIZE 7½" X 26⅜"
34¼" VARIES
"C"
"B"
"B"
"C"
"A"
25½" VARIES

ELEVATION

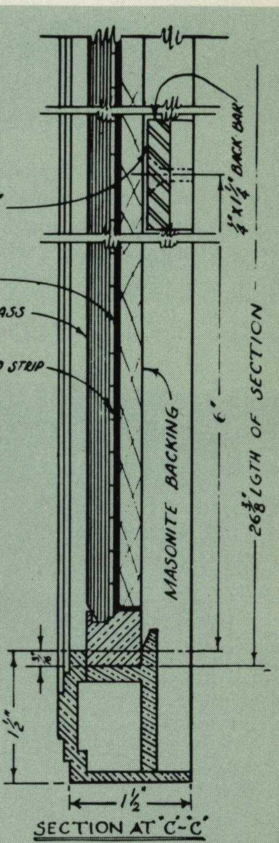
NON-ILLUMINATED



SECTION AT "B-B"

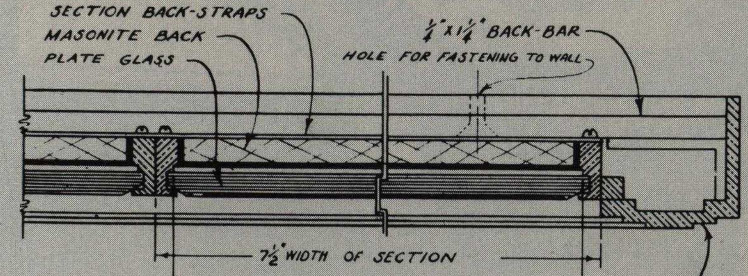
ILLUMINATED

Fluorescent or incandescent


CLEARANCE 1/16"
¼"X1¼" BACK BAR
FELT
PLATE GLASS
⅜" WIDE LETTERED STRIP
MASONITE BACKING
6"
26⅜" LGTH OF SECTION
1½"
1½"

SECTION AT "C-C"

NON-ILLUMINATED


SECTION BACK-STRAPS
MASONITE BACK
PLATE GLASS
¼"X1¼" BACK-BAR
HOLE FOR FASTENING TO WALL
7½" WIDTH OF SECTION
S-319-E MOULDING
7⅛" APPROX. LGTH OF LETTERED-STRIP
BAUER, J.
1535

NON-ILLUMINATED

SECTION AT "B"-"B"

Table below shows number of sections recommended for listing various numbers of names with allowance for alphabet and blank strips.

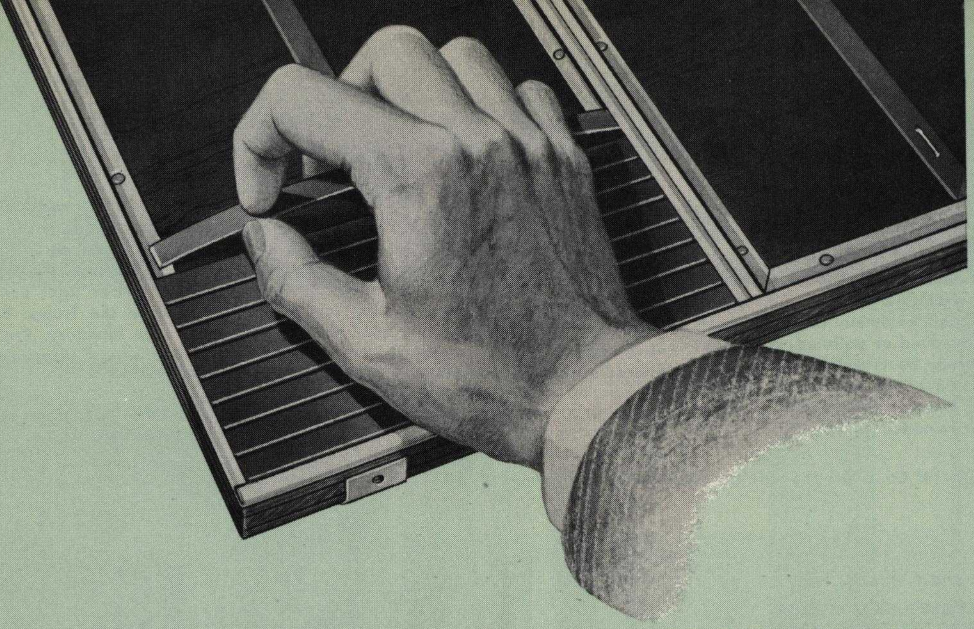
Number of Sections	Height of section in inches			
	18½	26⅜	32⅞	40⅜
3 Sections	50	100	150	200
4 Sections	100	150	200	300
5 Sections	150	200	250	400
6 Sections	175	250	300	500
7 Sections	200	300	400	600
8 Sections		400	500	700
9 Sections		450	550	800
10 Sections		500	650	900

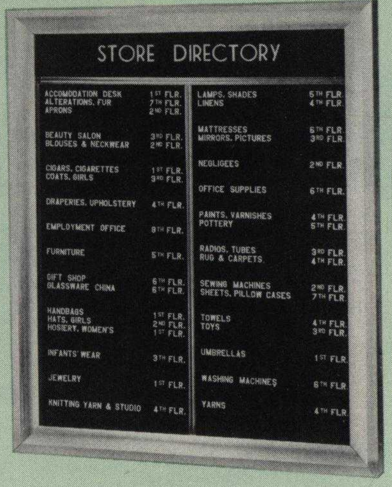
ILLUMINATED SECTIONS AVAILABLE IN HEIGHTS OF 26⅜" AND 34⅞" ONLY

The capacity of individual sections, based on using on No. 1 strip, are as follows.

26⅜" in height—60 strips. 34⅞" in height—85 strips

Non-illuminated strips are usually black with white letters, but are available also in white with black letters or brown with cream letters. Colored strips other than black are not recommended where light can cause fading.

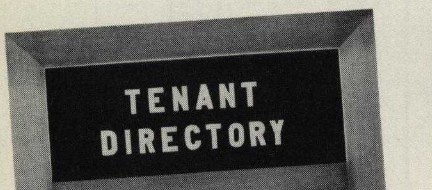



STORE DIRECTORY
ACCOMODATION DESK 1ST FLR.
ALTERATIONS, FUR 7TH FLR.
APRONS 2ND FLR.
BEAUTY SALON 3RD FLR.
BLOUSES & NECKWEAR 2ND FLR.
CIGARS, CIGARETTES 1ST FLR.
COATS, GIRLS 3RD FLR.
DRAPERIES, UPHOLSTERY 4TH FLR.
EMPLOYMENT OFFICE 8TH FLR.
FURNITURE 5TH FLR.
GIFT SHOP 6TH FLR.
GLASSWARE CHINA 6TH FLR.
HANDBAGS 1ST FLR.
HATS, GIRLS 2ND FLR.
HOSIERY, WOMEN'S 1ST FLR.
INFANTS' WEAR 3TH FLR.
JEWELRY 1ST FLR.
KNITTING YARN & STUDIO 4TH FLR.
LAMPS, SHADES 5TH FLR.
LINENS 4TH FLR.
MATTRESSES 6TH FLR.
MIRRORS, PICTURES 3RD FLR.
NEGLIGEES 2ND FLR.
OFFICE SUPPLIES 6TH FLR.
PAINTS, VARNISHES 4TH FLR.
POTTERY 5TH FLR.
RADIOS, TUBES 3RD FLR.
RUG & CARPETS 4TH FLR.
SEWING MACHINES 2ND FLR.
SHEETS, PILLOW CASES 7TH FLR.
TOWELS 4TH FLR.
TOYS 3RD FLR.
UMBRELLAS 1ST FLR.
WASHING MACHINES 6TH FLR.
YARNS 4TH FLR.

SLIP-IN-STRIP—THE EASY CHANGE NON-ILLUMINATED DIRECTORY

T & T Slip-in-Strip Directories are the easiest to change directories available. Strips may be inserted at any point by simply slipping strips in retaining channels and inserting new strip, which can be ordered by mail, at alphabetical points desired. Only name strips to be changed need be disturbed. Ideal for smaller buildings and where self-service is desired. Can be furnished in single or multiple columns and in various heights and name capacities.

FLOOR DIRECTORIES, DIRECTIONAL SIGNS AND ELEVATOR SIGNS


TENANT
DIRECTORY
ABRAHAMS, MRS. A. J. 201
ALEXANDER, J. R.
BARTON, ALBERT 203
BRENT, MRS. R. 401
BRANDENBURG, WALTER 102
CROTHERS, A. C. 102
CULOTTA, CHAS. R. 402
CZARNECKI, ANTHONY 304
DRUMM, FRANKLIN A. 202
EVERETT, JAMES E. 403
FARLEY, JAMES A. 104
FRENCH, ELMER Z. 101
JOHNSON, MARTIN A. 204
LULU, BELLE 303
NORRIS, JAMES A. 301
OPPENHEIM, E. P. 404
PARTRIDGE, GEORGE 405
WILLIAMS, JESSIE 302

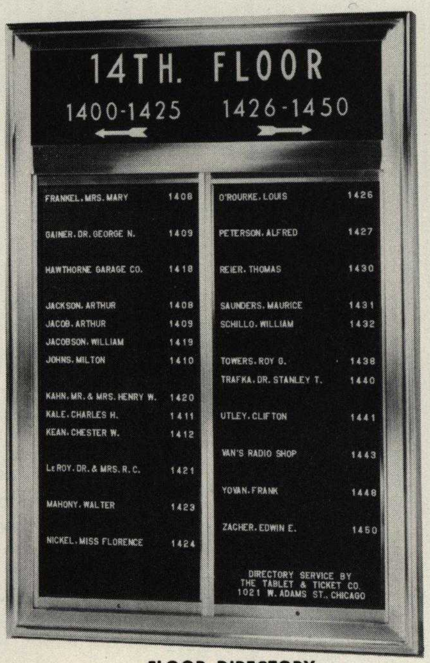
LONG STRIP DIRECTORIES (non-illuminated)

For small office and apartment buildings or individual floor directories.

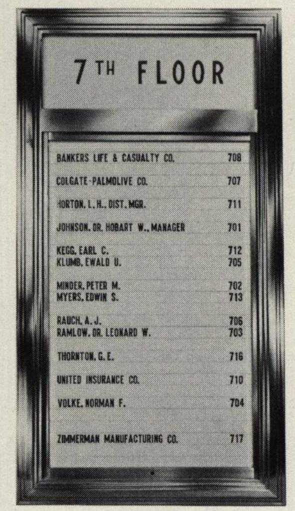
Section size is 11¼″ wide with height of 18½″, 26⅜″, 32⅞″, or 40⅜″. Capacities from 10 to 25 names.

Strip size ⅝″ x 10⅞″ with ½″ letters black with white letters although available in any standard color combination.

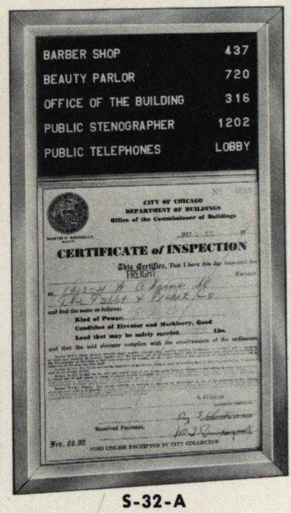
Frame Moldings: D-312-K, D-313-K, D-314-K, D-352-R, D-353-E, D-354-E


14TH. FLOOR
1400-1425
1426-1450
FRANKEL, MRS. MARY 1408
GAINER, DR. GEORGE N. 1409
HAWTHORNE GARAGE CO. 1418
JACKSON, ARTHUR 1408
JACOB, ARTHUR 1409
JACOBSON, WILLIAM 1419
JOHNS, MILTON 1410
KAHN, MR. & MRS. HENRY W. 1420
KALE, CHARLES H. 1411
KEAN, CHESTER W. 1412
LeROY, DR. & MRS. R. C. 1421
MAHONY, WALTER 1423
NICKEL, MISS FLORENCE 1424
O'ROURKE, LOUIS 1426
PETERSON, ALFRED 1427
REIER, THOMAS 1430
SAUNDERS, MAURICE 1431
SCHILLO, WILLIAM 1432
TOWERS, ROY G. 1438
TRAFKA, DR. STANLEY T. 1440
UTLEY, CLIFTON 1441
VAN'S RADIO SHOP 1443
YOVAN, FRANK 1448
ZACHER, EDWIN E. 1450
DIRECTORY SERVICE BY
THE TABLET & TICKET CO.
1021 W. ADAMS ST., CHICAGO

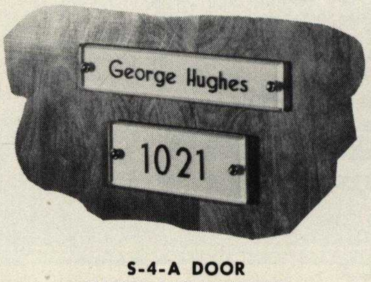
FLOOR DIRECTORY


7TH FLOOR
BANKERS LIFE & CASUALTY CO. 708
COLGATE-PALMOLIVE CO. 707
HORTON, L. H., DIST. MGR. 711
JOHNSON, DR. HOBART W., MANAGER 701
KEGG, EARL C. 712
KLUMB, EWALD U. 705
MINDER, PETER M. 702
MYERS, EDWIN S. 713
RAUCH, A. J. 706
RAMLOW, DR. LEONARD W. 703
THORNTON, G. E. 716
UNITED INSURANCE CO. 710
VOLKE, NORMAN F. 704
ZIMMERMAN MANUFACTURING CO. 717

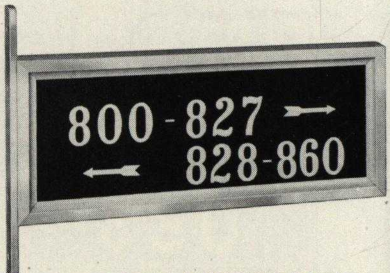
INDIVIDUAL FLOOR DIRECTORY
So necessary in automatic elevator buildings.


BARBER SHOP 437
BEAUTY PARLOR 720
OFFICE OF THE BUILDING 316
PUBLIC STENOGRAPHER 1202
PUBLIC TELEPHONES LOBBY
CITY OF CHICAGO
DEPARTMENT OF BUILDINGS
CERTIFICATE of INSPECTION

S-32-A ELEVATOR LICENSE AND DIRECTORY SIGN


George Hughes
1021

S-4-A DOOR NAMES AND NUMBERS
For solid doors.

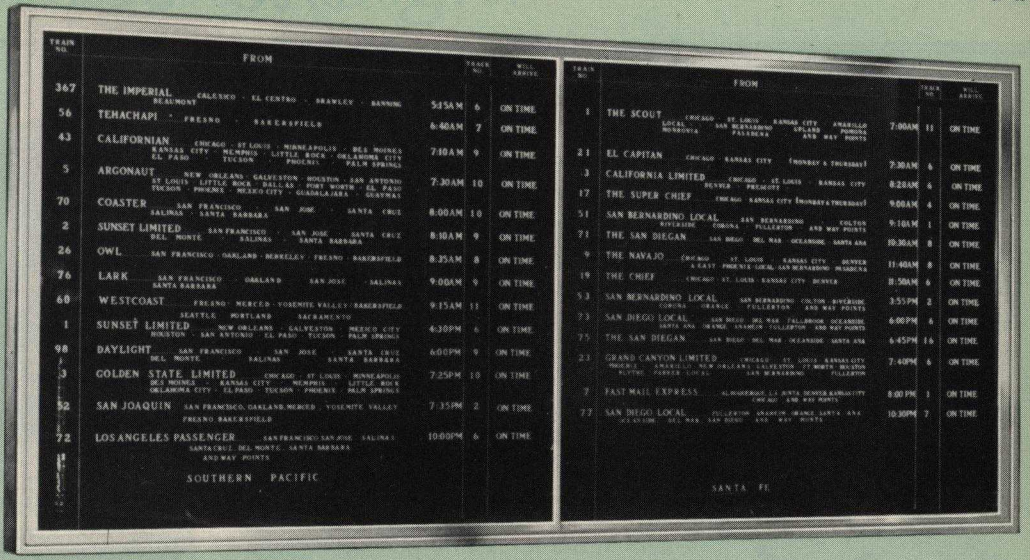

800-827
828-860

S-26-A ALUMINUM ROOM DIRECTIONAL SIGNS
Single and Double Face.

THE TABLET & TICKET CO.
Executive Office: 1021 West Adams Street, Chicago 7, Illinois
NEW YORK • SAN FRANCISCO • LOS ANGELES
Sales Representative in Principal Cities

COPYRIGHT 1959
THE TABLET & TICKET CO.

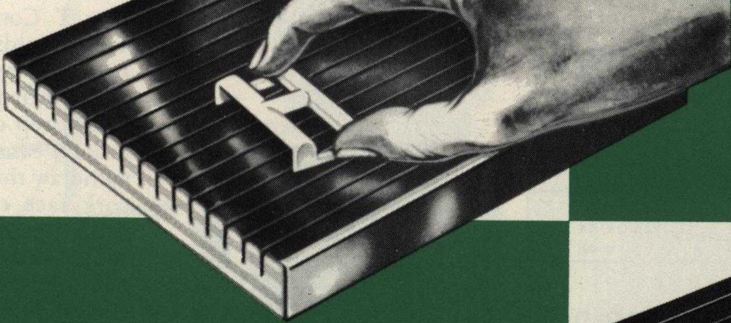
T & T Changeable Letter Signs are consistently selected by business and institutions that have daily messages, selections, prices and services to announce in the neatest and most forceful way possible. Modern in design and available in numerous sizes, types of construction and background colors, T & T Changeable Letter Signs can be furnished to blend with any surroundings. Sign at right has sliding doors.

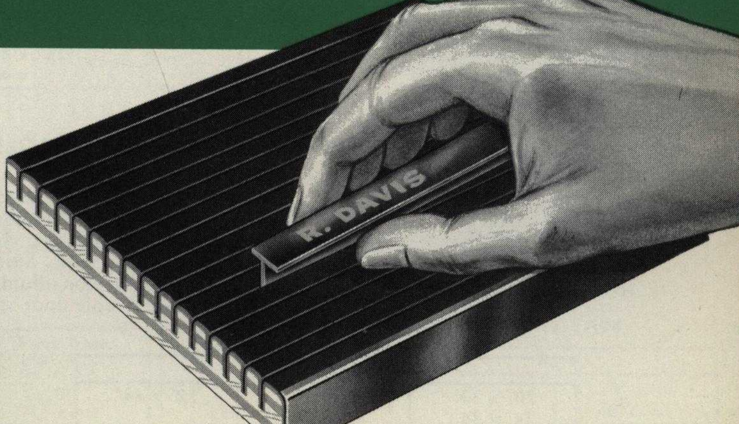

TRAIN NO.
FROM
TRACK NO.
WILL ARRIVE
367 THE IMPERIAL CALEXICO · EL CENTRO · BRAWLEY · BANNING BEAUMONT 5:15AM 6 ON TIME
56 TEHACHAPI · FRESNO · BAKERSFIELD 6:40AM 7 ON TIME
43 CALIFORNIAN 7:10AM 9 ON TIME
5 ARGONAUT 7:30AM 10 ON TIME
70 COASTER SAN FRANCISCO · SAN JOSE · SANTA CRUZ SALINAS · SANTA BARBARA 8:00AM 10 ON TIME
2 SUNSET LIMITED 8:10AM 9 ON TIME
26 OWL SAN FRANCISCO · OAKLAND · BERKELEY · FRESNO · BAKERSFIELD 8:35AM 8 ON TIME
76 LARK SAN FRANCISCO · OAKLAND · SAN JOSE · SALINAS SANTA BARBARA 9:00AM 9 ON TIME
60 WESTCOAST 9:15AM 11 ON TIME
1 SUNSET LIMITED 4:30PM 6 ON TIME
98 DAYLIGHT 6:00PM 9 ON TIME
3 GOLDEN STATE LIMITED 7:25PM 10 ON TIME
52 SAN JOAQUIN 7:35PM 2 ON TIME
72 LOS ANGELES PASSENGER 10:00PM 6 ON TIME
SOUTHERN PACIFIC
1 THE SCOUT 7:00AM 11 ON TIME
21 EL CAPITAN 7:30AM 6 ON TIME
3 CALIFORNIA LIMITED 8:20AM 6 ON TIME
17 THE SUPER CHIEF 9:00AM 4 ON TIME
51 SAN BERNARDINO LOCAL 9:10AM 1 ON TIME
71 THE SAN DIEGAN 10:30AM 8 ON TIME
9 THE NAVAJO 11:40AM 8 ON TIME
19 THE CHIEF 11:50AM 6 ON TIME
53 SAN BERNARDINO LOCAL 3:55PM 2 ON TIME
73 SAN DIEGO LOCAL 6:00PM 6 ON TIME
75 THE SAN DIEGAN 6:45PM 16 ON TIME
23 GRAND CANYON LIMITED 7:40PM 6 ON TIME
7 FAST MAIL EXPRESS 8:00 PM 1 ON TIME
77 SAN DIEGO LOCAL 10:30PM 7 ON TIME
SANTA FE

T&T changeable letter signs

SINCE 1870

The new embossed PLASTIC NAME BASES are molded of tenite and produced by a special T&T process. They can be used on any changeable letter board converting it to a directory. METAL NAME BASES with cast metal letters also available.

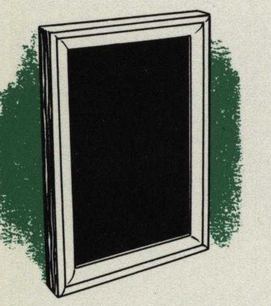




T & T Changeable Letter Signs can be set up quickly and easily by any one. The flanged letters and figures are automatically aligned when inserted in the grooved background assuring straight, evenly spaced copy that is neat and orderly in appearance—pleasing to the eye.

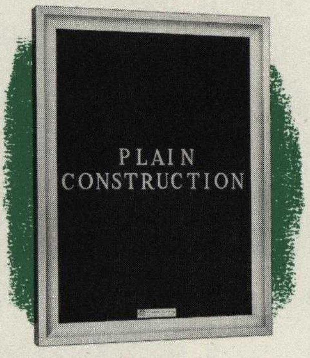
the basic types of

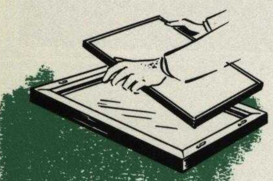
INDOOR SIGNS AND DIRECTORIES



Style No. S-110 — PLAIN CONSTRUCTION

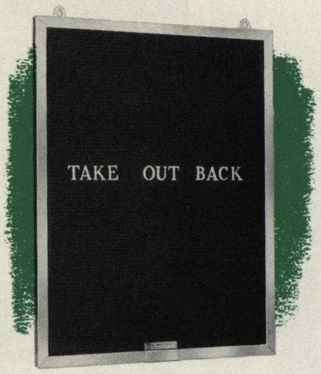
This type of sign is the simplest, lightest, least expensive and the most adaptable of any sign construction. It consists of a grooved, cork or chalk board composition background with a molding of metal channel, wood, or kalamein.*

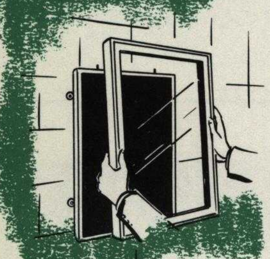




Style No. S-120 — TAKE OUT BACK CONSTRUCTION

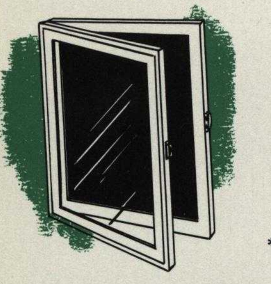
This is the least expensive of the glass covered signs. It can be displayed in congested areas or in a position that would be awkward for a a swinging door because it is light enough to be easily removed to any convenient place where the background may be taken out and the sign lettered without interference from traffic. It is equipped with hangers for fastening to the wall. The outer frame may be metal channel, wood, or kalamein* molding.





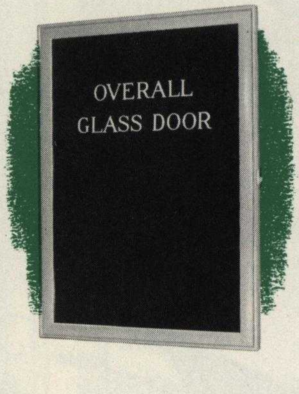
Style No. S-125 — REMOVABLE FRONT CONSTRUCTION

This style of sign is also available with a REMOVABLE FRONT. The grooved background remains fastened to the wall while the REMOVABLE FRONT is easily removed for quick copy changes.



Style No. S-130 — OVERALL GLASS DOOR CONSTRUCTION

This is the most popular of all glass covered signs. Protection against dust aud dirt, and against tampering is afforded by this style of construction. A glazed door is hinged against a backframe that holds the cork or grooved background. It is available with lock and key if desired and in wood or kalamein* moldings.



*Kalamein is metal drawn over a wood core.

S-188 STYLE
FORMED
STAINLESS STEEL

Style No. S-188 — LEAST EXPENSIVE GLASS DOOR STAINLESS STEEL SIGN

20 gauge, 316 type alloy, 1-3/16″ stainless steel molding with 1½″ depth, brushed finish. Inset door, piano hinge, D S A glass, with lock. Non-removable background grooved, cork or combination grooved and cork. Non-illuminated. Single door only.

Sizes	
20″ x 30″ 24″ x 36″ 28″ x 40″	30″ x 36″ 32″ x 44″ 36″ x 48″

Style No. S-189 — AVAILABLE IN 361-E MOLDING

Rolled stainless steel molding, ¾″, 20 gauge, 316 style alloy, brushed finish. Inset door, piano hinge, D S A glass. Lock in door. Removable background of grooved, cork, or combination grooved and cork. Surface or flush recess mounting. Non-illuminated. Available in single or double door styles in the following sizes:

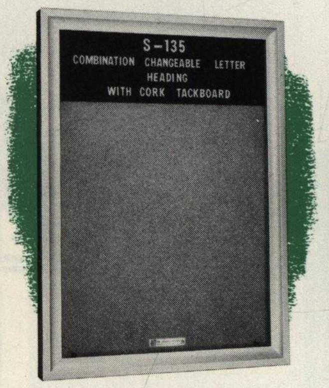
S-189 STYLE
STAINLESS STEEL
SIGN

Single Door: Sizes		
20″ x 30″ 24″ x 36″	28″ x 40″ 30″ x 36″	32″ x 44″

Double Door: Sizes	
48″ x 24″ 48″ x 36″	60″ x 36″ 72″ x 48″

Style No. S-186 DELUXE CONSTRUCTION

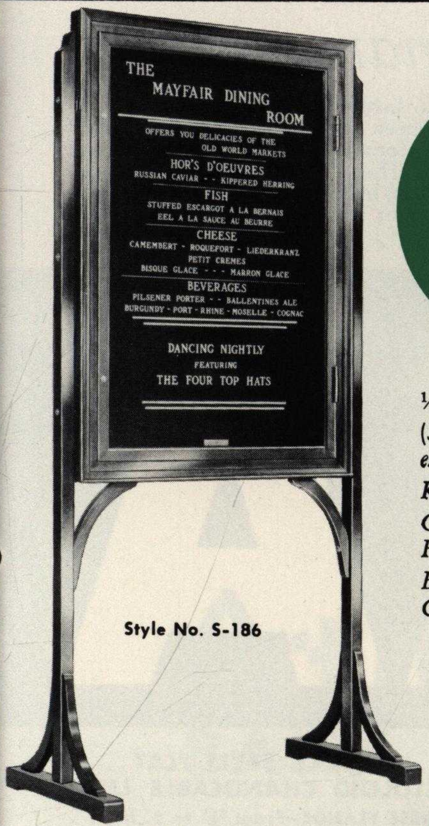
The T & T DeLuxe Sign combines unusually attractive appearance with utility. The wide variety of frame materials and background colors make it possible to select the combination that will blend with and more than complement any surroundings. This style features a set-in door with lock and is available with or without heading bar. It can be had in wood, kalamein, extruded bronze, nickel or aluminum molding and either grooved or cork background or a combination of the two. It may be hung on the wall or mounted on standards.



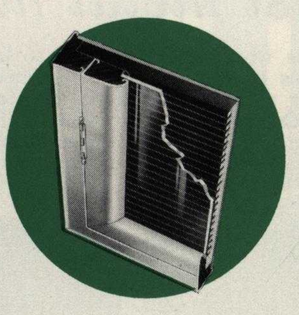
T & T DEEP-CORK TACK BOARDS

T & T Cork Background Tack Boards are made of ¼ inch cork sheet cemented to ⅜ inch plywood back. Extra deep cork is used to make it easier to insert and withdraw thumb tacks. The cork face can be had in either green, natural cork color or covered with various colors of wool broadcloth if desired. Deep-Cork Tack Boards can be furnished with any T & T Changeable Letter Sign Frames. Combination grooved board and tack board backgrounds in one frame are also available.

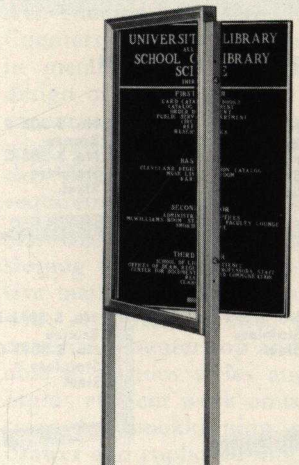
changeable letter signs

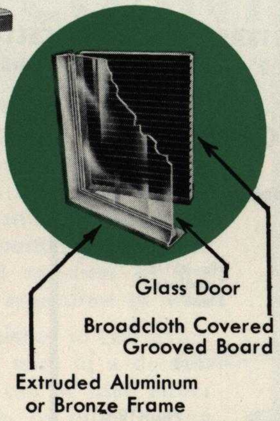

THE
MAYFAIR DINING
ROOM
OFFERS YOU DELICACIES OF THE
OLD WORLD MARKETS
HOR'S D'OEUVRES
RUSSIAN CAVIAR - - KIPPERED HERRING
FISH
STUFFED ESCARGOT A LA BERNAIS
EEL A LA SAUCE AU BEURRE
CHEESE
CAMEMBERT - ROQUEFORT - LIEDERKRANZ
PETIT CREMES
BISQUE GLACE - - - MARRON GLACE
BEVERAGES
PILSENER PORTER - - BALLENTINES ALE
BURGUNDY - PORT - RHINE - MOSELLE - COGNAC
DANCING NIGHTLY
FEATURING
THE FOUR TOP HATS

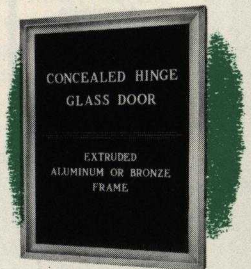
Style No. S-186

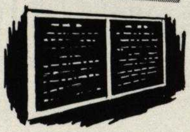


¼ inch Plywood Back.
(Steel back used with extruded moldings.)
Kalamein Outer Frame.
Glazed Kalamein Door Frame.
Broadcloth Covered Grooved Background.


UNIVERSIT LIBRARY
SCHOOL LIBRARY
SCI


Glass Door
Broadcloth Covered
Grooved Board
Extruded Aluminum
or Bronze Frame


CONCEALED HINGE
GLASS DOOR
EXTRUDED
ALUMINUM OR BRONZE
FRAME



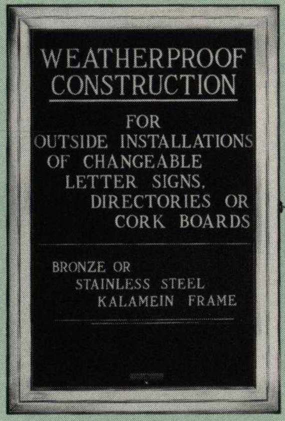
Double Door S-135

Style No. S-135 and No. S-136
CONCEALED HINGE GLASS DOOR

Here is a sign of distinctive design at surprisingly low cost. Glass door swings on concealed hinges. Interior locks open easily and quickly. Can be furnished in extruded aluminum or bronze frame with grooved background for changeable letters or plastic flange name strips or with cork background.

Style S-135 available only in S-348-E aluminum or S-349-E bronze molding. Style S-136 same construction available in S-350-E aluminum molding only.

OUTDOOR SIGNS AND DIRECTORIES


WEATHERPROOF
CONSTRUCTION
FOR
OUTSIDE INSTALLATIONS
OF CHANGEABLE
LETTER SIGNS,
DIRECTORIES OR
CORK BOARDS
BRONZE OR
STAINLESS STEEL
KALAMEIN FRAME

Style No. S-145

Sizes		
20″ x 30″ 24″ x 36″	28″ x 40″ 32″ x 44″	36″ x 48″

DIRECTORY
S-149 STYLE
EXTRUDED ALUM.
OUTDOOR SIGN

Style No. S-149
Single Face
and
Style No. S-150
Double Face

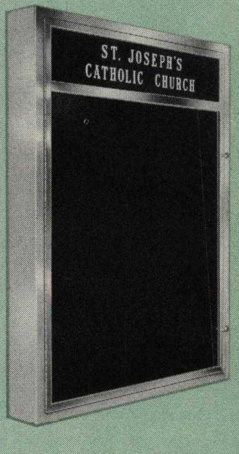
Sizes for S-149 and S-150	
20″ x 30″ 24″ x 36″	28″ x 40″ 36″ x 48″

HEADING
WITH OR WITHOUT GABLE
ILLUMINATED OR NON-ILLUMINATED
BRONZE OR STAINLESS
STEEL KALAMEIN
STYLE 148

Style No. S-148

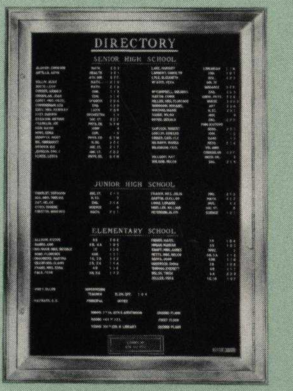
Sizes with gable
35½″ x 57½″

Sizes without gable (Flat Top)		
40″ x 28″	44″ x 32″	48″ x 36″


ST. JOSEPH'S
CATHOLIC CHURCH

Style No. S-177

Sizes	
20″ x 30″ 24″ x 36″	28″ x 40″ 32″ x 44″


DIRECTORY
SENIOR HIGH SCHOOL
JUNIOR HIGH SCHOOL
ELEMENTARY SCHOOL

Style No. S-185

Sizes from	Available in Double Door only
20″ x 30″ to 36″ x 48″	48″ x 48″ to 72″ x 48″

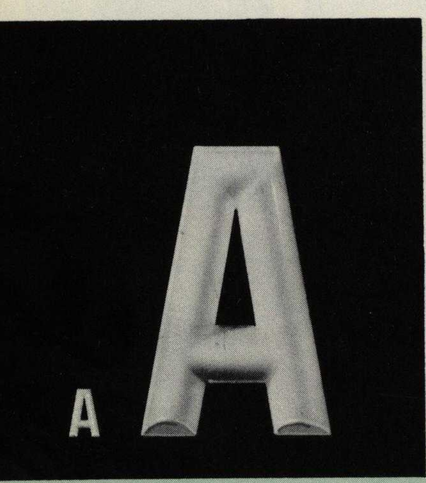
Style No. S-178

Sizes	
20″ x 30″ 24″ x 36″	28″ x 40″ 36″ x 48″

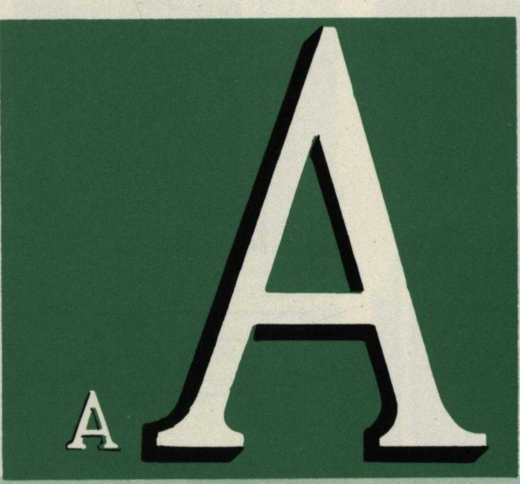
T&T *changeable letters, flange plastic strips and cast metal nameplates*

T & T Changeable Letters and Figures are of three types—die cut and formed flat celluloid, injection molded plastic and precision cast metal. Smooth rounded line-up flanges will not wear or scuff broadcloth covering.

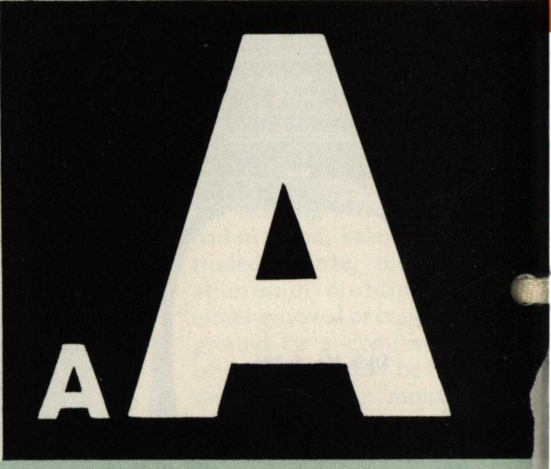
Also available, but not shown here, are Flanged Plastic T Bases which make it easy to insert or remove one or more names or words at a time. These are ideal where changeable letter signs are used as directories. Also not illustrated are the Cast Metal Word Plates. These can be made up in the seven sizes of metal letters shown below. Metal Word Plates are recommended for menu boards, or are excellent for headings.



MOLDED PLASTIC CHANGEABLE LETTERS
DOUBLE FLANGE—From ¼″ to 1½″ high



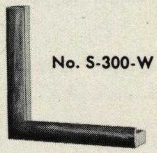
CAST METAL CHANGEABLE LETTERS
SINGLE FLANGE—From ¼″ to 2″ high



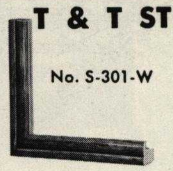
BLOCK STYLE FLAT CELLULOID CHANGEABLE LETTERS
DOUBLE FLANGE—From ⅜″ to 2″ high

T & T STOCK MOLDINGS

WOOD MOLDINGS:



No. S-300-W



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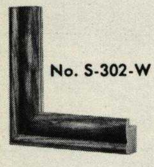
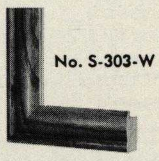
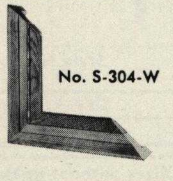


No. S-302-W

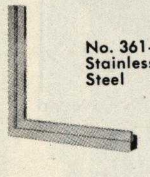


No. S-303-W

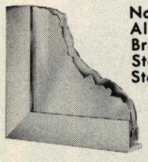


No. S-304-W

SPECIAL MOLDINGS:

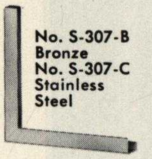


No. 361-E
Stainless
Steel

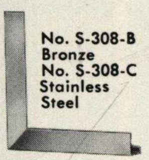


No. 419-E
Aluminum,
Bronze,
Stainless
Steel

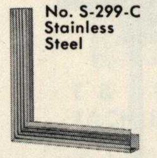
CHANNEL MOLDINGS:



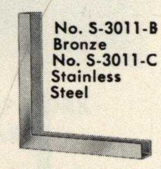
No. S-307-B
Bronze
No. S-307-C
Stainless
Steel



No. S-308-B
Bronze
No. S-308-C
Stainless
Steel

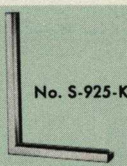


No. S-299-C
Stainless
Steel

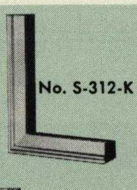


No. S-3011-B
Bronze
No. S-3011-C
Stainless
Steel

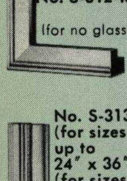
KALAMEIN MOLDINGS:



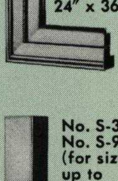
No. S-925-K



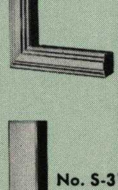
No. S-312-K



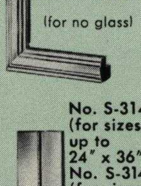
No. S-312-K
(for no glass)



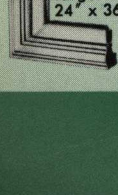
No. S-312-K
(for sizes up to 24″ x 36″)
No. S-279-K
(for sizes larger than 24″ x 36″)



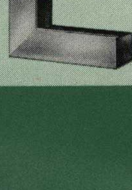
No. S-313-K



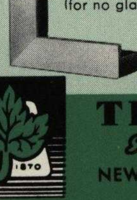
No. S-313-K
(for no glass)



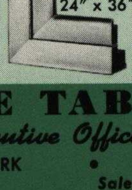
No. S-313-K
(for sizes up to 24″ x 36″)
(for sizes larger than 24″ x 36″)



No. S-314-K
No. S-991-K
(for sizes up to 30″ x 36″)

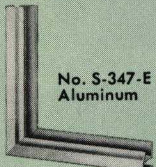


No. S-314-K
(for no glass)

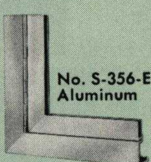


No. S-314-K
(for sizes up to 24″ x 36″)
No. S-314-K
(for sizes larger than 24″ x 36″)

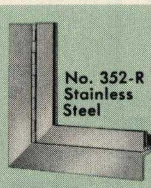
EXTRUDED MOLDINGS:



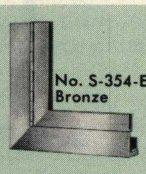
No. S-347-E
Aluminum



No. S-356-E
Aluminum

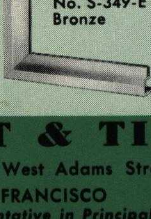


No. 352-R
Stainless
Steel

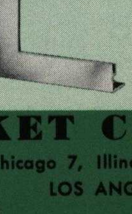


No. S-354-E
Bronze

No. S-353-E
Aluminum



No. S-348-E
Aluminum
No. S-349-E
Bronze



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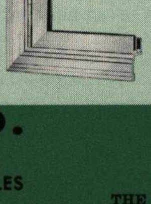
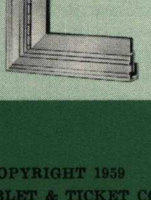
Aluminum



No. S-319-E
Aluminum



No. S-319-E
Bronze

THE TABLET & TICKET CO.
Executive Office: 1021 West Adams Street, Chicago 7, Illinois
NEW YORK • SAN FRANCISCO • LOS ANGELES
Sales Representative in Principal Cities

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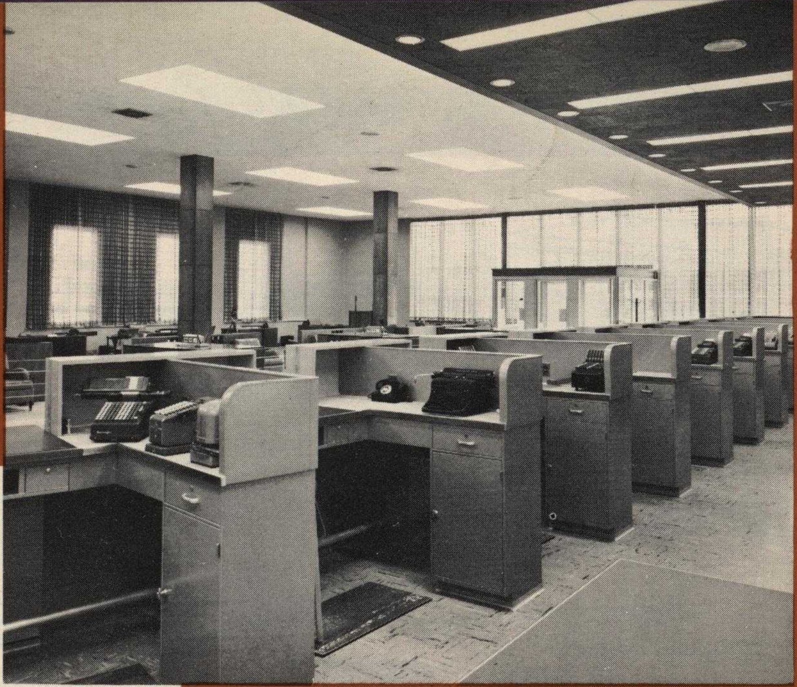
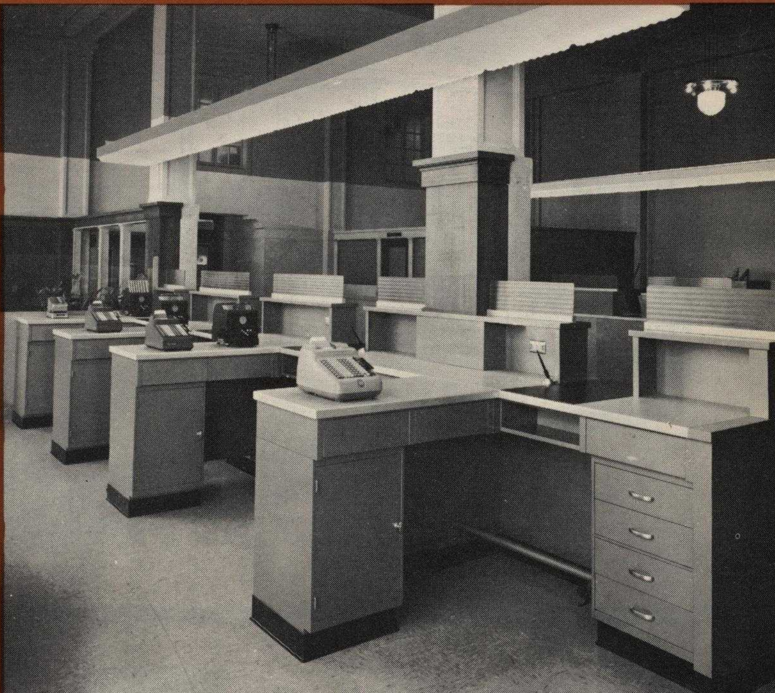
THE TABLET & TICKET CO.

RIGHT—
Teller side of counter at the Seneca Bank and Trust Co.

BELOW—
Teller side of counters at the First National Bank, Liberty, Mo.



Art Metal MODULAR BANK COUNTERS and EQUIPMENT



Art Metal's complete line of Modular Bank Counters, coupled with over 70 years experience in metal, offers exceptional possibilities in the design of bank interiors. With a wide flexibility of arrangement, Art Metal standard equipment with optional treatment of the counter front makes this line the most economical solution to the requirements of any bank . . . regardless of size.

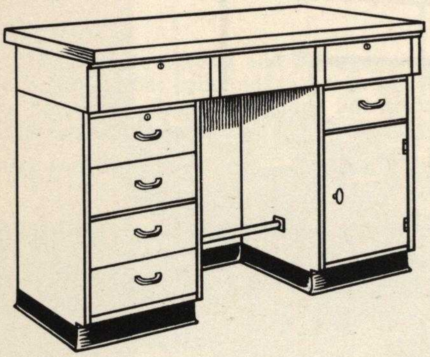
Standard counter fronts are furnished in two styles, sloping or vertical, with fluted trim in a decorative metal. Counter assemblies can be used either with Art Metal fronts, marble, or other facing material. Counter top and pedestal units are available in various styles and combinations to form highly efficient work units. They include well sections for bookkeeping machines, counter safes, drawer and cupboard units, currency storage units. The 25″ counter work depth provides ample space for coin and calculating machines.

Three complete Art Metal desk lines, "Correct Seating" office chairs, and distinctive guest furniture provide inviting officers' quarters and public lounges. In addition, Art Metal has unusual facilities and experience in planning vault storage equipment, custom-built counters, check desks, and other items to satisfy special requirements.

Art Metal
Jamestown, New York
U.S.A.

ART METAL CONSTRUCTION COMPANY • JAMESTOWN, NEW YORK

Art Metal MODULAR BANK COUNTER ASSEMBLIES



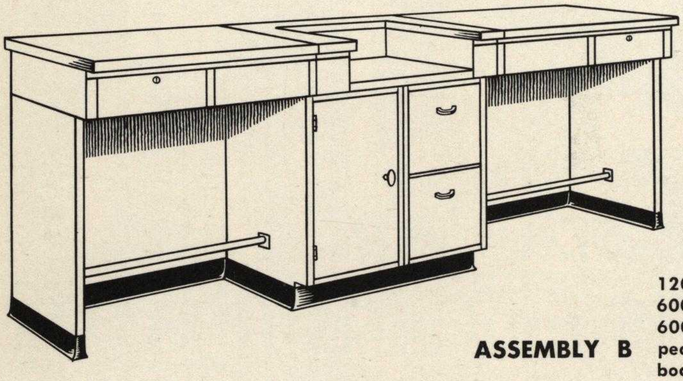
ASSEMBLY A

60″ unit. Style 600-A1 Counter Top with Styles 600-C1 (left) and 600-D1 (right) pedestal units Foot rest.

600 LINE counters are based on standard 60″ wide modules which, in combination, are readily adapted to any bank floor plan . . . any customer service requirement. These standard counters are so flexible in design, they can be easily regrouped *or* rearranged to accommodate future expansions or remodeling. The Machine Well Counter Top in Assembly B combines with two Style 600-A3 Counter Tops to form a 120″ double unit. Additional flexibility is provided by 90° and 135° Corner Units.

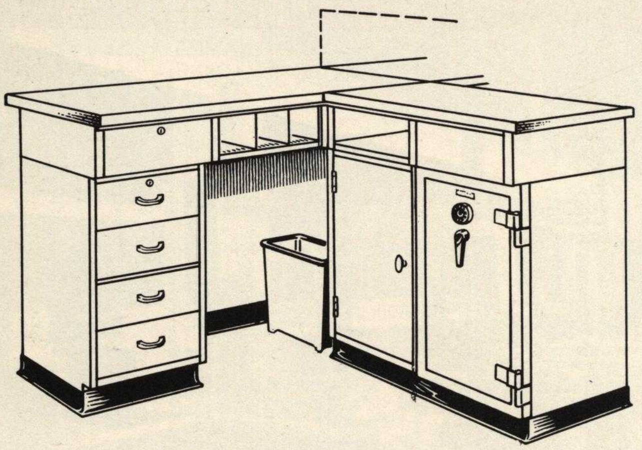
Standard counter tops are linoleum covered. A continuous linoleum top may be ordered to cover the entire counter. Also available are two-color linoleum tops with the customer side in one color . . . the work area in another. Standard bindings and trim are aluminum.

Other features include Style 600-A4 Front Counter Machine Well with special sliding machine shelf. Style 650-A1 Tellers' Bus can be placed under counter aprons by adding a Finished End Counter Support to either front or side counter. It can be used in Assembly B by omitting foot rests. See specifications for additional features. Consult Art Metal Bank Equipment Catalog for complete data.



ASSEMBLY B

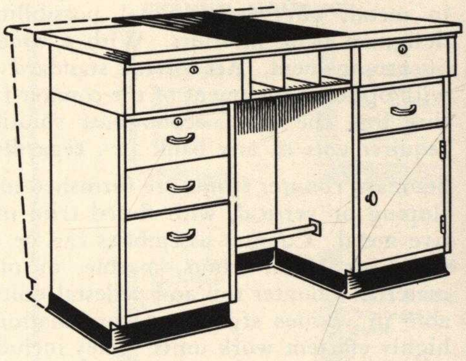
120″ assembly consisting of two Style 600-A3 Counter Tops and one Style 600-A4 Machine Well Top. Center pedestal group has Style 600-E2 Cupboard and 600-C1 unit with two No. 060545 inserts. Counter Top has Style 600-F1 Finished End Supports. Foot rests.



Note use of Art Metal Style 138 Wastebasket with Assembly K. Guard rails, 10″ high, can be used to give separation for each teller station on both front and side counter tops.

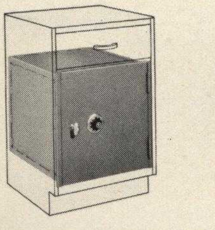
ASSEMBLY K

60″ unit. Style 600-A6-1 Front Counter Top with Style 600-C1 pedestal unit. Style 600-B1 Side Counter Top with 600-E1 Cupboard and Safe Style 600-K1. Guard Rail (broken lines on top).



ASSEMBLY E

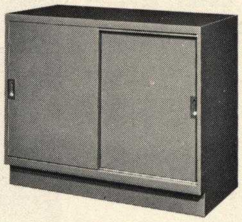
60″ unit. Style 600-A5 Counter Top, flush counter-sunk deal plate with pedestal units 600-C1 with one No. 060545 insert (left) and 600-D1 (right). Foot rest. Broken lines indicate sloping front.



STYLE 600-Y1
Bulk Currency Storage Unit. Used in Style 600-D1 indicated by outline.

STYLE 650-A1
Tellers Cash Bus.

STYLE 630-A50-1
Single Box Drawer mounted on Style 600-D1 Drawer and Cupboard Unit.



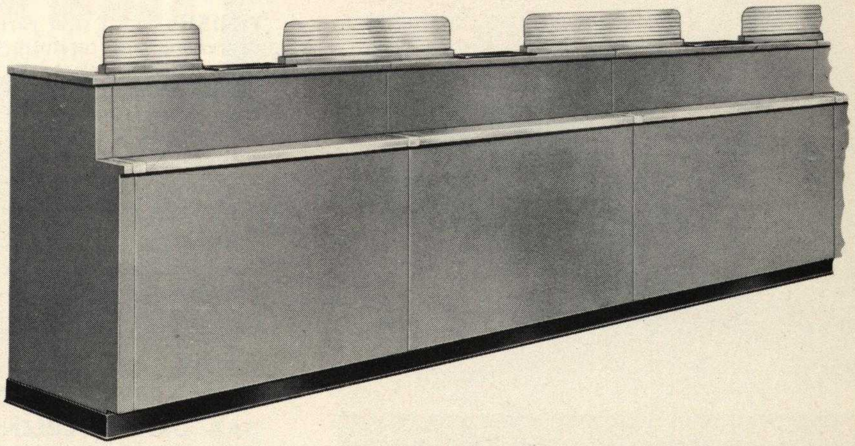
STYLE 600-E5
Double Cupboard with sliding doors.

PEDESTAL UNITS

Art Metal drawer and cupboard units are placed under the top counter sections and provide required storage space for tellers. All units are equipped with a recessed toe space faced with 4″ high black rubber cover base. Four 2″ long leveling bolts are furnished with each unit providing for convenient leveling on uneven floors.

Art Metal COUNTER FRONTS

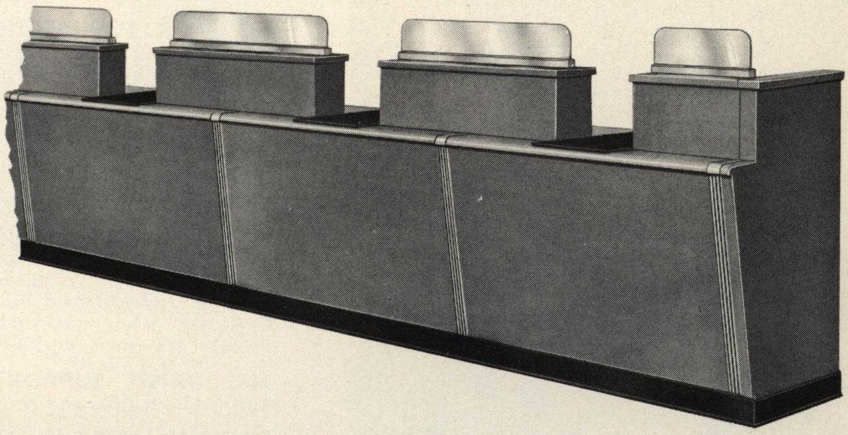
Art Metal Counter Fronts are assembled in 60″ modules and consist of sloping or vertical fronts, superstructures and screens. Counter fronts may be plain or decorated with fluted metal moldings. If desired, marble, wood or plastic fronts may be procured.



SUPERSTRUCTURES, SCREENS, WICKETS

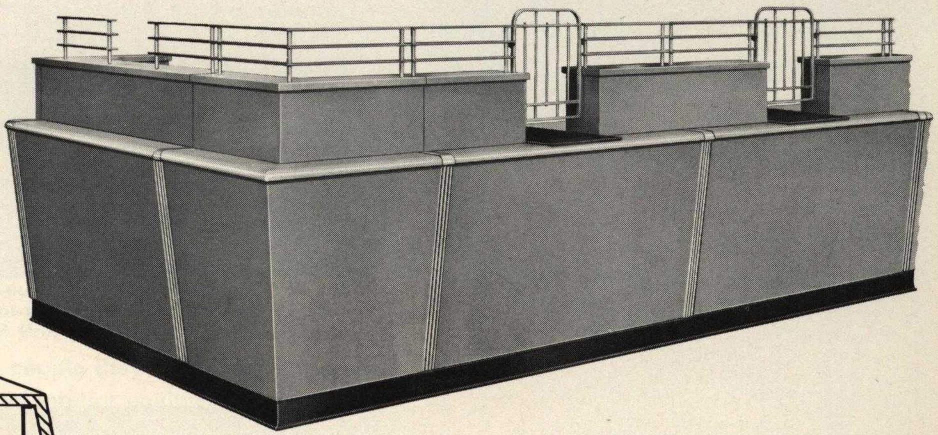
Superstructures are made in five lengths and four corner styles to fit any counter layout. By using these standard styles, either ledge or counter-height teller stations may be provided. Superstructures at tellers' openings have return ends for protection of currency and papers on counter top. Double wall construction provides space for concealed wiring and outlets. If desired, tops may be linoleum-covered and edged with a metal binding.

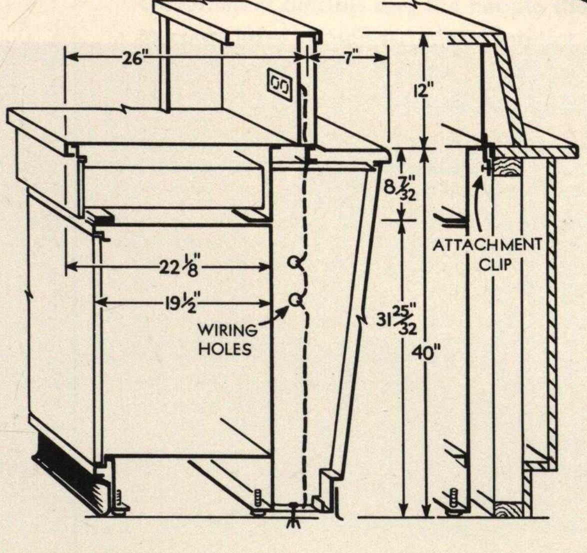
Where wickets are required, Art Metal offers both high and low types. (Style 600-W1 High Wicket shown on counter at lower right.) Any one of three screen styles—clear glass, fluted glass, and bar grille screens in aluminum or bronze—may be used on the superstructure.



COUNTER DEAL PLATES

Glass or steel deal plates are mounted on top of the counter or the ledge and run the full length and width of the teller's window. Ledge style deal plate used on counter front at top. Counter height deal plate shown on counter at lower right.

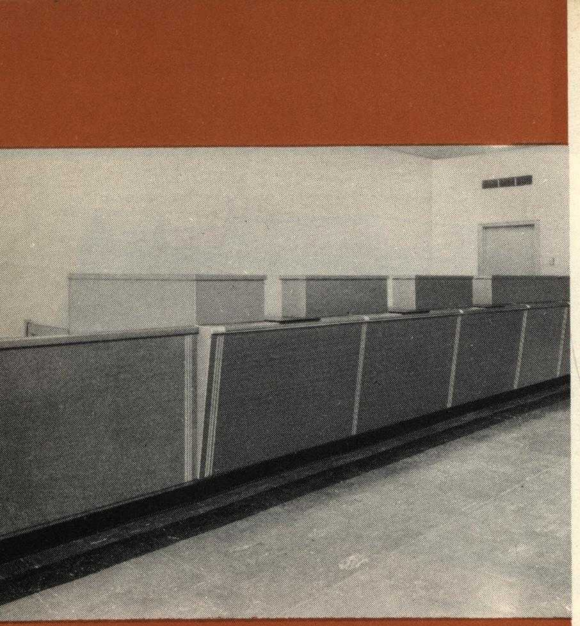




BANK COUNTER – SECTIONAL VIEWS

Assembly procedure is simplified by factory located screw holes which insure accurate alignment of units. Leveling bolts adjust pedestal heights. The complete section shows the ample provision for concealed electric wiring with double wiring holes in each front counter support and wiring holes in ends of all superstructure sections. Electrical cut-outs are made in superstructure back panels when specified.

The partial section illustrates the use of marble or other fronts with Art Metal counter assemblies. Attachment clips, bolted or screwed-on furnish a ready means of connection and offer complete flexibility in design of counter fronts.



Slope Counter Front at the Lakewood, N. Y. Branch of the First National Bank, Jamestown, N. Y.

Teller Side of counter showing three teller stations, Lakewood, N. Y. Branch of the First National Bank, Jamestown, N. Y.

WRITE FOR—
Your copy of complete catalog on Art Metal Modular Bank Counters.

Specifications

MATERIAL — All finished units shall be made of patent-leveled, furniture quality steel. Interior framing and reinforcing members shall be rolled or formed shapes. Gauges are U. S. Standard except as noted.

FINISH — All steel parts shall be thoroughly cleaned by hot vapor and spray degreasing, and carefully wiped with clean cloths when dry. All parts shall be immediately protected by rust inhibitive primer. Prime coat shall be baked, inspected and filled where needed. When dry, finished surfaces shall be sanded, cleaned and sprayed with full-bodied enamel coat and baked. Bronze surfaces shall have a fine brush finish protected by a coat of clear lacquer. Aluminum surfaces shall have a rubbed finish, cleaned and alumilited thoroughly.

All hardware shall be polished to a satin finish and protected with a coat of high grade clear lacquer.

COUNTER FRONTS — Shall be made of 18 ga. steel. Front panel shall be securely anchored. All vertical joints to be concealed with recessed aluminum or bronze fluted trim. Counter tops shall be linoleum covered with metal binding. Superstructure shall have double walls of 18 ga. steel, with space for wiring and outlets, and securely fastened to counter.

GLASS SCREENS — Shall be of 1/4" clear or fluted glass, exposed edges polished, and set in bronze or aluminum channels secured to superstructure.

BAR GRILLE SCREENS, Aluminum or Bronze — Shall have 3/8" x 2 1/2" rails and 3/4" dia. vertical tubings anchored by 1/4" steel tie rods.

COUNTER TOP SECTIONS — Containing cash and box drawer shall be self contained to permit interchangeability. Top shall be #14 ga., front apron #13 ga., backs, ends, and intermediate member #18 ga. Top covered with not less than .08 ga. desk grade linoleum. Front edge to have metal binding with concealed fastening. Continuous linoleum over two or more units if specified.

DEAL PLATES — Shall be 3/8" black carrara glass, honed finish, or 3/8" plate glass (frosted bottom) with chamfered edges, or 3/32" thick chrome nickel steel deal plate with #4 polish or 1/8" thick Formica with color as specified.

DRAWER AND CUPBOARD UNITS — Uprights, base and cupboard shelves #18 ga., top, back #20 ga. Drawer heads of #20 ga. to be flat, with edges formed to 7/16" thickness. Drawer bottom and sides of #24 ga. formed in one piece. Cupboard doors of #20 ga. with channel stiffner and provided with latch, lock when specified. Shelf adjustable 1" on centers. Each unit to have recessed toe space and four 2" long leveling bolts.

END PANEL SUPPORTS — Shall be made of double wall, 18 ga. panels, finished both sides and reversible. Each panel has two 2" leveling bolts.

FINISHED ENDS — For covering end of counter front, counter and superstructure, to be of #18 ga. with #18 ga. top rail, securely fastened to counter and front.

RUBBER BASE — Of 4" high black rubber. Shall be furnished for both public and work sides of counter units.

KNEE SPACE BACK PANELS — Knee space under counter to be provided with #18 ga. back panel and 1 1/4" steel pipe foot rest.

LOCKS — Cash drawers only shall be furnished with paracentric key lock which can be masterkeyed. Drawer base units may have individual drawer or unit locks.

SUSPENSIONS — "Easy Roll" Ball-Bearing Suspensions shall be furnished for all standard drawers in base units. Side-Arm Ball-Bearing Roller Suspensions shall be furnished for all counter-top drawers. Side-Arm Suspension and drawer is interchangeable with Easy-Roll Suspension and drawer.

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410 Asylum Street
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2515 South Yates Ave.

NEWARK 2, N. J.
15 William Street
NEW YORK CITY 13, N. Y.
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PHILADELPHIA, PA.
401 N. Broad St.
PITTSBURGH 22, PA.
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ART METAL BANKING SERVICES

CUSTOM-BUILT BANKING EQUIPMENT by Art Metal offers fine craftsmanship, over 70 years experience and specialized, cooperative planning to meet the most exacting requirements of modern banking.

ART METAL OFFICE EQUIPMENT for bank offices and clerical departments presents a most complete line of desks, chairs, filing equipment and work counters to meet any specific need. Postindex Visible Records offer a wide variety of special forms for bank record-keeping.

BANK PLANNING is part of Art Metal cooperative service. It provides many invaluable suggestions on bank layout and the best type of equipment for every banking function. It includes the combined ideas of bank and office equipment specialists, engineers and planners of wide experience. It is yours for the asking.

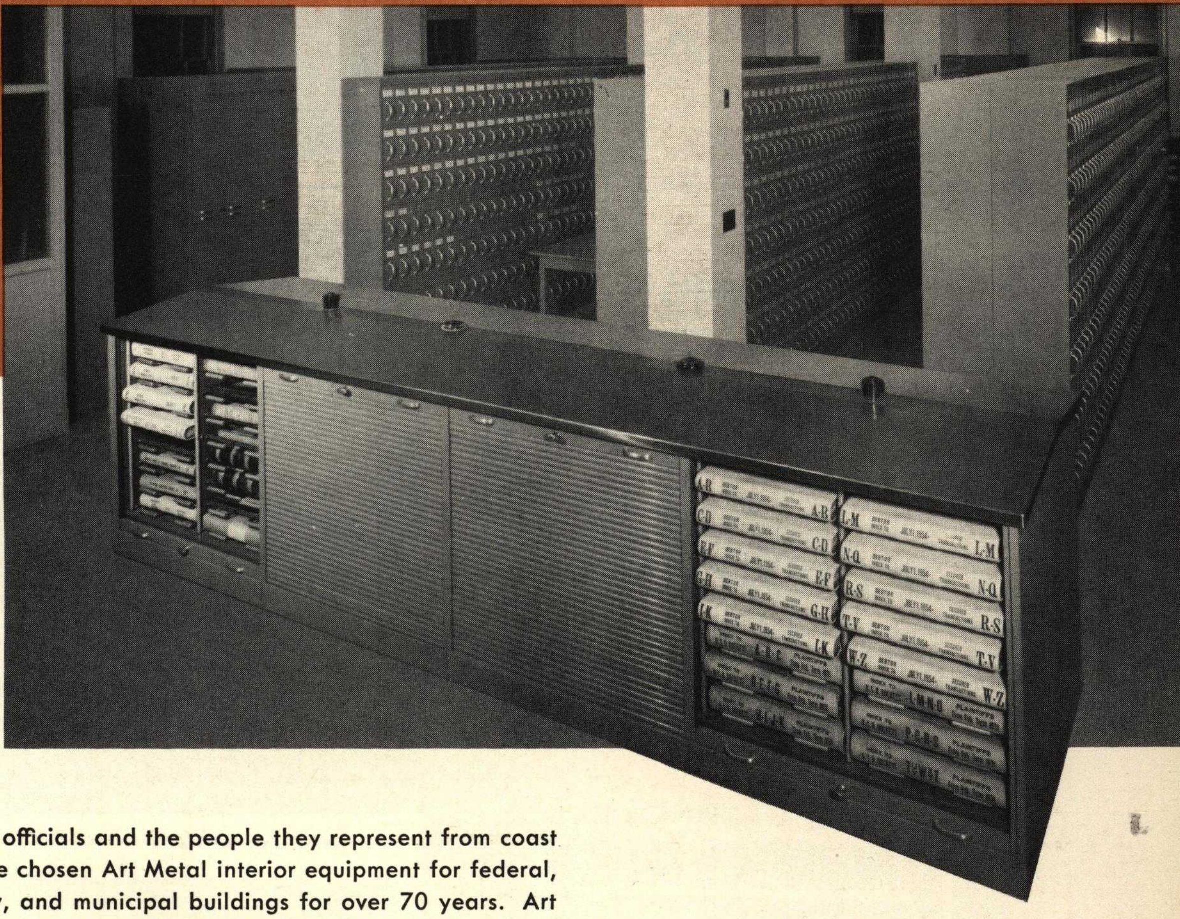
ART METAL CONSTRUCTION COMPANY • JAMESTOWN, NEW YORK

LITHO IN U. S. A.

AD 2492-59

Art Metal
41 E. 42nd STREET NEW YORK 17, N. Y.

CUSTOM DESIGNED EQUIPMENT FOR MUNICIPAL, STATE, AND FEDERAL BUILDINGS



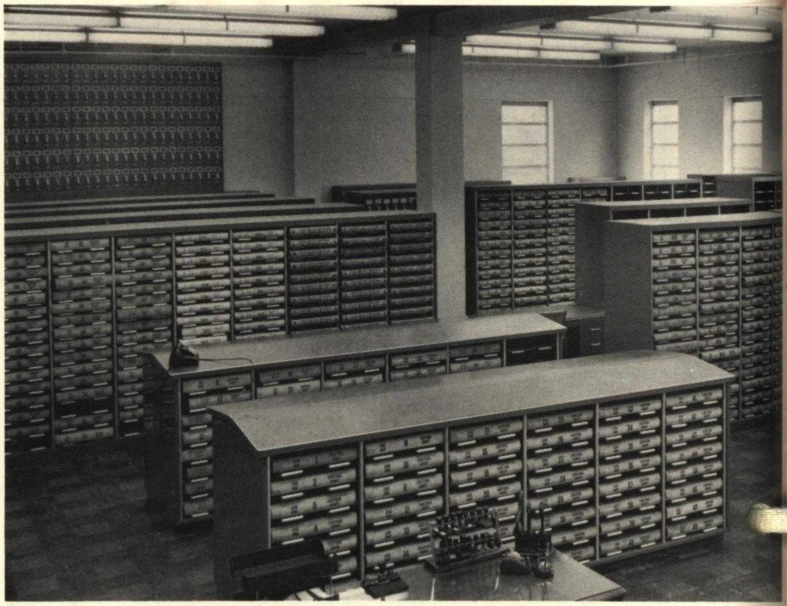
CRAWFORD COUNTY
COURT HOUSE
Meadville, Pa.

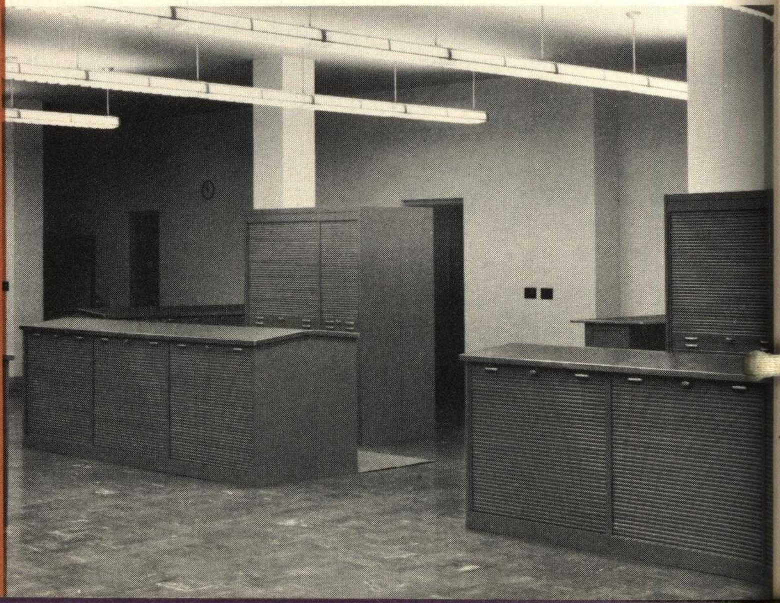
Government officials and the people they represent from coast to coast have chosen Art Metal interior equipment for federal, state, county, and municipal buildings for over 70 years. Art Metal produces both standard and custom-built metal equipment for public buildings and, as in other specialized fields, maintains a staff skilled in designing and planning of interiors.

ART METAL CONSTRUCTION COMPANY
JAMESTOWN, NEW YORK DIVISION

RECORD BOOK STORAGE UNITS (ROLLER SHELVES)

Art Metal Roller Shelf Units are designed for the convenient filing of numerous record books normally found in most public buildings. Counter-height units with flat or sloping tops, each holding up to 8 or 10 books, are among the custom-built and standard styles made by Art Metal. High units capable of holding 16 books or more are also available. Units may be equipped with steel counter-balanced curtains which provide protection from smoke, dust, and moisture.





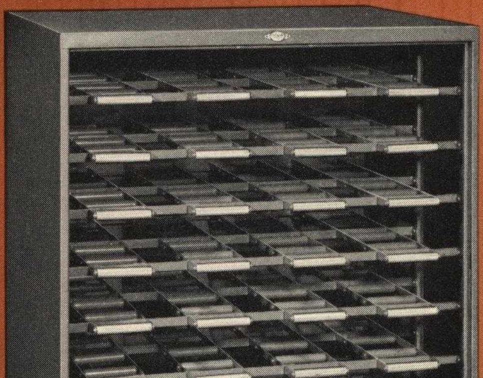
Top —
ARMSTRONG COUNTY COURT HOUSE
Kittanning, Pa.
Marr, Scheeren & Rittenhouse, Architects
New Philadelphia, Ohio

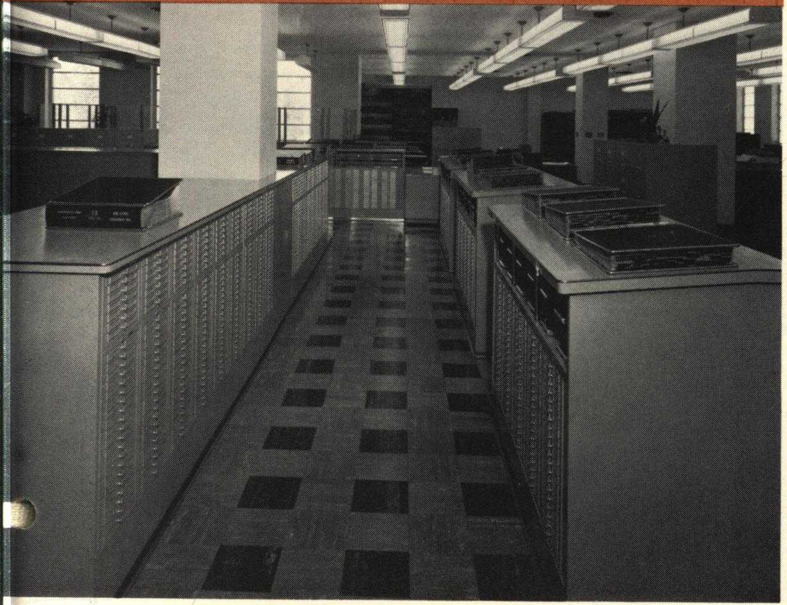
Center —
TULSA COUNTY COURT HOUSE
Tulsa, Oklahoma
Black and West, Architects
Tulsa, Oklahoma

Bottom —
CRAWFORD COUNTY COURT HOUSE
Meadville, Pa.
Hanna and Stewart, Architects
Meadville, Pa.

SHELF CONSTRUCTION

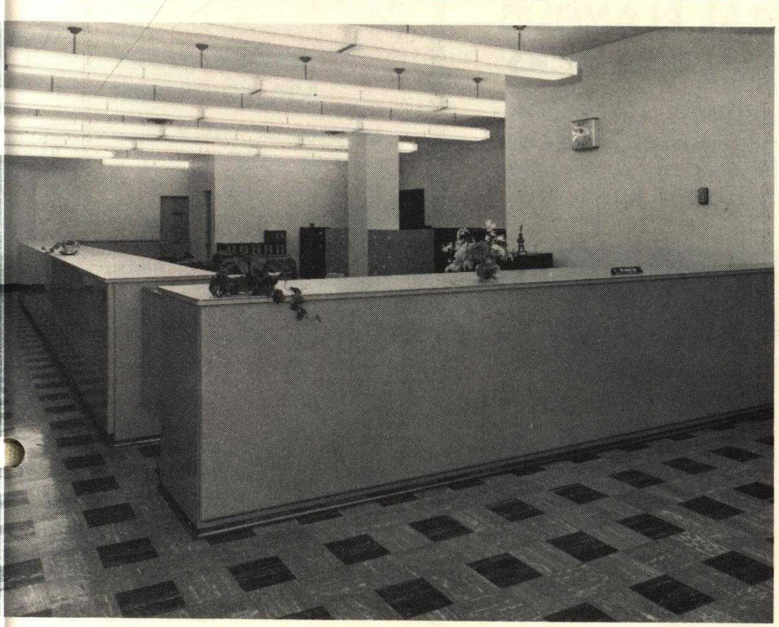
Shelves are equipped with two or four rows of rollers having 5 rollers in each row. Each roller shelf is 1″ thick and adjustable every ½″ full height of unit. Plain shelves, ¾″ thick, available if desired.





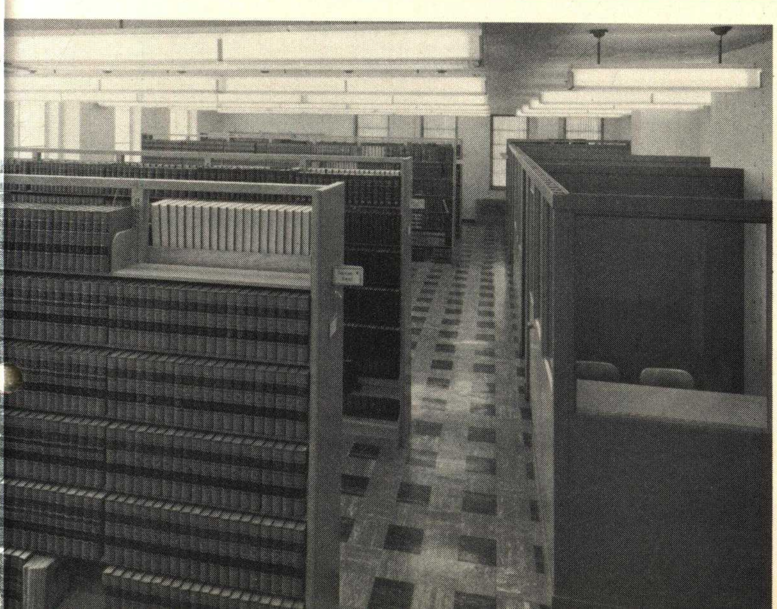
POSTINDEX COUNTER-HEIGHT RECORD CABINETS

Many types of records may be indexed and housed in Postindex Visible Index Files. Shown at left in a County Tax Assessor's office are location and evaluation real estate records in both 20 and 7 drawer Postindex Cabinets which are housed in special-built counter-height cases. Installation has capacity of over 193,000 record cards. Forms are mounted on trunnion wires which permit perfect layback of forms and quick one-hand posting.



CUSTOMER SERVICE COUNTER

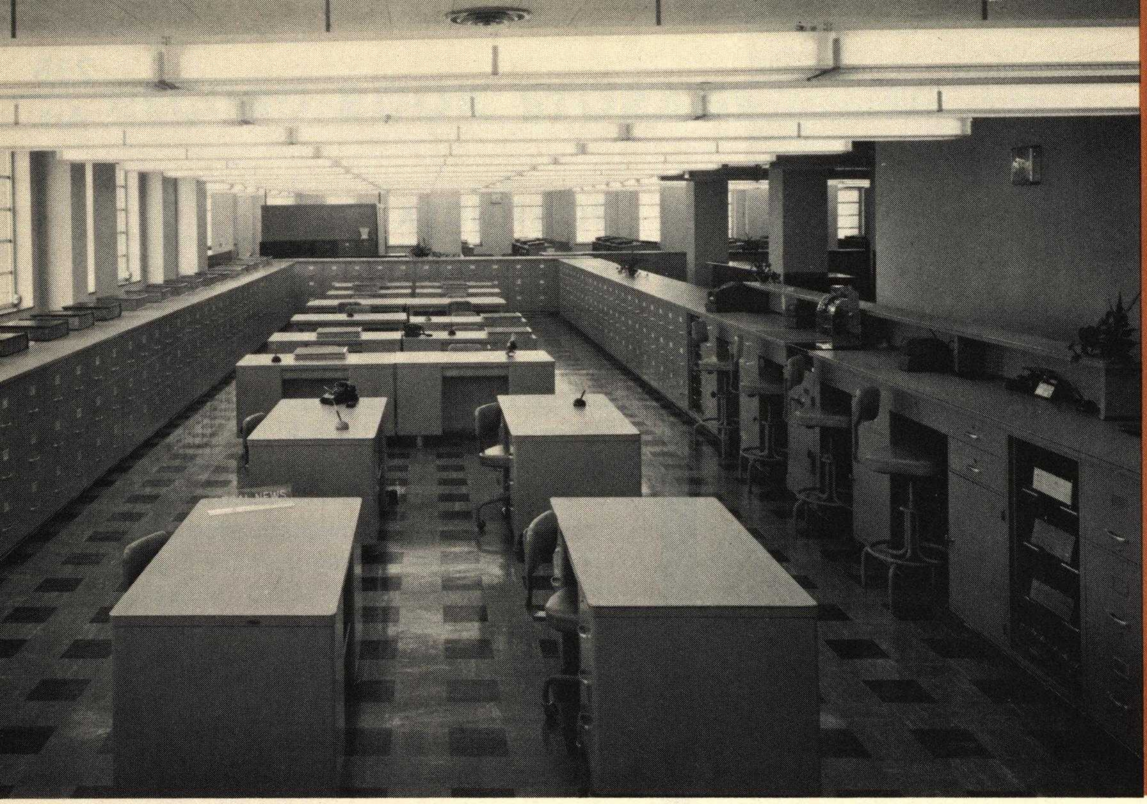
Service counters provide for ample and convenient record filing space while counter top is at a convenient working height for transactions with the public. Knee-space units serve as counter work stations for clerks. With the wide range of both stock and special-built counter-height equipment — letter and legal files, card record and general files, knee space units — Art Metal is well prepared to meet the requirements for equipping public buildings.



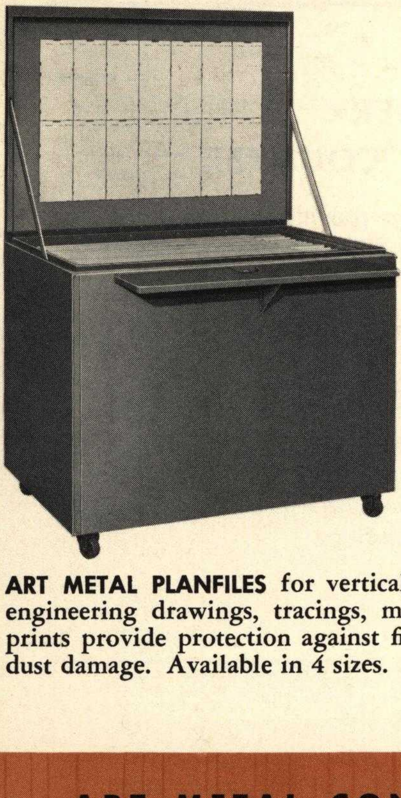
LEGAL LIBRARY EQUIPMENT

Legal departments of municipal, county, state and federal buildings require library bookshelving as well as carrel desks (open and closed) for convenience and privacy in research and study. Art Metal's contribution can range from occasional tables, bookcases or files to a complete installation including bookstacks, counters, reading tables, and countless other pieces of specialized equipment for libraries.

**All installations on this page at
Tulsa County Court House, Tulsa, Oklahoma**



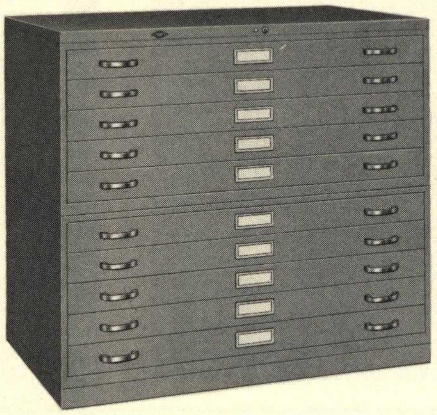
County Clerk's office is equipped with Art Metal Pace-Setter Desks, each selected and fitted with drawer accessories to fit individual requirements. Desk area is enclosed by counter-height files holding mortgage and other county records. Work stations are provided by knee space units while toe space along base permits maximum working comfort for employees at counter.



ART METAL PLANFILES for vertical filing of engineering drawings, tracings, maps, blueprints provide protection against fire, water, dust damage. Available in 4 sizes.

ART METAL PLANFILES AND PLAN DRAWERS

PLAN DRAWER UNITS for storing blueprints, maps, tracings, other large sheets may be used in combination with Counter-Height Roller Shelf Units.



SPECIFICATIONS FOR EQUIPMENT

MATERIAL — All finished units shall be made of patent-leveled, furniture quality steel. Interior framing and reinforcing members shall be rolled or formed shapes.

FINISH — All steel parts shall be thoroughly cleaned by hot vapor and spray degreasing, and carefully wiped with clean cloths when dry. All parts shall be immediately protected by rust inhibitive primer. Prime coat shall be baked, inspected and filled where needed. When dry, finished surfaces shall be sanded, cleaned and sprayed with full-bodied enamel coat and baked.

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Write for complete details about Art Metal custom-designed equipment for public buildings.

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The nation's leading designer and manufacturer of metal office equipment

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BRUNING COPYFLEX®

REPRODUCTION MACHINES

The Copyflex Model 300 . . .

ideal in size and price for . . .

Small Engineering Firms and Departments
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Secondary School Drafting Departments
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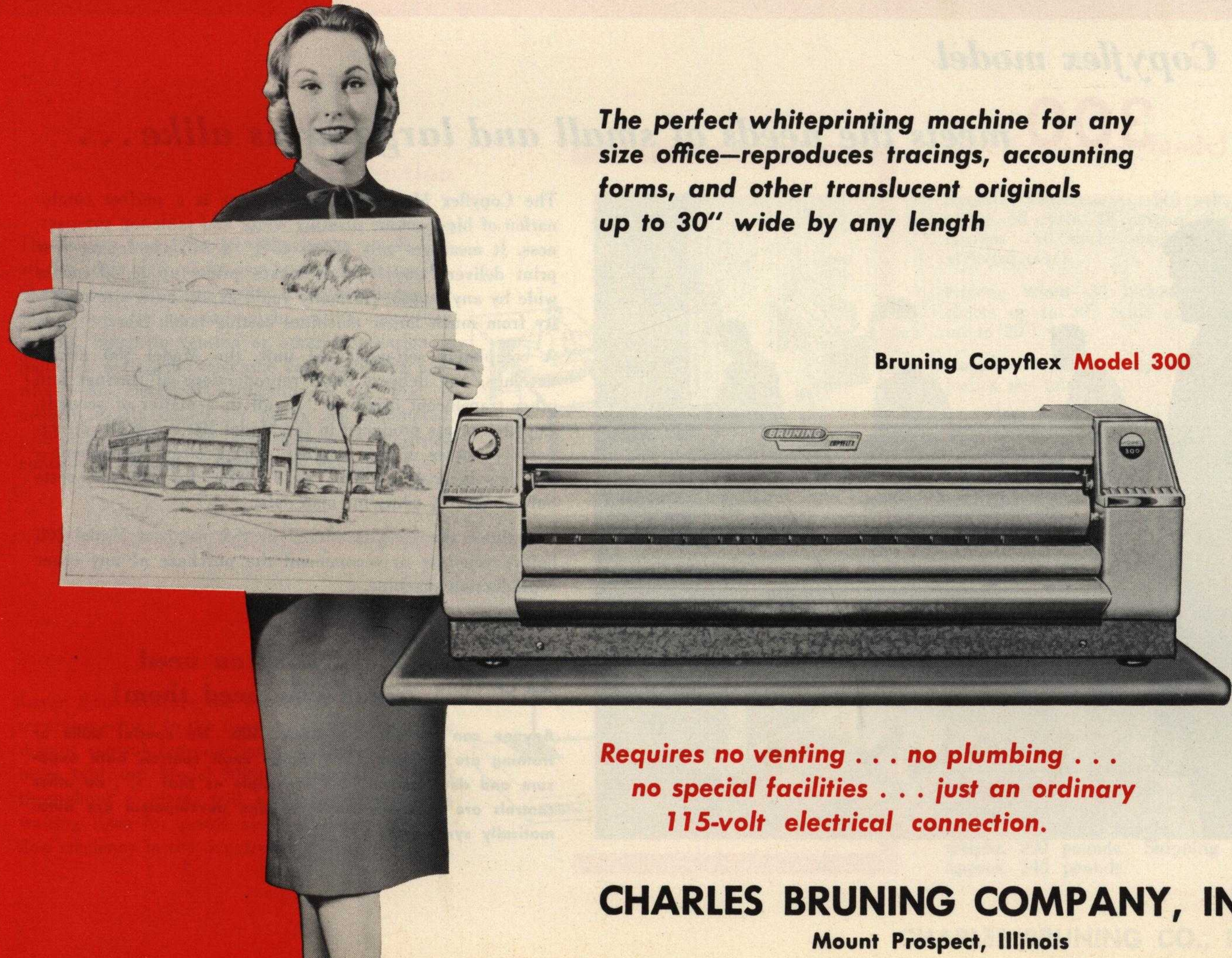
Business Systems . . . and many others

The perfect whiteprinting machine for any size office—reproduces tracings, accounting forms, and other translucent originals up to 30" wide by any length

Bruning Copyflex Model 300



Requires no venting . . . no plumbing . . . no special facilities . . . just an ordinary 115-volt electrical connection.

CHARLES BRUNING COMPANY, INC.
Mount Prospect, Illinois

some of the reasons why
COPYFLEX
is the preferred reproduction process . . .

direct, dry, positive reproductions—in seconds

In a matter of seconds, Copyflex gives you clean, dry, direct positive reproductions of anything drawn, written, typed, or printed on ordinary translucent material such as tracing paper. The process utilizes only the original itself and Copyflex sensitized paper film, or cloth—no negatives or other intermediates are required.

economical—small prints cost as little as 1¢ each . . . large prints only pennies

Copyflex prints are inexpensive to make—small prints cost as little as a cent apiece for materials, large prints only pennies each. By providing increased reproduction flexibility, Copyflex makes many other savings possible, too.

sharp, clear, intense lines and images

Copyflex prints are flat, durable, and easy to read — with clean, sharp, permanent lines of uniform density and contrast. Because of their durability and performance, Copyflex prints are more convenient to use than the original, and because of their high line contrast, are often easier to read.

Copyflex is clean, quiet, and odorless —emits no noxious fumes, requires no venting

The Copyflex diazo process is clean, quiet, and odorless. There are no noxious fumes to bother the operator or others in the vicinity, and there are no messy inks, masters, stencils, or negatives for the operator to handle. Fume venting is not necessary, and in most cases only an electrical connection is required for installation.

the Copyflex model
300 *meets the needs of small and large firms alike . . .*

The Copyflex Model 300 whiteprinter is a perfect combination of big-machine printing width and table-top compactness. It measures only 15″ x 45¾″ x 31″ (including rear print delivery tray)—yet it makes prints up to 30 inches wide by any length. Normally you'd expect such size capacity from much larger machines costing much more.

A completely self-contained unit, the Model 300 prints, develops, and delivers diazo reproductions of tracings and other translucent originals . . . all in a matter of seconds. Copyflex prints produced in the Model 300 are exact, direct-positive copies of the original—sharp, clean, permanent—and low in cost. An 8½″ x 11″ print, for instance, costs only about 1¼ cents for materials.

Investigate the benefits offered by this compact Model 300 before you buy or recommend the purchase of any other reproduction machine.

now! the prints you need when you need them!

Anyone can operate the Model 300. No special skills or training are required. One simple knob controls both exposure and development. It's as simple as that . . . no other controls are necessary—exposure and development are automatically synchronized.

wide variety of sensitized materials for every reproduction requirement

Bruning Copyflex offers an extremely wide variety of materials for all kinds of diazo printmaking. Included are white and tinted opaque papers of various weights for making low-cost prints with black lines or colored lines . . . white and tinted cardstocks for prints requiring extra rigidity . . . opaque cloths for prints requiring extra durability . . . translucent paper, films, and cloth for making intermediate prints on which reproducible alterations can be made . . . Reflex film for reproducing opaque or two-sided originals . . . Multicolor films and acetate coated papers for making brilliant, vivid prints containing several colors . . . and highly dimensionally stable polyester films and glass cloths. Whatever the printmaking need, there's a Copyflex material that will meet it!

automatic capillary type developer system assures positive development at all speeds

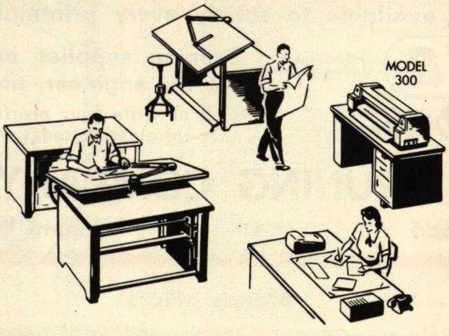
In the Copyflex process, developer solution is applied in metered amounts to exposed prints by direct capillary action, assuring complete developer coverage at all printing speeds and on all types of materials. Because the proper amount of developer is applied to each print automatically, no manual controls or feed adjustment levers are necessary.

Copyflex machines are easy to operate —no skill or experience required

Anyone can learn to operate a Copyflex machine with just a few minutes' explanation and demonstration. One simple knob controls the synchronized exposure and development of Copyflex diazo prints—there's no need for any separate developer adjustments.

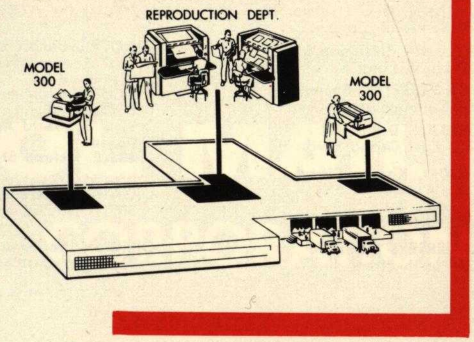
. . . an "inside" reproduction service for the small firm . . .

The budget-priced Model 300 gives a small firm all the advantages of its own reproduction service. Sharp, black-on-white prints—whether many or just a few—can be made right on the spot when needed. Since no venting or other installation is required, a Copyflex machine can be placed anywhere—an electrical connection is all that is needed. Costly delays for prints are eliminated, printmaking expenses are slashed, and inside control of valuable originals is maintained.



. . . a departmental whiteprinter for the large firm . . .

Large firms can use the Model 300 as a supplemental machine to the overworked and sometimes distant central reproduction department. One or more table-top Model 300's, strategically located throughout a plant, will eliminate time-wasting waiting lines for prints and will improve workflow efficiency in the department and in the plant.



specifications—model 300

Electrical Requirements—115 volt, single phase, 60 cycle, 18 ampere alternating current (50 cycle machine available at extra cost).

Printing Width—30 inches. Takes cut sheets up to 30" wide and roll stock up to 28" wide.

Maximum Mechanical Speed—8 feet, 10 inches per minute.

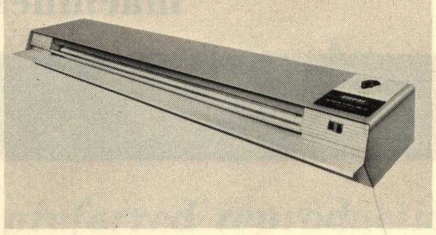
Lamp and Transformer—1,200 watt mercury arc lamp. Active length of lamp, 34". Constant wattage type transformer assures dependable, consistent light intensity regardless of fluctuations in line voltage.

Drive System—Electronic type. Variable speed D. C. motor. Selenium rectifier and transformer control. No vacuum tubes required.

Feed and Delivery Features—Rear print delivery tray stacks prints up to 12" x 30" in size.

Cabinet—Heavy gauge steel, with baked-on, gray hammertone enamel finish.

Dimensions and Weight—Over-all depth, including rear print delivery tray, 31"; without tray, 20½". Over-all width, 45¾". Over-all height, 15". Net weight, 290 pounds. Shipping weight, approx. 340 pounds.

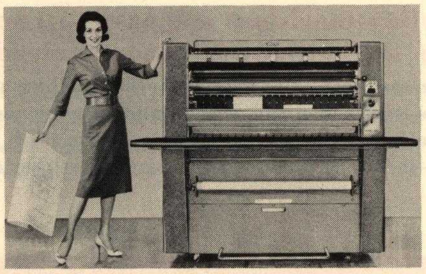


model 42

A quality table-top printing unit at a very low price. Enables even the smallest firm to have its own reproduction department. Exposes prints up to 40 inches wide by any length. Development is accomplished separately either with handy Copyflex developer spray or with developing machine. Measures only 5½" x 12" x 56". Operates on 115 volt AC.

model 110

A low-cost, compact diazo machine for copying translucent originals up to 11" wide by any length. Just slightly larger than a typewriter—can be placed anywhere for fast, on-the-spot copying. Self-contained exposure and developing sections. A valuable money- and time-saver in a variety of business systems applications. Also valuable for relieving larger reproduction machines of small-size jobs. Can make up to 300 8½" x 11" prints per hour. Runs on 115 volt AC.



model 435

A moderately priced, medium-volume diazo machine for engineering reproduction. Produces quality prints at a rate comparable to that of much costlier machines. Combines a 3,000-watt exposure lamp with an operating speed of up to 40 feet per minute and a 42-inch printing width. Features include automatic separation and air filter system. Measures 64" high by 65" wide by 50" deep. Operates on 230 volt AC.

model 675

A super-volume reproduction machine with a host of operating features for expediting the feeding, exposing, developing, and delivery of prints. Features include split-shade lamp control which enables two operators, using different types of materials, to make prints simultaneously. Machine height is adjustable at touch of a switch. Has fast-printing 7,500-5,000 w. lamp, 75 feet per minute mechanical speed, and 42" printing width. Occupies 72½" x 53" of floor space. Runs on 230 volt AC.

Other Copyflex machines also available to satisfy every printmaking need, every budget

BRUNING Specialists in Copying Since 1897

Copies anything typed, written, printed or drawn on ordinary translucent paper — in seconds.

Copyflex

Bruning supplies everything—from pencil to print—for the engineer, architect or draftsman.

Call or write your nearby Bruning branch or distributor for further information today.

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100 Church St.
Rochester 10
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OHIO, Cincinnati 29
4507 Reading Road
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Dayton
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Pittsburgh 12
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TEXAS, Dallas 1
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Printed in U.S.A.

AIA FILE NO. 35-H

CAPITOL MAIL CHUTE
CORPORATION

AIA FILE NO. 35-H-1

CAPITOL MAIL CHUTE CORPORATION

INTRODUCTION

The Capitol Mail Chute Corporation is an organization of skilled fabricators who have been manufacturers of mail chute equipment since 1931. It is part of an organization that have been manufacturers and erectors of aluminum, bronze and stainless steel metal work with experience since 1905.

The Capitol Mail Chute Corporation has at all times maintained the highest standards in its workmanship and materials and has refused to compromise operational qualities by producing several grades of mail chute equipment. Consequently, the Capitol Mail Chute Corporation manufactures only its Model "D" Deluxe Model and its newly designed Model "E", insuring functional perfection.

products and services

The Capitol Mail Chute Corporation manufactures and installs a complete line of standard Letter Receiving Boxes and Bundle Boxes plus various types of Auxiliary Boxes and Special Boxes for Post Office collection service throughout the United States, its possessions and foreign countries.

The Model "D" and newly designed Model "E" mail chutes are available as single or twin chute installations and can be supplied surface wall mounted, semi-recessed or fully recessed in the wall as required.

FEATURES

1. construction

The Capitol Model "D" and Model "E" Mail Chute is completely assembled in our factory as a complete unit. Each floor is individually wrapped and shipped in one unit. Each mail chute floor is installed in the building individually without removing the protective covering by a telescopic method starting from the top of the mail box and fitting each successive mail chute floor into the mail chute installed on the floor below. The mail chute on each floor can be fastened to either the adjoining wall or to the floor slabs. These mail chutes are fabricated to allow a three inch (3") leeway in each floor.

The factory built Model "D" and Model "E" mail chute require no additional assembling of miscellaneous parts such as floor connectors, back panels, lock straps or fascia parts at the job site. Thus, there are no field assembled parts to become loose or be improperly installed and form traps and blockages or obstruct the smooth passage of deposited mail.

The inner core of the Model "D" and Model "E" mail chutes are constructed of durable steel, painted with black enamel and all exposed sections of the mail chute are made of 63-ST5 alloy of extruded aluminum. If required these may be clad with stainless steel or bronze.

The removable glass frames are fabricated of extruded aluminum 63-ST5 alloy complete with glass installed and may also be clad in the desired finishes.

LATEST PROMINENT INSTALLATIONS

High Rise Office Bldg., Phoenix, Arizona
Hall of Administration, Los Angeles, Calif.
Statler Hotel, Los Angeles, Calif.
Kaiser Center, Oakland, Calif.
Hall of Justice, San Francisco, Calif.
Denver Club, Denver, Col.
Mile High Center, Denver, Colo.
Fontainebleau Hotel, Miami Beach, Florida
Eden Roc Hotel, Miami Beach, Florida
State Office Judicial Bldg., Atlanta, Georgia
Chicago Sun Times Bldg., Chicago, Ill.
Inland Steel Bldg., Chicago, Ill.
Fidelity Bldg., Indianapolis, Ind.
Alton Ochner Medical Center, New Orleans, La.
U. S. Post Office, New Orleans, La.
State Office Bldg., Baltimore, Maryland
Statler Hotel, Boston, Mass.
Liberty Mutual Ins. Co., Boston, Mass.
Lansing Civic Center, Lansing, Mich.
American Telephone & Telegraph Bldg., Kansas City, Missouri
Chase Manhattan Bank, Central Office Bldg., New York, N. Y.
Office Building—80 Pine Street, New York, N. Y.
Socony Vacuum Bldg., New York, N. Y.
Prudential Ins. Co. of America, Newark, N. J.
Provident Life Bldg., Bismark, North Dakota
Kroger Building, Cincinnati, Ohio
Fidelity National Life Ins. Co. Bldg., Oklahoma City, Oklahoma
Sheraton Hotel, Portland, Oregon
Pittsburgh Hilton Hotel, Pittsburgh, Penna.
Gateway Center, Pittsburgh, Penna.
Philadelphia State Office Bldg., Philadelphia, Penna.
Life and Casualty Bldg., Nashville, Tenn.
Southland Center, Dallas, Texas
U. S. Post Office, Burlington, Vermont
Federal Office Bldg., Richmond, Virginia
State Department Bldg., Washington, D. C.
Havana Hilton Hotel, Havana, Cuba
Caribe Hilton Hotel, San Juan, Puerto Rico
Office Building—1420 Sherbrooke St., W., Montreal, Canada

MAIL CHUTE EQUIPMENT

2. design

The design of the mail chute equipment is dependent upon the type of building, the character of its occupancy and the number of collections to be made. With this in mind the Capitol Mail Chute Corporation has available either single or twin mail chute equipment, single or combined receiving boxes and multiple bundle receiving boxes.

If requested our engineering and design staffs are available at all times to assist the architect, designer and owner as to the recommended requirements.

3. sliding floor connector

A special feature of Capitol Mail Chutes Model "D" and Model "E" is the sliding floor connector which permits the clearing of any blockages between floors. This floor connector can be lowered into view and any blockage cleared without the use of tools and locked back into position without any delays.

4. cigarette ejector

The Capitol Mail Chute Corporation pioneered in supplying this important feature and is standard equipment at no additional cost in installation on both the Model "D" and Model "E" mail chutes.

5. finishes

The Capitol Mail Chute Model "D" and Model "E" are available in aluminum, standard satin finish clear methacrylate lacquered; anodized (alumilited) aluminum, stainless steel or bronze clad finishes as specified.

U. S. POSTAL REGULATIONS

regulations

All mail chute equipment is subject to the approval of the local Postmaster and may be placed in public buildings, railroad stations, hotels, office buildings and apartment houses at the expense of the owner. Business or office buildings may not be less than four stories and apartment houses may not have less than forty residential apartments.

This equipment is intended for the receipt and deposit of First Class mailing matter only. Receiving Boxes shall be located not more than 100 feet from a mail entrance and on the ground floor of the building and this location is subject to the approval of the Postmaster.

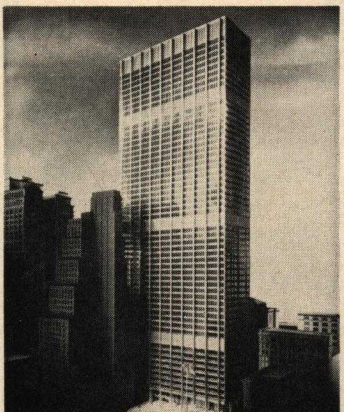
The construction of the Capitol Mail Chutes and Receiving Boxes conforms to Postal Regulations and Specifications.

Upon request the Capitol Mail Chute Corporation will furnish copies of the Post Office Department Mailing Chute Rules, Regulations and Specifications as printed by the Post Office Department in their publication "POD Publication 16" dated May 1956.

approval

Capitol Mail Chute bears the approval of the Post Office Department and this company is under $10,000 Surety Bond to strictly carry out the Postal rules and regulations.

MERCANTILE NATIONAL
BANK BUILDING
Dallas, Texas



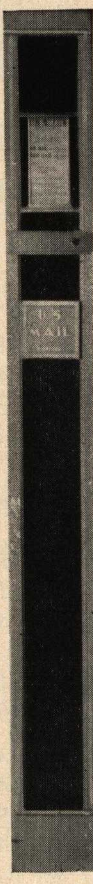
CHASE MANHATTAN
BANK BUILDING
New York City, N. Y.

COMPONENTS

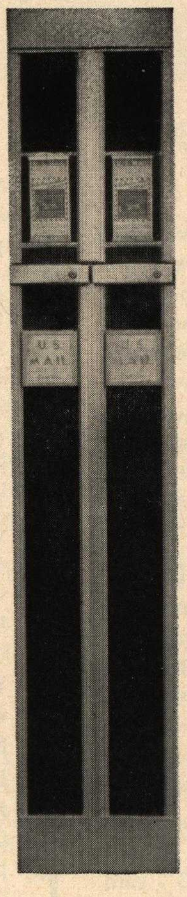
CHUTES

MODEL D

single

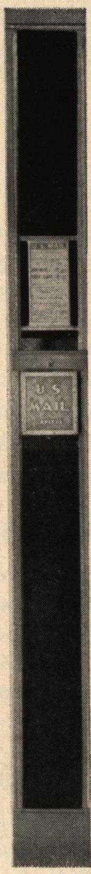


twin


U.S. MAIL
U.S. MAIL

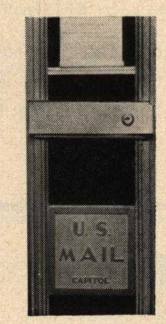
MODEL E

also available in twin chute

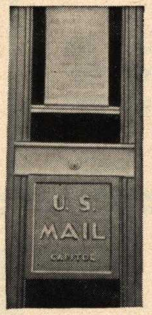


LETTER DROP AND LOCK STRAP

MODEL D


U.S. MAIL
CAPITOL

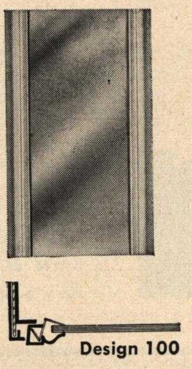
MODEL E


U.S. MAIL
CAPITOL

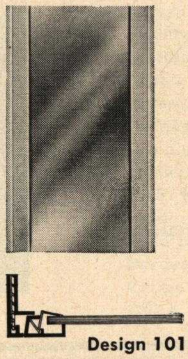
chute dimensions for model "D" & "E"

	width	depth
single	9 ⅛"	3 ⅜"
twin	18 ¼"	3 ⅜"

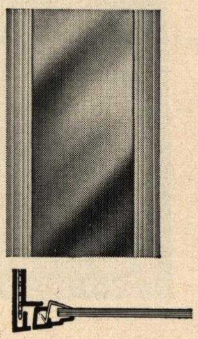
GLASS FRAMES DESIGNED FOR MODEL D AND MODEL E



Design 100



Design 101



Design 200

BOXES

All Capitol Mail Chute Receiving Boxes, Bundle Boxes, and Multiple Receiving Boxes are manufactured of heavy sheet metals with the design and lettering engraved or applied as desired.

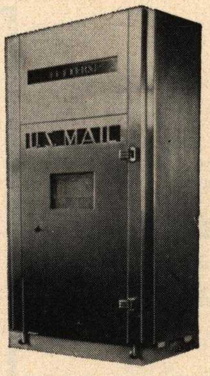
The standard Receiving Boxes as shown are the most popular models but if the character and size of the building requirements demand a larger capacity box, these can be readily furnished.

Receiving and Bundle Boxes of all models can be made available surface mounted, semi-recessed in wall, or fully recessed in wall.

All Receiving Boxes are available in aluminum, standard satin finish clear methacrylate lacquered; anodized (alumilited) aluminum; stainless steel or bronze and are individually wrapped and crated.

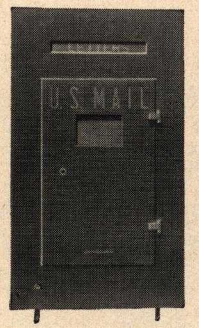
Auxiliary Receiving Bundle Boxes are available in the same design as the standard mail Receiving Boxes, or may be furnished as a combined double box. (See #418 at right.)

406



36″ high x 18″ wide x 9″ deep

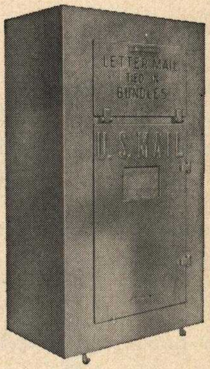
408


LETTERS
U.S. MAIL

34″ high x 20″ wide x 10″ deep

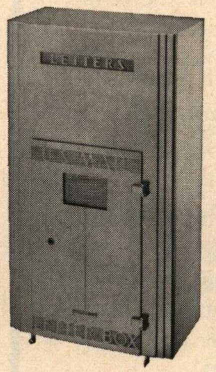
408A

Auxiliary Box


LETTER MAIL TIED IN BUNDLES
U.S. MAIL

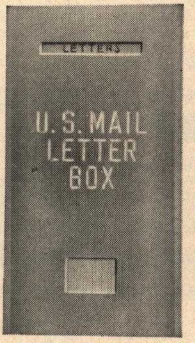
34″ high x 20″ wide x 10″ deep

412


LETTERS
U.S. MAIL
LETTER BOX

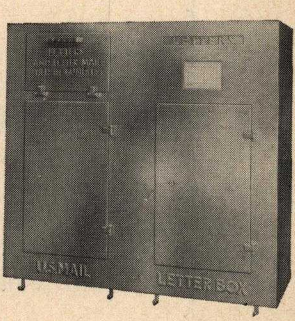
36″ high x 20″ wide x 10″ deep

411


LETTERS
U.S. MAIL
LETTER
BOX

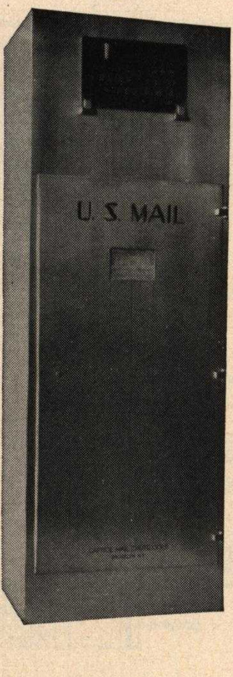
34″ high x 20″ wide x 10″ deep

418


LETTERS
U.S. MAIL
LETTER BOX

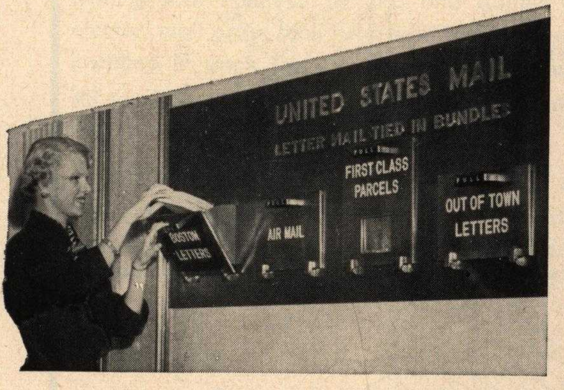
36″ high x 40″ wide x 10″ deep

501



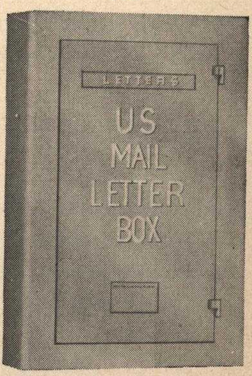
70″ high x 24″ wide x 17″ deep

MULTIPLE BUNDLE BOX


UNITED STATES MAIL
LETTER MAIL TIED IN BUNDLES
FIRST CLASS PARCELS
OUT OF TOWN LETTERS
AIR MAIL
BOSTON LETTERS

Size to order

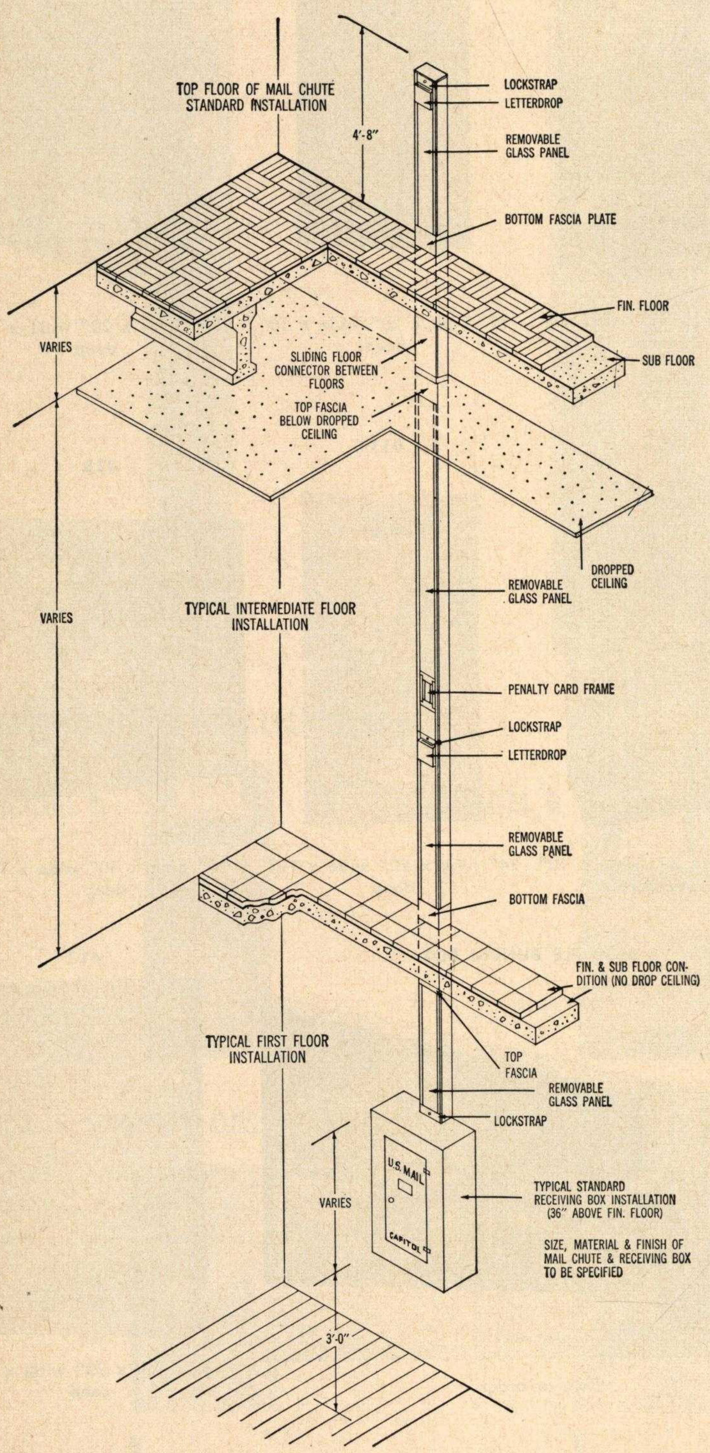
413


LETTERS
US
MAIL
LETTER
BOX

36″ high x 22″ wide x 10″ deep

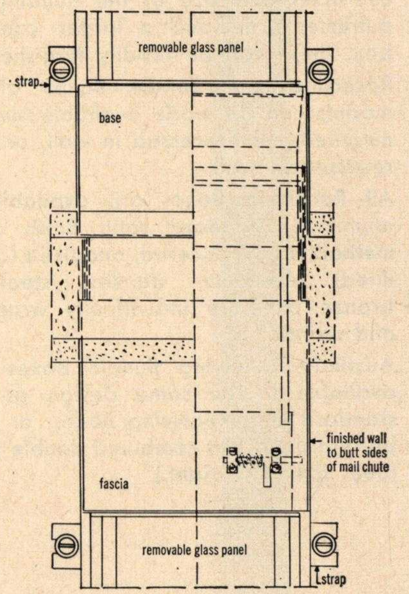
INSTALLATION

TYPICAL LAYOUT

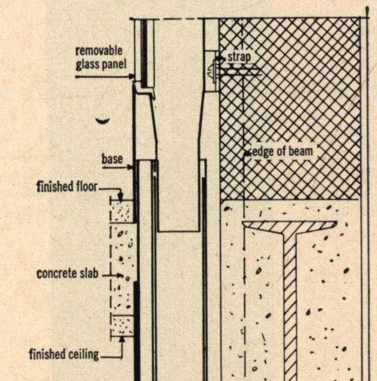

TOP FLOOR OF MAIL CHUTE
STANDARD INSTALLATION
4'-8"
LOCKSTRAP
LETTERDROP
REMOVABLE GLASS PANEL
BOTTOM FASCIA PLATE
FIN. FLOOR
SUB FLOOR
VARIES
SLIDING FLOOR CONNECTOR BETWEEN FLOORS
TOP FASCIA BELOW DROPPED CEILING
DROPPED CEILING
VARIES
TYPICAL INTERMEDIATE FLOOR INSTALLATION
REMOVABLE GLASS PANEL
PENALTY CARD FRAME
LOCKSTRAP
LETTERDROP
REMOVABLE GLASS PANEL
BOTTOM FASCIA
FIN. & SUB FLOOR CONDITION (NO DROP CEILING)
TYPICAL FIRST FLOOR INSTALLATION
TOP FASCIA
REMOVABLE GLASS PANEL
LOCKSTRAP
U.S. MAIL
CAPITOL
VARIES
TYPICAL STANDARD RECEIVING BOX INSTALLATION (36" ABOVE FIN. FLOOR)
SIZE, MATERIAL & FINISH OF MAIL CHUTE & RECEIVING BOX TO BE SPECIFIED
3'-0"

SUGGESTED CHUTE DETAILS

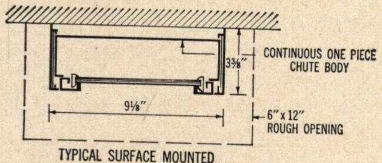
elevation


removable glass panel
strap
base
finished wall to butt sides of mail chute
fascia
removable glass panel
strap

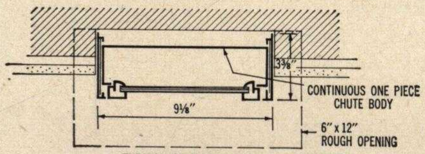
section


removable glass panel
strap
base
edge of beam
finished floor
concrete slab
finished ceiling
sliding floor connection
fascia
chute must be flush and plumb and clear all beams
strap
rough wall
removable glass panel

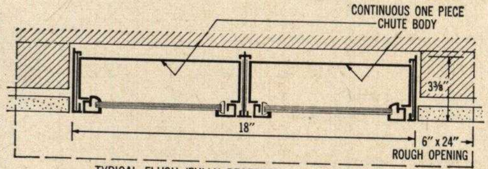
plans



TYPICAL SURFACE MOUNTED MAIL CHUTE



TYPICAL SEMI-RECESSED MAIL CHUTE



TYPICAL FLUSH (FULLY RECESSED) MAIL CHUTE FOR TWIN CHUTE INSTALLATION

ARCHITECT'S SPECIFICATIONS

MODEL D & MODEL E

Furnish and install where shown on the drawings and as hereinafter specified the "CAPITOL MAILING SYSTEM MODEL________" as manufactured by the CAPITOL MAIL CHUTE CORPORATION of Brooklyn, New York.

All to be installed complete except for rough floor openings, general cutting, patching and repair of plaster, which the Architect shall make provisions for in other trades.

The "CAPITOL MAIL CHUTE MODEL________" system consisting of ________floors of mail chute with glass panel moulding in design #________and________"CAPITOL MAIL RECEIVING BOXES" in design #________.

"CAPITOL MAIL CHUTE MODEL________" shall extend from top of mail receiving box on ground floor level (unless otherwise specified) through________floors to a point 4′ 8″ above finished floor to ________story, (unless otherwise specified).

Letter drop opening shall be provided for receipt of mail with cigarette ejector provided on each floor (unless otherwise specified.)
The continuous vertical sides of the chute shall be of extruded aluminum .125″ thick in________finish (aluminum standard satin, clear alumilite, enamel paint steel, bronze clad, nickel bronze clad or stainless steel clad as required) in the lobby floor and in________finish (aluminum standard satin, clear alumilite, enamel paint steel, bronze clad, nickel bronze clad or stainless steel clad as required) in the upper floor mail chutes.

Mail chute shall be equipped with cigarette ejector, removable glass panels set in frames of extruded aluminum (bronze clad, nickel bronze clad or stainless steel clad shall be provided if required, in which case matching glass panels are supplied.)
Sliding floor connections, top and bottom fascia plates, cigarette ejector, mail drop, lock strap with lock, and penalty card frame to be installed in each story.
All in accordance with the rules and regulations of the Post Office Department.

CAPITOL MAIL CHUTE CORPORATION shall furnish a surety bond in the sum of $3,000.00 guaranteeing the faithful execution of this contract against defects of workmanship or material for a period of three (3) years in full compliance with the orders of the Post Office General.

CAPITOL representatives

ARIZONA
BEACH BUILDING SPECIALTIES INC.
P. O. Box 10236
Phoenix, Arizona

ARKANSAS
NATIONAL BUILDERS SUPPLY
3519 Cantrell Road
Little Rock, Arkansas

CALIFORNIA
FRANK PECK SPECIALTY CO., INC.
347 S. Clarence St.
Los Angeles 33, California

CONTINENTAL BUILDING PRODUCTS CO.
178 Fremont St.
San Francisco 5, California

HEALEY & POPOVICH
1703 Fulton
Fresno, California

COLORADO
DENVER BUILDING SUPPLY CO.
301 Vallejo St.
Denver 23, Colorado

WASHINGTON, D.C.
McDORMAN & BRANNOCK
Metropolitan Bank Building
Washington 5, D. C.

FLORIDA DISTRIBUTORS
P. O. Box 5026
Jacksonville, Florida
31 Venetian Way
Miami Beach, Florida
P. O. Box 801
Tampa, Florida

GEORGIA
HILL R. HUFFMAN INC.
696 Anton St. N. W.
Atlanta, Georgia

HAWAII
M. W. RASSMUSSEN CO.
1245 Ainakoa Ave.
Honolulu 16, Hawaii

ILLINOIS
LANCE CONSTRUCTION SUPPLIES INC.
4225 Ogden Avenue
Chicago, Illinois

INDIANA
BARRISON & CLARKE INC.
P. O. Box 5227
Indianapolis, Indiana

IOWA
BERARD MATERIALS CO.
1405 29th Street
Des Moines, Iowa

KENTUCKY
RUSSEL SHROUT CO.
451 Henry Clay Blvd.
Lexington, Kentucky

LOUISIANA
NACHARY-O'CONNOR CO., INC.
318 Carondelet St.
New Orleans 12, Louisiana

IDEAL BUILDING MATERIALS INC.
P. O. Box 1545
Shreveport, Louisiana

MASSACHUSETTS
ROBERT CRAIG CO.
51 India Street
Boston 10, Massachusetts

MICHIGAN
A. M. ART METAL INC.
11350 Schaeffer Highway
Detroit, Michigan

MISSOURI
B D R ENGINEERING CO.
4243 Pennsylvania Ave.
Kansas City, Missouri

AUGUST COURT COMPANY
1110 S. Brentwood Blvd.
St. Louis 17, Missouri

MONTANA
MONTANA STEEL & SUPPLY CO., INC.
P. O. Box 1137
Great Falls, Montana

NEBRASKA
EARL S. LEWIS & CO.
708 Woodmen of the World Bldg.
Omaha, Nebraska

NORTH CAROLINA
ERWIN JONES & CO., INC.
1128 S. Clarkson
Charlotte, North Carolina

OHIO
NOURSE CONSTRUCTION PRODUCTS
P. O. Box 15
Columbus 16, Ohio

RITTER CONSTRUCTION PRODUCTS CO.
P. O. Box 5
Cincinnati 42, Ohio

HUME SALES INC.
1900 Euclid Avenue
Cleveland, Ohio

OKLAHOMA
McALISTER MATERIALS
P. O. Box 224
Oklahoma City, Oklahoma

OREGON
W. H. CRESS CO.
201 Concord Building
Portland 4, Oregon

PENNSYLVANIA
JAMES A. CLANCY & COMPANY
4 South 15th Street
Philadelphia 2, Pennsylvania

REYNOLDS-SHAFFER CORP.
3046 Jenkins Arcade
Pittsburgh 22, Pennsylvania

TENNESSEE
GEO. W. RUTH CO.
3819 Richland Avenue
Nashville 5, Tennessee

TEXAS
R. J. DeWEES & SON, INC.
P. O. Box 35085
Dallas 35, Texas

VIRGINIA
LEWIS & SALE INC.
P. O. Box 6155
Norfolk 8, Virginia

WASHINGTON
E. C. HANSELPACKER & CO.
92 Battery Street
Seattle 1, Washington

WISCONSIN
PHILLIP GROSS HARDWARE CO.
174 W. Wisconsin Avenue
Milwaukee 3, Wisconsin

CANADA
KARAM CORP. LTD.
725 Decarie Blvd.
Montreal 9, Quebec, Canada

PHILIPPINES
NORTON & HARRISON CO.
660 Echague
Manila, Philippines

PUERTO RICO
LUIS LAVERGNE-YORDAN CO., INC.
P. O. Box 3021
San Juan 13, Puerto Rico

CAPITOL MAIL CHUTE CORPORATION

55 COZINE AVE., BROOKLYN 7, N. Y.   telephone: NIghtingale 9-6400

A.I.A. File No. 35-H-

letter boxes

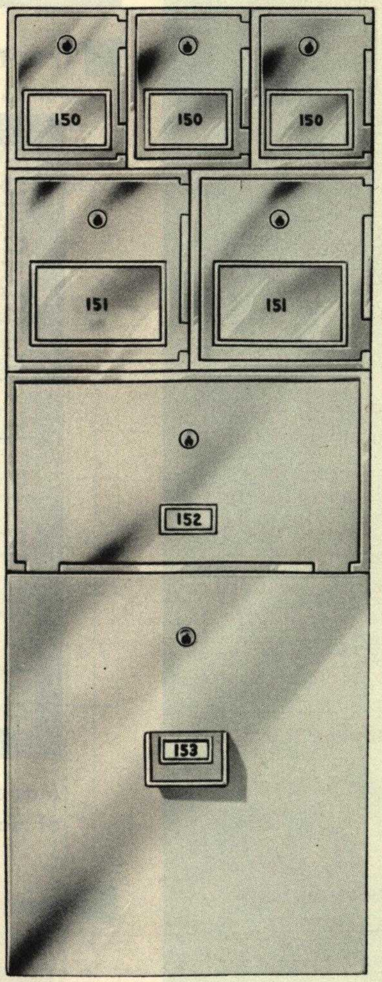
modular versatility

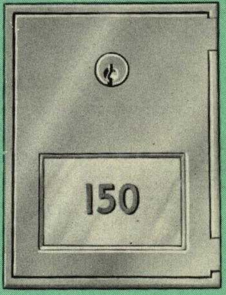
commercial and institutional buildings

office buildings
clubs
colleges
apartments
resident hotels
hospitals

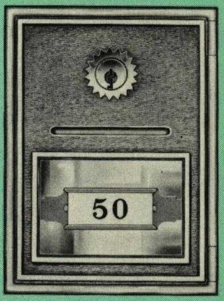
CORBIN®

the Imperial

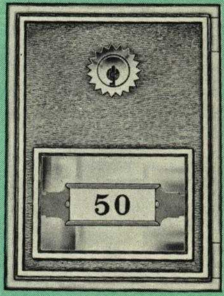

150
150
150
151
151
152
153



key—lock type
no. 150
available in 3 sizes

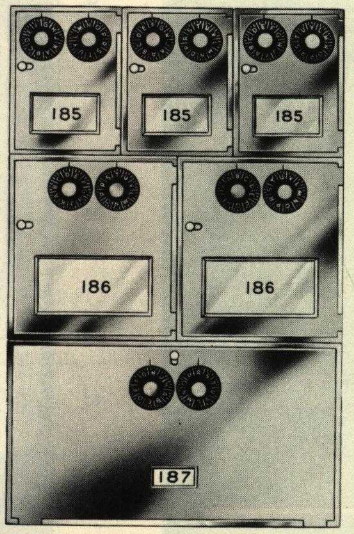


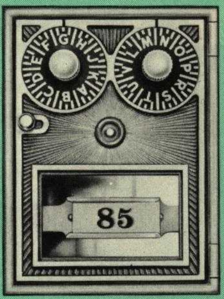
key type
no. 50S
(with card slot)
available in 4 sizes



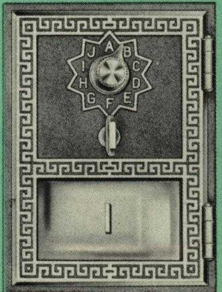
key type
no. 50
available in 4 sizes

the Imperial


185
185
185
186
186
187



combination type
no. P85
available in 2 sizes


J A B C D E F G H I
1

standard single-dial type
no. 1
available in 4 sizes

A.I.A. File No. 35-H-1

The American Hardware Corporation, New Britain, Conn.
CORBIN WOOD PRODUCTS DIVISION

CORBIN letter boxes

Corbin cast bronze letter boxes, operated by dial, key or latch offer maximum security, rich appearance and user convenience.

uses

Apartment houses, dormitories, resident hotels, offices, clubs, hospitals and other commercial and institutional buildings.

features

1 modular versatility: nests are designed and custom-built to accomodate the required quantity of each size of box.
2 Corbin letter boxes feature the same sturdiness and high quality materials as found in U. S. Government Post Office boxes, plus added refinements that provide greater security, ease of operation and simplicity of designs that harmonize with present day architecture and complement contemporary interiors.
3 Lock of key type boxes can be set up to operate on key systems of principal manufacturers.
4 Double dial box can be opened in less time than any other combination type box.

distribution

Boxes are furnished in sections, completely assembled and ready for service. Construction is such that mail can be distributed from the:

1 front by means of masterdoors
2 rear through pigeonholes (standard)

construction

pigeonholes

the roundabout forms the shell of the nest into which the horizontal shelves and vertical partitions are fitted. This roundabout is of 1″ thick birch or oak. The exposed roundabout is finished as specified and the interior, as well as the whitewood divisions, is shellacked and varnished. A brass card holder is mounted at the rear and above each pigeonhole.

letter boxes

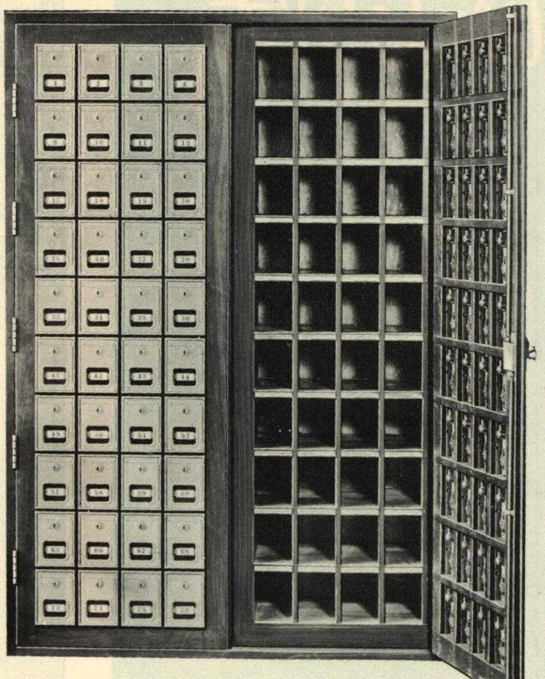
(exclusive of standard single dial box)

CORBIN designed boxes have flush hinges with inaccessible hinge pins. The door recesses into the bronze frame. This frame is mortised flush into the pigeonhole——an unobstructed opening from front to rear.

- Box styles .... *see front cover*
- Specifications .... *see back cover*

types

front distribution



Masterdoor open, for the distribution of mail into pigeonholes

rear distribution

Illustration shows open backs for distribution of mail from the rear.

design

nesting arrangements

Corbin will furnish, without cost or obligation, complete plans, elevations, and specifications to meet your requirements. For this free service, please supply a rough sketch with dimensions of space available; also specify the type and quantity of each size of box required.

estimating size of nest

width:

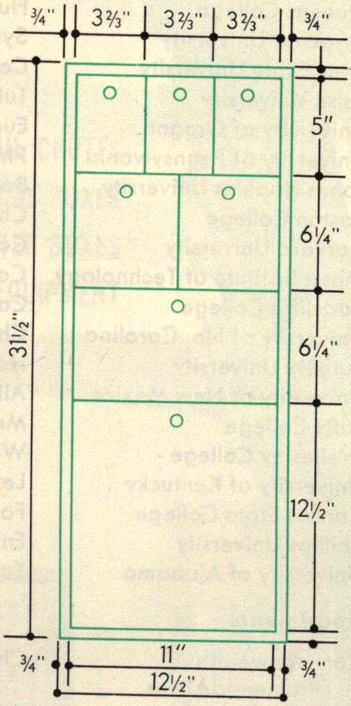
Multiply the number of boxes wide by outside width dimension.

height:

Multiply number of boxes high by outside height dimension.

(see table below)

add to the width and the height of the boxes 1½" --- ¾" of roundabout is exposed at the front on all sides.


¾"
3⅔"
3⅔"
3⅔"
¾"
5"
6¼"
6¼"
12½"
31½"
¾"
11"
12½"
¾"

recommendations

1. Top of nest be not more than 6' 0" and bottom not less than 18" above finished floor.
2. Nests be not more than 6' 0" in width.
3. Boxes be arranged with smallest size in top and largest in bottom of nest.

dimensions (in inches)

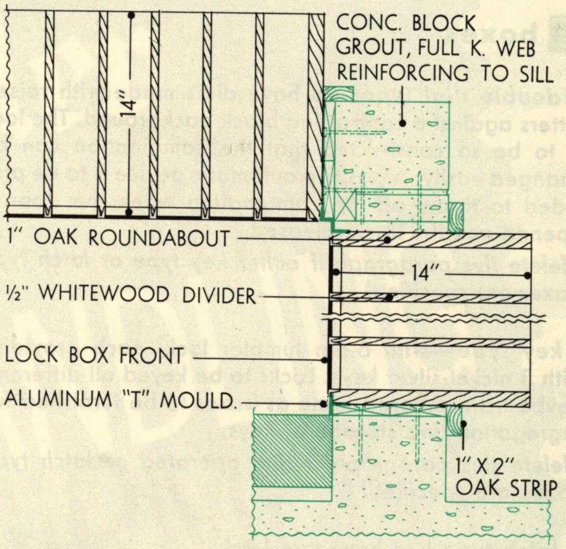
box no.		outside			inside		
		W	H	D	W	H	D
small							
50 50 S 50 K P85 P85 S 1▲	150 150S 150K 185 185S	3⅔	5	14	3³⁄₁₆	4½	14
medium							
51 51 S 51 K P86 P86 S 2▲	151 151S 151K 186 186S	5½	6¼	14	5	5¹¹⁄₁₆	14
large							
52 A 52 AK 87 A 3▲	152A 152AK 187A	11	6¼	14	10½	5¹¹⁄₁₆	14
extra large							
53 4▲ drawer	153	11	12½	14	9³⁄₁₆	11¹¹⁄₁₆	14

▲ Inside width clearance reduced ³⁄₁₆" due to surface mounting.

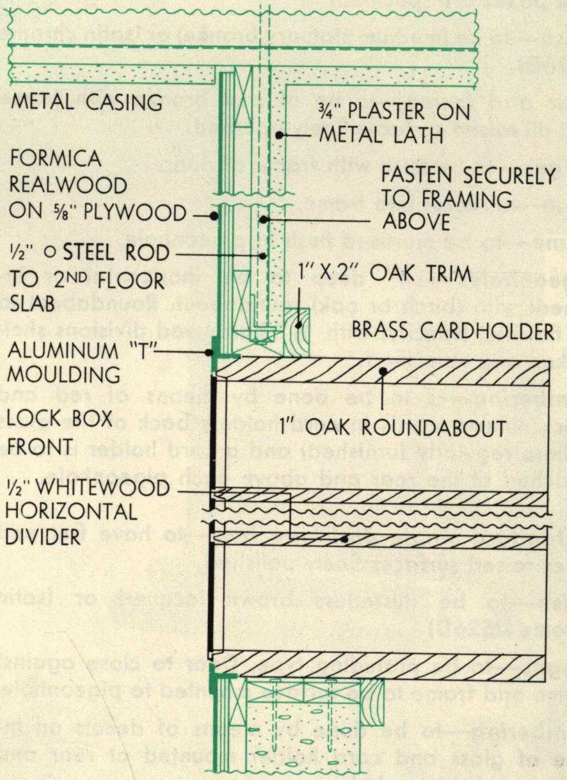
details

installation of pigeonholes

plan


14"
CONC. BLOCK
GROUT, FULL K. WEB
REINFORCING TO SILL
1" OAK ROUNDABOUT
14"
½" WHITEWOOD DIVIDER
LOCK BOX FRONT
ALUMINUM "T" MOULD.
1" X 2"
OAK STRIP

section


METAL CASING
¾" PLASTER ON
METAL LATH
FORMICA
REALWOOD
ON ⅝" PLYWOOD
FASTEN SECURELY
TO FRAMING
ABOVE
½" ○ STEEL ROD
TO 2ND FLOOR
SLAB
1" X 2" OAK TRIM
BRASS CARDHOLDER
ALUMINUM "T"
MOULDING
LOCK BOX
FRONT
1" OAK ROUNDABOUT
½" WHITEWOOD
HORIZONTAL
DIVIDER

BLACK: INSTALLATION BY CORBIN
COLOR: INSTALLATION BY OTHERS

specifications

general

Furnish the following CORBIN letter boxes complete with wood pigeonholes: (here state type and quantity of each size as selected from table of page 3)

boxes

- *double dial type*—to have dials made with raised letters against a contrasting black background. The lock is to be so constructed that the combination can be changed easily. A positive automatic device is to be provided to throw off the combination when the door is opened and the latch released.

(delete this paragraph if either key type or latch type boxes are specified)

- *key type*—with 6-pin tumbler lock, each provided with 3 nickel-silver keys. Locks to be keyed all different. Keyboard numbered same as boxes to be furnished for segregation and storage of keys.

(delete this paragraph if dial operated or latch type boxes are specified)

- *latch type*—to have turn latch.

(delete this paragraph if either dial operated or key type boxes are specified)

finish—to be (medium statuary bronze) or (satin chrome US26D)

door and frame—to be of cast bronze with frame and all raised surfaces finely polished.

hinges—to be flush with frame of door.

door—to recess into frame.

frame—to be mortised flush in pigeonhole.

pigeonholes—14″ deep to be (horizontal or inclined) with (birch or oak) roundabout. Roundabout to be finished (specify) with ½″ hardwood divisions shellacked and varnished.

numbering—is to be done by means of red and black number cards in card holders back of the glass (where regularly furnished) and a card holder is to be attached at the rear and above each pigeonhole.

- *standard single dial type box*—to have fret and other raised surfaces finely polished

finish—to be (lusterless brown lacquer) or (satin chrome US26D)

hinges—to be protuding type. Door to close against frame and frame to be surface mounted to pigeonhole.

numbering—to be done by means of decals on inside of glass and card holder mounted at rear and above each pigeonhole.

Above to be as manufactured by Corbin Wood Products Division, The American Hardware Corporation, or approved equal.

installations

domestic and foreign

schools and universities

University of So. California	Los Angeles, Calif.
Catholic University	Washington, D.C.
Yale University	New Haven, Conn.
Wesleyan University	Middletown, Conn.
State University of Iowa	Iowa City, Iowa
The City College	New York, N.Y.
Colgate	Rochester, N.Y.
Columbia University	New York, N.Y.
Cornell University	Ithaca, N.Y.
Fordham University	New York, N.Y.
Queens College	Flushing, N.Y.
Syracuse University	Syracuse, N.Y.
Ohio State University	Columbus, Ohio
Tulsa University	Tulsa, Okla.
University of Oregon	Eugene, Ore.
University of Pennsylvania	Philadelphia, Penna.
Johns Hopkins University	Baltimore, Md.
Boston College	Chestnut Hill, Mass.
Harvard University	Cambridge, Mass.
Mass. Institute of Technology	Cambridge, Mass.
Radcliffe College	Cambridge, Mass.
University of No. Carolina	Chapel Hill, N.C.
Rutgers University	New Brunswick, N.J.
University of New Mexico	Albuquerque, N.M.
Tufts College	Medford, Mass.
Wellesley College	Wellesley, Mass.
University of Kentucky	Lexington, Ky.
Kansas State College	Fort Hays, Kans.
Phillips University	Enid, Okla.
University of Alabama	Tuscaloosa, Ala.

apartments

Commonwealth Promenade Apts.	Chicago, Ill.
900 Esplanade Apts.	Chicago, Ill.
Lake Meadow Apts.	Chicago, Ill.
Presidential Apts.	Philadelphia, Penna.
Willoughby-Walk Apts.	New York, N.Y.
Darlington Apts.	San Juan, P.R.
Flamingo Apts.	Philadelphia, Penna.
Greenbrier Hotel	White Sulphur Springs, W.Va.

hospitals

Children's Hospital	Boston, Mass.
Gallinger Municipal	Washington, D.C.
Michael Reese	Chicago, Ill.
Institute of Living	Hartford, Conn.
Johns Hopkins	Baltimore, Md.
Bellevue Hospital	New York, N.Y.
New Jersey State Hospital	Ancora, N.J.
Salt Lake County Hospital	Salt Lake City, Utah
St. Joseph's Hospital	Parkersburg, W.Va.
Jackson Memorial Hospital	Miami, Fla.

CORBIN

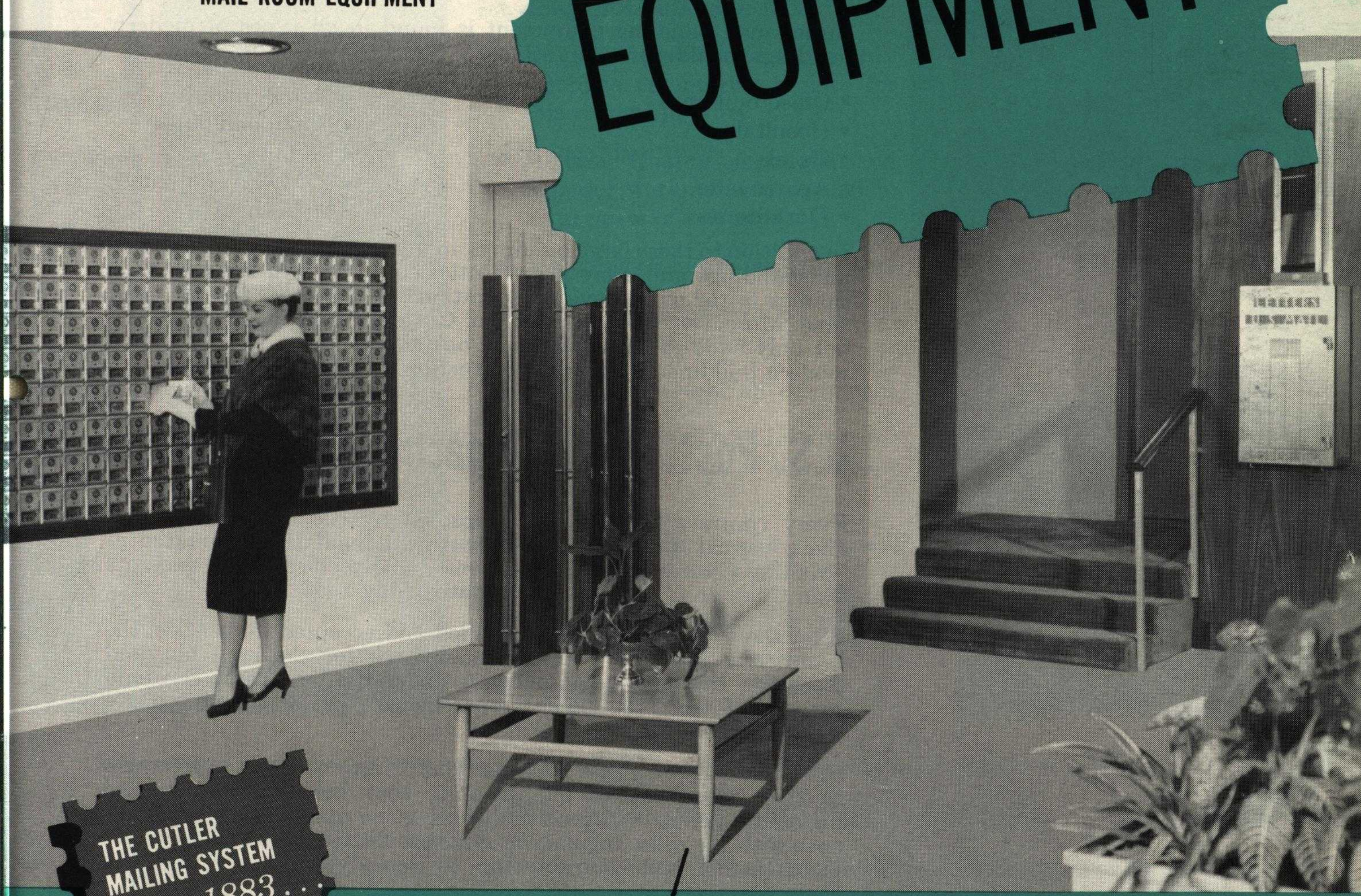
THE
CORBIN WOOD PRODUCTS DIVISION
Factory and Sales Offices, Hornell, N.Y.

A. I. A. File No. 35-H-I

23b
Cu

Cutler
MAIL HANDLING EQUIPMENT

MAIL CHUTES
MAIL BOXES
LOCK TYPE LETTER BOXES
MAIL ROOM EQUIPMENT



THE CUTLER MAILING SYSTEM
since 1883 . . .
the standard of excellence

Cutler mail chute company
ROCHESTER 7, NEW YORK
a subsidiary of The Federal Equipment Co. / Carlisle, Pa.

A. I. A. File No. 35-H-I

why Cutler is the first name in mail chutes . . .

LETTERS
MAIL
LETTER BOX

Since 1883, when the world's first mail chute was installed in Rochester, N. Y., the Cutler Mail Chute Company has continued to emphasize highest uniform quality. In 1958, the company became a subsidiary of The Federal Equipment Company, Carlisle, Pa. (incorporated in 1907), manufacturers of lock-type letter boxes and mail handling equipment. The entire organization of this progressive company is concentrated on the production of only one type of product: Mail handling equipment.

All Cutler products conform to Post Office Department Rules, Regulations and Specifications; and the vast experience of Cutler engineers and designers assures that each installation will meet exactly the requirements of any particular job.

types of buildings

Cutler mail handling equipment is found in all types of modern buildings including:

- Office buildings
- Hospitals
- Hotels
- Apartments
- Dormitories
- Nurses homes
- Public buildings
- Motels
- Y.M.C.A. buildings
- and others

In addition to these large buildings, many smaller apartment houses and buildings are today using Cutler equipment to realize actual savings in reducing elevator operation and conserving employees' time. Moreover, the appearance of Cutler equipment in any lobby not only adds to its appearance, but also indicates a progressive, modern building of quality construction.

U.S. Post Office Department regulations

Every contract is subject to approval by the local Postmaster and governed by Post Office Department regulations as stated in "Mailing Chute Rules, Regulations and Specifications," excerpts from Chapter 1, Postal Manual dated May 1956.

After the chute and box are installed and accepted for service, the Postmaster provides a Government Lock for the mail box and thereafter the entire equipment is under the "exclusive care and custody of the Post Office Department." Letters deposited are legally mailed.

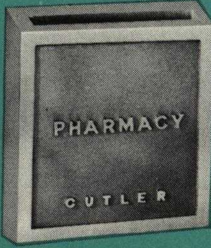
In connection with every Cutler Mail Chute contract, we furnish to the owner a bond guaranteeing that the construction and installation of the equipment, including the mail box, is in accordance with the rules, regulations and specifications of the Post Office Department, and guaranteeing to remedy any defect within three years.

Copies of the regulations relating to mail chutes will be furnished on request. We suggest that where there is any question as to the arrangement of the work, architects consult us before drawings are completed.

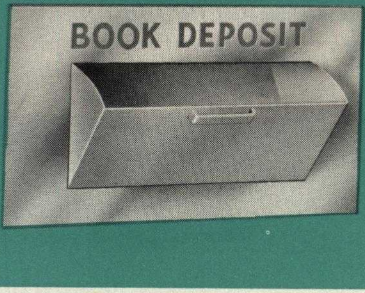
ADVANTAGES OF SPECIFYING AND BUYING

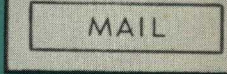
Cutler

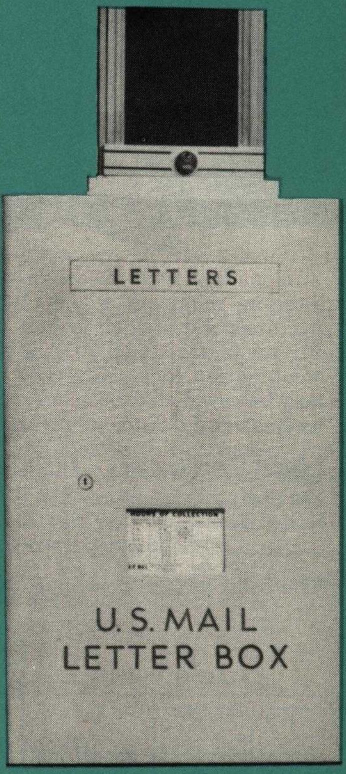
MAIL HANDLING EQUIPMENT



U.S. MAIL
COLLECTIONS
CUTLER MAILING SYSTEM
U.S.
MAIL







. . . no other chutes and letter boxes are comparable in design, quality, construction, performance

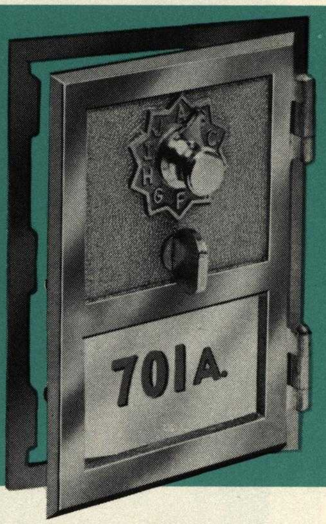
- Experience in solving mail handling problems since 1883
- Engineering Service—the only complete engineering service for this type of product
- Highest Quality materials and Superior workmanship pay off in extra years of service
- Matching or harmonizing finishes
- Complete representation in all major marketing areas
- Full Guarantee of all equipment
- Construction Technicians constantly "on the road" throughout the U.S.
- Complete facilities for manufacturing component parts
- Leasing of equipment is possible only from Cutler
- Factory service

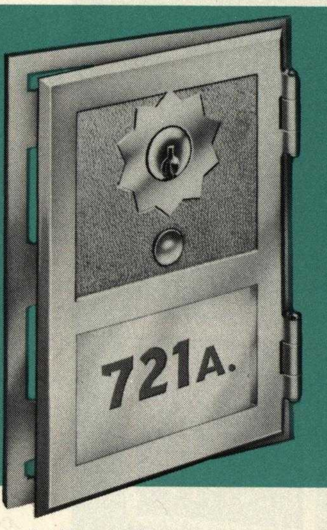
Use Cutler planning service

Cutler has aided thousands of architects, colleges, business firms and institutions to plan and equip their mail departments, and is in a position to work closely with architects and contractors. Cutler's sales and engineering staff is at your service to bring you the benefits of their wide experience in planning mail and communication systems of all types.

Cutler LETTER BOXES—key or combination lock types

bronze ARCHITECTURAL model





This widely used model is available to harmonize with interiors requiring a U.S. 10 statuary bronze finish. The Architectural model is also furnished in U.S. 26D dull chrome plate. Model 701A is equipped with a three-tumbler combination lock. Key-type locks are also available, and may be keyed alike or master keyed with equipment supplied by Schlage Lock Co. and other leading lock manufacturers.

Typical Specifications—ARCHITECTURAL Model

Furnish________(quantity) CUTLER Architectural model letter boxes, catalog number________. To be finished in ________(U.S. 10 statuary bronze or U.S. 26D dull chrome.)

The solid metal doors and frames to be made of best cast bronze. Frame and all raised surfaces to be finely polished. A glass panel, held in place with brass spring brackets, to be provided in lower part of door. Each door to be supplied with a designated number (red and yellow decals) or a brass name card holder, if desired.

Doors and frames to be nested on cases of________ (22 gauge furniture steel or 1″ solid oak with white wood divisions) with 14″ depth. Finish of cases is to harmonize with adjacent building interior. A name card holder and card shall be provided on the back of each opening.

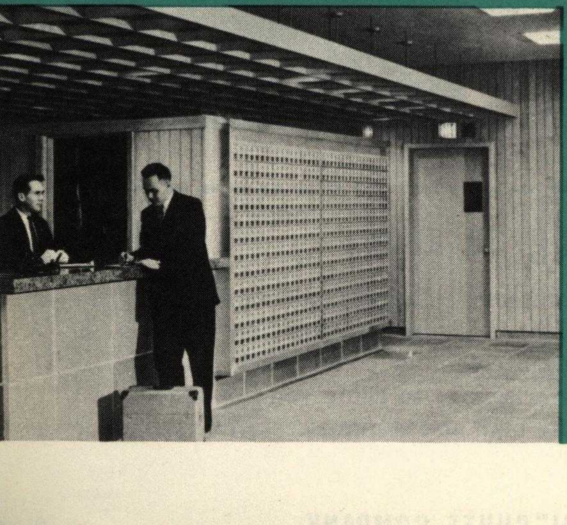
The above to be manufactured by the Cutler Mail Chute Company, Rochester, New York.

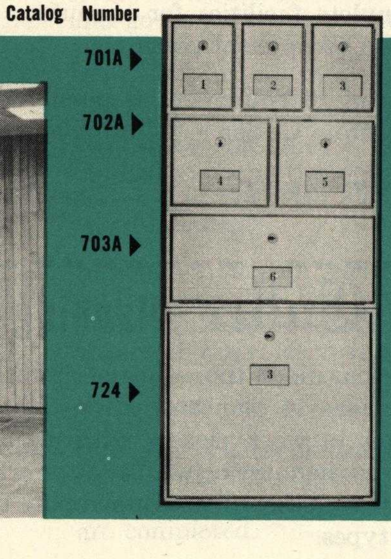
CATALOG NUMBER		OUTSIDE DIMENSIONS		INSIDE DIMENSIONS		
Combination Lock	Key Lock	Height	Width	Height	Width	Depth
#701A	#721A	5″	3⅔″	4½″	3³⁄₁₆″	14″
#702A	#722A	6¼″	5½″	5¾″	5″	14″
#703A	#723A	6¼″	11″	5¾″	10½″	14″
	#724	12½″	11″	12″	10½″	14″

TO FIGURE TOTAL SPACE REQUIRED

HEIGHT OVERALL:
Multiply number of vertical units by outside dimension height. Add 1½″.

WIDTH OVERALL:
Multiply number of horizontal units by outside dimension width. Add 1½″.

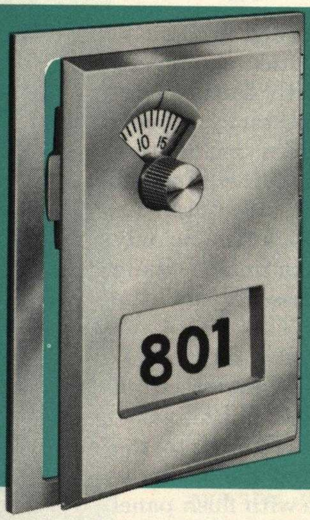


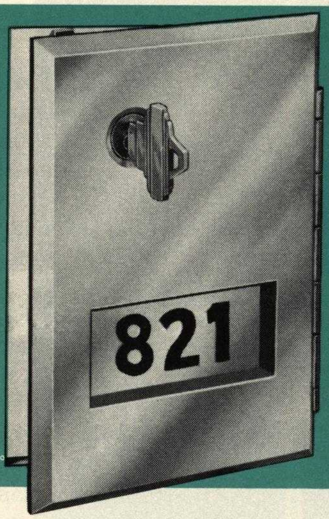


lock-type letter boxes are available in four compatible sizes

The aluminum FUTURA model and the ARCHITECTURAL model are manufactured in four compatible sizes that can be nested in any combination and arranged to meet your job requirements and space availability. This assures maximum efficiency for any installation, regardless of specific requirements or space limitations.

aluminum FUTURA model





The ultimate in plain design with concealed hinge treatment. Satin smooth finish by Master craftsmen. Equipped with combination locking mechanism with over 8,000 possible combinations. Also supplied as standard equipment is a key-type locking mechanism which, if desired, may be keyed alike or master keyed with equipment of leading lock manufacturers. On request, special finishes also available including gold or black anodize.

This model features patented construction that permits simple rearrangement of units by the owner to meet future space requirements.

Typical Specifications—FUTURA Model

Furnish__________(quantity) CUTLER FUTURA letter boxes, catalog number__________.

Frame and all raised surfaces to be finely polished, satin-finish aluminum. A designated number (in black), applied by the opaque carbolic etching process, is to be provided on plexiglas window on lower portion of each door.

The solid aluminum doors and frames to be nested on cases of 22 gauge furniture steel with 14″ depth. Finish of cases is to harmonize with adjacent building interior. A name card holder and card shall be provided on the back of each opening.

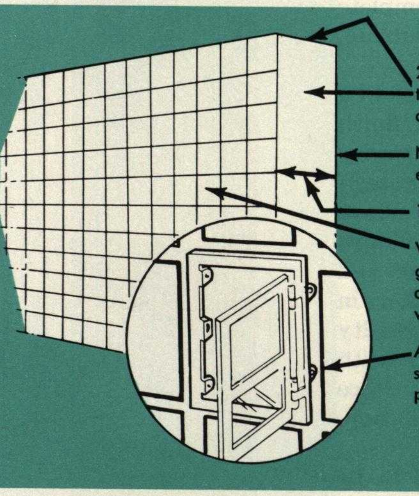
The above to be manufactured by the Cutler Mail Chute Company, Rochester, New York.

CATALOG NUMBER		OUTSIDE DIMENSIONS		INSIDE DIMENSIONS		
Combination Lock	Key Lock	Height	Width	Height	Width	Depth
#801	#821	5½″	4″	5″	3 7/16″	14″
#802	#822	5½″	6″	5″	5 7/16″	14″
#803	#823	5½″	12″	5″	11¼″	14″
	#824	11″	12″	10½″	11¼″	14″

TO FIGURE TOTAL SPACE REQUIRED

WIDTH OVERALL:
The overall width of each group of boxes should be limited to multiples of 12″ for most economical installation. Each 12″ will accommodate three #801, 821 boxes; two #802, 822 boxes; or one #803, 823 box.

HEIGHT OVERALL:
Multiply number of vertical units by 5½″ and add ¼″.



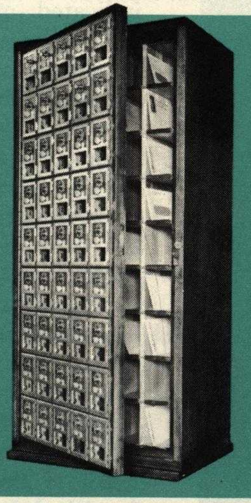
22 gauge furniture steel or 1″ thick hardwood "pigeon-hole" casing . . .

Name card holders on back of each opening . . .

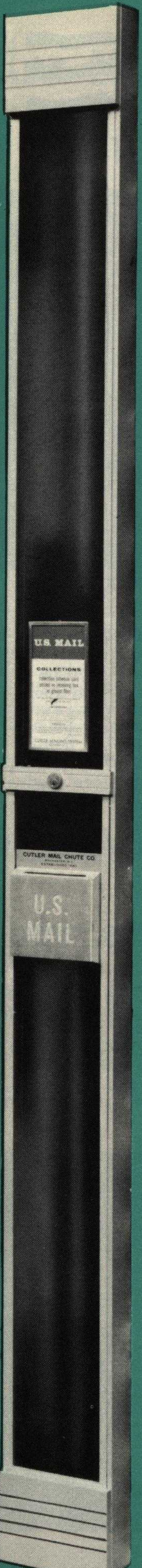
14″ depth . . .

Verticals and horizontals of 22 gauge furniture steel on steel case or ½″ solid poplar on wood nest . . .

Aluminum or bronze fronts attach solidly to nest, insuring tamper-proof construction . . .



New Master Door Front provides access to all letter boxes of installations where boxes are accessible from only one side.



MAIL CHUTES
CLASSIC model

CUTLER Mail Chutes

CUTLER Mail Chutes are unmatched in quality, design and appearance. Only Cutler equipment has heavy-duty construction with features designed to outlast building life expectancy. This is doubly important in that modern installation methods demand the mounting of this equipment within the actual building wall structure. An additional feature of Cutler chutes, available only from Cutler, permits the use of continuous chute sides to eliminate all narrow passages and the problem of mail stoppages.

The Cutler MODERNE Model (at right, page 7) is designed to conform to modern architectural composition, and to provide an economical, packaged installation. Construction is similar to the Classic Model described below, and the Moderne presents a plain, neat appearance with flush panel moldings, bases and ceiling members. This mail chute is arranged as a complete unit for each floor, and factory shipments include complete materials for each story.

The Cutler CLASSIC Model (at left) has been tested and proved in many types of buildings for many years. It is furnished with finely finished castings, with or without horizontal lines. Floor connections in each story are removable as are back pieces, with anchors and fastenings underneath. There are no lateral projections from the sides. Available in bronze, nickel bronze and stainless steel.

Suggested Specification for the CLASSIC Model

Provide all labor and material to furnish and erect ....(quantity) Cutler CLASSIC Model Mail Chutes to serve.......stories with glass moulding No........and.......(quantity) Mail Boxes in design..........(catalog number) in the location indicated on the drawing, installed complete except for rough floor openings, general cutting, patching and repairing of plaster.

The continuous vertical sides of the chute to be extruded aluminum .105″ thick, in satin finish clear anodized or enamel color (supplementary covers in bronze, nickel bronze or stainless steel) extending from the top of the box to 4′7½″ above the floor in the top story. Mail chute to have removable glass panels, floor connections and backs with bases, lock bands and ceiling collars in heavy cast metal, mailing pocket, lock and penalty card frame in each story, all in accordance with the rules and regulations of the Post Office Department governing construction, installation, guarantee and bonds.

All of the above including installation to be furnished by the Cutler Mail Chute Company, Rochester, New York.

U.S. MAIL
COLLECTIONS
CUTLER MAIL CHUTE CO
U.S. MAIL

U.S. MAIL
COLLECTIONS
CUTLER MAIL CHUTE CO.
U.S.
MAIL

twin chutes MODERNE model

Suggested Specification for the MODERNE Model

Provide all labor and material to furnish and erect ....(quantity) Cutler MODERNE Model Mail Chutes to serve.......stories with glass moulding No........and.......(quantity) Mail Boxes in design..........(catalog number) in the location indicated on the drawing, installed complete except for rough floor openings, general cutting, patching and repairing of plaster.

The continuous vertical sides of the chute to be extruded aluminum .105″ thick, in satin finish clear anodized or enamel color (supplementary covers in bronze, nickel bronze or stainless steel) extending from the top of the box to 4′7½″ above the floor in the top story. Mail chute to have removable glass panels, floor connections and backs with bases, lock bands and ceiling collars in heavy plate metal, at least 3/16″ thick, mailing pocket, lock and penalty card frame in each story, all in accordance with the rules and regulations of the Post Office Department governing construction, installation, guarantee and bonds.

All of the above including installation to be furnished by the Cutler Mail Chute Company, Rochester, New York.

Note: For installation of the MODERNE Model, general contractor must be prepared to permit CUTLER personnel to erect the complete installation on one visit to job site.

twin chute equipment

Two or more chutes should be provided for buildings of large area or of fifteen stories or more in height. While chutes may be in separate locations or close together, twin chutes side by side (see left) present several important advantages:

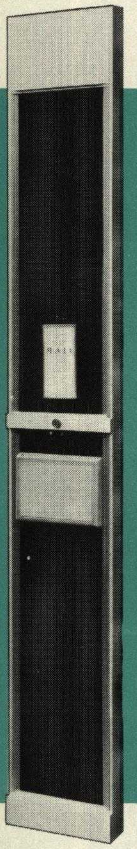
- By closing the openings in each chute on alternating stories, the mail is divided and the possibility of congestion is avoided.
- One chute may be cleaned or repaired while the other remains in service. Mail service thus continues uninterrupted.
- Both chutes can discharge into one large box.
- Establish one central location for mail.

Twin chutes have been installed in buildings with less than ten stories to provide separate handling for air mail and regular mail. Buildings of large area and height having more than one entrance should have twin chute equipment at each bank of elevators.

U.S. MAIL
COLLECTIONS
U.S.
MAIL

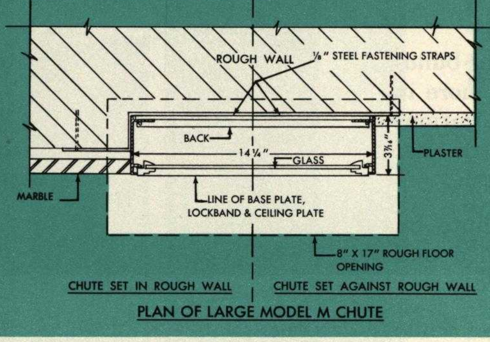
CUTLER MAIL CHUTES for special requirements

wide chutes



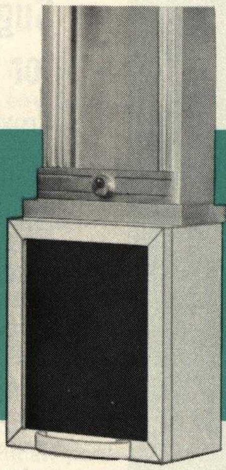
Wide chutes, available exclusively from Cutler, are designed to accommodate up to 8″ x 10″ mailing envelopes, or where exceptionally heavy volume of mail is anticipated by the owner or architect. These chutes are usually installed where extra size envelopes are in constant use, such as governmental, commercial or industrial buildings. Where desired, mail collection boxes to be attached to the receiving end are furnished as standard equipment in the desired style.

wide chute installation


ROUGH WALL
⅛″ STEEL FASTENING STRAPS
BACK
14¼″
GLASS
3⁷⁄₁₆″
PLASTER
MARBLE
LINE OF BASE PLATE, LOCKBAND & CEILING PLATE
8″ X 17″ ROUGH FLOOR OPENING
CHUTE SET IN ROUGH WALL
CHUTE SET AGAINST ROUGH WALL

PLAN OF LARGE MODEL M CHUTE

communication chutes



for hospitals and similar service buildings

Cutler communication chutes, are a low cost, efficient system for handling mail and communications. These chutes provide direct, fast communication from upper floors to kitchen, linen supply or pharmacy. There are no moving parts, no maintenance costs.

communication drop pockets

KITCHEN
CUTLER

For use to kitchen —for menu, special diet or other messages.

PHARMACY
CUTLER

For use to pharmacy —for prescriptions, instruments or other messages.

RECORDS
CUTLER

For use to records —for quick, efficient handling of all types of communications.

leasing of cutler chutes

When initial cost is a factor in the purchase of equipment, Cutler offers mail chute equipment under a lease contract. These contracts run for 15 years at a monthly rental payable quarterly.

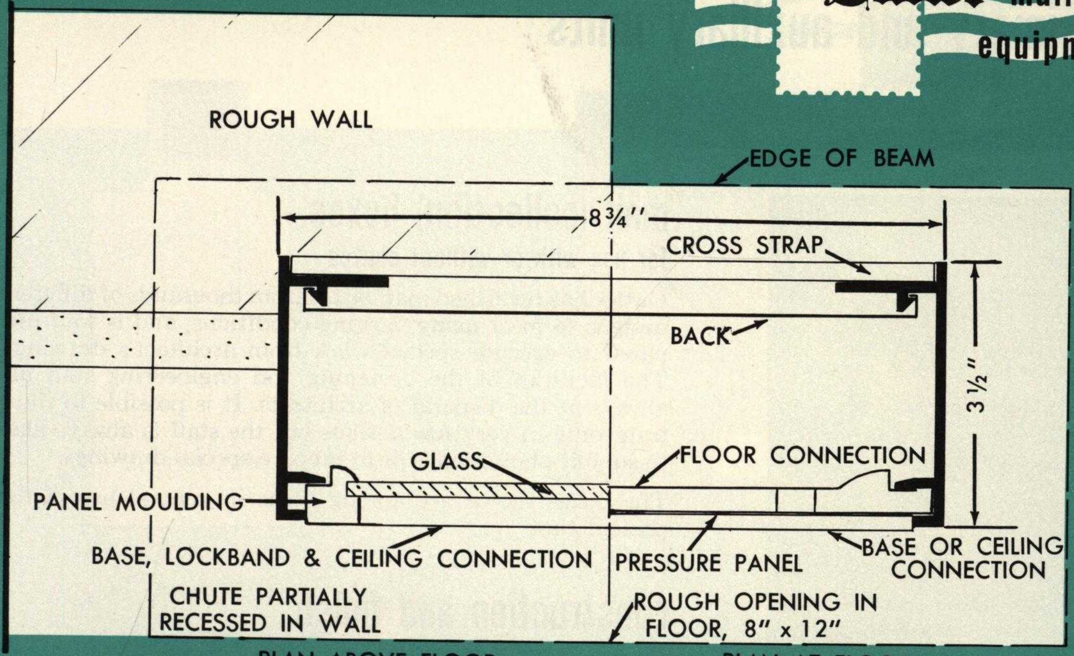
Under a leasing arrangement, mail chutes are installed flush to the wall with backing furnished by Cutler or the building owner. Sleeves or thimbles must be installed to extend through floor thickness for the chute which is fastened to the backing. There is a nominal charge for preparing the building.

A Cutler leasing arrangement has these advantages:

- small down payment
- rental charges can be carried as operational expense and thus deducted from annual income
- all service and maintenance are performed by Cutler

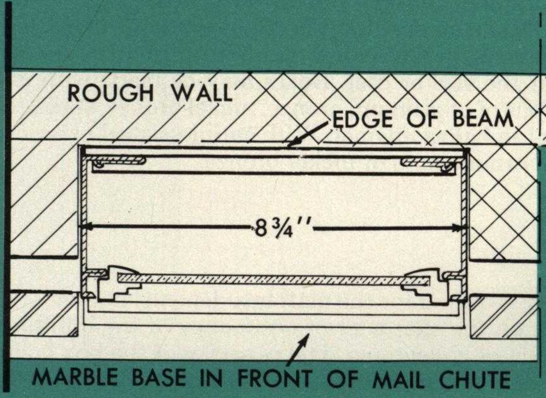
mail chute installation details

Cutler mail handling equipment

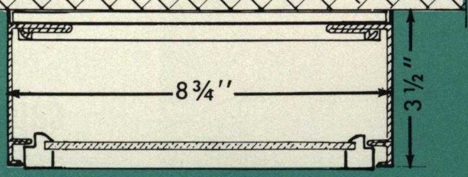

ROUGH WALL
EDGE OF BEAM
8¾″
CROSS STRAP
BACK
3½″
GLASS
FLOOR CONNECTION
PANEL MOULDING
BASE, LOCKBAND & CEILING CONNECTION
PRESSURE PANEL
BASE OR CEILING CONNECTION
CHUTE PARTIALLY RECESSED IN WALL
ROUGH OPENING IN FLOOR, 8″ x 12″

PLAN ABOVE FLOOR

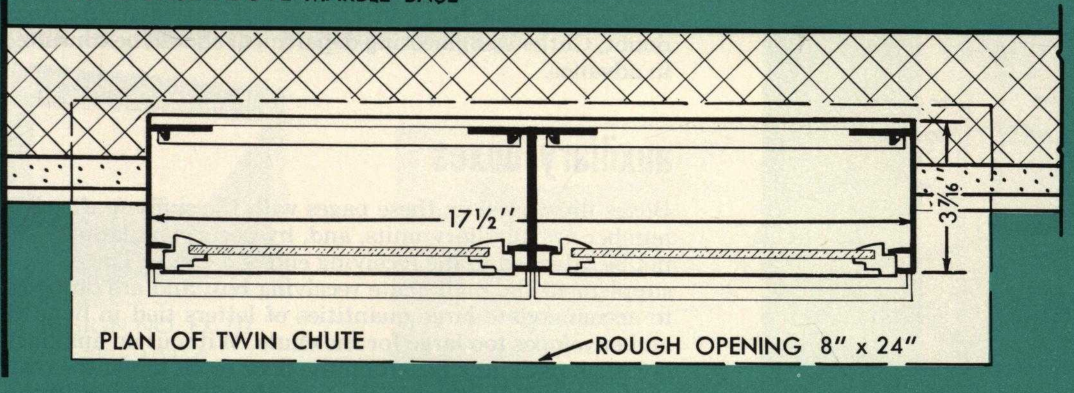
PLAN AT FLOOR


ROUGH WALL
EDGE OF BEAM
8¾″
MARBLE BASE IN FRONT OF MAIL CHUTE

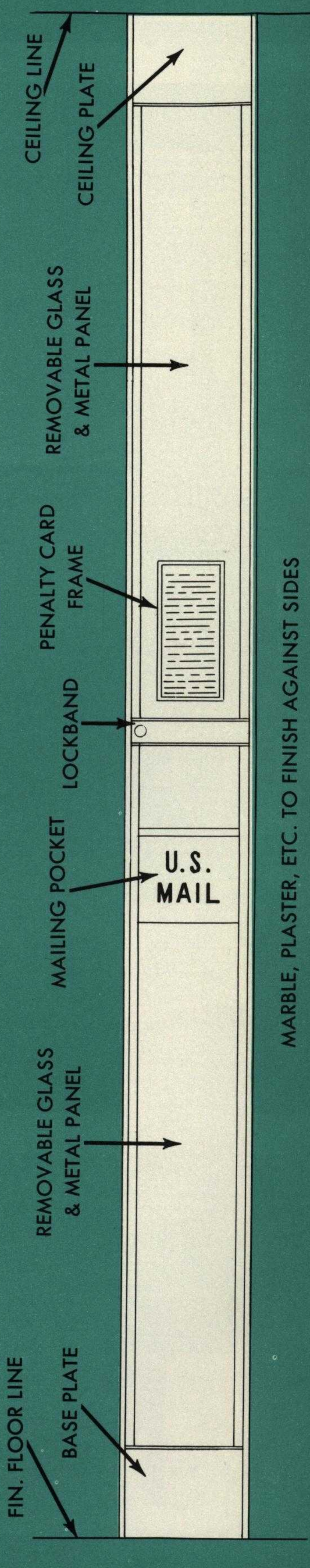
CHUTE ENTIRELY RECESSED WITH M. C. BASE ABOVE MARBLE BASE



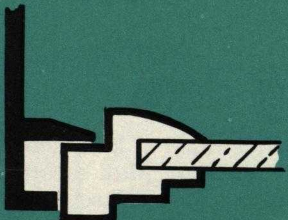
CHUTE ON FINISHED WALL


17½″
3$\frac{7}{16}$″
ROUGH OPENING 8″ x 24″

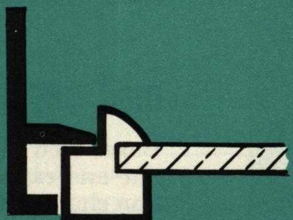
PLAN OF TWIN CHUTE


CEILING LINE
CEILING PLATE
REMOVABLE GLASS & METAL PANEL
PENALTY CARD FRAME
LOCKBAND
MAILING POCKET
U.S. MAIL
REMOVABLE GLASS & METAL PANEL
MARBLE, PLASTER, ETC. TO FINISH AGAINST SIDES
FIN. FLOOR LINE
BASE PLATE

stock design glass mouldings

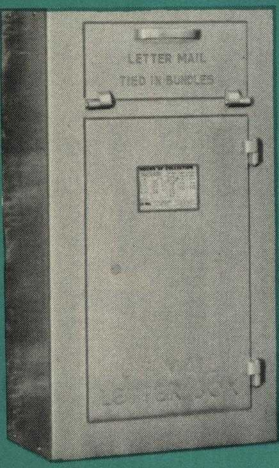


CATALOG NO. 448

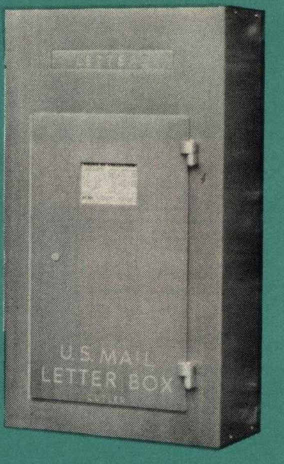


CATALOG NO. 558

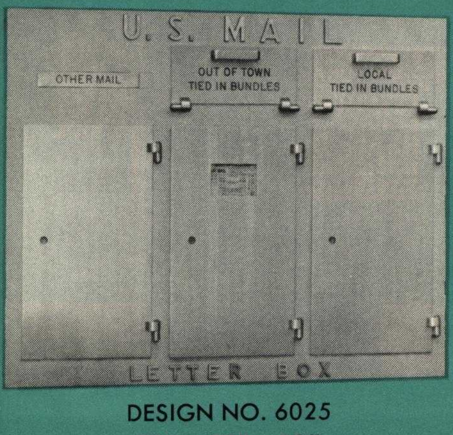
MAIL BOXES—primary and auxiliary units



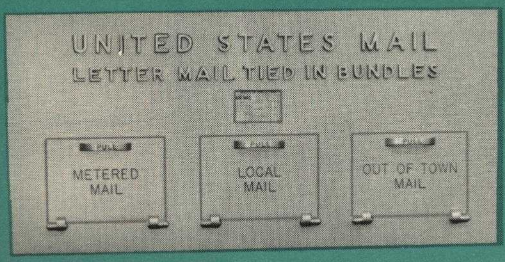
DESIGN NO. 5029A
36″ H. x 20″ W. x 12″ D.



DESIGN NO. 5029
36″ x 20″ x 10″



DESIGN NO. 6025
39″ x 50″ x 12″



DESIGN NO. 6248
26″ x 56″

mail (collection) boxes

for use with or without chutes

Cutler has furnished mail boxes from thousands of different designs to meet many varying conditions, and is well prepared to execute special work from architect's drawings. The facilities of the designing and engineering staff are always at the disposal of architects. It is possible to illustrate only a very few designs but the staff is always glad to submit photographs or to prepare special drawings.

The boxes shown are among those in general use at the present time.

construction and finish

These boxes are made of heavy sheet metal and plates with incised or applied letters, and in strict accordance with Post Office Department rules. The high standards of quality and workmanship at Cutler are maintained in all boxes, no matter what the size or cost. Boxes may be made with exposed portions of aluminum, bronze, nickel bronze, stainless steel or steel in baked enamel. With stainless steel exterior, any applied ornament is of nickel bronze.

capacity

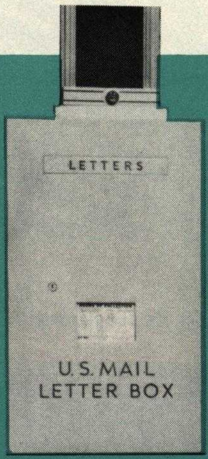
The capacity required for the mail box depends not only on the area but on the character of occupancy of the building and frequency of collections. The capacity of the box is, in every case, subject to the approval of the Postmaster. In general, a box 36″ x 20″ x 10″ is adequate for an office building of average area up to 10 stories in height. Box capacity may be increased by adding a recessed extension. In case of doubt, Cutler's engineering department should be consulted in advance.

auxiliary boxes

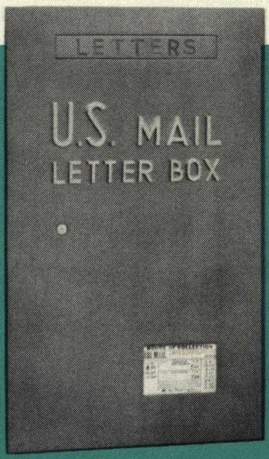
Boxes illustrated on these pages with the suffix A after box number are auxiliary units, and, by postal regulation, cannot be attached to the receiving end of a chute. These boxes supplement the mail chute receiving box, and are designed to accommodate large quantities of letters tied in bundles and envelopes too large for the chute. Without an auxiliary box such mail may be left on the floor or on top of the mail chute box. This involves the risk of loss and is untidy in appearance. These boxes are furnished in designs similar to most of the Cutler standard boxes and, if desired, may be combined with the mail chute box to form a single unit.

mail separation boxes and chutes

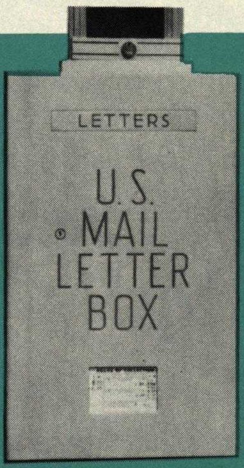
Boxes such as No. 6248 and 6025, illustrated at left, facilitate and expedite the dispatch of U.S. Mail. Mail separation chutes are a logical extension of this idea and separate chutes for air mail and regular mail are recommended. Further information will be gladly furnished on request.


LETTERS
U.S. MAIL
LETTER BOX

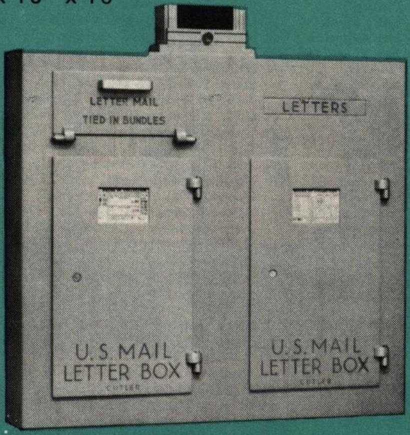
DESIGN NO. 5384
30″ x 18″ x 10″


LETTERS
U.S. MAIL
LETTER BOX

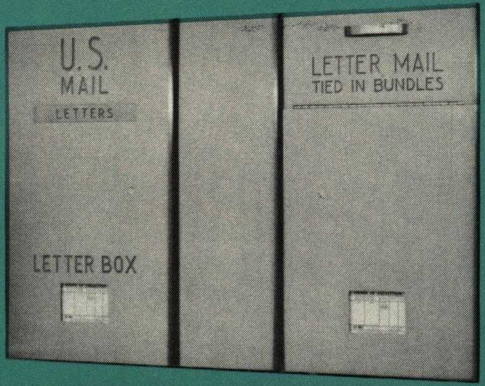
DESIGN NO. 5628
30″ x 18″ x 10″


LETTERS
U.S.
MAIL
LETTER
BOX

DESIGN NO. 5780
30″ x 18″ x 10″


LETTER MAIL
TIED IN BUNDLES
LETTERS
U.S. MAIL
LETTER BOX
U.S. MAIL
LETTER BOX

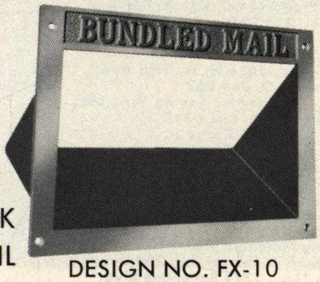
DESIGN NO. 5710
36″ x 40″ x 12″


U.S.
MAIL
LETTERS
LETTER BOX
LETTER MAIL
TIED IN BUNDLES

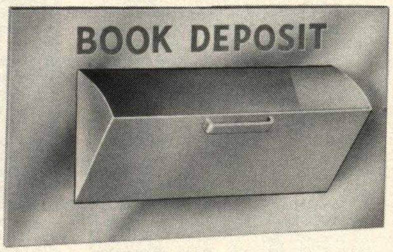
DESIGN NO. 6808
30″ x 46″ x 10″

AUXILIARY MAIL HANDLING EQUIPMENT

designed for heavy use in public buildings

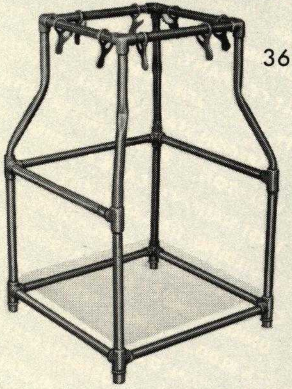

BUNDLED MAIL

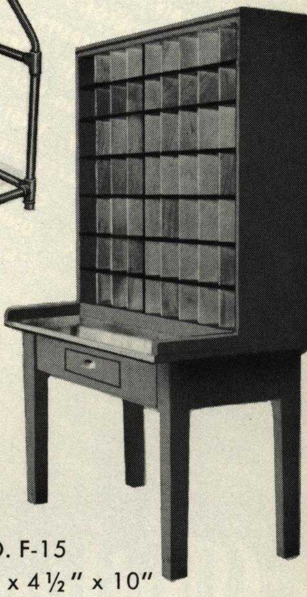
BULK MAIL SLOT
DESIGN NO. FX-10
7″ x 10½″
Mailing opening 5″ x 9″


BOOK DEPOSIT

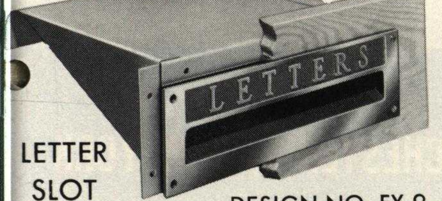
BOOK DROP
DESIGN NO. 6908
22″ x 22″
Mailing opening 18″ x 18″

MAIL BAG RACK
DESIGN NO. F-33
36″ High Top 14″ x 14″
Bottom 20″ x 20″

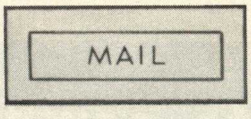




MAIL SORTING TABLE
DESIGN NO. F-15
Size of openings 5″ x 4½″ x 10″



LETTER SLOT
DESIGN NO. FX-9
3″ x 10½″
Mailing opening 1″ x 9″



LETTER SLOT
DESIGN NO. 6275
6″ x 15″
Mailing opening 3″ x 12″

CUTLER Sales Offices and Representatives

General Office
76 Anderson Avenue—Rochester 7, New York
Phone: Greenfield 3-8775

Branch Office
Architects Building
101 Park Avenue—New York City 17, N. Y.
Phone: MUrray Hill 3-5040

ALABAMA	Birmingham	C. S. Caldwell, 724 Stallings Bldg.
	Mobile	Burton Bros. Inc., 904 Government St.
ALASKA	Anchorage	Fryer-Knowles Inc., Post Rd.
ARIZONA	Phoenix	Baker, Thomas Co., 300 S. 12th St.
ARKANSAS	Little Rock	Hartenstein Elevator Co., 1020 Rock St.
CALIFORNIA	Los Angeles	Montgomery Hardware Co., 3170 West Olympic Blvd.
	San Francisco	Price Building Specialties, Inc., 2652 Harrison St.
COLORADO	Denver	The George P. Heinz Co., 1645 Ivanhoe St.
DIST. OF COL.	Washington	Bruce Lee, 8116 Flower Ave., Takoma Park, Md.
FLORIDA	Jacksonville	Builders Products Co., 221 East Eighth St.
	Miami	O. D. Brinson, 2872 N.W. 34th St.
	Orlando	Leonard Frank, P. O. Box 318, Lockhart
	Tampa	T. E. Jacobson, P. O. Box 8006
GEORGIA	Atlanta	L. E. Murray, Northside Station, P. O. Box 11975
ILLINOIS	Chicago	Kaufman and Brodt, Inc., 2100 Builders Building
	Decatur	Ornamental Metal Works Co., 420 S. Franklin St.
INDIANA	Indianapolis	General Supply & Tool Co., 1011 N. Pennsylvania Ave.
IOWA	Des Moines	Deco Engineering Products, 1112 Locust St.
	Sioux City	The Haakinson & Beaty Co., Inc., First & Nebraska Sts.
KANSAS	Wichita	Chester L. Anderson Co., 700 South Emporia
KENTUCKY	Louisville	The Equipment Specialties Co., 726 S. Jackson St.
LOUISIANA	New Orleans	J. T. Mann and Co., 800 Audubon Bldg.
	Shreveport	Harold Lipper Co., 301 Spring St.
MAINE	Waterville	Rollins-Dunham Co., 29 Front St.
MARYLAND	Baltimore	Bruce Lee, 8116 Flower Ave., Takoma Park, Md.
MASSACHUSETTS	Boston	Wills and Hill, 99 Bedford St.
MICHIGAN	Detroit	Saunders and Co., 18263 W. McNichols Rd.
MINNESOTA	Duluth	John V. Lynch and Co., 129 E. Victoria St.
	St. Paul	Corning-Donahue, Inc., 1258 Bohn Ave.
MISSISSIPPI	Jackson	Thrasher Co., 2689 Livingston Rd.
MISSOURI	Kansas City	Ryan and Pigeon, 2826 Main St.
	St. Louis	H. C. Morrison Co., 4931 Lindell Blvd.
MONTANA	Butte	Archie W. Adams, P. O. Box 186
NEBRASKA	Omaha	Porter Trustin Co., 2300 Blk. N. 18th St.
NEW MEXICO	Santa Fe	Builders Specialty Service, P. O. Box 2098
NEW YORK	Buffalo	Troup Engineering Co., 295 Auburn Ave.
	New York City	Bronstein—Root Co., Inc., 101 Park Ave.
	Watertown	Afsco Specialties Inc., P. O. Box 273
NORTH CAROLINA	Charlotte	Edwin C. Boyette and Son, Inc., 216 E. Morehead St.
OHIO	Cleveland	The Institutional Equipment Co., 5701 Detroit Ave.
	Cincinnati	Durbrow-Otte Associates, Inc., 1426 Clay St.
	Columbus	K-M-S Building Products Co., 203 W. 3rd Ave.
	Toledo	Vicon Supply Co., 3910 Secor Rd.
OKLAHOMA	Oklahoma City	Bissell Builders Supply Co., 3011 Paseo
	Tulsa	Bissell Builders Supply Co., P. O. Box 1665
OREGON	Portland	Mercer Steel Co., Inc., 2636 N. W. 26th Ave.
PENNSYLVANIA	Harrisburg	Harry Mason Co., P. O. Box 852
	Philadelphia	F. J. Wilson Co., 942 Western Saving Fund Bldg.
	Pittsburgh	Emerson Randolph, P. O. Box 6332
TENNESSEE	Chattanooga	The Currin Co., Inc., 1208 Carter St.
	Nashville	Crawford Sales Co., 1810 Broad St.
TEXAS	Austin	L. B. Shifflett Co., 710 West Ave.
	Dallas	R. M. Sedwick Co., 230 Merchantile Continental Bldg.
	El Paso	Neff-Buckner-Holt, Inc., 600 W. Paisano Drive
	Houston	James M. Pryor Co., 718 M & M Bldg.
	San Antonio	Lampron & Larson Co., 413 Almos Drive, W.
	Tyler	Big State Building Materials, Inc., P. O. Box 1182
UTAH	Salt Lake City	Williams Equipment & Control Co., 204 Dooly Bldg.
VIRGINIA	Norfolk	Hall-Hodges Co., Inc., 1344 Ballentine Blvd.
	Richmond	John H. Bagley, 1112 E. Cary St.
	Roanoke	Cates Building Specialties, Inc., P. O. Box 2489
WASHINGTON	Seattle	Fryer-Knowles, Inc., 6202 Roosevelt Way
	Spokane	Fryer-Ford Company, Peyton Bldg.
WEST VIRGINIA	Charleston	Fireproof Products Co., 422 Professional Bldg.
CANADA	Montreal	Robert Mitchell Co. Ltd., 350 Decarie Blvd.
HAWAII	Honolulu	Honolulu Iron Works Co., 165 Broadway, N.Y.C.
MALAYA	Singapore	Hecla, 49 Scotts Road
PUERTO RICO	San Juan	Julio T. Rodriguez, P. O. Box 1325
SOUTH-CENTRAL AMERICA		De Sola Bros., Inc., 111 Wall St., N.Y.C.

Cutler mail chute company ROCHESTER 7, NEW YORK

a subsidiary of The Federal Equipment Co. / Carlisle, Pa.

PRINTED IN U.S.A.

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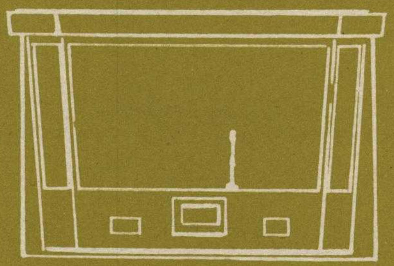
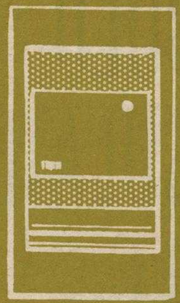
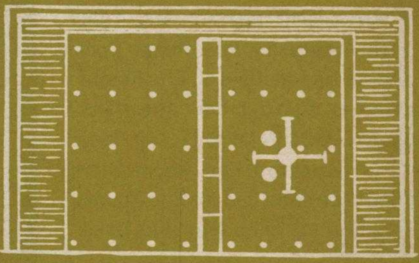
Di

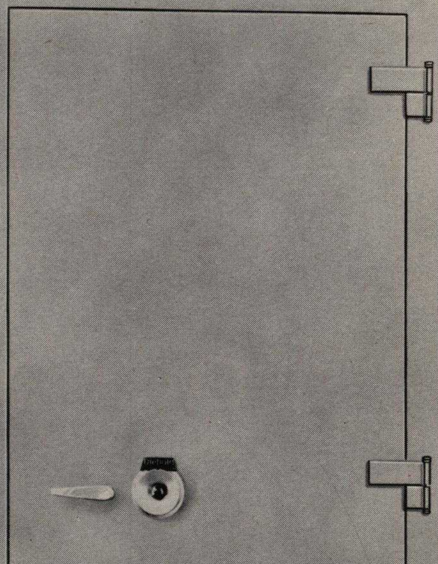




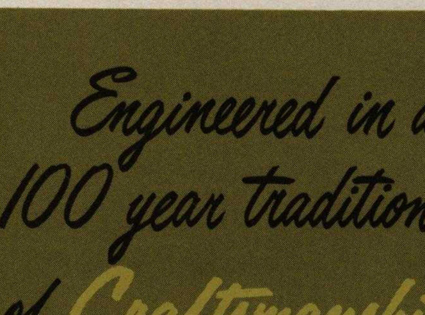
DIEBOLD



Engineered in a 100 year tradition of Craftsmanship



FIRE RESISTIVE VAULT DOORS
DRIVE-IN BANKING WINDOWS
WALK-UP BANKING WINDOWS
BANK VAULT DOORS
AFTER-HOUR* DEPOSITORIES



DIEBOLD

INCORPORATED
CANTON, OHIO

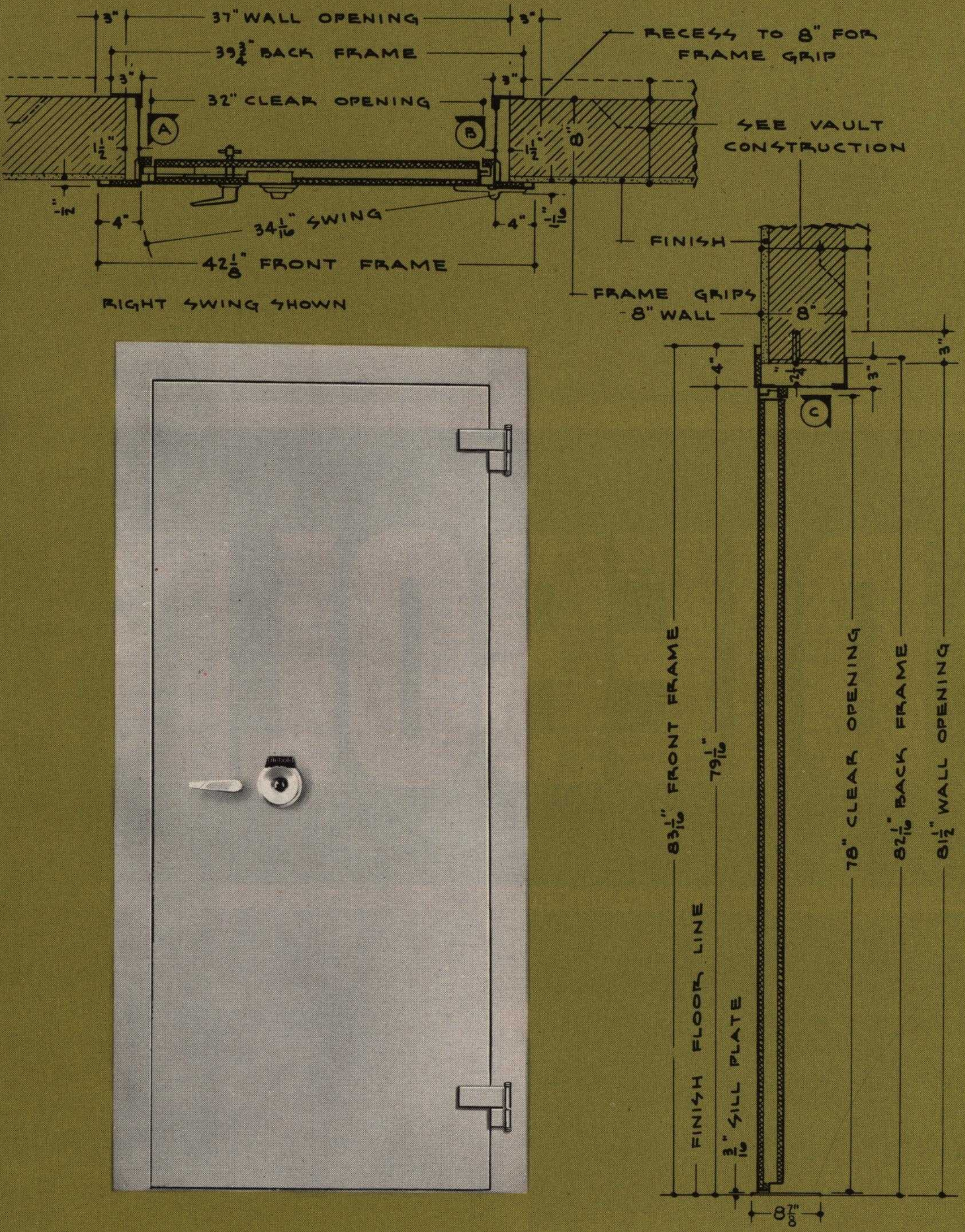
DIEBOLD INSULATED VAULT DOORS

RECOMMENDED USE

1 HR. DOOR MODEL NO. 1002 Fire-insulated File Room Door should be specified on File Rooms rated as ½-to-1 hour fire risks.
½ HR. DOOR MODEL NO. 0528 Fire-insulated File Room Door should be specified for File Rooms rated as up to ½ hour fire risks.

ARCHITECTS SPECIFY AS FOLLOWS

1 & ½ HR. DOORS "The contractor shall furnish and/or install Diebold Model 1002 (1 hour)/0528 (½ hour) (right or left swing), flat sill Fire-insulated File Room Door(s) bearing the (1 or ½ hr.) labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device Label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive or torch attack. The door shall have a clear opening of 78" high and 32" wide with entrance flush with finished floor level. Door and frame shall be filled with insulation. The door shall be 2¼" thick on edge, locked by five ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's installation instructions."


3"
37" WALL OPENING
3"
39 3/4" BACK FRAME
RECESS TO 8" FOR FRAME GRIP
3"
3"
32" CLEAR OPENING
A
B
1 1/2
1 1/2
8
SEE VAULT CONSTRUCTION
1/2 IN
4"
34 1/16" SWING
4"
1 1/2
42 1/8" FRONT FRAME
RIGHT SWING SHOWN
FINISH
FRAME GRIPS 8" WALL
8"
4"
2 1/4
3"
3"
C
83 1/16" FRONT FRAME
79 1/16
FINISH FLOOR LINE
3/16" SILL PLATE
78" CLEAR OPENING
82 1/16" BACK FRAME
81 1/2" WALL OPENING
8 7/8"

1 or ½ HR.

MODELS 1002 & 0528

INSURANCE: Class "B" Mercantile Burglary Insurance. Underwriters' labeled Relocking Device entitles users to a 10% preferential burglary insurance discount. **LABELS:** Underwriters' Laboratories fire label and Relocking Device label; Safe Manufacturers' National Association fire label. **WALL OPENING:** See details above. **EMERGENCY ESCAPE DEVICE:** Allows person locked in vault to open door from inside. **SHIPPING WEIGHT:** 1002—565 lbs.; 0528—550 lbs. Color: Chroma-gray fine-wrinkle.

SPEC
BUILT TO COMPLY WITH
SAFE MANUFACTURERS NATIONAL ASSOCIATION
SPECIFICATION FOR
FIRE-INSULATED VAULT DOOR
CAT. NO.

Underwriters Laboratories Inc.
INSPECTED
RELOCKING DEVICE

Underwriters' Laboratories, Inc.
INSPECTED
VAULT DOOR
NO.

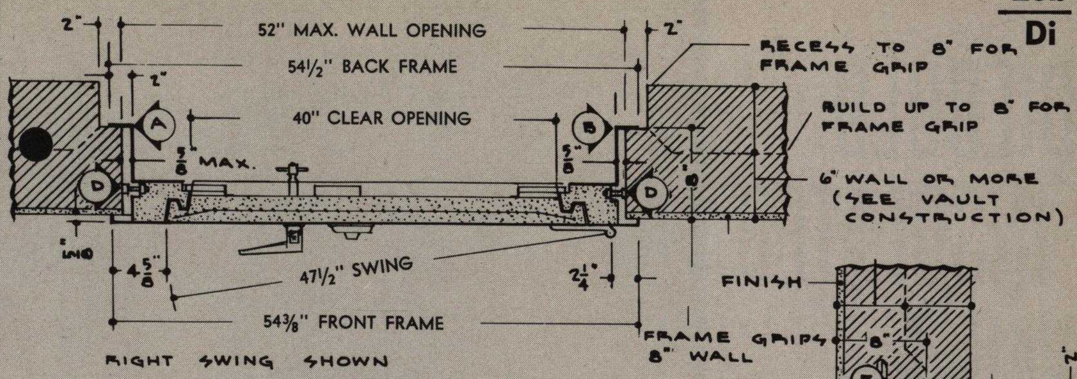
DIEBOLD INSULATED VAULT DOORS

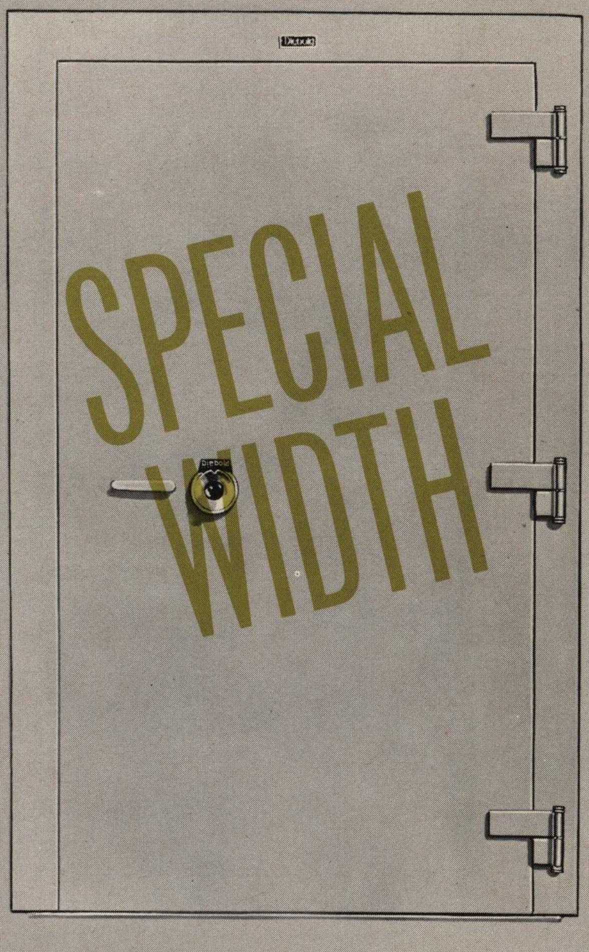
RECOMMENDED USE

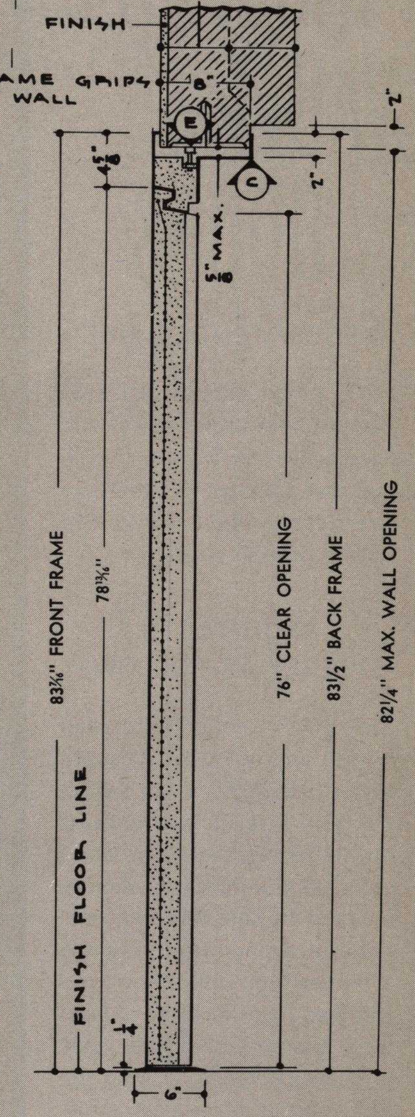
2 HR. DOOR MODEL NO. 2082 Fire-insulated Vault Doors should be specified for vaults in buildings that are rated as 1-to-2 hour fire risks by the Diebold Fire Hazard Analysis Chart.

ARCHITECTS SPECIFY AS FOLLOWS

2 HR. DOOR "The contractor shall furnish and/or install Diebold Model 2082 (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the 2-hour labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive, or torch attack. The door shall have a clear opening of 76" high by 40" wide, with entrance flush with finished floor level. Door and frame shall be filled with "Monolite", a monolithic fire-insulation 2½" thick over face of door. The door shall be locked by ten ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."


2"
52" MAX. WALL OPENING
2"
54½" BACK FRAME
2"
40" CLEAR OPENING
A
B
5/8" MAX.
5/8"
D
D
4 5/8"
47½" SWING
2¼"
54⅜" FRONT FRAME
RIGHT SWING SHOWN
RECESS TO 8" FOR FRAME GRIP
BUILD UP TO 8" FOR FRAME GRIP
6" WALL OR MORE (SEE VAULT CONSTRUCTION)

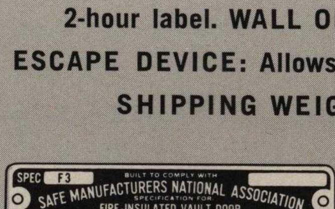

Diebold
SPECIAL WIDTH
Diebold

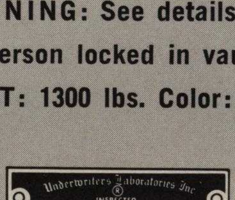

FINISH
FRAME GRIPS 8" WALL
8"
E
C
2"
2"
4 5/8"
5/8" MAX.
83 3/16" FRONT FRAME
78 13/16"
76" CLEAR OPENING
83½" BACK FRAME
82¼" MAX. WALL OPENING
FINISH FLOOR LINE
¼"
6"

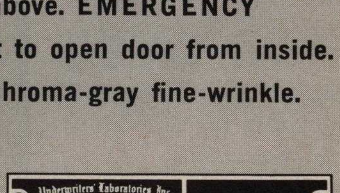
2 HR.

MODEL 2082

INSURANCE: Class "B" Mercantile Burglary Insurance. Underwriters' labeled Relocking Device entitles users to a 10% preferential burglary insurance discount. **LABELS:** Underwriters' Laboratories 2-hour label and Relocking Device Label; Safe Manufacturers' National Association 2-hour label. **WALL OPENING:** See details above. **EMERGENCY ESCAPE DEVICE:** Allows person locked in vault to open door from inside. **SHIPPING WEIGHT:** 1300 lbs. Color: Chroma-gray fine-wrinkle.


SPEC F3
BUILT TO COMPLY WITH
SAFE MANUFACTURERS NATIONAL ASSOCIATION
SPECIFICATION FOR
FIRE-INSULATED VAULT DOOR
CAT. NO.


Underwriters' Laboratories Inc
INSPECTED
RELOCKING DEVICE


Underwriters' Laboratories, Inc.
INSPECTED
VAULT DOOR
NO.

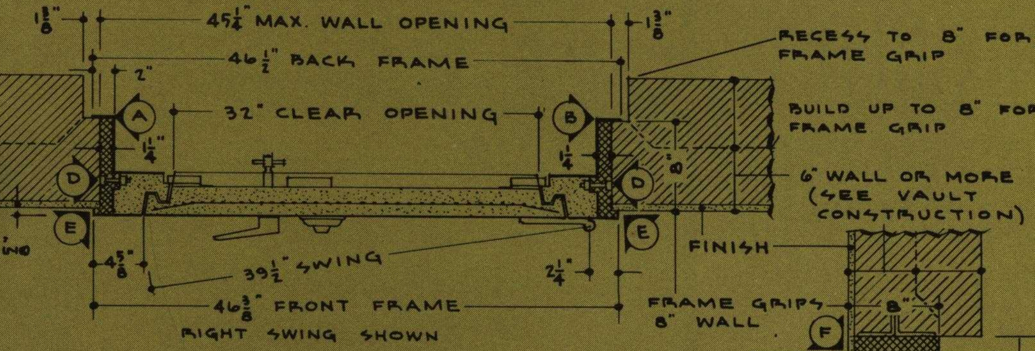
DIEBOLD
INSULATED VAULT DOORS

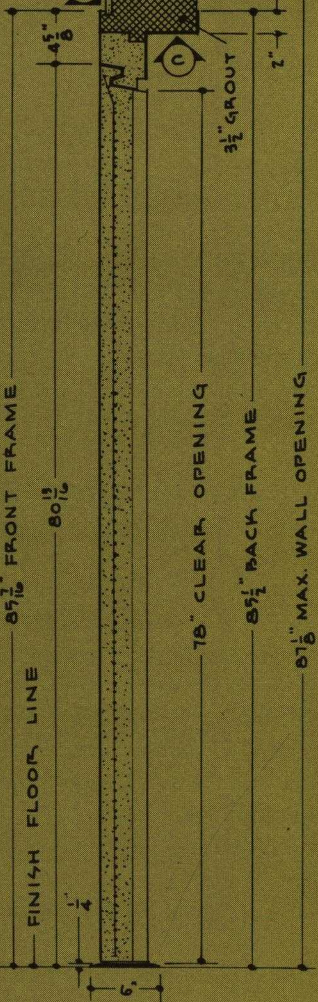
RECOMMENDED USE

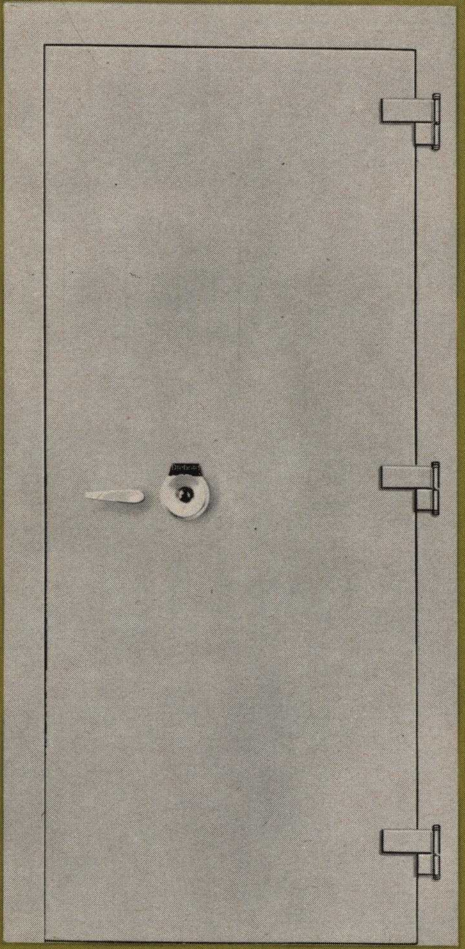
2 HR. DOOR MODEL NO. 2080 Fire-insulated Vault Doors should be specified for vaults in buildings that are rated as 1-to-2 hour fire risks by the Diebold Fire Hazard Analysis Chart.

ARCHITECTS SPECIFY AS FOLLOWS

2 HR. DOOR "The contractor shall furnish and/or install Diebold Model 2080 (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the 2-hour labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive, or torch attack. The door shall have a clear opening of 78″ high by 32″ wide, with entrance flush with finished floor level. Door and frame shall be filled with "Monolite", a monolithic fire-insulation 2½″ thick over face of door. The door shall be locked by ten ¾″ dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."


1 3/8"
45 1/4" MAX. WALL OPENING
1 3/8"
46 1/2" BACK FRAME
2"
32" CLEAR OPENING
A
B
1 1/4"
1 1/4"
8"
D
D
E
E
1/8
4 5/8"
39 1/2" SWING
2 1/4"
46 3/8" FRONT FRAME
RIGHT SWING SHOWN
RECESS TO 8" FOR FRAME GRIP
BUILD UP TO 8" FOR FRAME GRIP
6" WALL OR MORE (SEE VAULT CONSTRUCTION)
FINISH


FRAME GRIPS 8" WALL
8"
F
C
4 5/8"
2"
3 1/2" GROUT
85 7/16" FRONT FRAME
80 13/16
78" CLEAR OPENING
85 1/2" BACK FRAME
87 1/8" MAX. WALL OPENING
FINISH FLOOR LINE
1/4
6"



2 HR.

MODEL 2080

INSURANCE: Class "B" Mercantile Burglary Insurance. Underwriters' labeled Relocking Device entitles users to a 10% preferential burglary insurance discount. **LABELS:** Underwriters' Laboratories 2-hour label and Relocking Device Label; Safe Manufacturers' National Association 2-hour label. **WALL OPENING:** See details above. **EMERGENCY ESCAPE DEVICE:** Allows person locked in vault to open door from inside. **SHIPPING WEIGHT:** 1200 lbs. Color: Chroma-gray fine-wrinkle.

SPEC F3
BUILT TO COMPLY WITH
SAFE MANUFACTURERS NATIONAL ASSOCIATION
SPECIFICATION FOR
FIRE-INSULATED VAULT DOOR
CAT. NO.

Underwriters Laboratories Inc.
INSPECTED
RELOCKING DEVICE

Underwriters' Laboratories, Inc.
INSPECTED
VAULT DOOR
NO.

DIEBOLD INSULATED VAULT DOORS

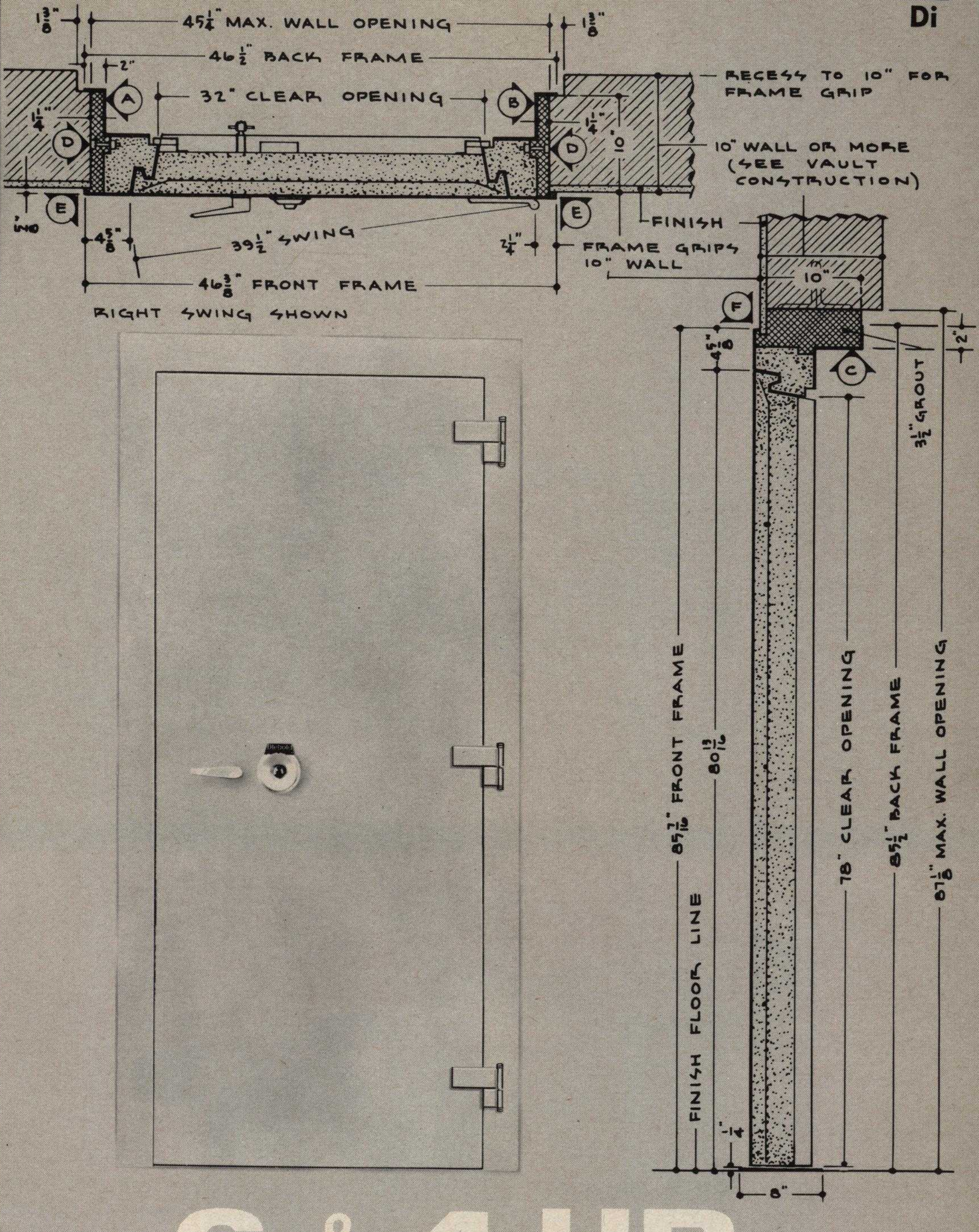
RECOMMENDED USE

6 HR. DOOR MODEL NO. 6080 Fire-insulated Vault Door should be specified for vaults in buildings that are rated as 4-to-6 hour fire risks by the Diebold Fire Hazard Analysis Chart.

4 HR. DOOR MODEL NO. 4080 Fire-insulated Vault Door should be specified for vaults in buildings that are rated as 2-to-4 hour fire risks by the Diebold Fire Hazard Analysis Chart.

ARCHITECTS SPECIFY AS FOLLOWS

6 & 4 HR. DOORS "The contractor shall furnish and/or install Diebold Model No. 6080 (6 hour) /4080 (4 hour) (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the (6 or 4-hour) labels of the Underwriters' Laboratories, Inc. and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive or torch attack. The door shall have a clear opening of 78" high by 32" wide, with entrance flush with finished floor level. Door and frame shall be filled with "Monolite", a monolithic fire-insulation 4½" thick over the face of the door. The door shall be locked by ten ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."


1 3/8"
45 1/4" MAX. WALL OPENING
1 3/8"
46 1/2" BACK FRAME
2"
32" CLEAR OPENING
A
B
1 1/4"
D
D
1 1/4"
10"
RECESS TO 10" FOR FRAME GRIP
10" WALL OR MORE (SEE VAULT CONSTRUCTION)
E
E
1/16"
4 5/8"
39 1/2" SWING
2 1/4"
FINISH
FRAME GRIPS 10" WALL
46 3/8" FRONT FRAME
RIGHT SWING SHOWN
Diebold
10"
F
4 5/8"
C
2"
3 1/2" GROUT
85 7/16" FRONT FRAME
80 13/16
78" CLEAR OPENING
85 1/2" BACK FRAME
87 1/8" MAX. WALL OPENING
FINISH FLOOR LINE
1/4"
8"

6 & 4 HR.

MODELS 6080 & 4080

INSURANCE: Class "B" Mercantile Burglary Insurance. Underwriters' labeled Relocking Device entitles users to a 10% preferential burglary insurance discount. **LABELS:** Underwriters' Laboratories fire label and Relocking Device label; Safe Manufacturers' National Association fire label. **WALL OPENING:** See details above. **EMERGENCY ESCAPE DEVICE:** Allows person locked in vault to open door from inside. **SHIPPING WEIGHT:** 6080 — 1650 lbs.; 4080 — 1550 lbs. Color: Chroma-gray fine-wrinkle.

SPEC F3
BUILT TO COMPLY WITH
SAFE MANUFACTURERS NATIONAL ASSOCIATION
SPECIFICATION FOR
FIRE-INSULATED VAULT DOOR
CAT. NO.

Underwriters' Laboratories Inc.
INSPECTED
RELOCKING DEVICE

Underwriters' Laboratories, Inc.
INSPECTED
VAULT DOOR
NO.

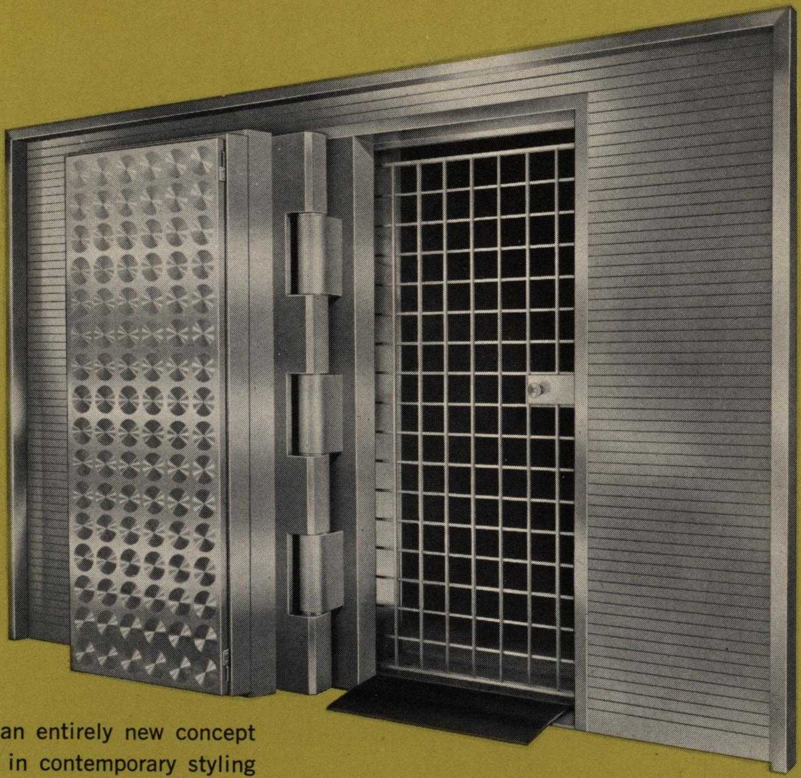
Diebold Drive-In Banking Windows

A leader in the bank equipment field for more than 100 years, Diebold has continually introduced new ideas in drive-in banking...ideas that benefit both bank customers and bank personnel. The Diebold line of drive-in banking windows is a comprehensive one, offering the right type of window for every application.

Walk-Up Banking Windows

A logical and successful development, Diebold Walk-Up banking windows help relieve over-crowded banking rooms...bring to pedestrians the same convenience and speed drive-in banking brings to motorists. Diebold Walk-Up banking windows are available in a wide range of different models.

FOR COMPLETE INFORMATION



The Diebold-Basic bank vault door initiated an entirely new concept in vault door design ... combining the finest in contemporary styling with the impregnable security traditional with bank vault doors. Diebold-Basic doors are available with a wide choice of architrave styling options ... blend magnificently with any bank interior design.

New "Polaris" After-Hour Depository provides for both bagged and envelope deposits ... is handsomely styled to complement contemporary architecture. Diebold After-Hour Depositories have been approved by Underwriters' Laboratories — provide the ultimate in protection and convenience.

AFTER HOUR DEPOSITORY
LIFT FOR ENVELOPE DEPOSIT
DIEBOLD
INCORPORATED
AFTER HOUR DEPOSITORY

WRITE DIEBOLD

VAULT CONSTRUCTION

for fire-resistive record-storage vaults

Size of Vault: Record-storage vaults should not exceed 5000 cu. ft. in volume and the height should not exceed 11 feet.

Materials: Walls should be built of (1) reinforced concrete, (2) sand-lime building brick, (3) hollow load-bearing concrete masonry units, or a hollow wall of brick. Walls of hollow units, or hollow construction shall be plastered both sides with at least ½″ of gypsum or portland cement plaster. See chart at right for additional information.

For Fire-Resistive File Rooms: As a general measurement, File room construction should parallel that of 2 hour construction for fire-resistive record-storage vaults. Size: File storage rooms shall not exceed 50,000 cu. ft. in volume (preferably not over 40,000 cu. ft.) and the height shall not exceed 15 ft. Minimum Wall Thicknesses: The following construction is recommended — (1) Reinforced Concrete . . . 4 in., (2) Plain Concrete . . . 6 in., (3) 6 inch hollow tile, 6 inch concrete block, or 6 inch gypsum block, plaster on both sides . . . 7 in., (4) Brick . . . 8 in.

The Chart shown at right is a table of suggested minimum wall thickness that applies to ground-supported vaults. For structure-supported vaults, use the wall thickness shown for the TOP floor of ground-supported vaults. Complete specifications for the construction of Fire-insulated Vaults can be had on request.

Kind of Material	Reinforced Concrete			Brick (a)			Hollow Units (b)
Class of Wall	AA (6 hr.)	A (4 hr.)	B (2 hr.)	AA (6 hr.)	A (4 hr.)	B (2 hr.)	B (2 hr.)
Floor—counting from top down	THICKNESS OF WALL IN INCHES						
Top	10	8	6	12	12	8	8
2nd from top	10	8	8	12	12	12	12
3rd from top	10	10	10	12	12	12	12
4th from top	12 (c)	10	10	16 (d)	16 (d)	16 (d)	16 (d)
5th from top	12	12	12	16	16	16	16
6th from top	12	12	12	20 (d)	16	16	16
7th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
8th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
9th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
10th from top	14 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)

Example: For a four-story building use thicknesses in first four lines of table, the fourth line representing the minimum thickness suggested for walls of a ground floor vault, the first line the thickness of walls for a fourth floor vault, etc.

Example: For an eight-story building use thicknesses in first eight lines of table, the eighth line representing the minimum thickness suggested for walls of a ground floor vault, the first line the thickness for walls (panel construction) for an eighth floor vault, etc.

(a) Sand-lime building brick—American Standard ASA-78.1-1942.

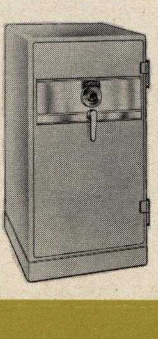
(b) Hollow Load-Bearing Concrete Masonry Units — American Standard ASA-79.1-1942; or hollow wall of bricks.

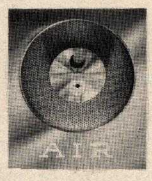
(c) Thickness in panel construction may be 2 in. less.

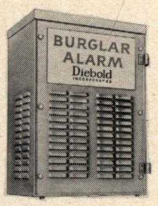
(d) Thickness in panel construction may be 4 in. less.

(e) These thicknesses apply to panel construction.

DIEBOLD LEADERSHIP is also EXPRESSED IN THESE FINE PRODUCTS







SERVICE FROM COAST TO COAST

Diebold service representatives are strategically located from coast to coast. For the Diebold branch nearest you, please check the Yellow Pages of your telephone directory or write Diebold, Incorporated; Canton 2, Ohio.

DIEBOLD
INCORPORATED
CANTON, OHIO

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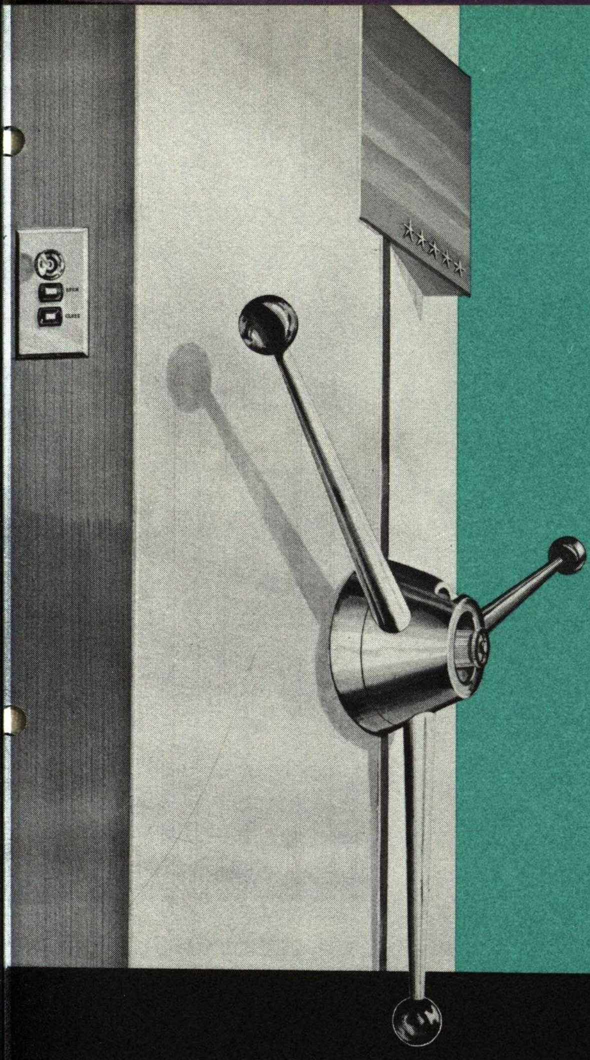


HHM

Herring•Hall•Marvin

- VAULT ENTRANCES
- DRIVE-UP WINDOWS
- PEDESTRIAN WINDOWS
- DEPOSITORIES
- STEEL UNDER-COUNTER UNITS
- TELLER'S BUSES

Also:
FIRE-RESISTIVE RECORD VAULT
AND STORAGE ROOM DOORS
FOR STORES AND OFFICES

Five Star Constellation®

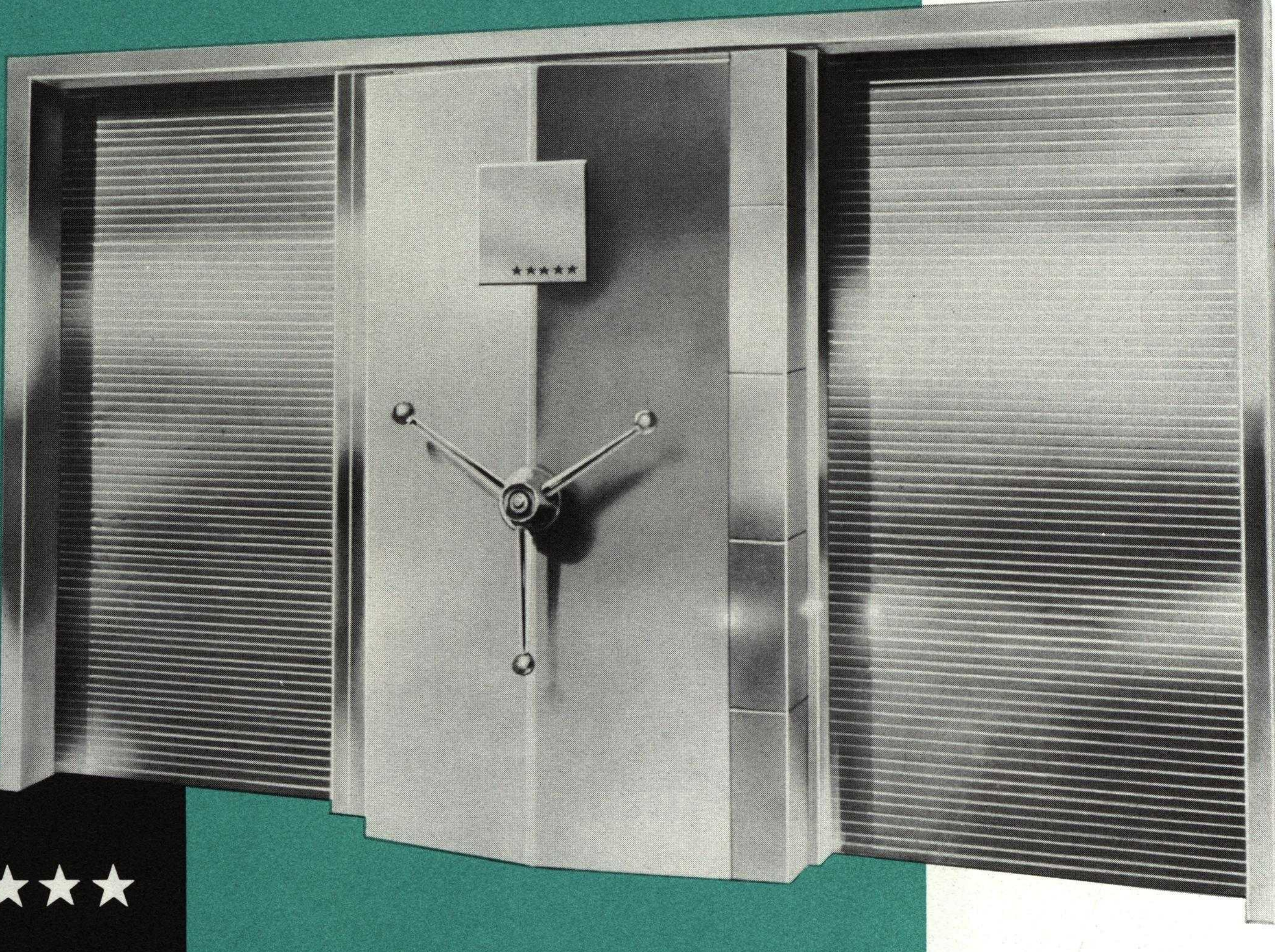
—a completely coordinated line of equipment for banks and savings and loan associations

HERRING·HALL·MARVIN SAFE COMPANY
HAMILTON, OHIO

HERRING·HALL·MARVIN

ALL OVER THE WORLD . . .
Herring·Hall·Marvin
. . . A SAFE NAME

Five Star Constellation Vault Entrance



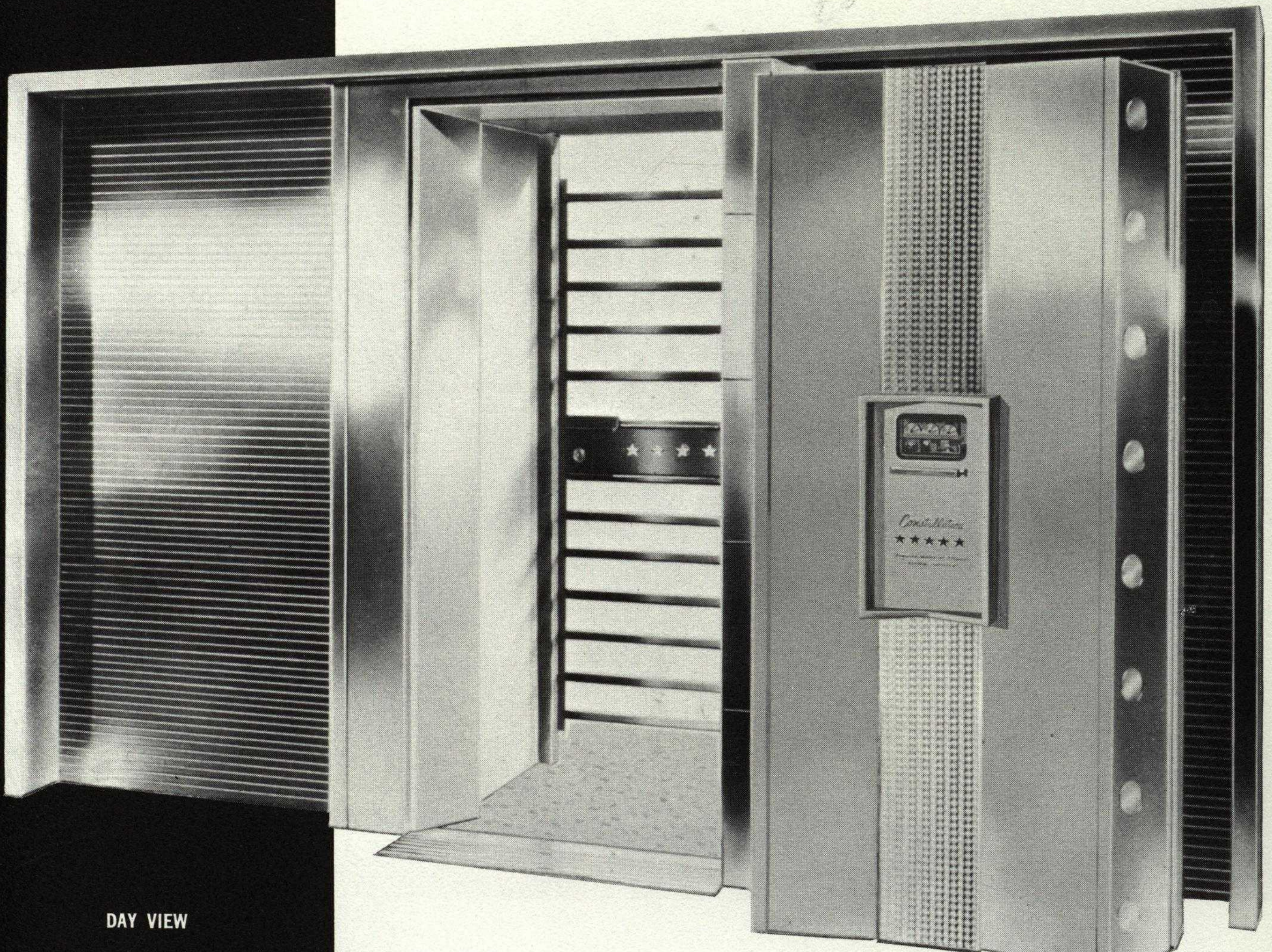
★★★★★

NIGHT VIEW. Architrave design "A". 7′ high; 10′7″ wide.

This magnificent vault entrance—the Herring·Hall·Marvin Five Star Constellation—is operated by electro-hydraulic power—completely automatic. After turning on the power with a switch key (kept by a bank official), the push of a button operates the mechanism which withdraws the locking bolts and swings the door open over an arc of 180 degrees. To close the door the operation is exactly the same, in reverse.

In the event of power failure, the decorative triplex handle can be used to operate the door manually.

Doors can be furnished in all standard thicknesses—3½″, 7″, 10″, 12″, 16″ and 20″. Push-button control is standard equipment but manual control may be specified. The architrave may be specified in any width. Alternate architrave designs and masonry openings are shown on pages 4 and 5.


DAY VIEW

OTHER FEATURES OF DESIGN AND EQUIPMENT

FLOOR LEVEL THRESHOLD . . . NO FOOT BRIDGE. No back-breaking lifting of a foot bridge. No tripping hazards. Teller's buses and other mobile equipment roll into and out of the vault with ease.

INTERLOCKING VESTIBULE. The vault entrance is anchored directly to the masonry reinforcement. This construction eliminates the danger of removal of the door and vestibule in case of an explosion. The vault entrance, so installed, may be expected to withstand even an atomic blast.

RESISTANCE TO CARBIDE-TIPPED DRILLS. A new material, developed in our own laboratory and trade-named CHI-TEN®, protects the combination locks and time lock against carbide-tipped drills.

TORCH RESISTANCE. A combination of torch-resisting metal and a solid plate of 99% pure electrolytic copper protects combination locks and time lock against the oxy-acetylene torch.

DUAL COMBINATION DIAL. A single dial selectively operates two combination locks.

DRAMATIC BEAUTY. All surfaces are satin-finish stainless steel with bronze plaque on door or our new, exclusive "Golden Swirl". The design, by N. L. Strickland, has the new "straight-line" look which characterizes today's modern equipment. The fluted architrave can be furnished in any width specified by the architect.

BURGLAR ALARM. Available as an accessory. Complete catalog on request.

8 VARIATIONS OF ARCHITRAVES FOR

HERRING·HALL·MARVIN

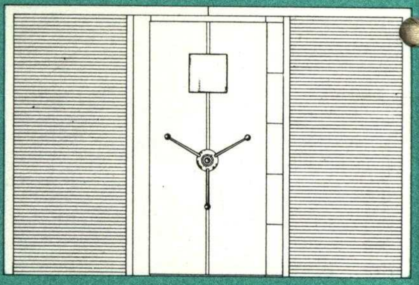
Five Star Constellation Vault Entrance

3½" and 7" Doors*

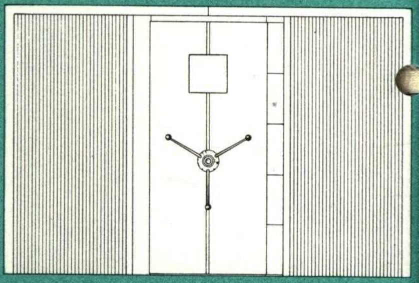
An examination of the drawings shown here will reveal that the principal difference between the "A" and "A-1" styles, for example, is in the direction of the fluting. Style "D" is without fluting. All architraves are stainless steel or our new, exclusive "Golden Swirl".

Beyond these standard styles, Herring·Hall·Marvin places no limits on the size and shape of the architrave. The architect may give full scope to his imagination in designing the architrave and we will build it to his specifications.

*For doors of greater thickness, the width of the architraves is increased. For details, write to factory.



STYLE A
84" high; 127" wide.



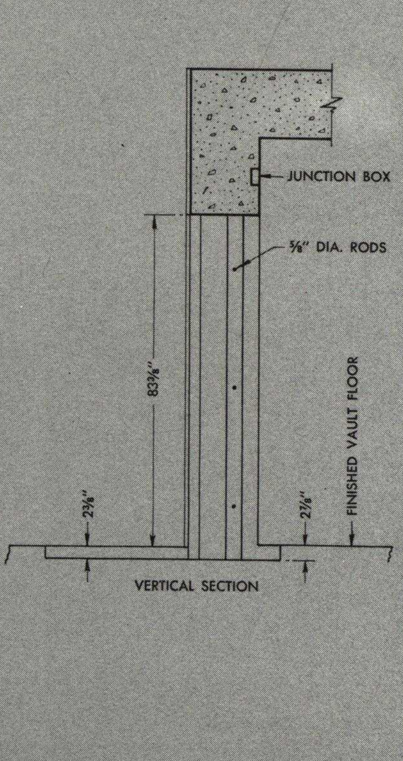
STYLE A-1
84" high; 127" wide.

MASONRY OPENINGS FOR

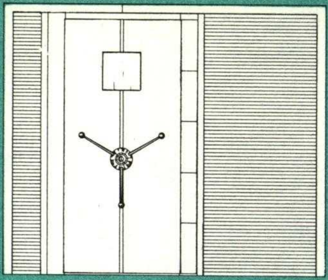
HERRING·HALL·MARVIN

Five Star Constellation Vault Entrance

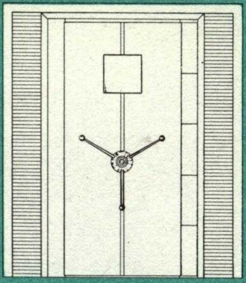
Drawings of masonry openings for doors of greater thickness will be furnished on request.



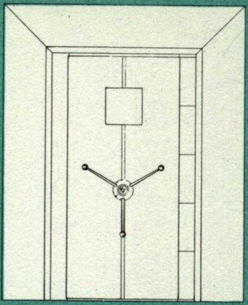
VERTICAL SECTION



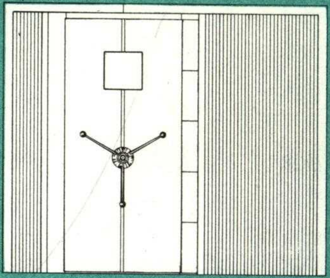
STYLE B
84" high; 101" wide.



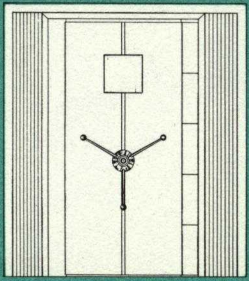
STYLE C
85³⁄₁₆" high; 75" wide.



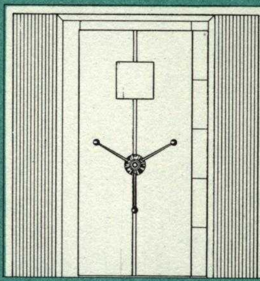
STYLE D
96³⁄₁₆" high; 79" wide.



STYLE B-1
84" high; 101" wide.

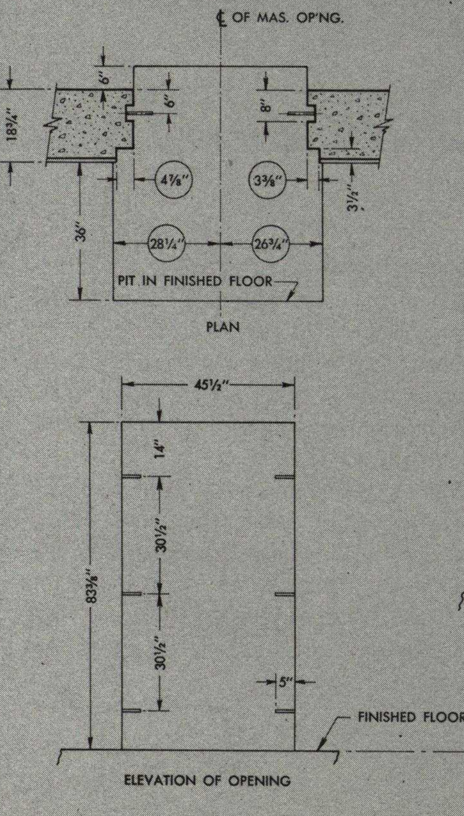


STYLE C-1
85³⁄₁₆" high; 75" wide.

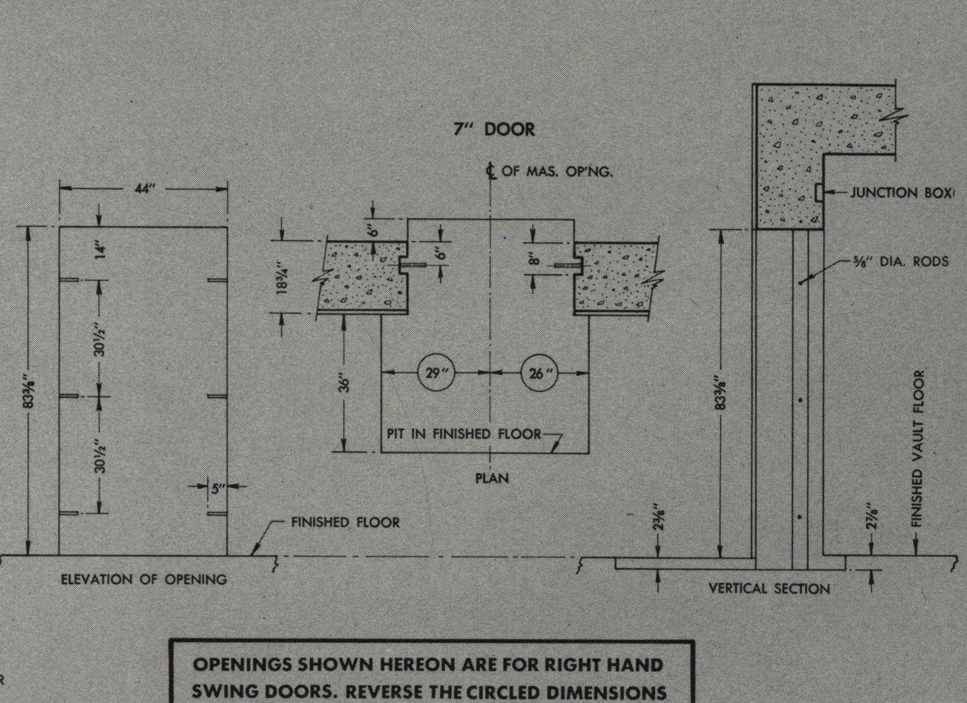


STYLE E-1
87³⁄₁₆" high; 85" wide.

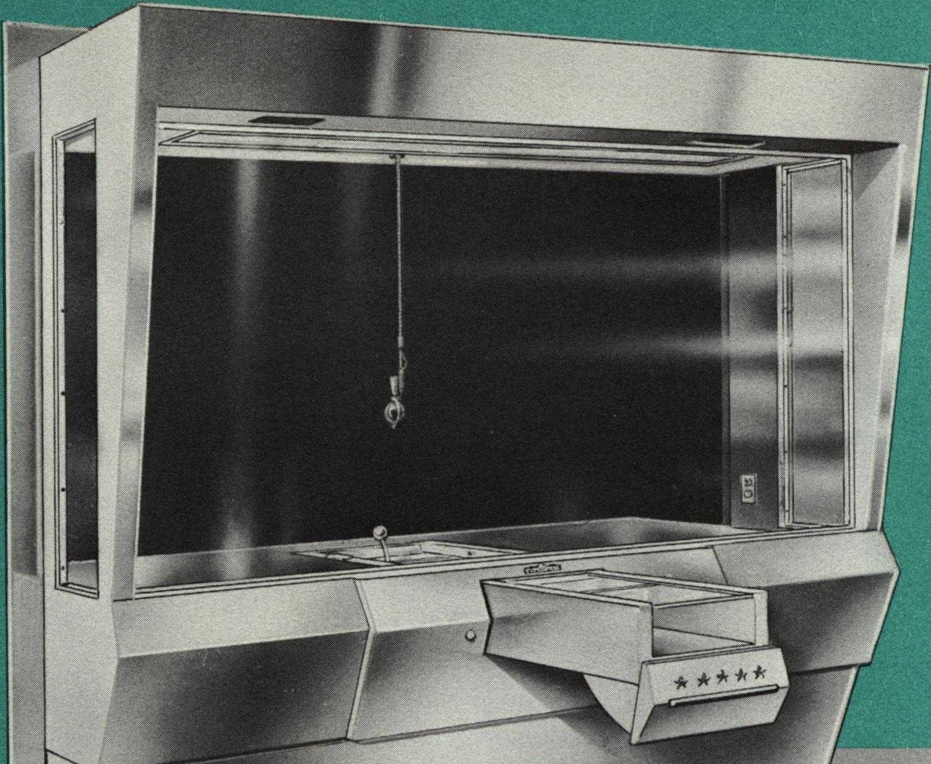
3½" DOOR


℄ OF MAS. OP'NG.
6"
6"
8"
18¾"
4⅞"
3⅜"
3½"
36"
28¼"
26¾"
PIT IN FINISHED FLOOR
PLAN
45½"
14"
30½"
30½"
83⅝"
30½"
5"
FINISHED FLOOR
ELEVATION OF OPENING

7" DOOR


44"
14"
30½"
83⅝"
30½"
5"
FINISHED FLOOR
ELEVATION OF OPENING
℄ OF MAS. OP'NG.
6"
6"
8"
18¾"
36"
29"
26"
PIT IN FINISHED FLOOR
PLAN
JUNCTION BOX
⅝" DIA. RODS
83⅝"
2⅞"
2⅞"
FINISHED VAULT FLOOR
VERTICAL SECTION

OPENINGS SHOWN HEREON ARE FOR RIGHT HAND SWING DOORS. REVERSE THE CIRCLED DIMENSIONS FOR LEFT SWING DOORS.

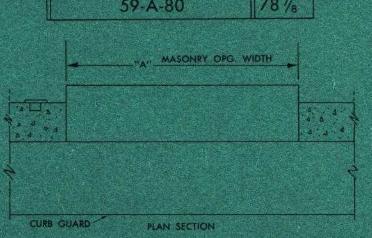


The Five Star Constellation

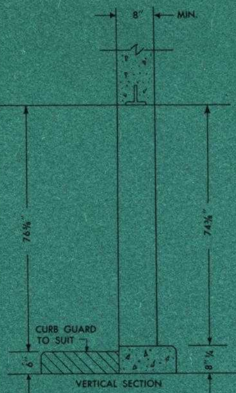
MARK IV

Model 59-A-80

MODEL	A
59-A-67	65⅞"
59-A-80	78⅞"


"A" MASONRY OPG. WIDTH
CURB GUARD

PLAN SECTION


8"
MIN.
76⅝"
74⅜"
CURB GUARD TO SUIT
6"
8" ¼
INSIDE FIN. FLOOR

VERTICAL SECTION

HERRING·HALL·MARVIN

Five Star Constellation

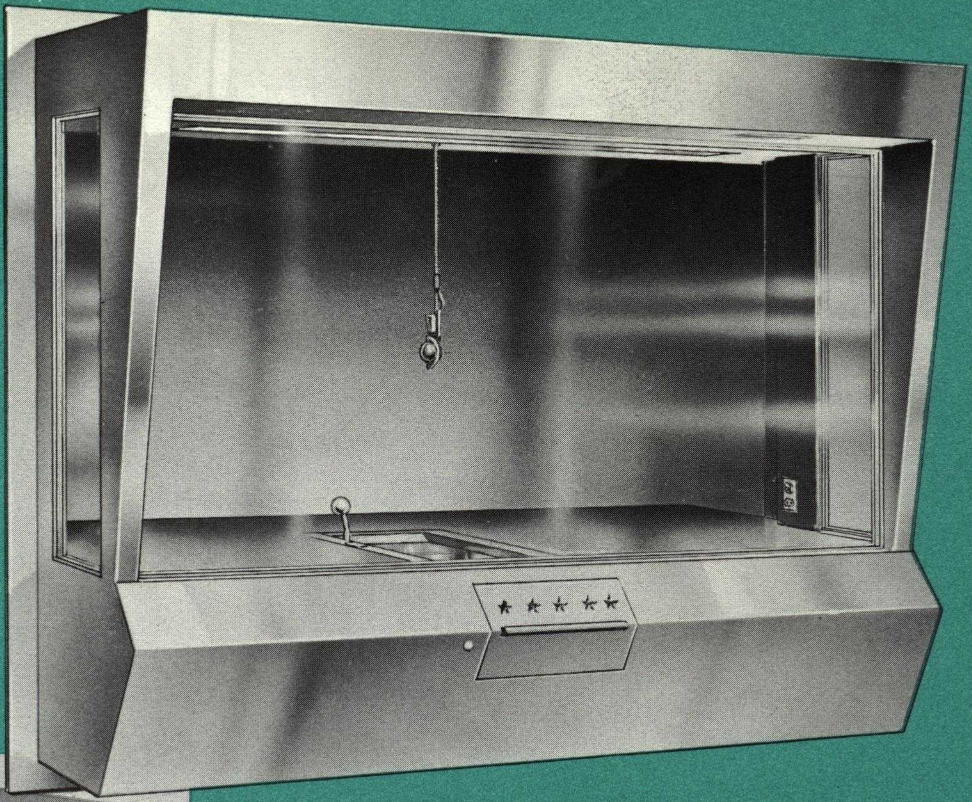
DRIVE-UP WINDOWS

Mark IV and Mark III Models

The drop-front depository drawer in these models is an exclusive Herring•Hall•Marvin feature. As the drawer rolls forward to the customer, the wedge-shaped front lowers, providing ample reach-in space. A special safety device prevents any danger of catching hands or fingers as the drawer closes.

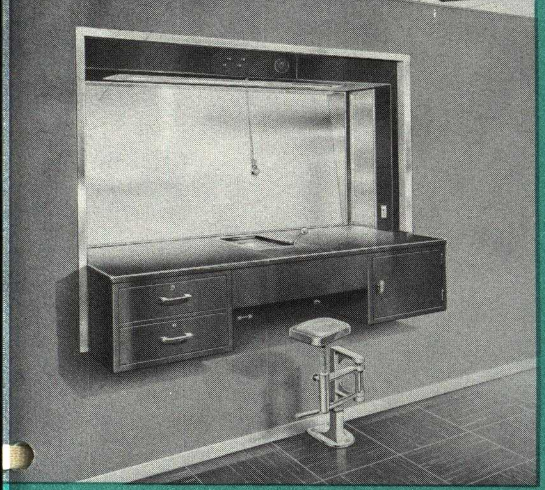
The top of the drawer has a hinged lid of Plexiglas, so that contents are always visible, yet completely shielded from wind, rain and snow.

A special feature of the Mark IV model is the front skirting which extends almost to the sidewalk.

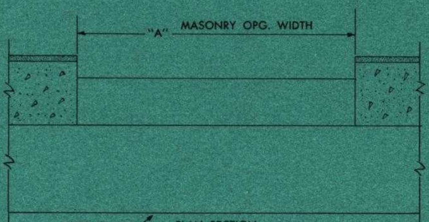


MARK III

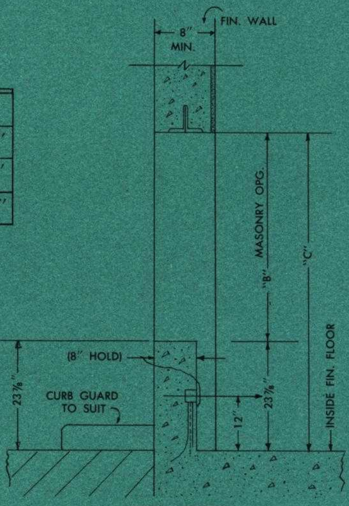
Model 5980



MODEL	A	B	C
5980	78 7/8″	58 3/4″	82 5/8″
5967	65 7/8″	58 3/4″	82 5/8″
5948	46 7/8″	58 3/4″	82 5/8″


"A" MASONRY OPG. WIDTH
CURB GUARD

PLAN SECTION


8″ MIN.
FIN. WALL
MASONRY OPG.
"B"
"C"
INSIDE FIN. FLOOR
(8″ HOLD)
CURB GUARD TO SUIT
23 7/8″
12″
23 7/8″

VERTICAL SECTION

OTHER FEATURES

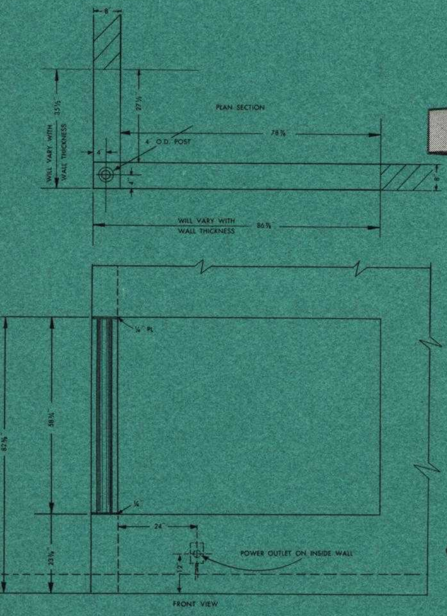
• Choice of flush or bay design • Full 18-inch drawer extension • Manual or electric control of depository drawer • In electrically controlled models, instant switch-over can be made from electric to manual operation • High-fidelity sound system; pendant michophone for teller • 180-degree visibility for teller • Roller suspension on key-locked cash drawer; removable tray • Storage drawer and storage compartment • Fluorescent counter illumination • Optional window defroster unit • Exterior of satin finish stainless steel; interior finished in cocoa brown • Counter top covered with heavy black linoleum • Tinted bullet-resistive glass listed by Underwriters' Laboratories.

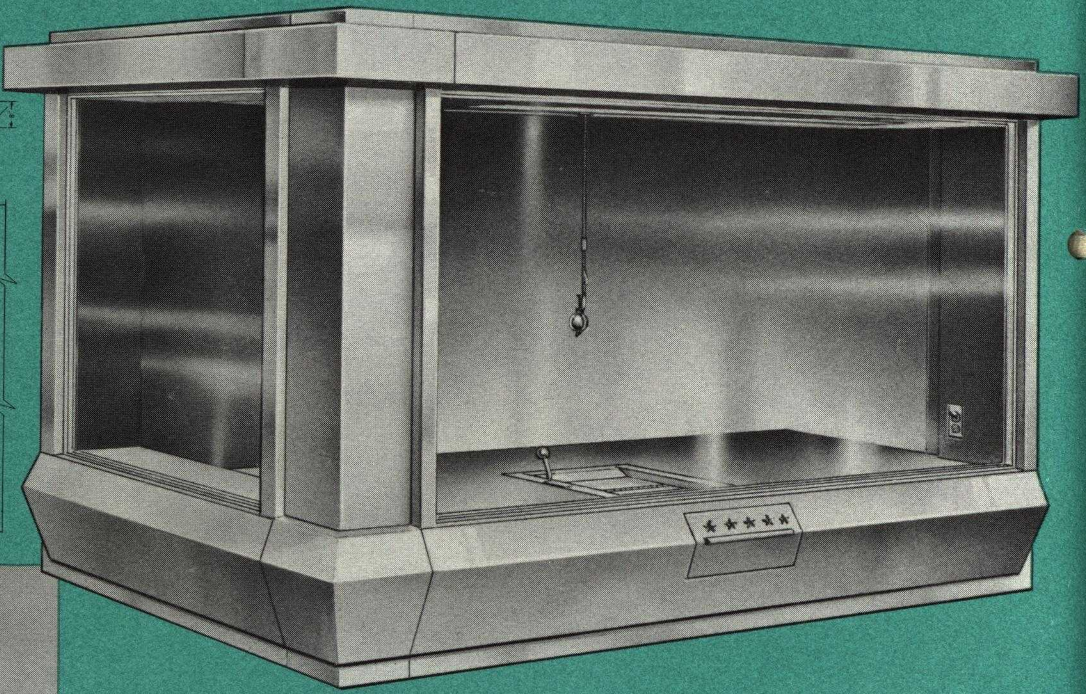
NOTE: These windows also furnished in smaller sizes—Mark IV Model 59-A-67 and Mark III Models 5967 and 5948. Details on request.

ALL OVER THE WORLD . . .
Herring · Hall · Marvin
. . . A SAFE NAME

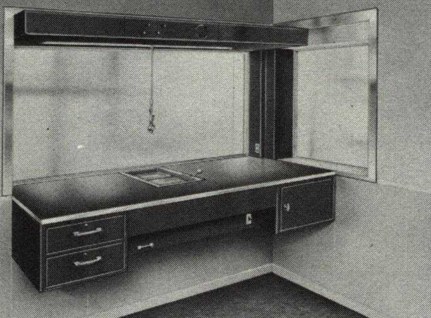
HERRING·HALL·MARVIN *Five Star Constellation*

CORNER DRIVE-UP WINDOW


8"
WILL VARY WITH WALL THICKNESS 35½"
27½"
PLAN SECTION
78⅞"
4" O.D. POST
4"
4"
8"
WILL VARY WITH WALL THICKNESS 86⅞"
¼" PL
82⅝"
58¾"
¼"
24"
POWER OUTLET ON INSIDE WALL
23⅞"
12"
FRONT VIEW



Models 59802 and 59672



Whether used in island or corner installations or in a row, these windows expedite the flow of traffic. Cars swing up to and away from these windows with equal ease. No maneuvering into position when approaching. No backing, turning, twisting to get in the clear when leaving.

Tellers work more efficiently because through the glass area on the side they see customers approaching and prepare to serve them.

OTHER FEATURES

• Exclusive drop-front all-weather depository drawer • Full 18-inch drawer extension • Manual or electric control of depository drawer • In electrically controlled models, instant switch-over can be made from electric to manual operation • High-fidelity sound system; pendant microphone for teller • Roller suspension on key-locked cash drawer; removable tray • Storage drawer and storage compartment; key-locked when specified • Fluorescent counter illumination • Optional window defroster unit • Exterior of satin finish stainless steel; interior finished in cocoa brown • Counter top covered with heavy black linoleum • Tinted bullet-resistive glass listed by Underwriters' Laboratories.

ALL OVER THE WORLD...
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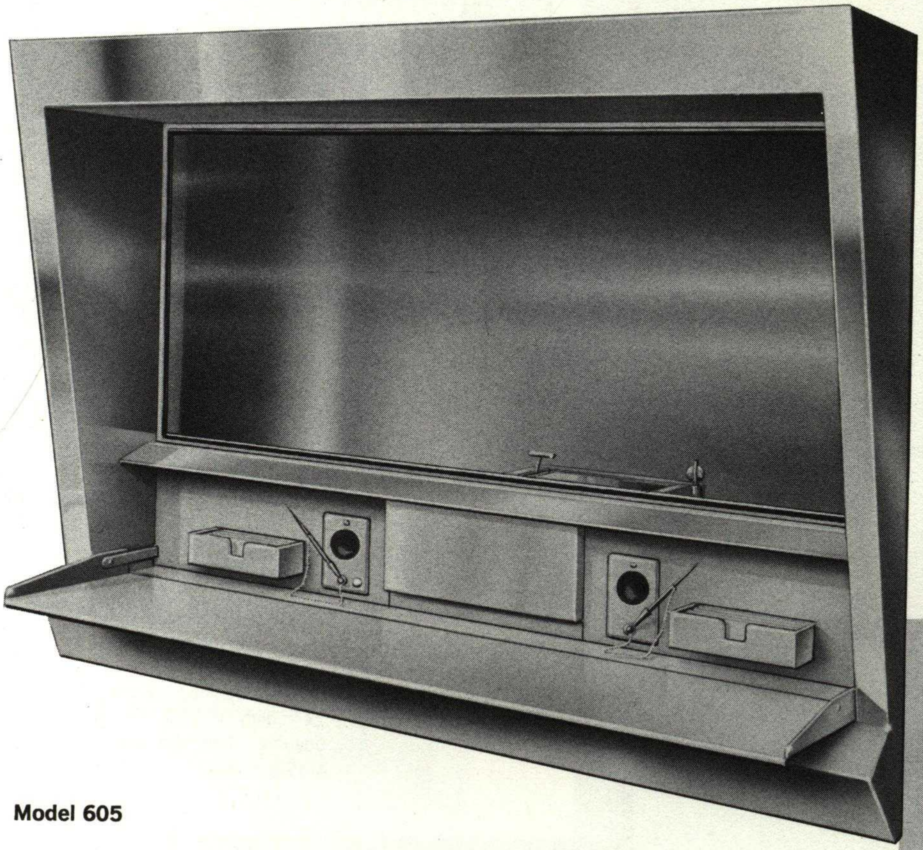
HERRING·HALL·MARVIN *Five Star Constellation*

PEDESTRIAN WINDOW

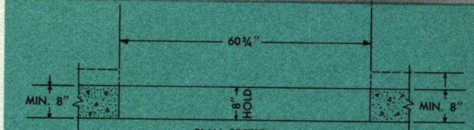


Model 605

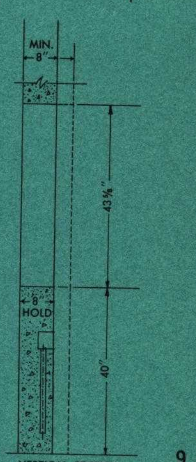
Double customer facilities speed up service. Front panel, operated by the teller, lowers to form a writing shelf.

OTHER FEATURES

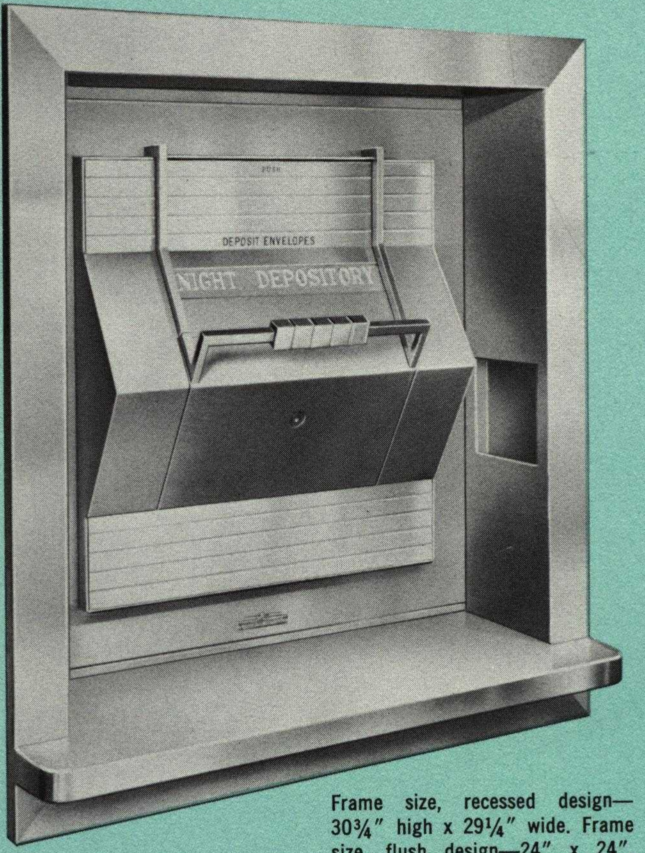
• Glass-covered depository receptacle • Roller-suspension on key-locked drawer; removable tray • Storage drawer; key-locked when specified • High-fidelity sound system; teller's microphone on counter • 180-degree visibility for teller • Fluorescent counter illumination • Exterior of satin finished stainless steel; interior finished in cocoa brown • Counter top covered with heavy black linoleum • Tinted bullet-resistive glass listed by Underwriters' Laboratories.



PLAN SECTION



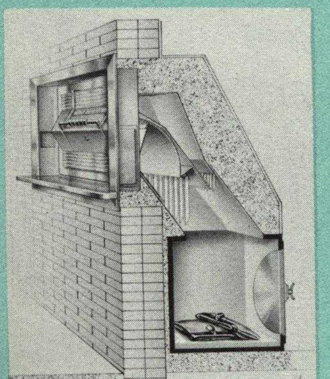
VERTICAL SECTION



Frame size, recessed design—30¾″ high x 29¼″ wide. Frame size, flush design—24″ x 24″. Masonry opening, recessed design—28¾″ high x 27¼″ wide. Masonry opening, flush design—22″ x 22″.

MODEL 958

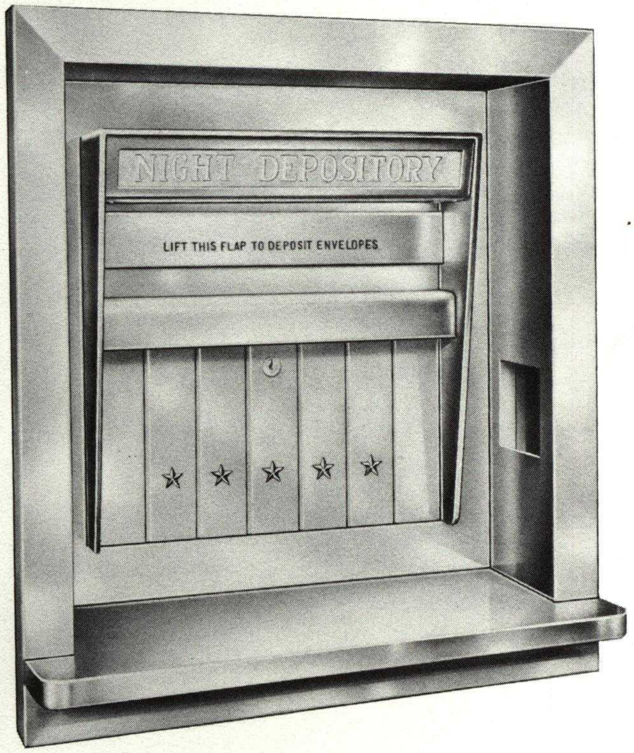
Five Star Constellation DEPOSITORY



Furnished in recessed design, as shown, or in flush design. Equipment of recessed model includes writing shelf and pocket for deposit envelopes. All surfaces are satin-finish stainless steel.

The hopper in this model—12¼″ wide x 5″ high by 9½″ deep—provides for bulky bags and packages.

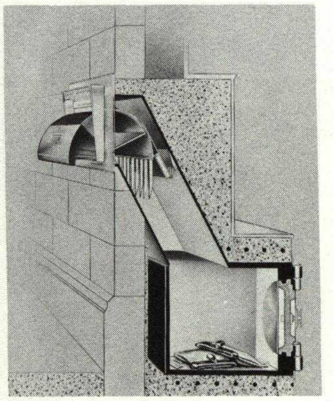
Push-in envelope slot connects with a separate chute. The words "NIGHT DEPOSITORY" are on ground glass with concealed illumination.



Frame size, recessed design—29½″ high x 27″ wide. Frame size, flush design—22⅝″ high x 21 11⁄16″ wide. Masonry opening, recessed design—24″ high x 24½″ wide. Masonry opening, flush design—20¼″ high x 19¾″ wide.

MODEL 901

Five Star Constellation DEPOSITORY



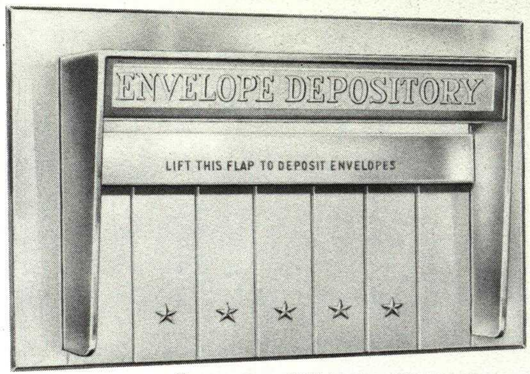
Furnished in recessed design, as shown, or in flush design. Equipment of recessed model includes writing shelf and pocket for deposit envelopes. All surfaces are satin-finish stainless steel.

This popular model has an extra-large hopper, 14¼″ wide by 12″ high, for bags and other bulky packages.

The envelope slot is connected with a separate chute.

The weather hood assures protection against driving rain.

The words "NIGHT DEPOSITORY" are on ground glass with concealed illumination.

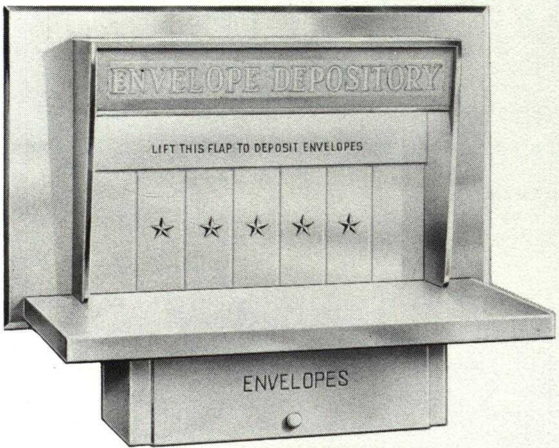

ENVELOPE DEPOSITORY
LIFT THIS FLAP TO DEPOSIT ENVELOPES

Frame size—13″ high x 21¾″ wide. Masonry opening, 11″ high x 19¾″ wide.

MODEL 910
Five Star ENVELOPE DEPOSITORY

Furnished in flush design only, as shown. All surfaces are satin-finish stainless steel. The envelope slot is ¾″ high x 5″ wide. Weather hood affords protection against rain and snow.

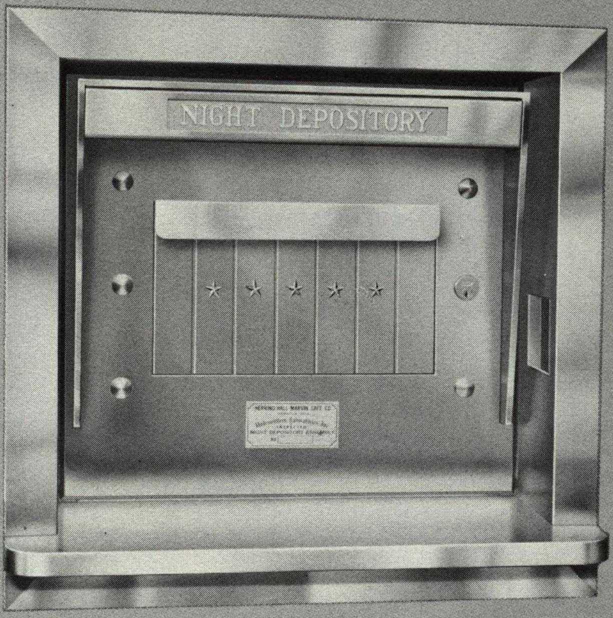
The words "ENVELOPE DEPOSITORY" are on ground glass with concealed illumination.


ENVELOPE DEPOSITORY
LIFT THIS FLAP TO DEPOSIT ENVELOPES
ENVELOPES

Frame size—13″ high x 21¾″ wide. Masonry opening, 11″ high x 19¾″ wide.

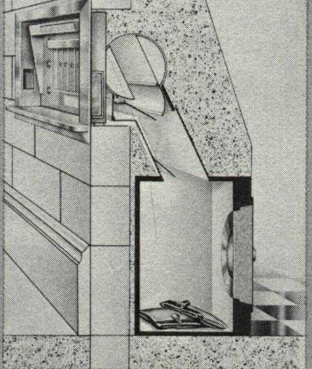
MODEL 915

This envelope depository is like the Model 910 except that it has a stainless steel writing shelf with envelope storage compartment.


NIGHT DEPOSITORY

Frame size, recessed design—29½″ high x 30″ wide. Frame size, flush design—22¾″ high x 24¾″ wide. Masonry opening, recessed design—25″ high x 27½″ wide. Masonry opening, flush design—20¾″ high x 22¾″ wide.

MODEL 7200-J
Deluxe Five Star ROTARY DEPOSITORY



Furnished in recessed design, as shown, or in flush design. Recessed design has convenient writing shelf for deposit envelopes. All surfaces are satin-finish stainless steel.

Receptacle is 13¾″ wide x 6″ high x 12″ deep.

Rotary cylinder provides maximum protection against "fishing". An inner safety door assures the customer that his deposit has dropped into the receiving safe.

Words "NIGHT DEPOSITORY" are on ground glass with concealed illumination.

ALL OVER THE WORLD . . .
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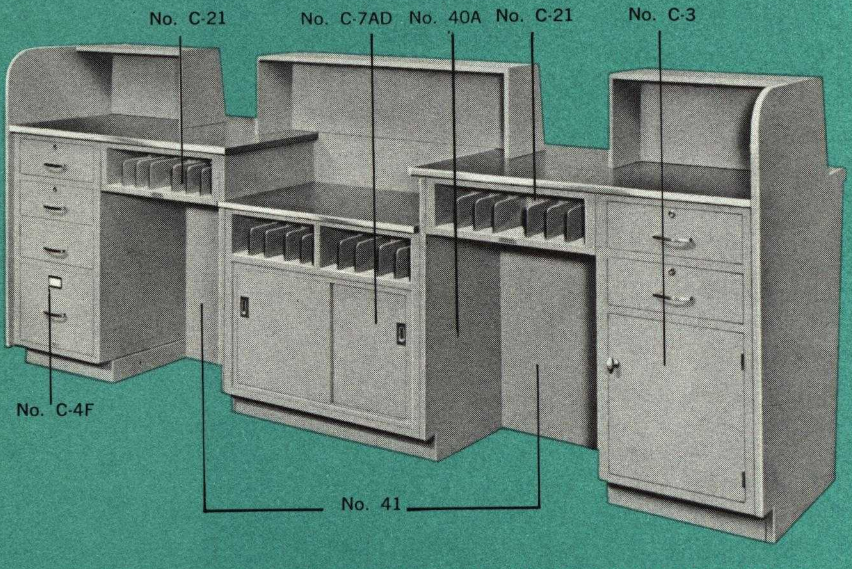
HERRING · HALL · MARVIN
STANDARD DIMENSION STEEL
UNDER-COUNTER UNITS

For the equipment of a new banking building or the remodeling of an old one, we have developed a remarkably flexible system for creating custom-designed bank counters at production prices. The elements include pedestal units with various combinations of doors and drawers, machine well units, return counters and back counters.

All units are of heavy-gauge furniture steel, in a choice of seven decorator colors.

Shown here are two typical assemblies. Complete catalog will be furnished on request.

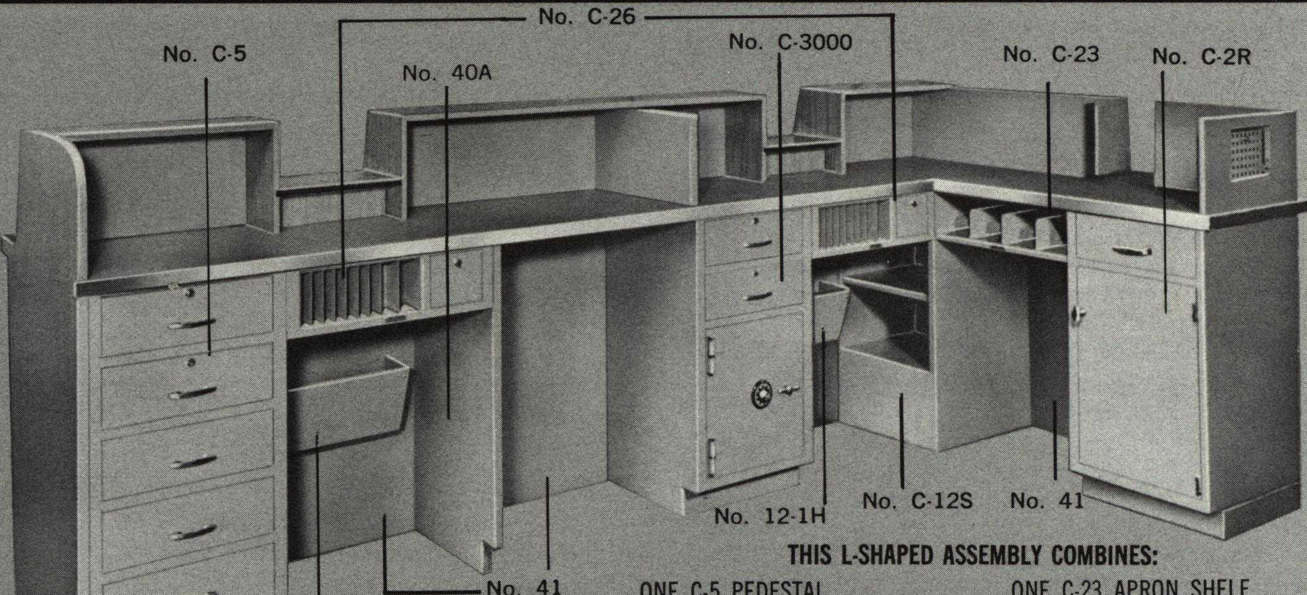


IN ONLY 9 ft. 11 inches THIS EFFICIENT UNDER-COUNTER ASSEMBLY COMBINES:

ONE C-4F PEDESTAL
TWO C-21 APRON CASES
ONE C-7AD MACHINE WELL UNIT

ONE C-3 PEDESTAL
TWO 40A END PANELS
TWO 41 KNEE SPACE BACKING PANELS

With this arrangement two tellers can share one machine conveniently.



Over-all length of front counter assembly is 11 ft.

THIS L-SHAPED ASSEMBLY COMBINES:

ONE C-5 PEDESTAL
TWO C-26 APRON CASES
ONE 40A END PANEL
ONE C-3000 PEDESTAL
ONE C-2R PEDESTAL
ONE C-12S OPEN STORAGE UNIT

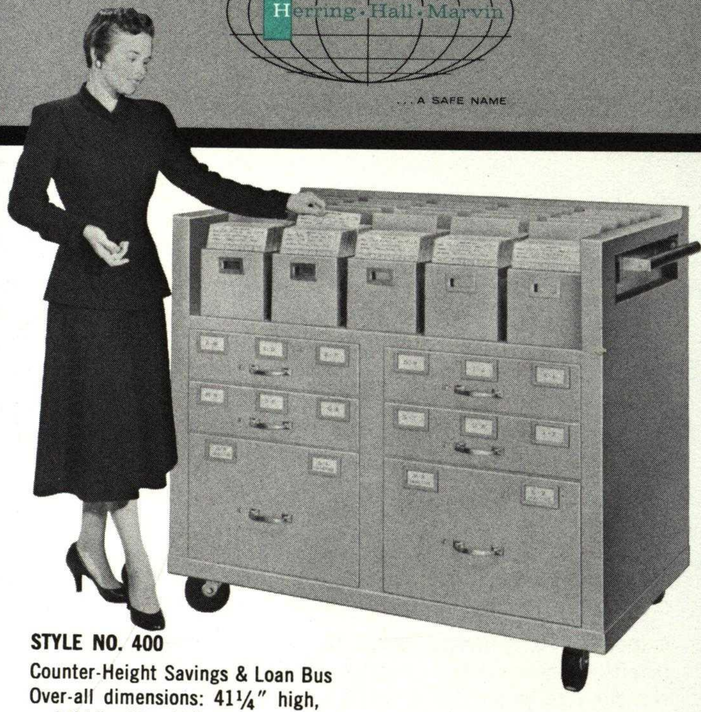
ONE C-23 APRON SHELF with adjustable dividers
TWO 12-1H WASTE PAPER RECEPTACLES
FOUR 41-KNEE SPACE BACKING PANELS

ALL OVER THE WORLD . . .

Herring · Hall · Marvin

. . . A SAFE NAME

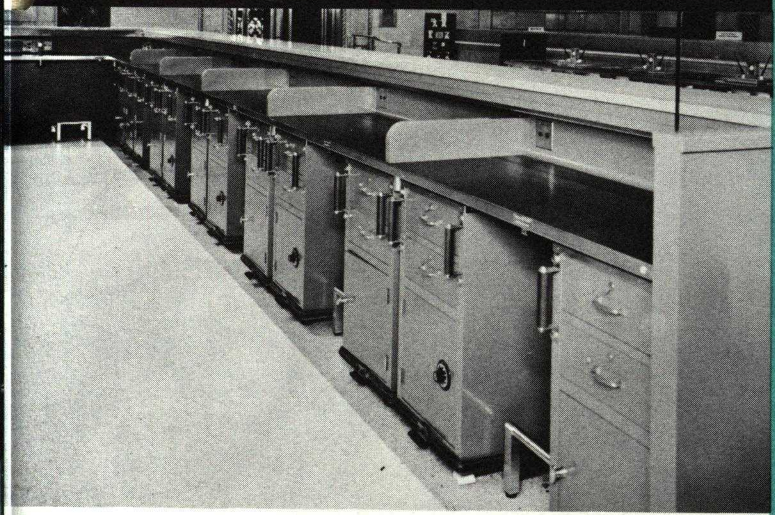
HERRING · HALL · MARVIN MOBILE UNITS



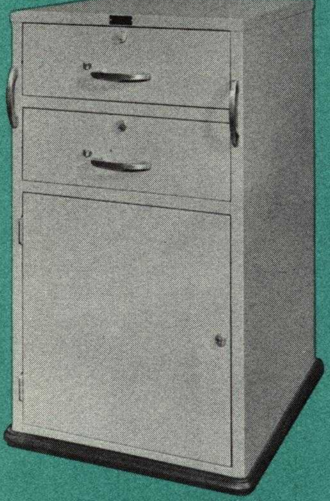
STYLE NO. 400
Counter-Height Savings & Loan Bus
Over-all dimensions: 41¼″ high,
45½″ wide, 23″ deep.

These modern "counters on wheels" are designed to roll right up to or under the counter. Rigidly constructed, firmly mounted on over-size casters, they may be rolled from place to place, from banking room to vault, for example, soundlessly and with practically no effort.

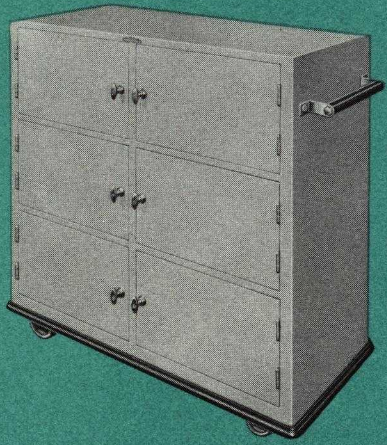
All mobile units, only a few of which are shown here, are available in the same seven decorator colors that distinguish the entire line of Herring•Hall•Marvin money-saving undercounter units.



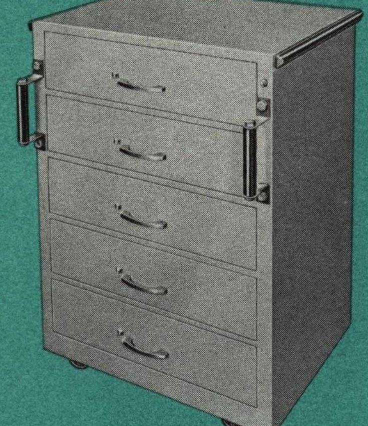
Installation photo shows typical teller's bus in undercounter position for maximum teller convenience.



STYLE NO. 200
Teller's Bus
Over-all dimensions:
38½″ high,
20⅛″ wide,
22⅜″ deep.



STYLE NO. 1200
Counter-Height Cash Tray Bus
Over-all dimensions:
42″ high,
42″ wide,
21″ deep.



STYLE NO. 600
Note Bus
Over-all dimensions:
38½″ high,
26½″ wide,
21″ deep.

HERRING·HALL·MARVIN

FIRE-RESISTIVE VAULT DOORS

UNDERWRITERS' LABORATORIES, INC. INSPECTED
VAULT DOOR
FIRE CLASSIFICATION 6 HR. №

SPEC F3
BUILT TO COMPLY WITH
2Y
SAFE MANUFACTURERS NATIONAL ASSOCIATION
SPECIFICATION FOR
FIRE INSULATED VAULT DOOR
S.M.N.A. RATING 6 HR. EXPOSURE-CAT. NO.

Underwriters' Laboratories, Inc.
INSPECTED
RELOCKING DEVICE
GROUP 1 №

FEATURES

LABELS. All models carry three labels; the Underwriters' Laboratories and the Safe Manufacturers National Association labels stating the degree of fire resistance; the Underwriters' Laboratories Relocking Device label.

INSURANCE. All models qualify for Class "B" Mercantile Burglary Insurance. The Underwriters' labeled Relocking Device further entitles users to a 10% preferential burglary insurance discount.

RELOCKING MECHANISM. This device gives added burglary protection, automatically relocking and setting the bolts in case of attack upon the locking mechanism.

ESCAPE DEVICE. This device makes it possible for a person when locked inside the vault, either by accident or in a holdup, to release the boltwork from the inside and open the door.

FLAT SILL. Allows door to swing 1/4″ above the finished floor, presents a practically flush surface for rolling buses and vault trucks into and out of the vault.

INSTALLATION. All Herring•Hall•Marvin Entrances are designed for the utmost ease and economy of installation. Complete printed instructions are included with each shipment. The door may be hinged to swing right or left, as specified.

1/2-HOUR FIRE-RESISTANCE. MODEL NO. D-63 Fire-insulated File Room Door should be specified for File Rooms rated up to 1/2-hour fire risks. **1-HOUR FIRE-RESISTANCE. MODEL NO. D-64** Fire-insulated File Room Door should be specified on File Rooms rated as 1/2-to-1 hour fire risks.

2-HOUR FIRE-RESISTANCE. MODELS NO. D-7832-2 and D-7640-2 (SPECIAL WIDTH) Fire-insulated Vault Doors should be specified for vaults in buildings that are rated as 1-to-2 hour fire risks by the Herring•Hall•Marvin Fire Hazard Analysis Chart.

4-HOUR FIRE-RESISTANCE. MODEL NO. D-7832-4 Fire-insulated Vault Door should be specified for vaults in buildings that are rated as 2-to-4 hour fire risks by the Herring•Hall•Marvin Fire Hazard Analysis Chart.

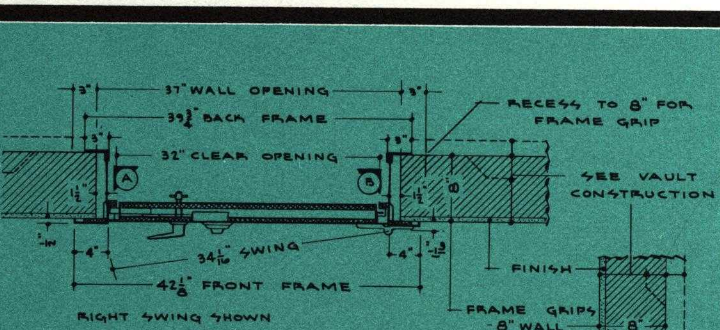
6-HOUR FIRE-RESISTANCE. MODEL NO. D-7832-6 Fire-insulated Vault Door should be specified for vaults in buildings that are rated as 4-to-6 hour fire risks by the Herring•Hall•Marvin Fire Hazard Analysis Chart.

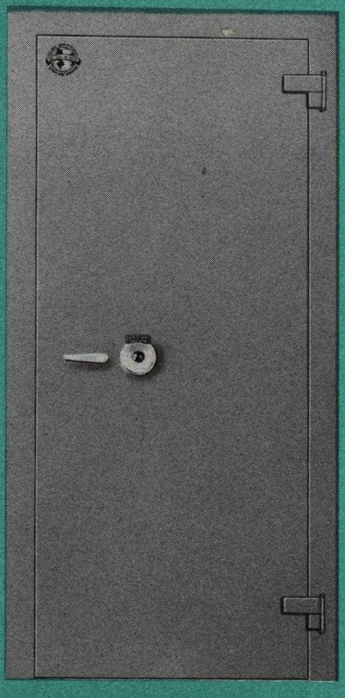
1/2 or 1 HR. MODELS D-63 and D-64

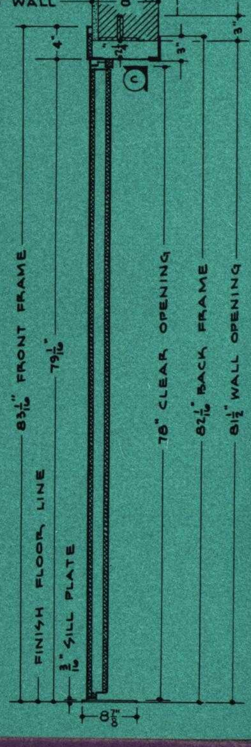
SHIPPING WEIGHT: D-63-550 lbs.; D-64-565 lbs.

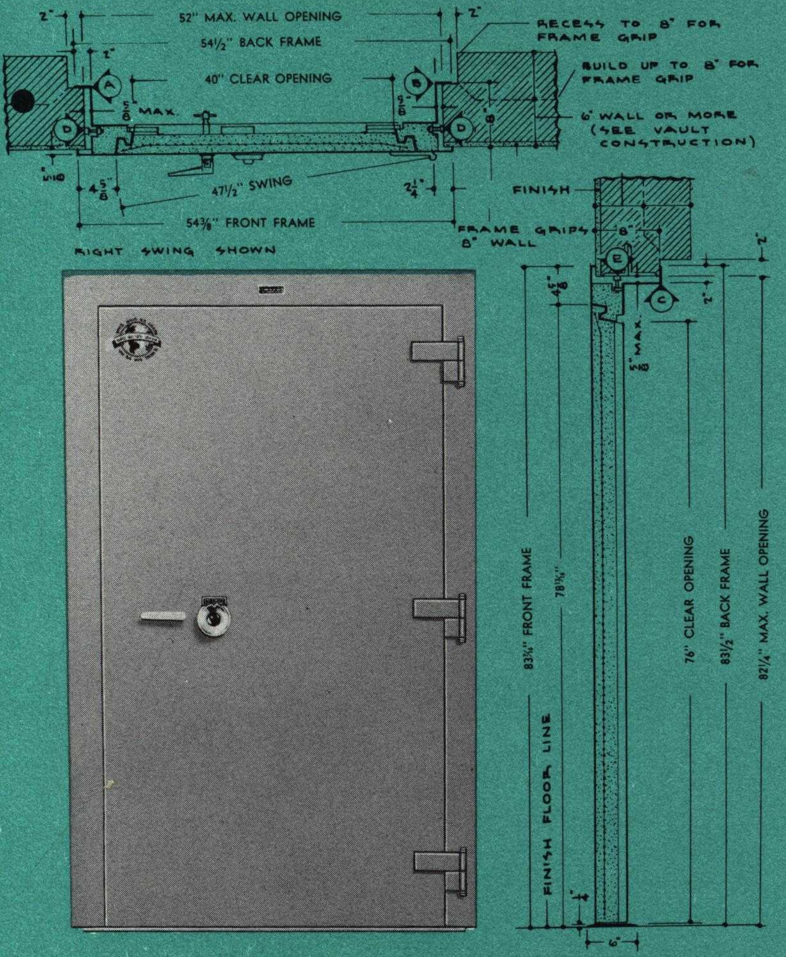
ARCHITECTS SPECIFY AS FOLLOWS

1/2 & 1 HR. DOORS. "The contractor shall furnish and/or install Herring•Hall•Marvin Model D-63 (1/2 hour)/D-64 (1 hour) (right or left swing), flat sill Fire-insulated File Room Door (s) bearing the (1/2 or 1 hr.) labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device Label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive or torch attack. The door shall have a clear opening of 78″ high and 32″ wide with entrance flush with finished floor level. Door and frame shall be filled with insulation. The door shall be 2 1/4″ thick on edge, locked by five 3/4″ dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's installation instructions."


3"
37" WALL OPENING
3"
39 3/4" BACK FRAME
3"
3"
32" CLEAR OPENING
RECESS TO 8" FOR FRAME GRIP
SEE VAULT CONSTRUCTION
A
B
1 1/2"
1 1/2"
8"
1/4" IN
4"
34 1/16" SWING
4"
1/4"-1 3/8"
42 1/8" FRONT FRAME
RIGHT SWING SHOWN
FINISH
FRAME GRIPS - 8" WALL
8"




4"
2 1/4"
3"
3"
C
83 1/16" FRONT FRAME
79 1/16"
78" CLEAR OPENING
82 1/16" BACK FRAME
81 1/2" WALL OPENING
FINISH FLOOR LINE
3/16" SILL PLATE
8 7/8"


2"
52" MAX. WALL OPENING
2"
54½" BACK FRAME
2"
40" CLEAR OPENING
RECESS TO 8" FOR FRAME GRIP
BUILD UP TO 8" FOR FRAME GRIP
6" WALL OR MORE (SEE VAULT CONSTRUCTION)
A
B
D
5/8 MAX.
8"
1/16
4 5/8
47½" SWING
2¼
54⅜" FRONT FRAME
RIGHT SWING SHOWN
FINISH
FRAME GRIPS 8" WALL
8"
E
C
2"
4 5/8
2"
5/8 MAX.
83 7/16" FRONT FRAME
78 13/16"
76" CLEAR OPENING
83½" BACK FRAME
82¼" MAX. WALL OPENING
FINISH FLOOR LINE
1/16
6"

2 HR. MODEL D-7640-2 SPECIAL WIDTH

SHIPPING WEIGHT: 1300 lbs.

ARCHITECTS SPECIFY AS FOLLOWS

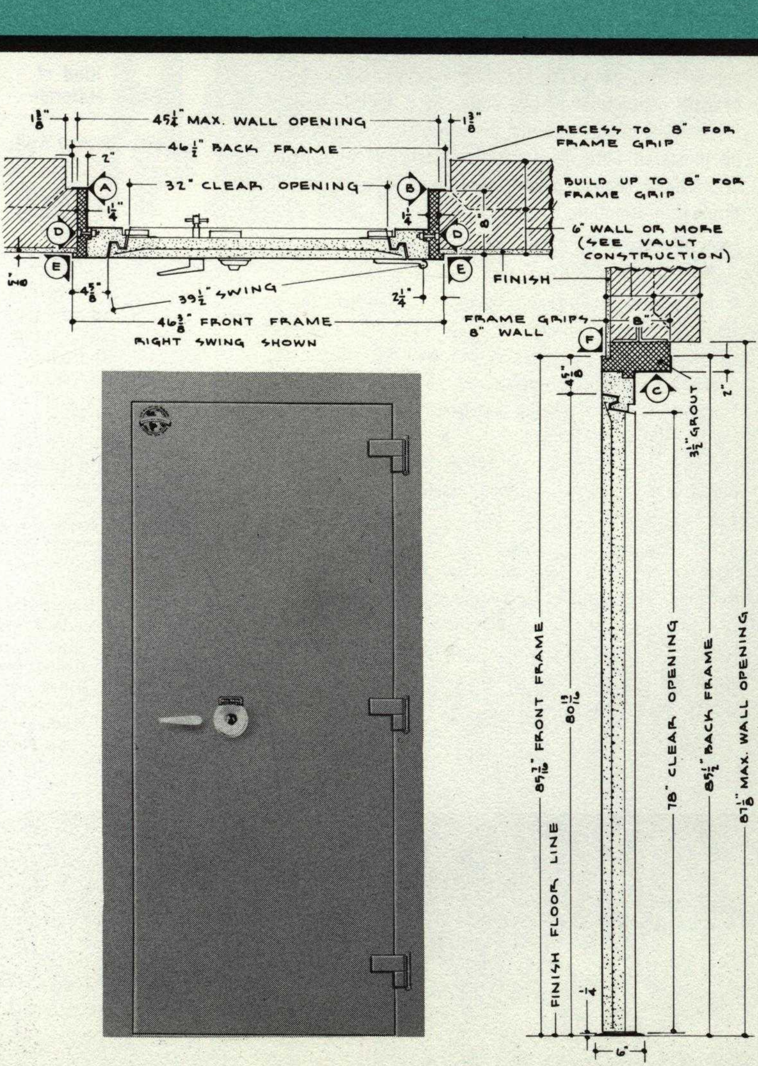
2 HR. DOOR. "The contractor shall furnish and/or install Herring•Hall•Marvin Model D-7640-2 (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the 2-hour labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive, or torch attack. The door shall have a clear opening of 76" high by 40" wide, with entrance flush with finished floor level. Door and frame shall be filled with a monolithic fire-insulation 2½" thick over face of door. The door shall be locked by ten ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."

2 HR. MODEL D-7832-2

SHIPPING WEIGHT: 1200 lbs.

ARCHITECTS SPECIFY AS FOLLOWS

2 HR. DOOR. "The contractor shall furnish and/or install Herring•Hall•Marvin Model D-7832-2 (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the 2-hour labels of the Underwriters' Laboratories, Inc., and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive, or torch attack. The door shall have a clear opening of 78" high by 32" wide, with entrance flush with finished floor level. Door and frame shall be filled with a monolithic fire-insulation 2½" thick over face of door. The door shall be locked by ten ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."

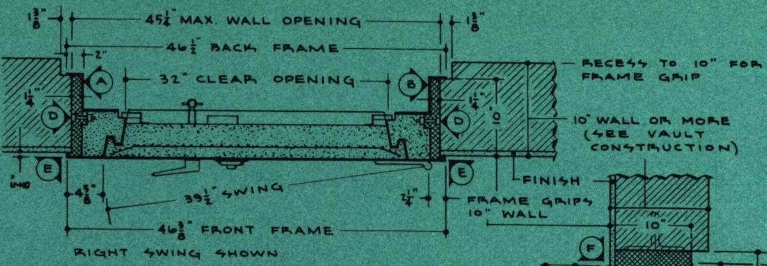

1⅜"
45¼" MAX. WALL OPENING
1⅜"
46½" BACK FRAME
2"
32" CLEAR OPENING
RECESS TO 8" FOR FRAME GRIP
BUILD UP TO 8" FOR FRAME GRIP
6" WALL OR MORE (SEE VAULT CONSTRUCTION)
A
B
D
E
1¼"
1¼"
8"
1/16
4 5/8
39½" SWING
2¼"
46¾" FRONT FRAME
RIGHT SWING SHOWN
FINISH
FRAME GRIPS 8" WALL
8"
F
C
4 5/8
3½" GROUT
2"
85 7/16" FRONT FRAME
80 13/16
78" CLEAR OPENING
85½" BACK FRAME
81⅛" MAX. WALL OPENING
FINISH FLOOR LINE
1/16
6"

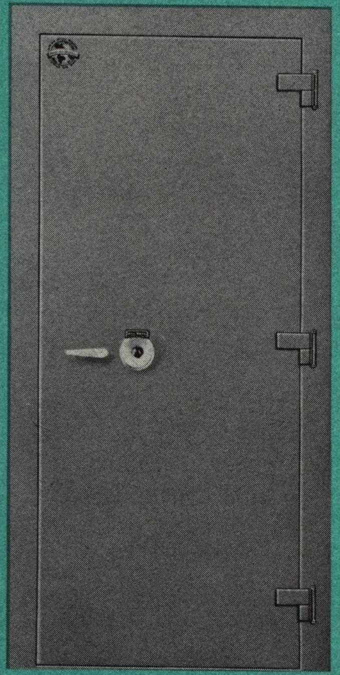
4 & 6 HR. MODELS
D-7832-4 & D-7832-6

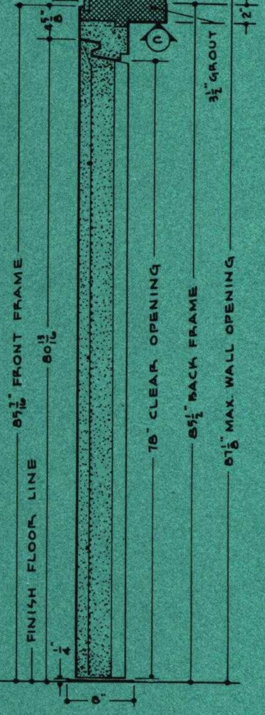
SHIPPING WEIGHT: D-7832-4—1550 lbs.; D-7832-6—1650 lbs.

ARCHITECTS SPECIFY AS FOLLOWS

4 & 6 HR. DOORS. "The contractor shall furnish and/or install Herring•Hall•Marvin Model No. D-7832-4 (4 hour)/D-7832-6 (6 hour) (right or left swing), flat sill, Fire-insulated Vault Door(s) bearing the (4 or 6-hour) labels of the Underwriters' Laboratories, Inc. and the Safe Manufacturers' National Association; and the Underwriters' Laboratories, Inc. approved Relocking Device label for a relocking device designed to deadlock the door when the lock is under mechanical, explosive or torch attack. The door shall have a clear opening of 78" high by 32" wide, with entrance flush with finished floor level. Door and frame shall be filled with a monolithic fire-insulation 4½" thick over the face of the door. The door shall be locked by ten ¾" dia. bolts, checked by a 3 tumbler, key-changing combination lock. The door shall be provided with an Emergency Unlocking Device for emergency escape. The door shall be erected according to the manufacturer's instructions for non-grout (grouted) installation."







RECOMMENDED CONSTRUCTION for fire-resistive record-storage vaults

SIZE. Record-storage vaults should not exceed 5000 cu. ft. in volume and the height should not exceed 11 feet.

MATERIALS. Walls should be built of (1) reinforced concrete, (2) sand-lime building brick, (3) hollow load-bearing concrete masonry units, or a hollow wall of brick. Walls of hollow units, or hollow construction shall be plastered both sides with at least ½" of gypsum or portland cement plaster. See chart at right for additional information.

FIRE-RESISTIVE FILE ROOMS. As a general measurement, file room construction should parallel that of 2 hour construction for fire-resistive record-storage vaults. Size: File storage rooms shall not exceed 50,000 cu. ft. in volume (preferably not over 40,000 cu. ft.) and the height shall not exceed 15 ft. Minimum Wall Thicknesses: The following construction is recommended —(1) Reinforced Concrete . . . 4 in., (2) Plain Concrete . . . 6 in., (3) 6 inch hollow tile, 6 inch concrete block, or 6 inch gypsum block, plaster on both sides . . 7 in., (4) Brick . . . 8 in.

Shown here is a table of suggested minimum wall thickness that applies to ground-supported vaults. For structure-supported vaults, use the wall thickness shown for the TOP floor of ground-supported vaults. Complete specifications for the construction of fire-insulated vaults on request.

Kind of Material	Reinforced Concrete			Brick (a)			Hollow Units (b)
Class of Wall	AA (6 hr.)	A (4 hr.)	B (2 hr.)	AA (6 hr.)	A (4 hr.)	B (2 hr.)	B (2 hr.)
Floor-counting from top down	THICKNESS OF WALL IN INCHES						
Top	10	8	6	12	12	8	8
2nd from top	10	8	8	12	12	12	12
3rd from top	10	10	10	12	12	12	12
4th from top	12 (c)	10	10	16 (d)	16 (d)	16 (d)	16 (d)
5th from top	12	12	12	16	16	16	16
6th from top	12	12	12	20 (d)	16	16	16
7th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
8th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
9th from top	12 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)
10th from top	14 (e)	12 (e)	12 (e)	16 (e)	16 (e)	16 (e)	16 (e)

Example: For a four-story building use thicknesses in first four lines of table, the fourth line representing the minimum thickness suggested for walls of a ground floor vault, the first line the thickness of walls for a fourth floor vault, etc.

Example: For an eight-story building use thicknesses in first eight lines of table, the eighth line representing the minimum thickness suggested for walls of a ground floor vault, the first line the thickness for walls (panel construction) for an eighth floor vault, etc.

(a) Sand-lime building brick—American Standard ASA-78.1-1942.
(b) Hollow Load-Bearing Concrete Masonry Units—American Standard ASA-79.1-1942; or hollow wall of bricks.
(c) Thickness in panel construction may be 2 in. less.
(d) Thickness in panel construction may be 4 in. less.
(e) These thicknesses apply to panel construction.

ALL OVER THE WORLD . . .
Herring·Hall·Marvin
. . . A SAFE NAME

HERRING·HALL·MARVIN SAFE CO.

DIVISION OF DIEBOLD, INC. • HAMILTON, OHIO

Branch Offices: Atlanta, Boston, Chicago, Dallas, Denver, Detroit, Houston, Kansas City, Minneapolis, New Orleans, New York, Philadelphia, San Francisco, St. Louis, Washington, D. C.

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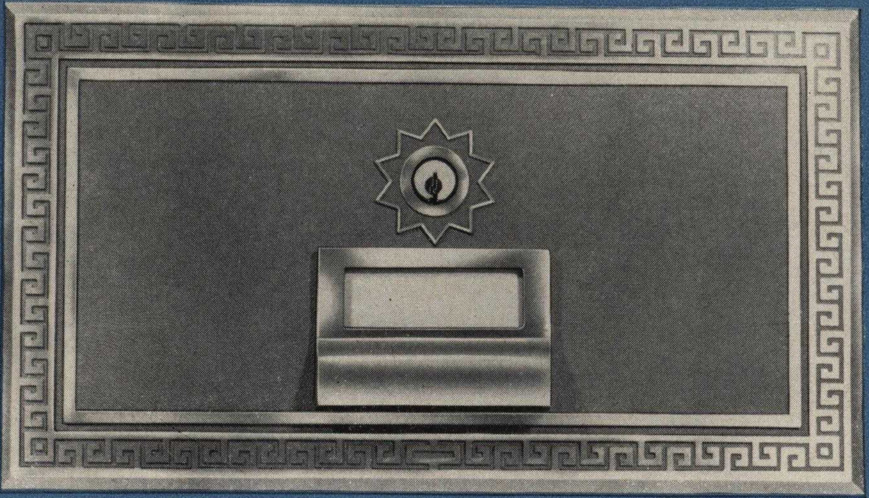


THE KEYLESS LOCK COMPANY

MAIL HANDLING EQUIPMENT

A
B
C
D
E
F
G
H
I
J
955

THE KEYLESS LOCK COMPANY
INDIANAPOLIS

LOCK BOXES
MAIL HANDLING
POST OFFICE EQUIPMENT MANUFACTURERS

LETTER BOXES

USES

Educational Institutions Office Buildings
Hospitals Apartment Buildings
Corporation Post Office Systems
Any place central distribution is desired

FEATURES

- All brass and bronze combination parts which insure durability and trouble-free service.
- Combination or Key Lock available
- Key lock units may be master keyed and keyed to fit corresponding dormitory rooms
- Units may be arranged using various sized lock box doors in one unit.
- Combination lock setting may be changed in one minute
- No combination is duplicated in any one installation
- Pigeon hole construction from 20 to 24 gauge steel with baked enamel finish

FINISHES

Lock box doors are bronze, highly polished, with light tan background. They may be specified completely dull chrome. Steel nesting is furnished in matching tan with baked on enamel. Paint is applied to give a 5 mil thickness.

SPECIFICATIONS

The letter boxes shall be Grecian Style as manufactured by The Keyless Lock Company, Indianapolis, Indiana. Letter boxes shall be constructed of cast bronze, hinged front on steel pigeon holes and fitted with three tumbler combination lock or key lock keyed alike or master keyed. The front of each box will have a large plate glass window with two-tone numbers or letters (dependent on customer). Each box shall have an identification tag on the rear side. All raised fretwork on box face to be finely polished with background painted lusterless brown color, Federal Specification TT-C-595 No. 3030. Complete satin chrome finish also available.

The steel cases shall be 14″ deep with baked enamel finish. Color shall be egg shell, Federal Specification 2351, TT-C-595.

All construction shall meet Federal Post Office Specifications.

GUARANTEE

The Keyless Lock Company of Indianapolis, Indiana, guarantees to replace any units, individual or composites, should they not function to the buyer's satisfaction. This offer is good for one year from date of final acceptance by the buyer.

sizes and nesting tables

Method of Determining Size of Various Nestings

For No. 1 size Standard Lock Box To figure width of case composed of No. 1 boxes only, first consult chart below for number of boxes wide. This dimension is the total width of doors and door frames. Then add 1¾″ (which is for the two ⅝″ side fillers and two ¼″ gaps at each side) to dimension obtained from chart giving total width of unit.

Number of boxes wide:

1	3-11/16″	7	25-11/16″	13	47-11/16″
2	7-11/32″	8	29-11/32″	14	51-11/32″
3	11″	9	33″	15	55″
4	14-11/16″	10	36-11/16″	16	58-11/16″
5	18-11/32″	11	40-11/32″	17	62-11/32″
6	22″	12	44″	18	66″

To figure front height of unit composed of No. 1 boxes only, take number of boxes high times 5″. This answer is the space occupied by doors and frames. Then add 1¼″ for total height of case. To figure height at rear of case add 2¾″ to total height at front of case.

Note: It is desirable for any one unit not to be more than 18 boxes wide. If more boxes are needed they may be made by designing two units or three units, etc., and using connecting fillers which add 1″ to total width of unit.

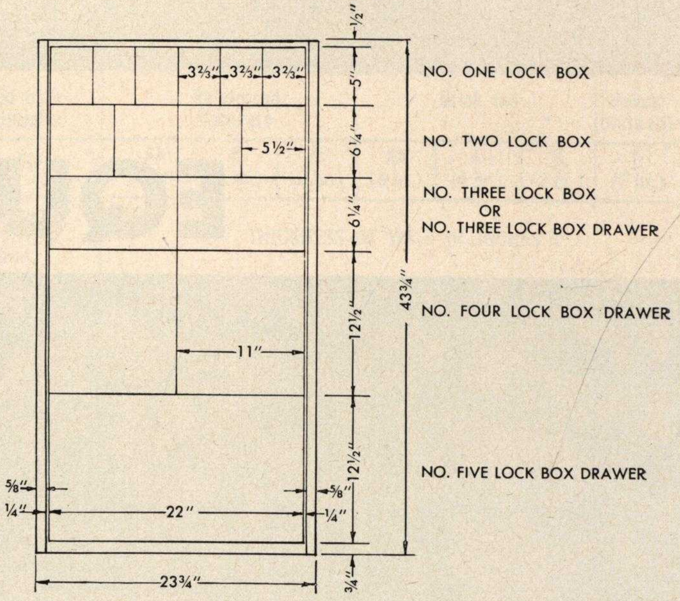
Height at the front of unit, if possible, should not exceed more than 61¼″, or 12 boxes high.

For No. 2 size Standard Lock Boxes:
To figure width of case take number of boxes wide times 5½″. Then add 1¾″ to this answer for total width of case.

To figure height at front and rear of unit, follow procedure for No. 1 boxes substituting 6¼″ for height of box.

Note: It is desirable for any one unit not to exceed 12 boxes wide. See note for No. 1 box should more boxes be required.

Height at front of the unit, if possible, should not exceed 57½″, or 9 boxes high.



ELEVATION

For No. 3 size Standard Lock Boxes:
To figure width of case take number of boxes wide times 11″. Then add 1¾″ to this answer for total width of case.

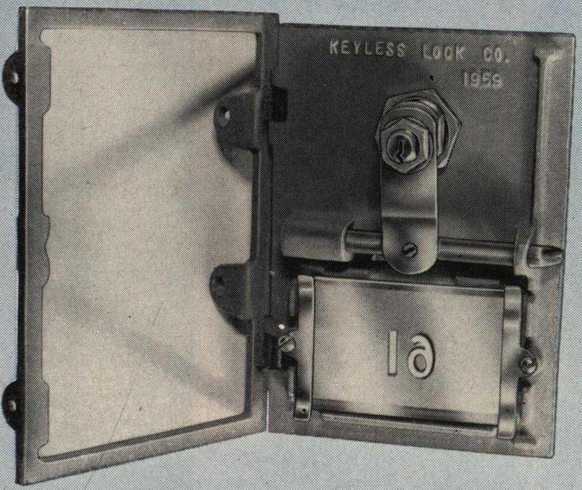
To figure height at front and rear of unit follow procedure for No. 1 boxes substituting 6¼″ for height of box.

Note: It is desirable for any one unit not to exceed 6 boxes wide. See note for No. 1 box should more boxes be required.

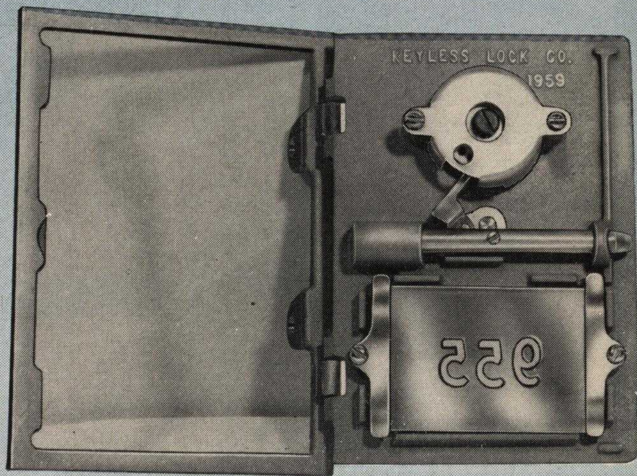
Height at front of the unit, if possible, should not exceed 45″ or 7 boxes high.

COMBINATION AND KEY LOCK BOXES

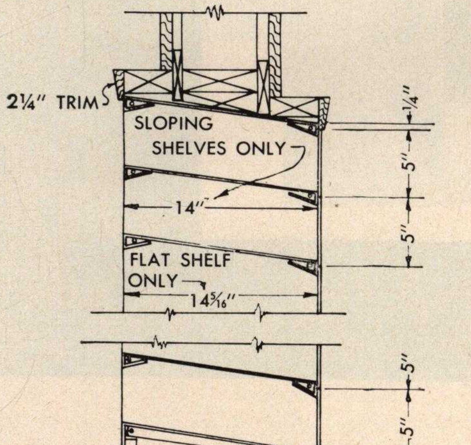
KEY LOCK BOX
back view showing lock


KEYLESS LOCK CO.
1959
61

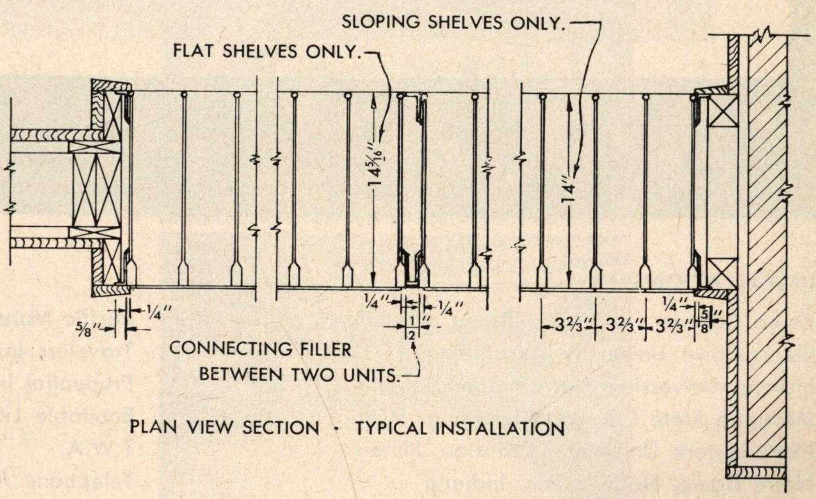
COMBINATION LOCK BOX
back view showing lock


KEYLESS LOCK CO.
1959
955

details


2¼" TRIM
SLOPING
SHELVES ONLY
14"
FLAT SHELF
ONLY
14 5/16"
¼"
5"
5"
5"
5"
¾"
2¼" TRIM
BLOCKING
1'6"

VERTICAL SECTION • TYPICAL INSTALLATION

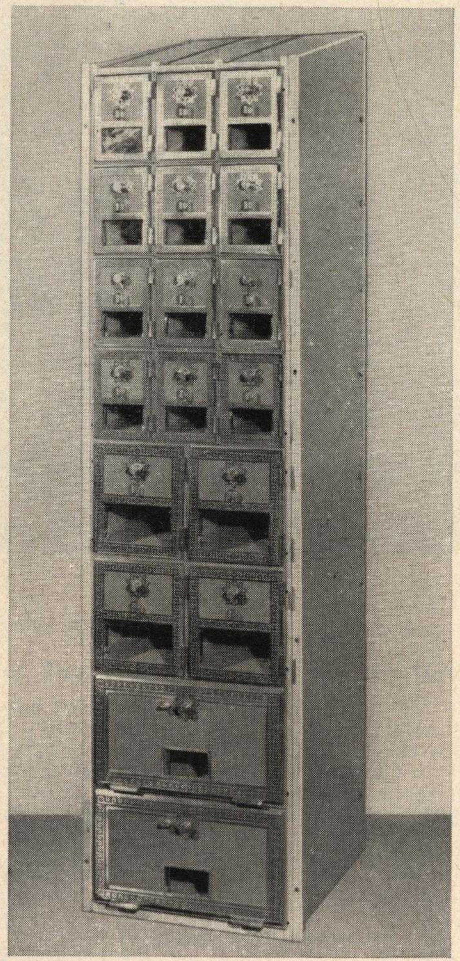

SLOPING SHELVES ONLY.
FLAT SHELVES ONLY.
14 5/16"
14"
5/8"
¼"
¼"
¼"
1/2"
3⅔"
3⅔"
3⅔"
¼"
5/8"
CONNECTING FILLER
BETWEEN TWO UNITS.

PLAN VIEW SECTION • TYPICAL INSTALLATION

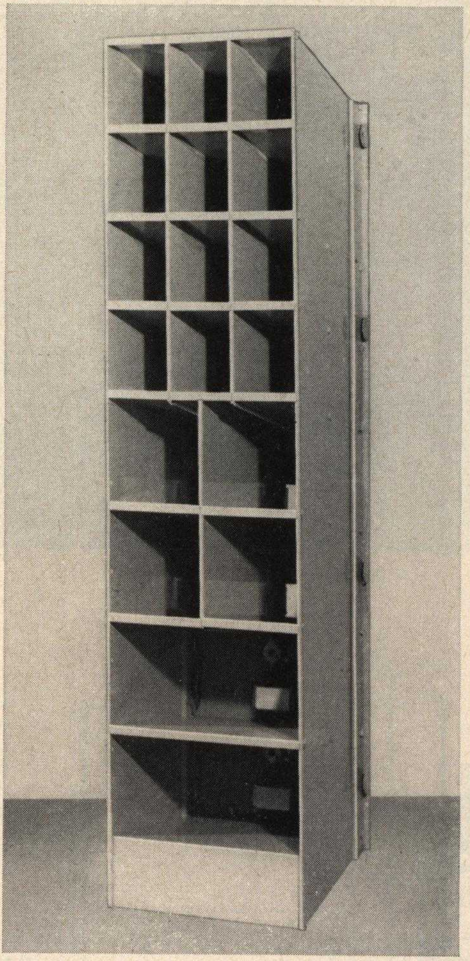
SHIPPED IN SECTIONS

All units are shipped in sections completely assembled ready for installation by the buyer. Each unit supplied with metal trim and attaching angles to meet specified dimensions. Furnished at time of order. Units are shipped in heavy-duty cardboard containers to protect the glass and mechanism.

FRONT



REAR



ENGINEERING SERVICE

A complete study and presentation including drawings and specifications showing how Keyless Lock Company units are used is available to architects, contractors, and buyers. This service is designed to utilize our equipment to the fullest advantage. There is no charge for this service.

INSTALLATIONS

Berea College . . . . . . Berea, Kentucky
Georgetown University, Washington, D. C.
Indiana University, Bloomington, Indiana
Michigan State College, E. Lansing, Michigan
Northwestern University, Evanston, Illinois
Notre Dame, Notre Dame, Indiana
Ohio State University, Columbus, Ohio
Purdue University, Lafayette, Indiana
University of Colorado, Boulder, Colorado
Pacific Mutual Life Insurance Company
Travelers Insurance Company
Prudential Insurance Company
Equitable Life Assurance Co.
T.W.A.
Telephone Answering Service, Atlanta, Georgia
United States Steel Corporation
Medical College, Charleston, South Carolina
General Hospital, Indianapolis, Indiana

pioneer
post office
builders

THE KEYLESS LOCK COMPANY • INDIANAPOLIS

6790 East 32nd Street • Phone: Liberty 7-9501

LeFebure

PLANNING SERVICE and EQUIPMENT for BANK TELLER STATIONS

Good ideas are bound
to develop when
an architect . . . a bank
. . . and LeFebure
get together.

The LeFebure Corporation

Today, LeFebure is a recognized authority on systems and equipment to meet the operational patterns of banks and businesses throughout the nation.

LeFebure Corporation was founded in 1894 by E. L. LeFebure, who originated and patented America's first self-indexed ledger. Then as accounting machines came into general usage, the LeFebure line was expanded to include a line of posting trays, steel office equipment and machine forms. The sales force had grown to national coverage, with trained sales representatives working in specific territories.

LeFebure is the world's largest manufacturer of posting trays and stands, and a leader in the manufacture of bank operational equipment. Continuing its early association with the banking, and savings and loan businesses, more than one-half of LeFebure's volume today results from these sources. Because of this, all of the LeFebure staff members, both in the general offices and in the field, are extremely familiar with banking problems, requirements and every phase of operations. And because of this, LeFebure has been instrumental in the planning and designing of systems and equipment for banks throughout the country — a service that LeFebure feels would be enhanced if combined with the talent and skill of the architect.

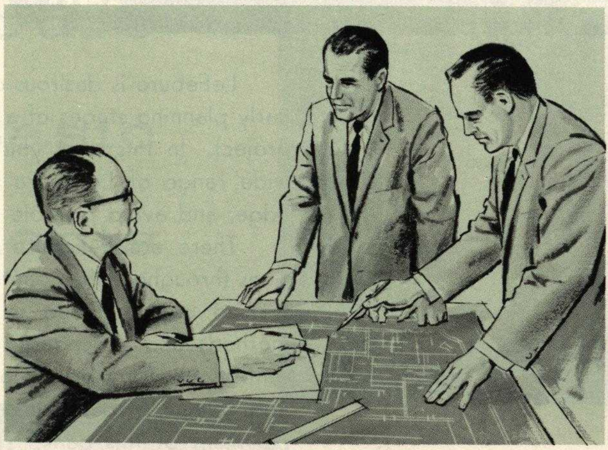
Although LeFebure recommends and furnishes standard equipment whenever applicable, no two banks are exactly alike. Therefore, LeFebure is of the belief that most banks will benefit greatly from custom-designed equipment to fit their individual needs.

PLANNING SERVICE and EQUIPMENT for BANK TELLER STATIONS

The LeFebure Service

The three-way combination of Architect-Banker-LeFebure can be beneficial to all parties concerned.

THE ARCHITECT is provided with an opportunity to perform a **complete** service, by being certain that his plans conform to the necessary operational requirements of the individual bank.

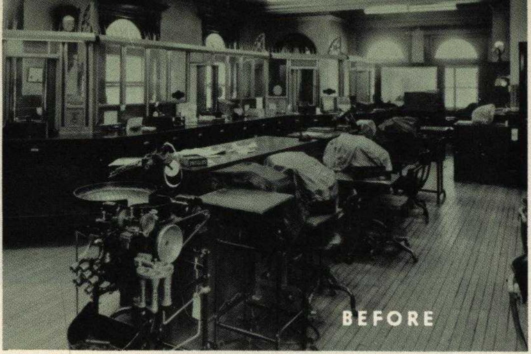


THE BANKER will benefit from having a complete package, including planning, layout and design that takes into consideration the everyday functions in every department of his bank, and by having equipment built to fit his operating methods and volume of business.

Le FEBURE, contributing its long experience and fine facilities, also has something to gain. By working on a project as a part of a well-rounded team, the information from the banker and the architect can be used to assure the absolute maximum in efficiency at the lowest possible cost. The resulting experience from each job is added to our fund of knowledge, and passed on to each future project in which we become involved.

Everybody contributes . . . everybody benefits!

BEFORE



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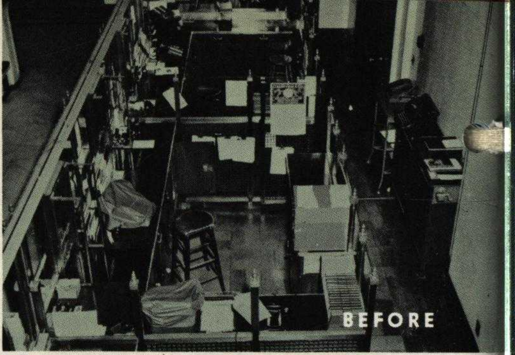

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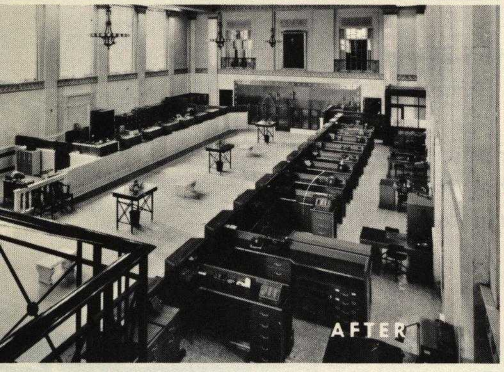
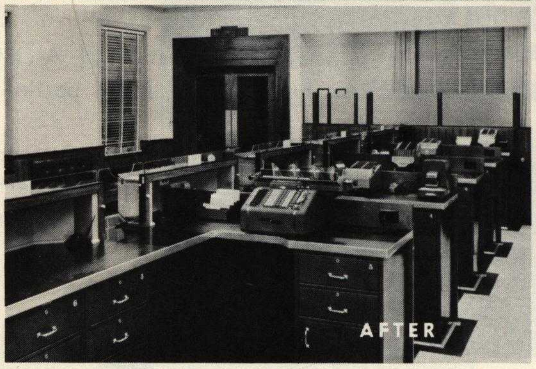


AFTER



AFTER

AFTER

The LeFebure Service

LeFebure is desirous of being called in during the early planning stages of a bank building or remodeling project. In this way, you can take advantage of the wide range of LeFebure bank experience and knowledge, and avoid possible errors before they occur.

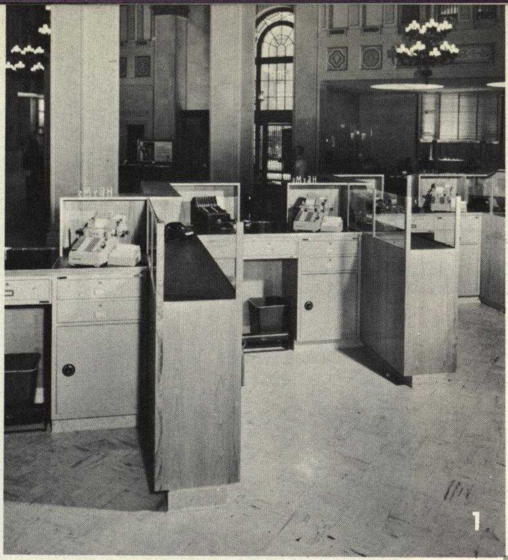
There are LeFebure representatives in key locations throughout the country. These men are thoroughly trained and qualified in the most up-to-date bank methods and procedures. The LeFebure field representative will make a report of the functions, accounts and volume of business being transacted in every department of this bank. This report will be submitted to LeFebure, where within a short time, the amount of equipment, and most suitable types of equipment, will be determined.

The engineering department will then make an analysis, without charge, of your frame and floor space drawings, relating them to the operational requirements of the bank. This analysis will then be presented to you, with suggestions and recommendations for your study and approval. Through the combined talents of architect and LeFebure, the bank will be receiving the best possible planning efficiency.

LeFebure's flexibility of equipment construction and finish permits full use of the architect's ideas and talent, minus the restrictions imposed by assembly line equipment.

LeFebure also provides on-the-spot installation supervision. Every unit is set into proper place, checked for proper dimensions, finish and condition. All LeFebure equipment is guaranteed to be operationally sound.

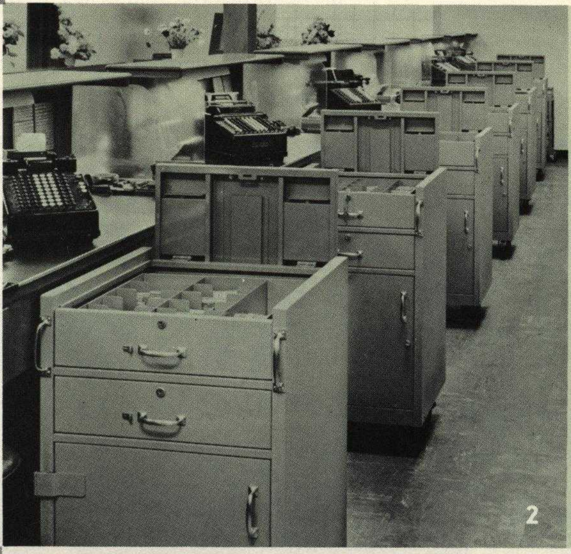
PLANNING SERVICE and EQUIPMENT for **BANK TELLER STATIONS**



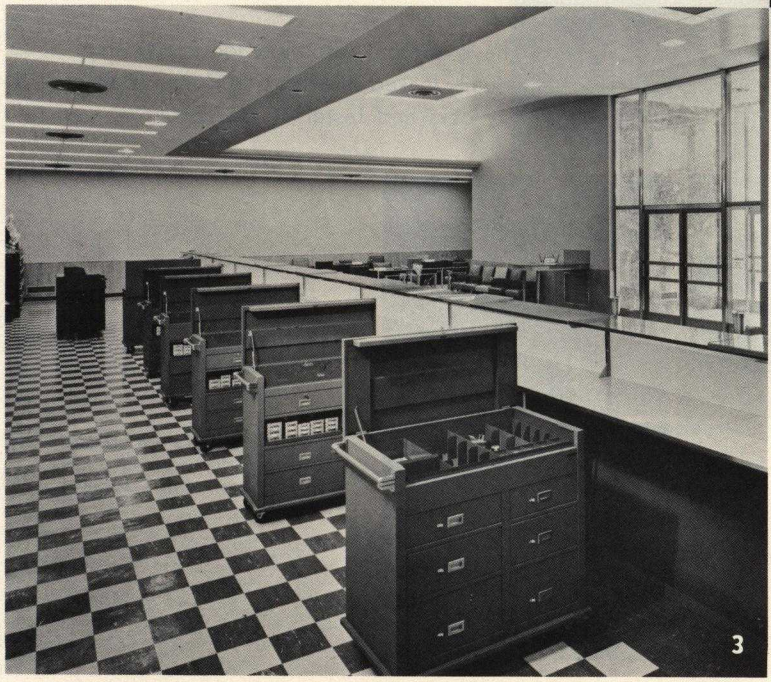
1

1. **Fixed Equipment — Permanent Spacing**
2. **Mobile Equipment — Permanent Spacing**
3. **Mobile Equipment — Variable Spacing**

LeFebure Three Basic Arrangements



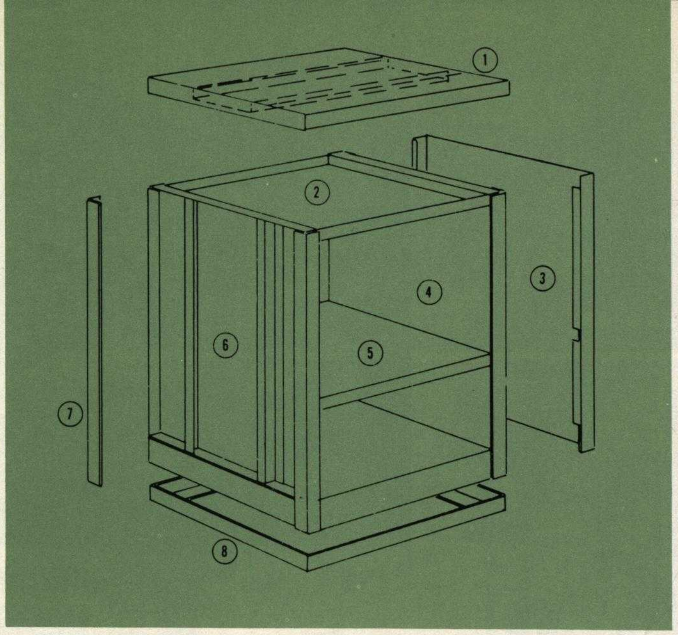
2



3

No two banks are exactly alike . . . neither are their cash handling requirements. Functionally, there are only three basic ways to arrange teller work stations to meet today's needs. Beyond this, however, are numerous individual drawer and storage arrangements of teller equipment.

LeFebure is qualified to analyze the cash handling procedures of any bank of any size, and to recommend the exact number and type of units to fit the most suitable arrangement for each individual bank. LeFebure then designs, and supervises installation of, these units. Wherever necessary, LeFebure also will have a representative on hand to make sure that the bank obtains maximum efficiency from the arrangement.



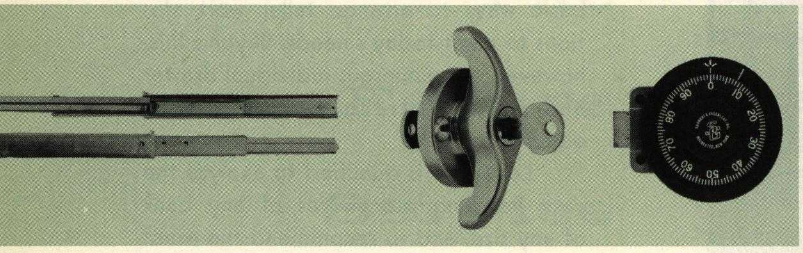
LeFebure Construction Features

Extreme loads, uneven floors, vault ramps and other factors are all considered in the design and construction of all LeFebure equipment.

Double steel wall unit weld construction (shown above), has the following features:

1. Solid top with reinforcing pan
2. Sub-top
3. 20-gauge steel outer wall
4. 18-gauge steel inner wall
5. Reinforced solid shelf
6. 18-gauge stiffening channels between walls
7. Vertical reinforcing (1½″ x 1½″ x ⅛″ angle iron) for movable units and larger stationary units
8. Angle iron base

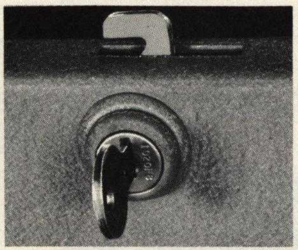
Units can have general automatic locking arrangements or individually locked drawers and doors. Above are some of the locks and fastening devices:



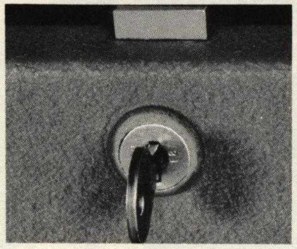
FULL PROGRESSIVE BALL GLIDE SUSPENSIONS—All money drawers in LeFebure units are equipped with easy rolling ball glide suspensions, permitting easy removal of currency trays when transferred to cash locker or money buses.

LOCKING HANDLES are used to secure tilting lids, telescoping doors, etc., and operate throw rods which engage the side walls of the unit.

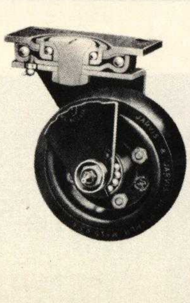
COMBINATION LOCKS of several types are available to fit where key locking is undesirable.



A CAM LOCK is used to secure raising covers, hoods, etc., which are opened vertically.



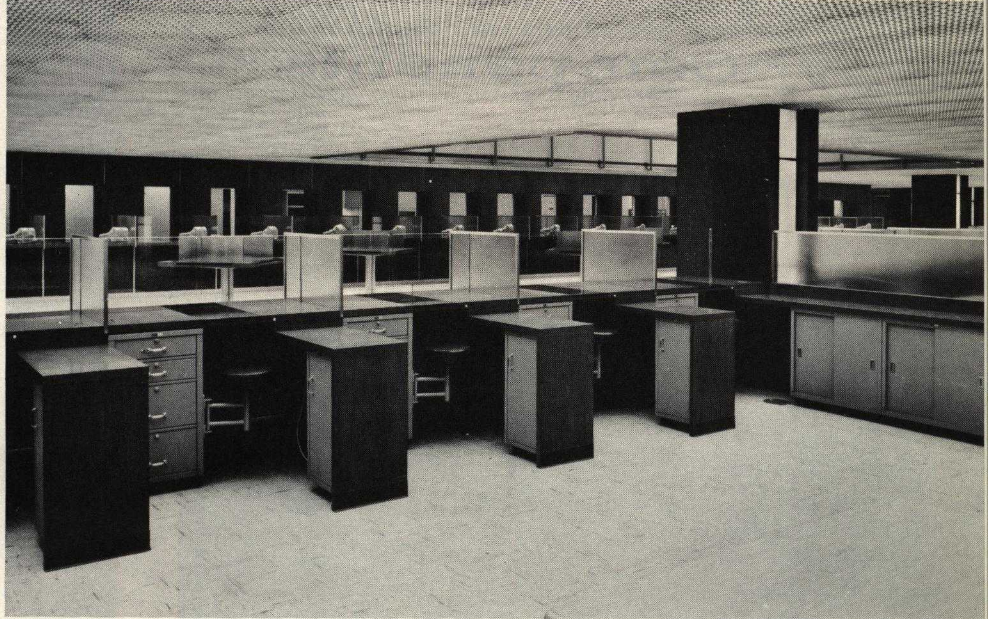
BOLT LOCKS are used to secure drawers and doors that open with a forward pull.



CASTERS—Mobile units are equipped with the highest quality casters. Wheels are of 4″, 5″ and 6″ diameter. Foot brakes are optional on either fixed or swivel casters.

LeFebure approaches the equipment problem with a firm belief that a bank is far ahead with equipment designed and built to fit a particular operation — in an available space. This is more logical than asking the banker to fit his operation to existing equipment.

LeFebure Custom Planning



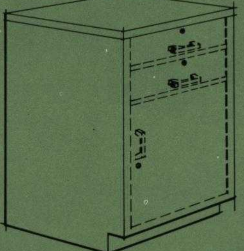
Each bank has character, personality and a specific decor. These factors, plus operating methods, quarters, clearing times, laws and local customs, are all considered in the design, construction and finish of really fine operating equipment.

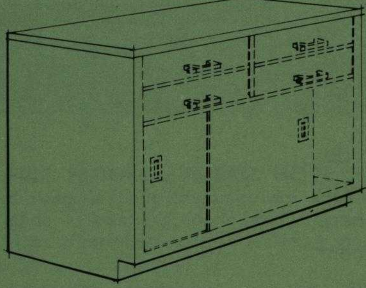
Equipment can be economical or expensive, depending upon how well it functions. Real economy is derived from savings in time, effort and space. These economies can be achieved with LeFebure equipment designed for the requirements of each installation.

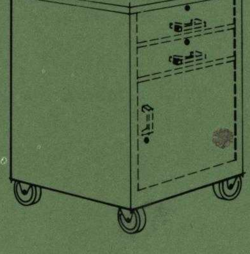
LeFebure Standard Components

LeFebure standard under-counter components are adaptable for all window operations in the Bank and Savings and Loan Lobby area. Typical installations include components for:

- CASH HANDLING
  - Commercial Tellers
  - Savings Department
  - Loan & Discount Department
  - Installment Loan Department
- CARD FILE STORAGE
  - Signature Cards
  - Cross Reference Cards
- STATEMENT FILES
  - Customers Service Department
- SUPPLY STORAGE
  - All Departments


FRONT COUNTER UNIT


RETURN COUNTER UNIT


MOBILE TELLER UNIT

At the left are shown the three LeFebure basic units. Each of these three units can be adapted to fit many individual space and operations requirements of individual banks.

STANDARD OVERALL DIMENSIONS

UNIT	HIGH	WIDE	DEEP
Front Counter	38″	21″	22″*
Return Counter	38″	42″	20″**
Mobile Teller	38″	21″	22″

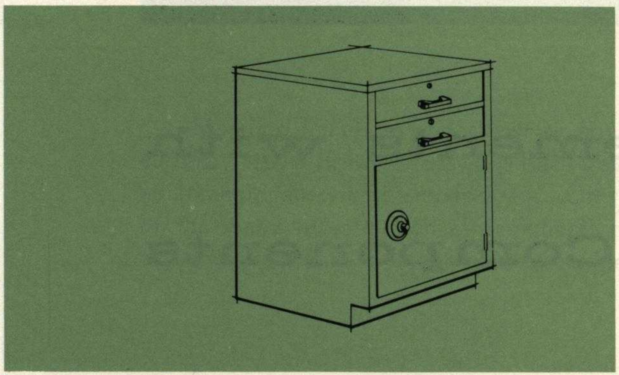
*Furnished in 20″ depth when specified, at no extra charge.

**Furnished in 22″ depth when specified, at no extra charge.

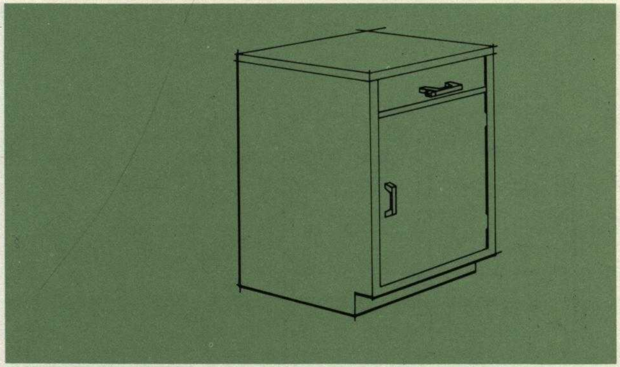
The basic Mobile Teller Unit is interchangeable with the under-counter teller unit. To provide flexibility of the teller operation, this unit is often used. The relief teller operation is greatly simplified with mobile equipment.

Unless otherwise specified, box type drawers are used.

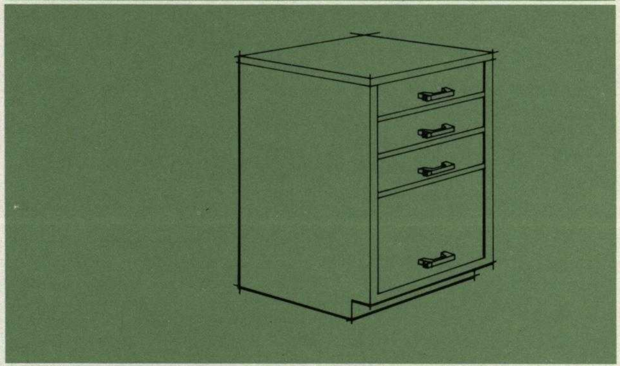
Each of the three LeFebure Standard Components shown on the opposite page has numerous adaptations to fit the space and operational requirements of individual banks and savings and loan associations. Below are merely a few ways in which LeFebure Front Counter Units can be modified.



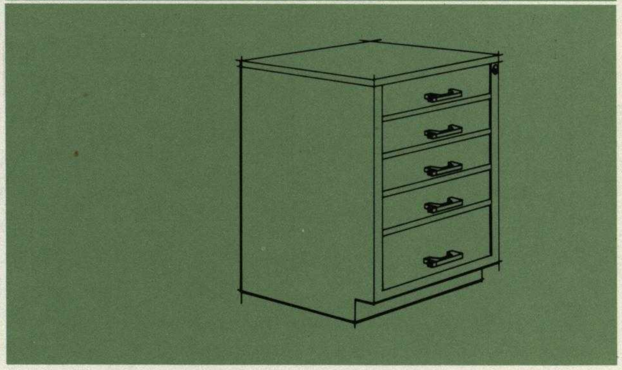
Cash handling generally requires two drawers — one for "working" currency and one for "reserve" currency, "mutilated" currency and "wrapped" coin, plus a storage area. This is one of several two-drawer LeFebure Front Counter Units for cash handling.



While generally used for storage, LeFebure units, such as the one at left, are often used for cash handling. This particular unit has one box drawer, equipped with drawer pull and positive acting thumb latch.



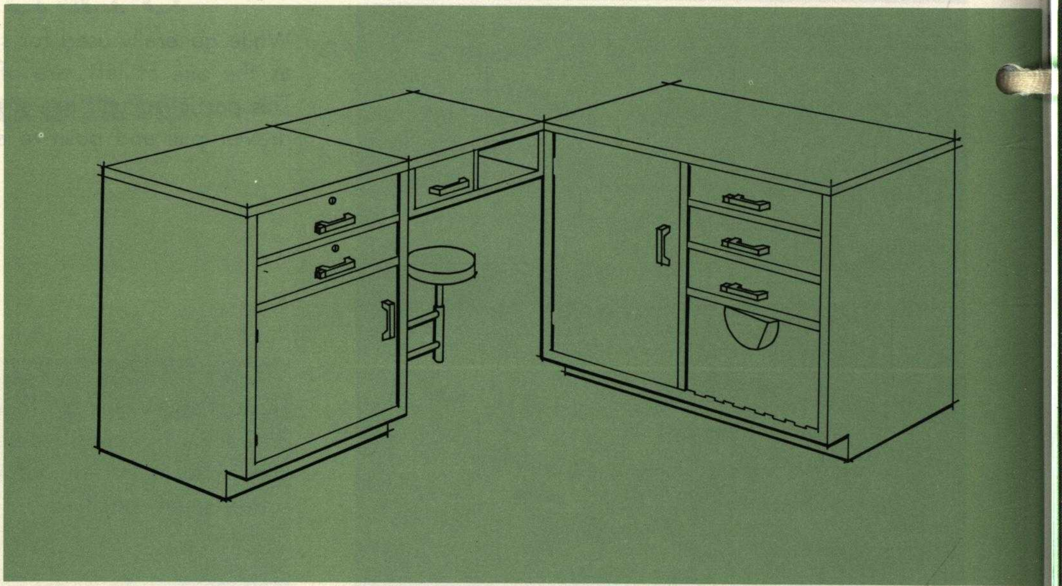
This LeFebure unit has four box drawers equipped with drawer pull and positive acting thumb latch. Individual drawer locks or an automatic general lock can be added when specified.



There are many uses of under-counter file units for storage of customer statements, signature cards, note files, etc. This LeFebure unit has five box drawers, all of which can be locked with one key when desired. A wastebasket can replace the two lower drawers.

In many cases, when the quantity ordered is sufficient, LeFebure standard units may be modified at no extra cost to fit individual requirements. When standard sizes or arrangements do not conform exactly to the intended uses, custom-designed units are available.

Typical Arrangements with Standard LeFebure Components



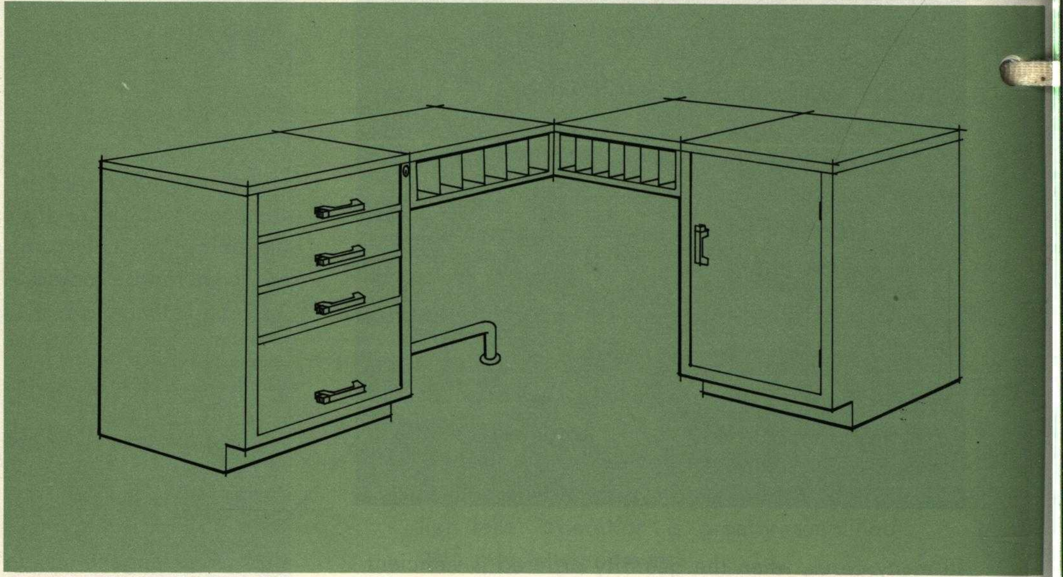
STANDARD COMPONENTS USED:

TELLER CASH UNIT WITH SUPPLY COMPARTMENT

TELLER SEAT

APRON CASE

RETURN COUNTER UNIT



STANDARD COMPONENTS USED:

TELLER CASH UNIT WITH EXTRA DRAWER STORAGE

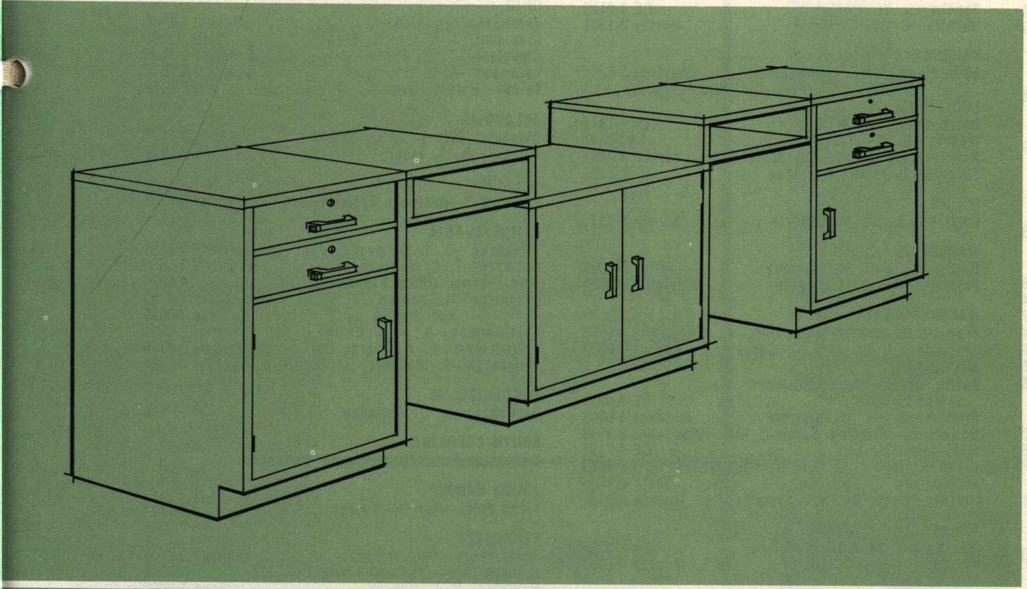
APRON CASE

APRON CASE USED UNDER RETURN WING SECTION

SUPPLY AND STORAGE CABINET

FOOTRAIL

Standard LeFebure under-counter equipment includes apron sections, currency trays, drawers, drawer insert trays, media bins, window posting equipment, teller seats and footrails. On these pages, you will find a few of the many teller station arrangements possible with the complete line of LeFebure standard under-counter equipment.

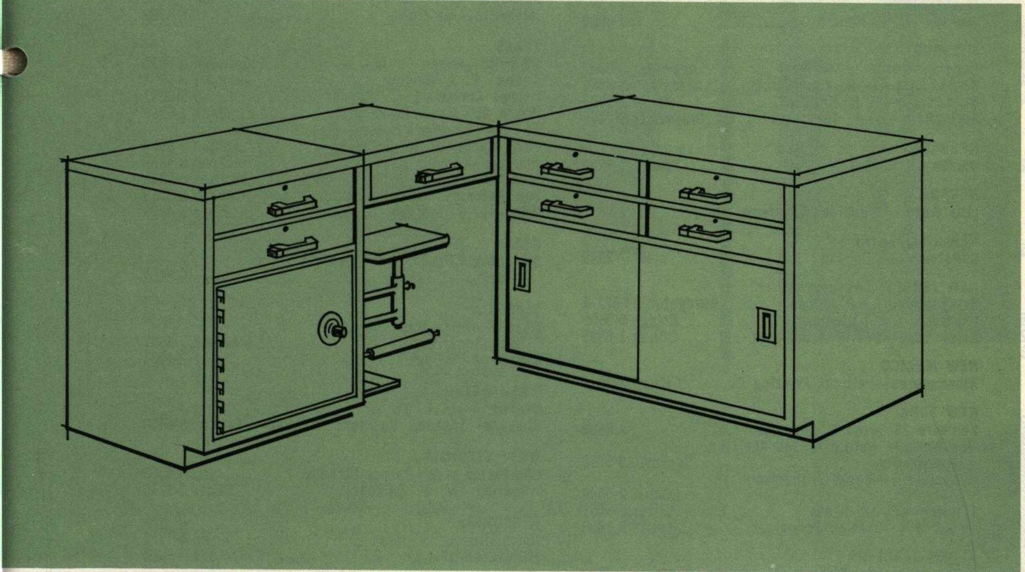


STANDARD COMPONENTS USED:

TELLER CASH UNIT WITH SUPPLY COMPARTMENT

APRON CASE

MACHINE WELL UNIT



STANDARD COMPONENTS USED:

TELLER CASH UNIT WITH SILVER STORAGE LOCKER

APRON CASE

RETURN COUNTER UNIT

TELLER SEAT

In addition to banking and savings and loan systems and equipment, LeFebure also provides systems and equipment for department stores, lumber yards, insurance firms, hospitals, hotels, governmental offices and offices of all types of businesses. The LeFebure installation list reads like a "who's who" of American business.

PUBLICATIONS AVAILABLE UPON REQUEST:

The ABC of Planning Modern Teller Stations
Bank Applications for LeFebure Systems and Equipment
Installation Report: First National Bank of Denver
Installation Report: Trust Company of Georgia, Atlanta
A.I.A. File: Designing and Equipping Bank Teller Stations

REPRESENTATIVES:

ALABAMA	
Birmingham—W. R. House	TR 9-8894
Chelsea—Murray S. Buck	Greenwood 4-5953
Mobile—James Munoz, Jr.	HE 3-2954
Montgomery 5—F. W. Stewart	Amherst 2-6916
ALASKA	
Anchorage—Business Machines Sales & Service	3-9951
ARIZONA	
Phoenix—Loftin's Business Forms Co.	Alpine 8-1609
Tucson—Loftin's Business Forms Co. P. O. Box 67	
ARKANSAS	
North Little Rock—Bruce Ingels	Skyline 3-6003
CALIFORNIA	
Fresno—Business Systems, Inc.	BAldwin 7-9628
Los Angeles—Business Systems, Inc.	RAymond 3-7274
Oakland—Business Systems, Inc.	GLencourt 2-3907
Sacramento—Business Systems, Inc.	GIlbert 2-0714
San Diego—Business Systems, Inc.	BElmont 3-3998
San Francisco—Business Systems, Inc.	MIssion 8-0200
San Jose—Business Systems, Inc.	CYpress 2-4208
COLORADO	
Colorado Springs—W. B. Schuyler	Melrose 3-2110
Denver 10—Glen E. Hoover	Skyline 6-7676
CONNECTICUT	
Waterbury 12—R. A. Phaneuf	Plaza 7-9151
DISTRICT OF COLUMBIA	
Washington—Sam L. Shanks	ME 8-0110
FLORIDA	
Lakeland—Carl Eveland—P. O. Box 146	
Jacksonville—Gene Rusk	Raymond 4-0170
Miami—Stroberg	FRanklin 4-6541
Tallahassee—Archie Kramer	2-3876
Tampa 9—Mel Hughes	Redmond 7-3504
Winter Park—D. E. Holmes	Midway 4-2471
GEORGIA	
Atlanta 16—LeFebure Business Systems Co.	TRinity 5-2591
Savannah—LeFebure Business Systems Co. Box 1916	
IDAHO	
Boise—Syms-York Co.	2-3515
ILLINOIS	
Chicago 44—LeFebure Business Systems, Inc.	FRanklin 2-3678
Decatur—J. O. Richardson Co.	3-8832
Peoria—D. J. Mariani	8-6013
INDIANA	
Evansville—J. O. Richardson Co.—P. O. Box 711	
Ft. Wayne—Deneen Corporation	E-2329
Indianapolis 5—Robert E. Devine	Liberty 7-8953
South Bend 28—Deneen Corporation	CEntral 3-3367
Terre Haute—J. O. Richardson Co.—P. O. Box 383	
IOWA	
Cedar Rapids—W. J. Redmond	EM 2-9695
Davenport—Albert L. Day	7-3872
Davenport—M. R. Pearson	3-2055
Des Moines—C. H. Hayward	Crestwood 7-2264
Mason City—H. M. Kerr	Garden 3-7849
Sioux City—Wm. L. Drommer	2-2670
KANSAS	
Hutchinson—I. E. Cunningham	Mohawk 2-4050
Overland Park—F. E. Madd	Randolph 2-0688
Topeka—J. W. Conlin	CE 3-0113
Wichita 16—W. G. Kinder	Murray 2-1341
KENTUCKY	
Middletown—Glen L. Hodge	Chestnut 5-5206 (Place Call thru Anchorage, Ky.)
LOUISIANA	
Baton Rouge—P. N. Simon	DI 2-1347
Monroe—S. A. Fisher	FA-53347
New Orleans 21—Donald Scott	Vernon 3-4287
Shreveport—J. W. Lawrence	2-5701
MAINE	
Portland—James N. O'Boyle	Spruce 3-7531
MARYLAND	
Baltimore 18—J. K. Flannery	Valley 5-6289
Frederick—R. S. Applegate	Vinewood 5-3521
MASSACHUSETTS	
Framingham Center—Bob Rier	Trinity 2-9629
J. C. Corbett	Regent 7-6897
MICHIGAN	
Battle Creek—Weger Business Systems, Inc.	GL 4-4011
Birmingham—W. D. Brawner	Midwest 4-6048
Detroit 26—Printing Service, Inc.	Woodward 2-3590
Flint—John H. Sims	CE 4-7197
Grand Rapids—A. J. Stroll	CH 1-1243
Jackson—H. L. Nash Co.	STate 2-9736
Lansing—Weger Business Systems, Inc.	Ivanhoe 5-9426
MINNESOTA	
Minneapolis 16—LaVerne Clark	WA 2-6211
St. Paul 4—Dean Clark	Midway 6-1403
MISSISSIPPI	
Jackson—C. S. Rankin Co.	2-6689
MISSOURI	
Cape Girardeau—J. R. Neal	Edgewater 5-6947
Kansas City 41—R. Youngstrom	Gladstone 3-3344
St. Louis 8—A. H. Knepper	Olive 2-3995
Springfield—L. A. Tokarczyk	University 5-2409
NEBRASKA	
Omaha—J. P. Car	Prospect 3999
NEVADA	
(**Los Angeles**—Business Systems, Inc.)	
NEW HAMPSHIRE	
Goffstown—S. Duncan	HY 7-2349
NEW JERSEY	
Bridgeton—Paul D. Lucas	BRidgeton 9-0822-R
Cranford—G. L. Kremer, Jr.	Bridge 6-8655
River Edge—Devlin Associates	COlfax 1-8585
NEW MEXICO	
Albuquerque—Valliant Printing Co.	CHapel 3-4511
NEW YORK	
Kenmore 23—Fred E. Dimmitt	PA 8888
New York 7—Harold M. Mannheimer Organization	Beekman 3-5750
Rochester 4—Macke-Williamson Staty. Co.	LOcust 2-5540
Stamford—C. W. Banta	Oliver 2-5551
Syracuse 4—Charles Schneider	GRanite 6-1835
NORTH CAROLINA	
Asheville—J. W. Flaherty	Alpine 3-2833
Charlotte—J. C. Lyons	Jackson 3-1350
Rocky Mount—Souther Office Supply	6-6619
NORTH DAKOTA	
Bismarck—C. L. Wagner	Capitol 3-5585
OHIO	
Akron 14—Ken Richards	Midlake 4-2486
Cincinnati 2—Victor B. Green	Main 1-3299
Cleveland—C. E. Freed	Superior 1-1535
Columbus—A. A. Anderson	Capital 4-7646
Toledo—Harold Garno	CH 3-9158
OKLAHOMA	
Oklahoma City 1—A. D. Sadler	Jackson 8-5167
Tulsa 1—B. A. Isaacs	DI 3-8815
OREGON	
Portland 1—Business Systems, Inc.	Capitol 8-8755
PENNSYLVANIA	
Allentown—S. J. Donovan	Hemlock 5-4691
Dunmore—T. C. Gilleran	Diamond 3-5990
Erie—Sanner Office Supply Co.	4-6374
Lancaster—McCachren	Express 4-4785
and Nestle	Express 3-6995
Northampton—B. N. Coffman	Colonial 2-9814
Philadelphia—L. W. Pierce Co.	SHerwood 8-0795
Pittsburgh—R. Bennett	Forest 4-0184
RHODE ISLAND	
Barrington—E. J. Callahan	CH-59-116
SOUTH CAROLINA	
Columbia—LeFebure Business Systems Co.	
SOUTH DAKOTA	
Sioux Falls—Paul N. Tucker	8-7169
TENNESSEE	
Chattanooga—Paul Boughan	Madison 9-2759
Johnson City—Standard Forms Co., Inc.	3951
Memphis—C. L. Yancey	Jackson 7-2492
Nashville—Joe Gower	CY 4229
TEXAS	
Amarillo—Roger Fenlaw	Fleetwood 6-2010
Austin—F. S. Newton	Glendale 3-6951
Corpus Christi—L. F. Roeder	TU 2-9031
Dallas 25—Ralph Kilby	Emerson 1-6792
El Paso—Chalmers Peters—P. O. Box 3353	
Fort Worth—J. N. Spalding	Edison 2-8963
Houston—Lamkin Associates	JAckson 9-4889
McAllen—Paul K. King	Murray 6-7881
San Antonio—Fillingim & Co.	CApital 6-3366
Waco—L. C. Morgan	Plaza 3-4429
UTAH	
Salt Lake City—Wright Business Forms & Systems	Davis 2-2662
VIRGINIA	
Norfolk—Allen Business Equipment, Inc.	MAdison 7-3647
Richmond—R. Raw	AT 2-4501
WASHINGTON	
Seattle 4—D. F. Farley	Main 3-0214
Spokane—Spokane Business Systems	Fairfax 8-4450
WEST VIRGINIA	
Charleston —B. Pearce-Dickens	65363
Wheeling—W. E. Campbell	CEdar 2-1740
WISCONSIN	
Janesville—C. S. Nash	PL 4-3126
Milwaukee 17—Wm. E. Flood	Flagstone 2-8600
WYOMING	
(**J. O. Hix**, Denver 21, Colo.)	GL 5-3815

Form No. WL 12118

Printed in U. S. A.

LeFebure Corporation, Cedar Rapids, Iowa

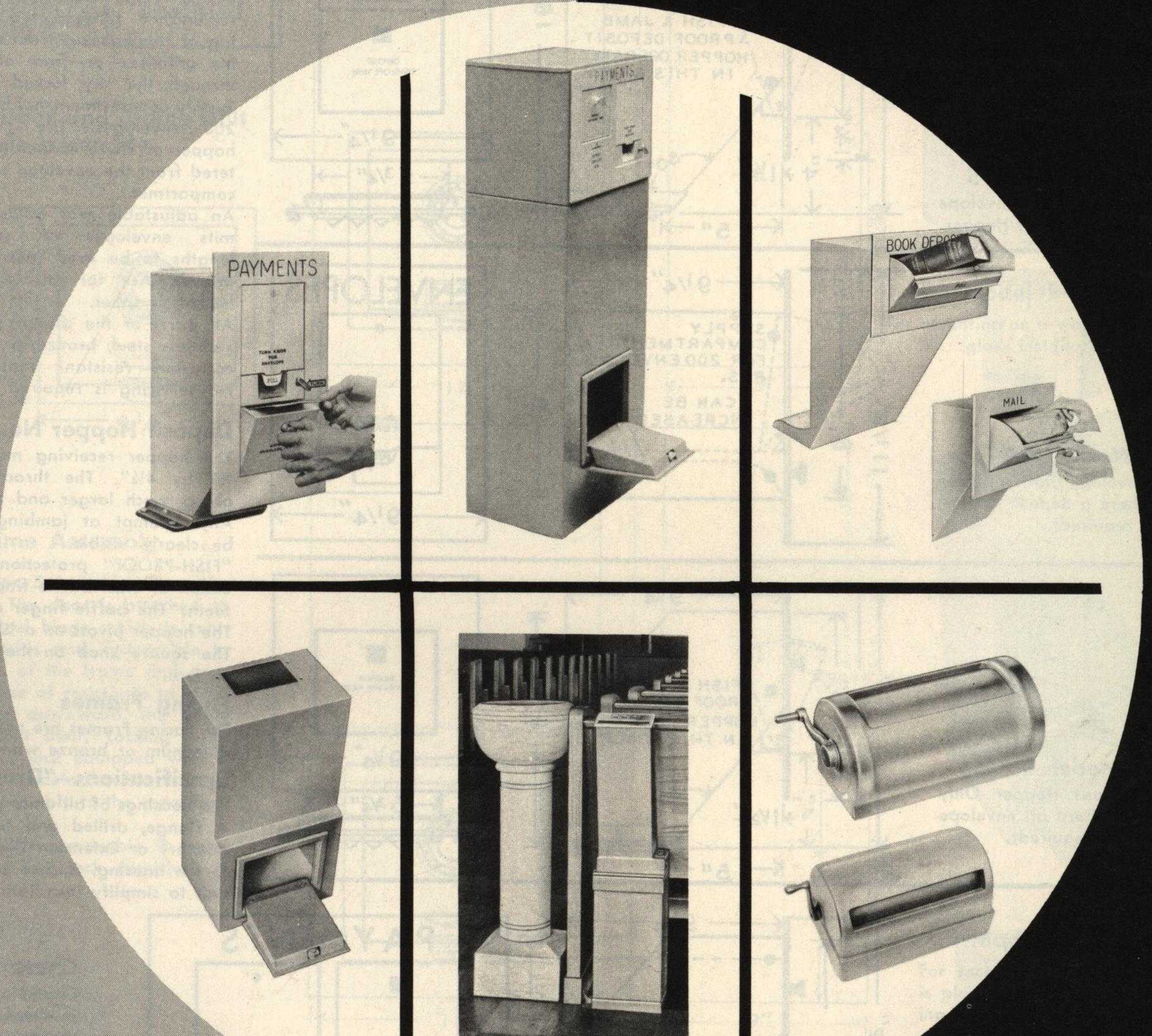
DROPOSITORY

"DROPOSITORY" IS
A REGISTERED TRADE
MARK

PATENTS PENDING

Definition of "DROPOSITORY"

A means of depositing envelopes or other objects in a Repository (receiving container) without opening same. The "DROPOSITORY" may be in an area remote from the Repository.



Improvement and New Development—The Dropository Corporation is continually developing improved methods and equipment. As this brochure goes to press, other "DROPOSITORY" units are in an advanced stage of development.

ARCHITECT:
To save your time all detail drawings are scaled 1½" = 1' (Except as noted).

The **MOSLER DROPOSITORY** *Corporation*

DROPOSITORY

GRANDVIEW, MISSOURI . . . Telephone: (Kansas City Exchange) SOuth 1-8911

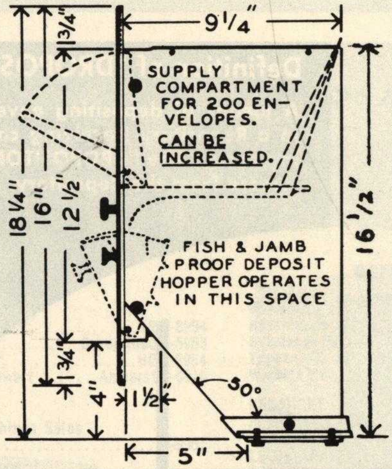
The Mosler DROPOSITORY Corporation

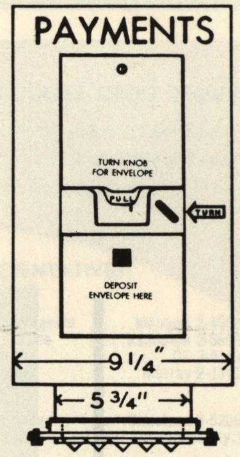
NOTE: Locate Hopper Pull Knob 48″ to 54″ above grade where possible. Layout Sheets available without obligation.

PAYMENTS MODELS — DEPOSITORY UNITS

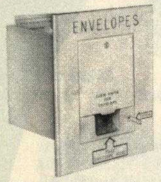
For Public Utilities ● Savings and Loan Associations ● Insurance Companies ● Credit Stores ● Banks ● Finance Companies ● City, County, State, and Federal Collection Offices.

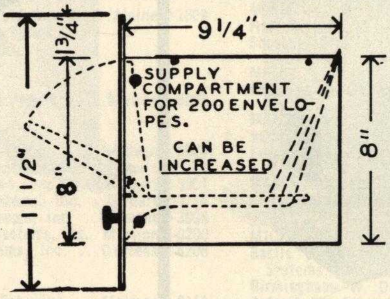
PAYMENTS
TURN KNOB FOR ENVELOPE

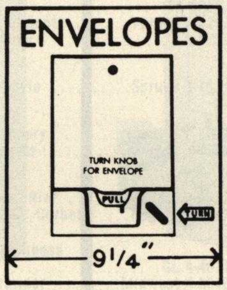

9 1/4″
1 3/4
SUPPLY COMPARTMENT FOR 200 ENVELOPES.
CAN BE INCREASED.
18 1/4″
16″
12 1/2″
FISH & JAMB PROOF DEPOSIT HOPPER OPERATES IN THIS SPACE
16 1/2″
3/4
4″
1 1/2″
30°
5″


PAYMENTS
TURN KNOB FOR ENVELOPE
PULL
TURN
DEPOSIT ENVELOPE HERE
9 1/4″
5 3/4″

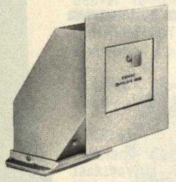
Model I.O.L.80-5
Vertical — One Envelope Unit — One Deposit Hopper.

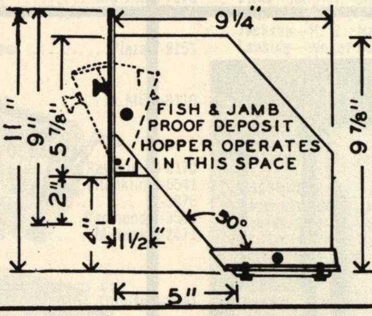


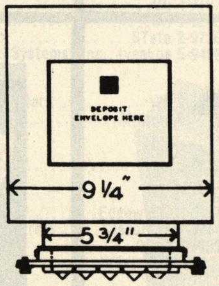

9 1/4″
1 3/4
SUPPLY COMPARTMENT FOR 200 ENVELOPES.
CAN BE INCREASED
11 1/2″
8″
8″


ENVELOPES
TURN KNOB FOR ENVELOPE
PULL
TURN
9 1/4″

Model 456
One Envelope Unit Only (for use where a deposit hopper is not required).


DEPOSIT ENVELOPE HERE

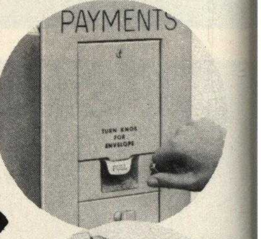

9 1/4″
11″
9″
5 7/8″
2″
4″
1 1/2″
FISH & JAMB PROOF DEPOSIT HOPPER OPERATES IN THIS SPACE
9 7/8″
30°
5″


DEPOSIT ENVELOPE HERE
9 1/4″
5 3/4″

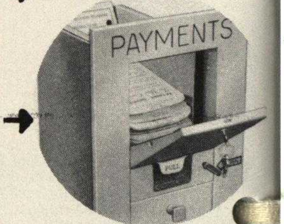
Model 85
One Deposit Hopper Only (for use where an envelope unit is not required).

Envelope Unit No. 456 →

The PULL flap of an envelope moves into easily reached position when the "T" handle is pushed or turned in EITHER direction. (Once withdrawn the envelope cannot be reinserted in the supply compartment by mistake.) →


PAYMENTS
TURN KNOB FOR ENVELOPE

The envelope supply may be replenished through the open top of the housing from inside the premises—or—from outside through the key locked door. Supply compartment holds over 200 envelopes. The deposit hopper or chute cannot be entered from the envelope supply compartment. →


PAYMENTS
PULL

An adjustable rear guide permits envelopes of several lengths to be used (not intermixed). Ask for envelope illustration sheet.

All parts of the dispenser are stainless steel, bronze, or other corrosion resistant materials. No servicing is required.

TURN KNOB FOR ENVELOPE
PULL
TURN
DEPOSIT ENVELOPE

Deposit Hopper No. 85 →

The hopper receiving mouth is restricted in size to ⅝″ by 4¼″. The throat, however, will accept an object much larger and therefore cannot be jambed. Any attempt at jambing the hopper throat would be clearly visible.

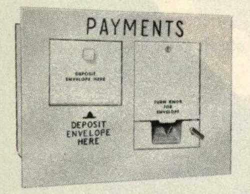
"FISH-PROOF" protection is made possible by the action of steel baffle fingers, interlocking with baffle teeth. The baffle finger assembly is cadmium plated. The hopper pivots on a ¼″ dia. stainless steel bearing. The square knob on the hopper front cannot loosen or turn.

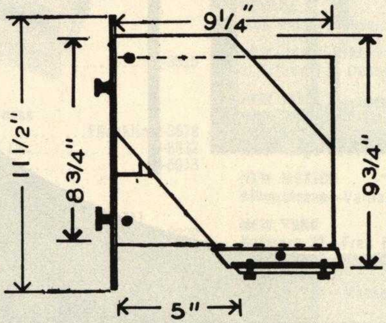
Facing Frames

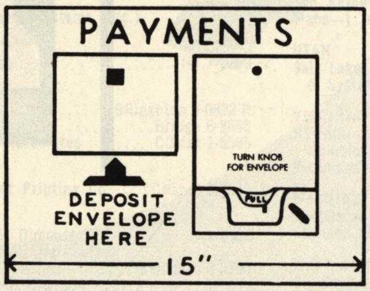
The Facing Frames are normally furnished in alumilited aluminum or bronze with satin finish.

Specifications—"Dropository" Housings

The housings of all units are 16 gauge paint grip steel. A flange, drilled and tapped for bolting to a Repository or Extension Chute, is REMOVABLY attached to the housing. Anchor studs are provided with each unit to simplify installation.


PAYMENTS
DEPOSIT ENVELOPE HERE
TURN KNOB FOR ENVELOPE

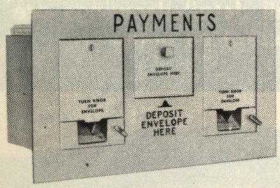

9 1/4″
11 1/2″
8 3/4″
9 3/4″
5″

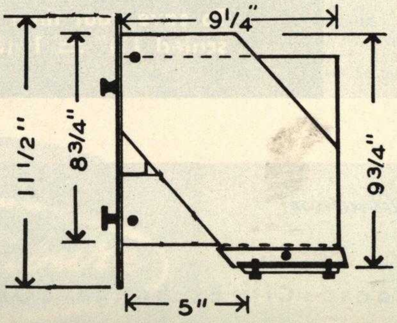

PAYMENTS
DEPOSIT ENVELOPE HERE
TURN KNOB FOR ENVELOPE
PULL
15″

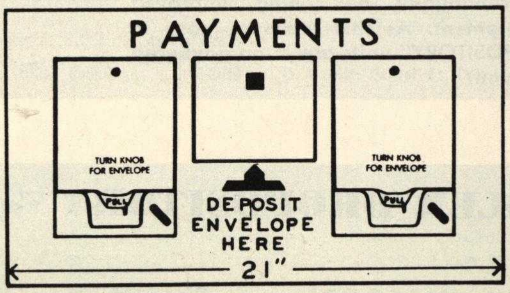
Model 85-456
Horizontal — One Envelope Unit — One Deposit Hopper.

Chute Extensions

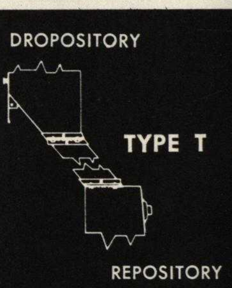
Chutes of the required length are used in extending the "Dropository" throat through thick walls or in other situations where the Repository is remotely located. Removable "Bolting Flanges" are attached to each end of the chute. Two types are regularly furnished, as illustrated here.


PAYMENTS
TURN KNOB FOR ENVELOPE
DEPOSIT ENVELOPE HERE
TURN KNOB FOR ENVELOPE


9 1/4″
11 1/2″
8 3/4″
9 3/4″
5″


PAYMENTS
TURN KNOB FOR ENVELOPE
PULL
DEPOSIT ENVELOPE HERE
TURN KNOB FOR ENVELOPE
PULL
21″

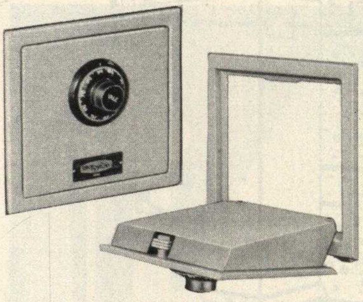
Model 85-2-456
Horizontal — Two Envelope Units — One Deposit Hopper — Holds over 400 envelopes.


DROPOSITORY
TYPE T
REPOSITORY

Chute entering top of Repository.

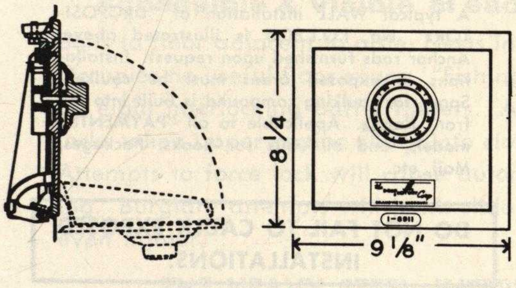
TWO STANDARD SIZES — OR SPECIAL SIZES FROM STANDARD PARTS

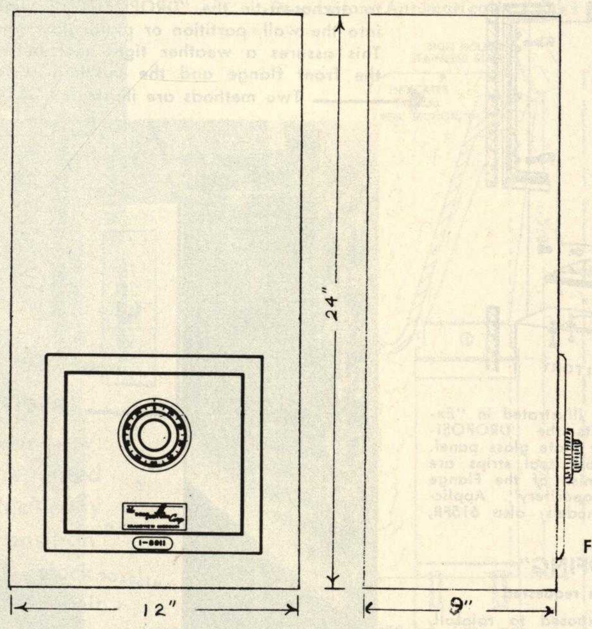
Slight Variations from Standard — or — Minor Dimension Changes to Suit Your Needs

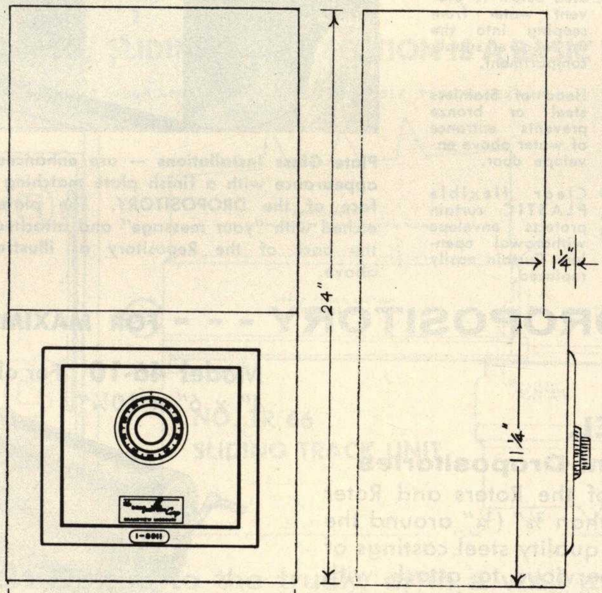


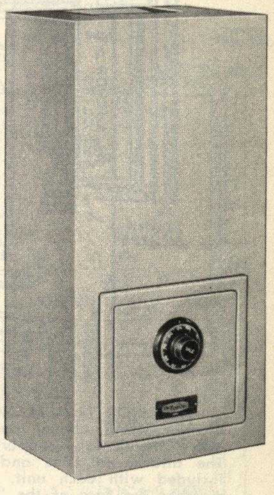
Standard Equipment in all Repositories unless otherwise specified

No. 89—Repository Door and Frame Unit
A detachable assembly



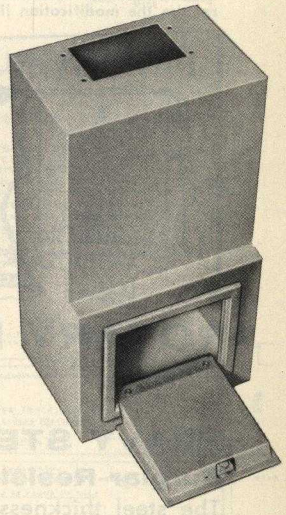






Model B-2412

For mounting on a wall or for plate glass installation.



Model BR-2412

For recessing into a wall that is plastered or paneled, exposing only the door portion.

Specifications—
No. 89 Door and Frame Assembly

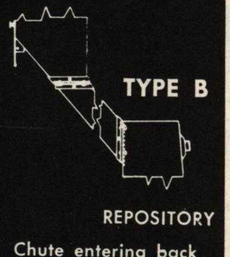
Steel castings of high quality, 5/16" thick, form the door and frame members. The door is attached to the frame with a heavy steel hinge which is completely invisible on the outside and inaccessible to burglary attack. The design of the frame and door affords a considerable degree of resistance to forcible entry. Opening out and downward, the inside surface becomes a convenient shelf. Locking is by a three-tumbler combination lock equipped with a reinforced bolt. Bolts, with heads accessible through the open door, secure the assembly to the repository opening.

The locking dial can be made removable if specified, at small extra cost. Key lock furnished if specified.

For Special Applications

May be Ordered Separately. The door to a repository is its most essential and vulnerable element. The No. 89 door and frame assembly is a complete unit which can be placed in a repository of the size and shape dictated by available space, WITHOUT INVOLVING SPECIAL CONSTRUCTION. Larger doors on request.

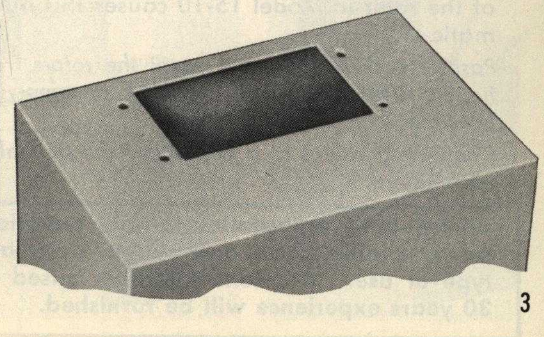
Specifications—Repository Housings—Unless otherwise specified, Repository housing will be made of 14 gauge Paint Grip Steel, electric arc welded at the seams and ground smooth. The unit is thoroughly cleaned and painted a base coat of zinc chromate primer. The inside painted aluminum. The Repository front is embossed to receive the frame of the No. 89 door and frame assembly.



Chute entering back or side of Repository.

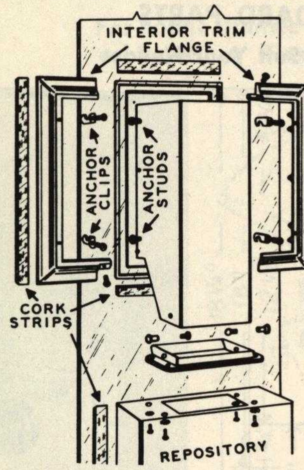
IMPORTANT

The 'DROPOSITORY' or extension chute unit can be bolted to the Repository at any point. Unless otherwise specified, the opening will be cut in the Repository top center, adjacent to the back as illustrated right. Small variations easily made on the job.



INSTALLATION — The Mosler DROPOSITORY Corporation — INSTRUCTIONS

PLATE GLASS


INTERIOR TRIM FLANGE
ANCHOR CLIPS
ANCHOR STUDS
CORK STRIPS
REPOSITORY

The INTERIOR TRIM FLANGE illustrated in "Exploded" form above, permits the "DROPOSITORY" to partially support a plate glass panel. The attachment clips and cork seal strips are included with each unit. Finish of the Flange matches the face of the "Dropository". Applicable to all "PAYMENTS" models; also 615FR, 1112FR, and 712FR units.

ANCHOR STUDS

Two (or four) anchor studs are attached to each DROPOSITORY unit. They may be used to anchor-or-tie the "DROPOSITORY" tightly into the wall, partition or plate glass panel; This assures a weather tight seal between the front flange and the building surface. ← Two methods are illustrated. →

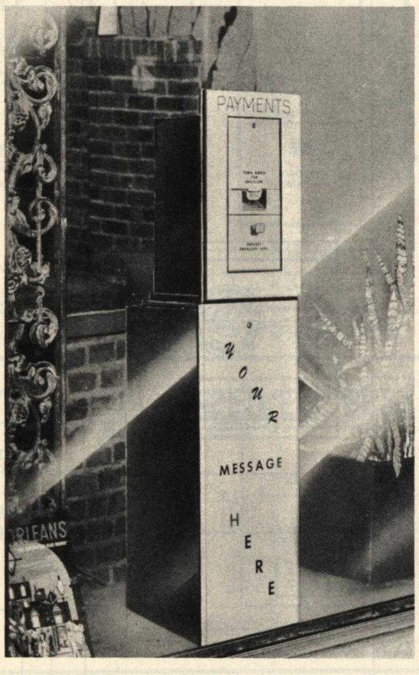
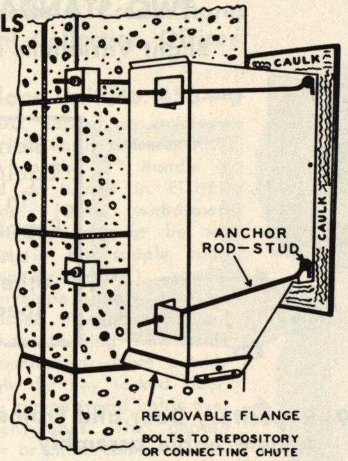

PAYMENTS
Y O U R
MESSAGE
H E R E

Plate Glass Installations — are enhanced in appearance with a finish plate matching the face of the DROPOSITORY. The plate is etched with "your message" and attached to the back of the Repository as illustrated above.

WALLS


CAULK
CAULK
ANCHOR ROD—STUD
REMOVABLE FLANGE
BOLTS TO REPOSITORY OR CONNECTING CHUTE

A typical WALL installation of "DROPOSITORY" No. I.O.L.80-5 is illustrated above. Anchor rods furnished upon request. Installations in exposed areas must be caulked. Space for caulking compound is built into the front flange. Applicable to all "PAYMENTS" models, and all units for Books, Packages, Mail, etc.

DO NOT FAIL TO CAULK EXPOSED INSTALLATIONS.

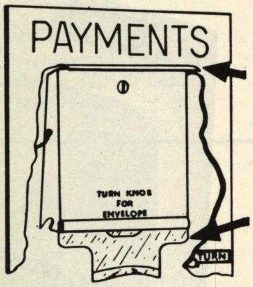
NOTICE — "DROPOSITORY" units containing an envelope dispenser require circulation of ROOM AIR in the envelope supply compartment. The equivalent of a ½" diameter opening located above the compartment is usually sufficient.

An access opening to permit refilling envelope supply compartment from inside the premises should be provided if feasible.

"WATERPROOFING"

Supplied ONLY when requested

Installations in locations exposed to rainfall, require the modification illustrated below to prevent water from seeping into the envelope supply compartment.


PAYMENTS
TURN KNOB FOR ENVELOPE
TURN

Hood of Stainless steel or bronze prevents entrance of water above envelope door.

Clear flexible PLASTIC curtain protects envelope withdrawal opening. Curtain easily replaced.

ROTARY DROPOSITORY - - - FOR MAXIMUM PROTECTION AGAINST BURGLARY

HEAVY STEEL

Burglar Resistant Dropositories

The steel thickness of the Roters and Roter Housings is not less than ⅜" (¾" around the openings). The high quality steel castings of these units are impervious to attack with sledge hammers, wedges or other burglar tools.

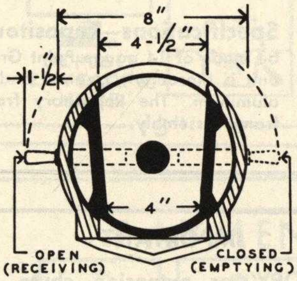
The drawings indicate the handle and roter positions of both models in open (receiving) position. Release of the handle allows the roters to automatically return to closed (emptying) position. A removable spring in Model 46-10 and the counter balance design of the roter in Model 15-10 causes this automatic closing.

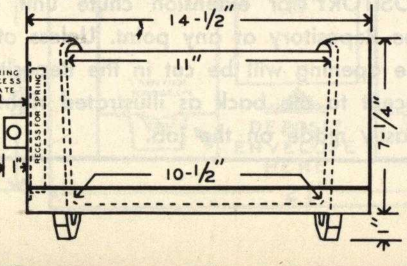
Positive cushioned stops prevent the rotors from turning beyond correct receiving or emptying positions.

Connecting chutes to a Repository are available as required.

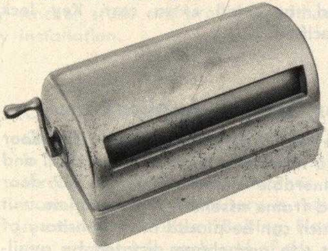
Custom-built repositories to suit conditions are available. Give dimensional data and type of user. A recommendation based on 30 years experience will be furnished.

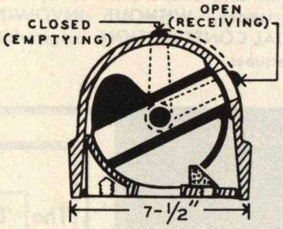
Model 46-10 For objects up to 4" x 6" x 10¼"

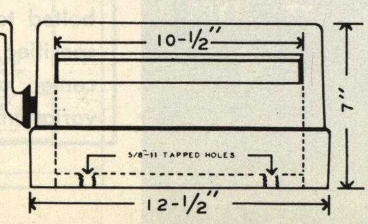

8"
4-1/2"
1-1/2"
4"
OPEN (RECEIVING)
CLOSED (EMPTYING)


14-1/2"
11"
SPRING ACCESS PLATE
RECESS FOR SPRING
7-1/4"
1"
10-1/2"
1"

Model 15-10 For objects up to 1¼" x 5½" x 10¼"




CLOSED (EMPTYING)
OPEN (RECEIVING)
7-1/2"

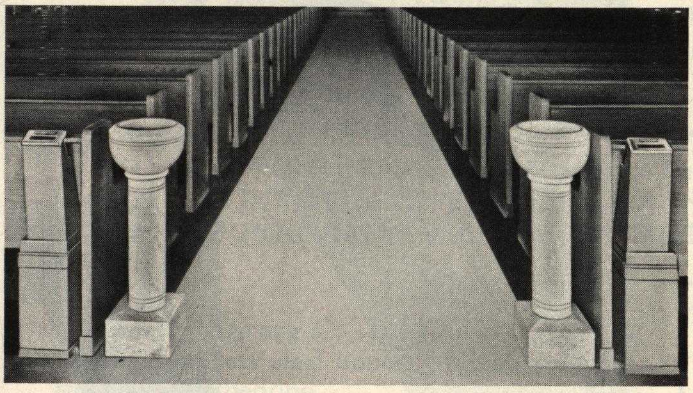

10-1/2"
7"
5/8"-11 TAPPED HOLES
12-1/2"

The Mosler DROPOSITORY Corporation

CHURCH DEPOSITORY COLLECTIONS UNITS

A DEPOSITORY-REPOSITORY UNIT WITHOUT A DOOR

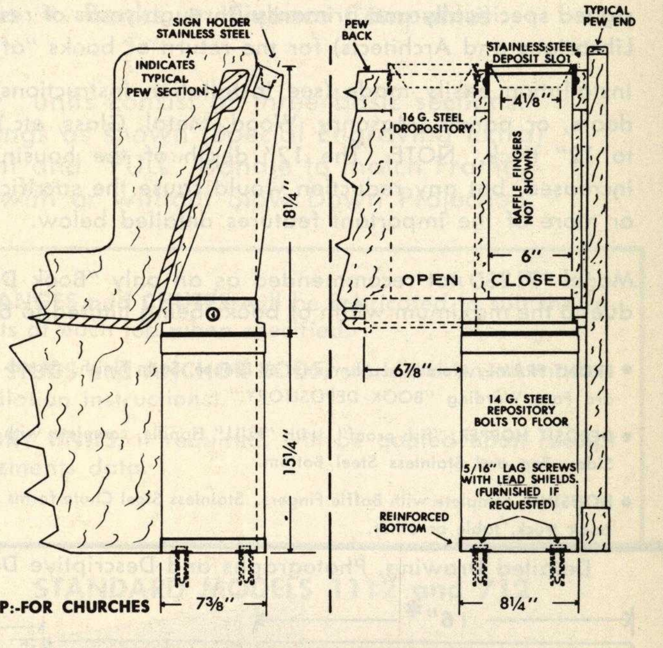
FOR CHURCHES: To encourage use of weekly envelopes – Increase tray collections



Accessible & Visible at each Aisle

Bolts to floor adjacent to aisle; Nests into rear pew. Occupies no useful floor space. "Fishing" prevented by eight interlocking baffle fingers. Automatically locks when upper section slides into closed position. Attempts to force lock will cause automatic relocking. Burglary attempts will jamb slide locking unit even tighter.

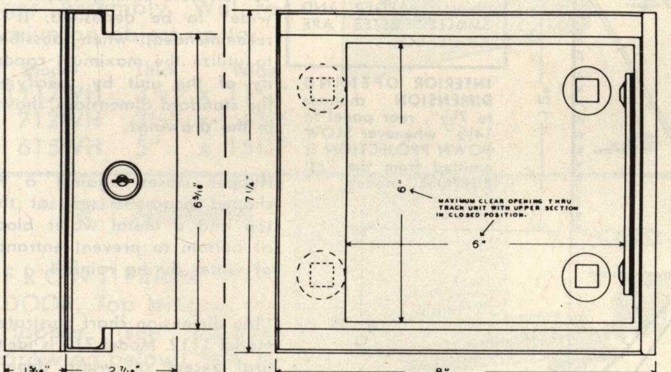
Dropository Automatically Locks in Closed Position

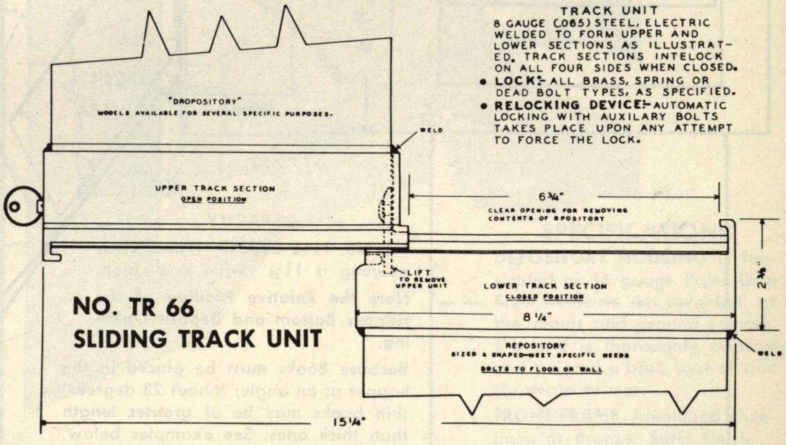

SIGN HOLDER STAINLESS STEEL
INDICATES TYPICAL PEW SECTION.
18¼″
15¼″
7⅜″
PEW BACK
TYPICAL PEW END
STAINLESS STEEL DEPOSIT SLOT
4⅛″
16 G. STEEL DROPOSITORY
BAFFLE FINGERS NOT SHOWN.
6″
OPEN
CLOSED
6⅞″
14 G. STEEL REPOSITORY BOLTS TO FLOOR
5/16″ LAG SCREWS WITH LEAD SHIELDS. (FURNISHED IF REQUESTED)
REINFORCED BOTTOM
8¼″

MODEL CH4—P:-FOR CHURCHES

THE HEAVY STEEL, INTERLOCKING, SLIDING TRACK SECTION IS A BASIC ELEMENT

MAY BE USED IN PLANNING DROPOSITORY—REPOSITORY INSTALLATIONS TO MEET YOUR SPECIFIC REQUIREMENTS. SEE TYPICAL EXAMPLES


6³⁄₁₆″
7¼″
1⁵⁄₁₆″
2 ⁷⁄₁₆″
3¾″
6″
MAXIMUM CLEAR OPENING THRU TRACK UNIT WITH UPPER SECTION IN CLOSED POSITION.
6″
8″


"DROPOSITORY"
MODELS AVAILABLE FOR SEVERAL SPECIFIC PURPOSES.
WELD
UPPER TRACK SECTION
OPEN POSITION
6¾″
CLEAR OPENING FOR REMOVING CONTENTS OF REPOSITORY
LIFT TO REMOVE UPPER UNIT
LOWER TRACK SECTION
CLOSED POSITION
8¼″
2⅜″
REPOSITORY
SIZED & SHAPED MEET SPECIFIC NEEDS
BOLTS TO FLOOR OR WALL
WELD
15¼″

NO. TR 66
SLIDING TRACK UNIT

GENERAL SPECIFICATIONS

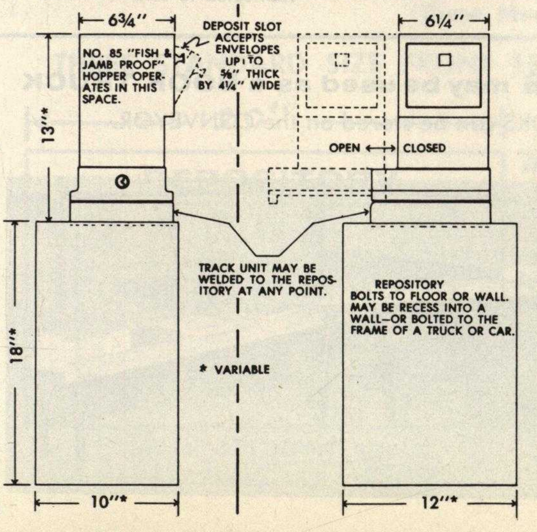
TRACK UNIT

8 GAUGE (.065) STEEL, ELECTRIC WELDED TO FORM UPPER AND LOWER SECTIONS AS ILLUSTRATED. TRACK SECTIONS INTELOCK ON ALL FOUR SIDES WHEN CLOSED.

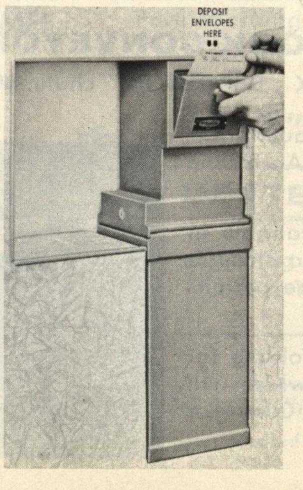
- **LOCK:**- ALL BRASS, SPRING OR DEAD BOLT TYPES, AS SPECIFIED.
- **RELOCKING DEVICE:**- AUTOMATIC LOCKING WITH AUXILARY BOLTS TAKES PLACE UPON ANY ATTEMPT TO FORCE THE LOCK.

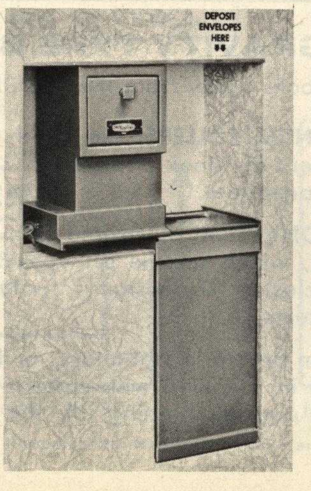
FOR DRIVER COLLECTIONS: Bolted to the truck, or in a wall at a central office.

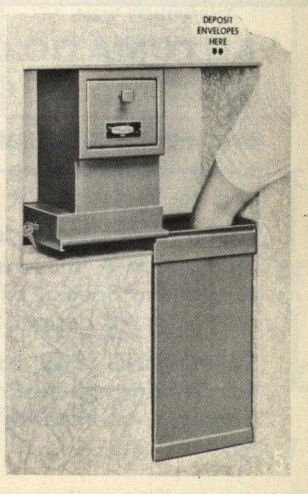
Dropository Automatically Locks in Closed Position


6¾″
DEPOSIT SLOT ACCEPTS ENVELOPES UP TO ⅝″ THICK BY 4¼″ WIDE
NO. 85 "FISH & JAMB PROOF" HOPPER OPERATES IN THIS SPACE.
13″*
6¼″
OPEN ⟷ CLOSED
TRACK UNIT MAY BE WELDED TO THE REPOSITORY AT ANY POINT.
REPOSITORY BOLTS TO FLOOR OR WALL. MAY BE RECESS INTO A WALL—OR BOLTED TO THE FRAME OF A TRUCK OR CAR.
* VARIABLE
18″*
10″*
12″*

MODEL 85 TR-A FOR DRIVER COLLECTIONS OR UTILITY COMPANIES – CHURCHES


DEPOSIT ENVELOPES HERE


DEPOSIT ENVELOPES HERE


DEPOSIT ENVELOPES HERE

The Mosler DROPOSITORY Corporation

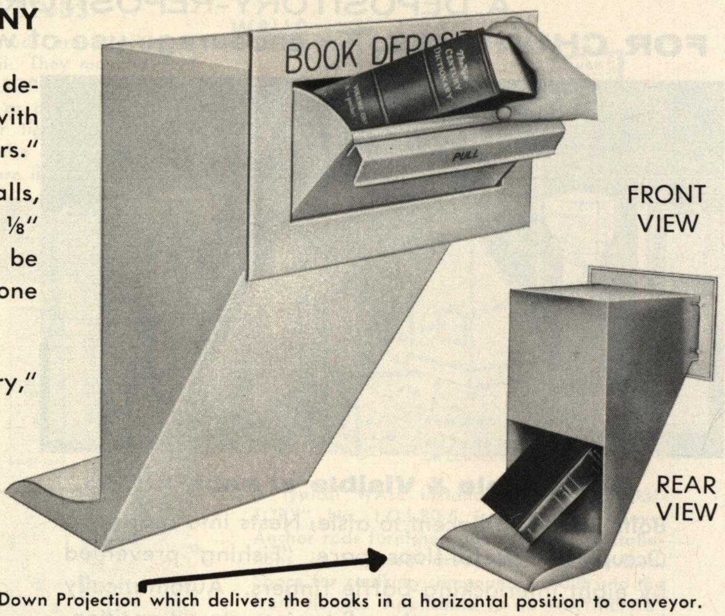
BOOK DEPOSITORY BOOK CONVEYORS

For LIBRARIES PUBLIC • SCHOOL • COMPANY

The complete Model *1112SD as illustrated, is a basic unit designed specifically and primarily (through years of research with Librarians and Architects) for the return of books "after hours."

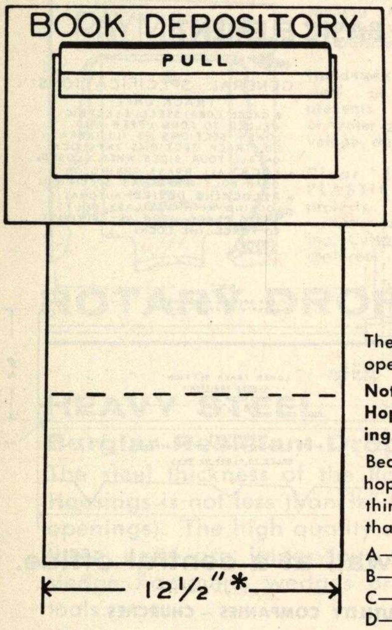
Installation easily made (see Installation Instructions) in walls, doors, or panels (Masonry, Wood, Metal, Glass, etc.), from ⅛" to 12" thick. NOTE: The 12" depth of the housing may be increased, but any reduction would cause the sacrificing of one or more of the important features detailed below.

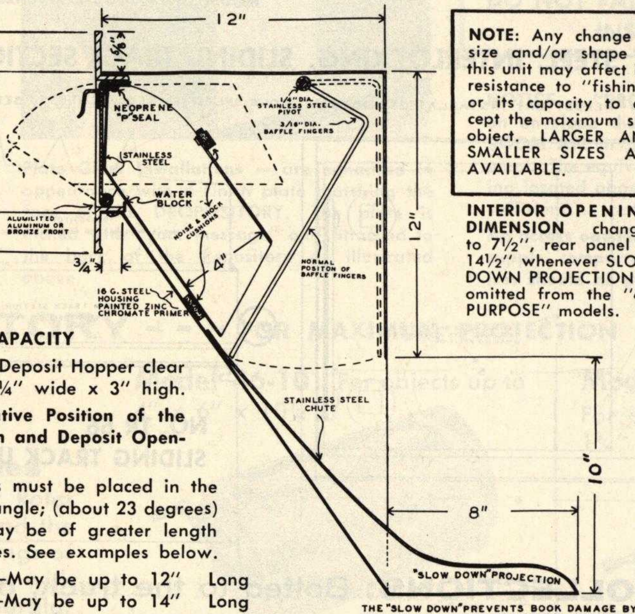
Model *712SD not recommended as an only "Book Depository," due to the maximum width of books being limited to 6¾".


BOOK DEPOSITORY
PULL
FRONT VIEW
REAR VIEW

- **FRONT FRAME,** Alumilited Aluminum or Bronze, Satin Finish. Standard Face Wording "BOOK DEPOSITORY."
- **DEPOSIT HOPPER,** "fish-proof", with "PULL" Handle, complete with Sides, Top and Stainless Steel Bottom.
- **HOUSING,** complete with Baffle Fingers. Stainless Steel Chute forms the Slow Down Projection which delivers the books in a horizontal position to conveyor. book truck, table or other.

Detailed Drawing, Photographs and Descriptive Data of this model, also apply to other "all PURPOSE" models.


16"*
BOOK DEPOSITORY
PULL
9¼"
12½"*


12"
1⅝"
6"
NEOPRENE "P" SEAL
1/4" DIA. STAINLESS STEEL PIVOT
3/16" DIA. BAFFLE FINGERS
STAINLESS STEEL
WATER BLOCK
ALUMILITED ALUMINUM OR BRONZE FRONT
NOISE & SHOCK CUSHIONS
4"
¾"
NORMAL POSITON OF BAFFLE FINGERS
16 G. STEEL HOUSING PAINTED ZINC CHROMATE PRIMER
12"
STAINLESS STEEL CHUTE
10"
8"
"SLOW DOWN" PROJECTION

THE "SLOW DOWN" PREVENTS BOOK DAMAGE BY DELIVERING THEM IN HORIZONTAL POSITION TO A CONVEYOR OR BOOK TRUCK.

CAPACITY

The No. 1112 Deposit Hopper clear opening is 11¼" wide x 3" high.

Note the Relative Position of the Hopper Bottom and Deposit Opening.

Because Books must be placed in the hopper at an angle; (about 23 degrees) thin books may be of greater length than thick ones. See examples below.

A—2½" thick—May be up to 12" Long
B—2" thick—May be up to 14" Long
C—1½" thick—May be up to 16" Long
D—3" thick—May be up to 4½" Long

NOTE: Any change in size and/or shape of this unit may affect it's resistance to "fishing" or its capacity to accept the maximum size object. LARGER AND SMALLER SIZES ARE AVAILABLE.

INTERIOR OPENING DIMENSION changes to 7½", rear panel to 14½" whenever SLOW DOWN PROJECTION is omitted from the "all PURPOSE" models.

The dimensions of the housings indicated in the drawings (left) provide a maximum of protection against "fishing" while at the same time permitting books 16" or more in length by 11¼" wide* to be deposited. It is recommended, when possible, to utilize the maximum capacity of the unit by specifying the standard dimensions, shown in the drawings.

Hopper closes against a P-shaped neoprene seal at the top and a metal water block at bottom to prevent entrance of water during rainfall.

*The dimension chart illustrates Model 1112. Model 712 is identical except all width dimensions are reduced 4½".

SPECIAL FLANGES for interior opening trim and extensions for Housing and Chute can be fabricated to suit.

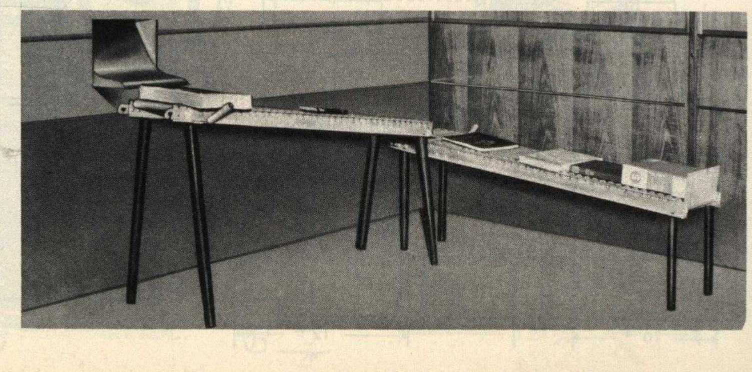
AUTOMATIC GRAVITY TYPE BOOK CONVEYORS may be used as a BOOK TRUCK

Safely moves Books away from the "BOOK DEPOSITORY" chute. BOOKS can be stored on the CONVEYOR.

BALL-BEARING ALUMINUM ROLLERS, activated automatically by books coming out of "Book Depository." An incline of 8 to 10 degrees is adequate.

THE GRAVITY-TYPE CONVEYOR, illustrated is available in lightweight 5' sections, which can be set up in a straight run, and a Special Exclusive "Dropositroy" feature permits set-up for 90 degree turns.

SUPPORTING LEGS, can be made stationary, or folding for easy storing when not in use, and with casters which will permit easy moving and positioning of the Conveyor Sections.



The Mosler DROPOSITORY Corporation

DEPOSITORY UNITS

MAIL • PACKAGES • FILM • DRUGS

for all PURPOSES and all HOURS • for all BUSINESSES and INSTITUTIONS

Hospitals • Laboratories • Drug Houses • Film Companies • Insurance Companies
Public Utilities • Savings and Loan Associations • Banks • Finance Companies

The Standard Model 1112 and Model 712 "Dropository" units consist of three basic sections:

(1) THE FRONT FRAME with Standard Face Wordings as shown (Special Engraving Extra)
(2) THE DEPOSIT HOPPER* "fish-proof" with Front and "PULL" Handle to match Frame
(3) THE HOUSING** with Stainless Steel Chute, with or without Slow Down Projection

***THE DEPOSIT HOPPER** is a complete unit with sides, top and stainless steel bottom. Hopper pivots on stainless steel bearing.

** **THE HOUSING** has steel Baffle Fingers built in, and the Bottom is Double Thickness 16 ga. Steel, with the Top Layer Stainless Steel.

INNER FLANGES and CHUTES will be fabricated to suit the requirements of each job when specified.

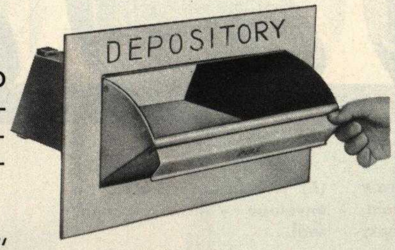
ANCHOR STUDS and ANCHOR RODS, standard on all models (see installation instructions).

REPOSITORY UNITS, if required, will be quoted upon receipt of requirements data.

"WH" Models

FRONT FRAME AND HOPPER without housing, chute, or Baffle Finger Assembly. Will receive an object up to:

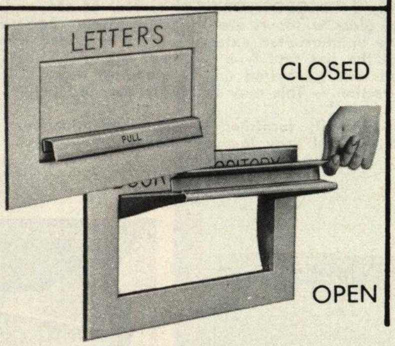
Model	Thick		Wide
1112WH	3½"	x	11¼"
712WH	3½"	x	6¾"
615WH	5"	x	15¼"



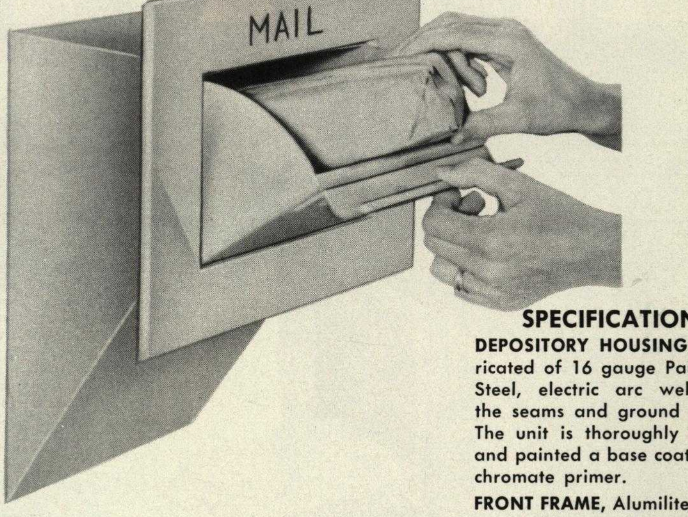
"FR" Models

FRONT FRAME AND DOOR, Top Hinged, NO Hopper (see detailed drawing below). Will receive an object up to:

Model	Thick		Wide
1112FR	4¾"	x	11¾"
712FR	4¾"	x	7¼"
615FR	6¼"	x	15¼"



STANDARD MODELS 1112 and 712



SPECIFICATIONS

DEPOSITORY HOUSING is fabricated of 16 gauge Paint Grip Steel, electric arc welded at the seams and ground smooth. The unit is thoroughly cleaned and painted a base coat of zinc chromate primer.

FRONT FRAME, Alumilited aluminum or Bronze, Satin finish.

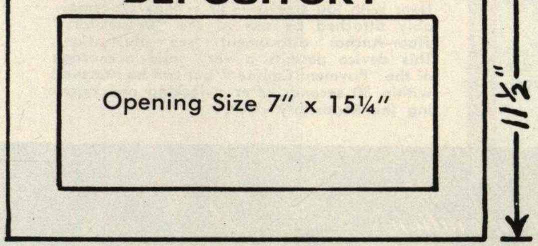
DIMENSIONS are same as Detailed Drawing on opposite page.

(These Models ideal for "MAIL" use in Residences, too)

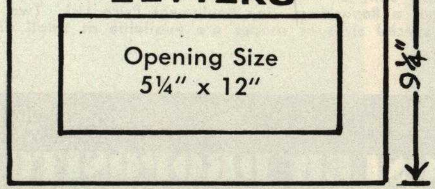
THREE STANDARD SIZE FRONT FRAMES

Face Wording May Be Changed or Omitted

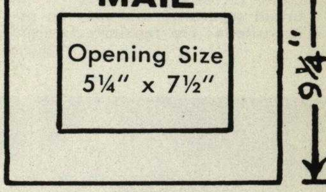
NEW EQUIPMENT
Other equipment not shown here is in process of development
Please state your problem



Model 615 *(frame only)*
(Special Hoppers and Housings Made to Order)



Model 1112 *(frame only)*



Model 712 *(frame only)*

(Standard Hoppers and Housings Shown on Above Models)

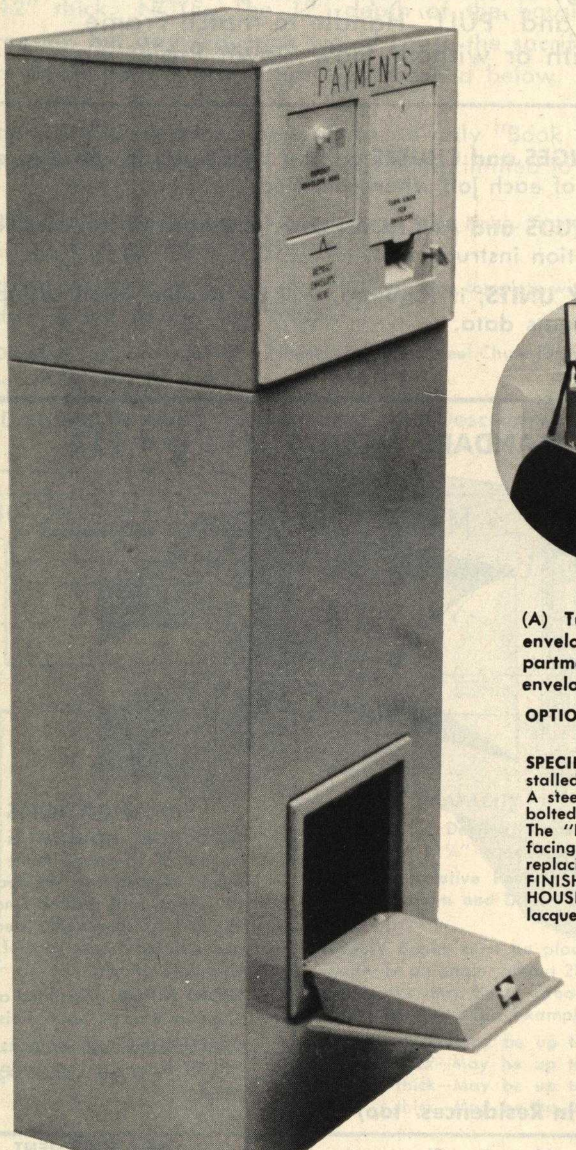
PAYMENT COUNTER

COMPLETE SELF-SERVICE UNIT

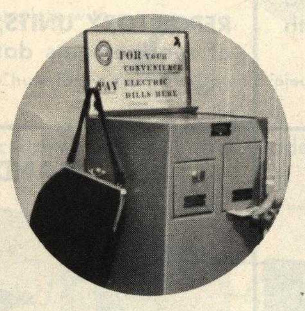
A customer convenience located in retail stores, banks, etc., to receive payments of Utility bills, etc.

The "DROPOSITORY" Payment Counter is a completely self-contained unit including an envelope supply compartment, with a "one-at-a-time" dispenser—Convenient writing surface—Fool-proof deposit hopper—Repository (safe)—and as optional equipment, a Sign Holder and Hook to hold a shopping bag or purse.

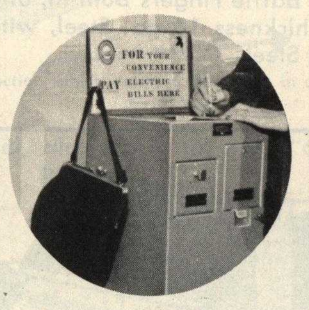
- **Costs to Utility Company reduced — NO fee to agent**
- **Customer serves himself — no waiting**
- **Records deposit — Customer writes data on envelope**
- **Responsibility "pinpointed" — deposits handled ONLY by customer and authorized company collector**
- **Increases traffic in agent's store**
- **Agent's time not required in making collection**
- **Saves floor space — Approximately 1 square foot required**
- **Portable — Floor-Anchor permits fast re-location as required**



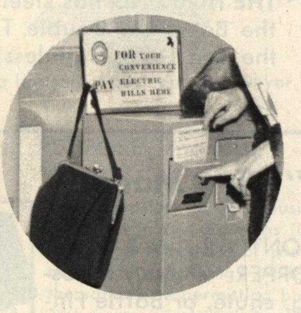
EASY TO USE



(A) Turn knob — withdraw envelope — (supply compartments hold 200 empty envelopes).



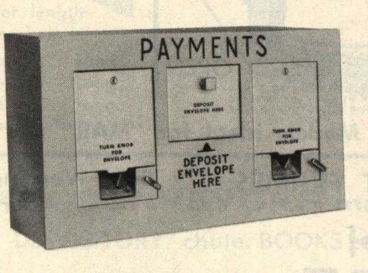
(B) Write required data on envelope — insert payment seal.

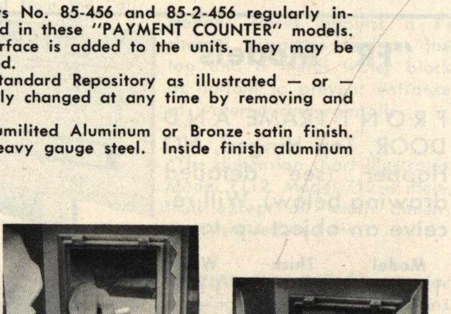


(C) Deposit envelope.

OPTIONAL EQUIPMENT — Sign Holder with purse hook as shown in the above photos.

SPECIFICATIONS — Standard "DROPOSITORY" units No. 85-456 and 85-2-456 regularly installed in walls and plate glass windows are utilized in these "PAYMENT COUNTER" models. A steel housing to provide uninterrupted exterior surface is added to the units. They may be bolted on a Repository of the size and type required.
The "DROPOSITORY" unit may be bolted on the standard Repository as illustrated — or — facing in the opposite direction — This may be easily changed at any time by removing and replacing four bolts.
FINISHES: The fronts are normally furnished in Alumilited Aluminum or Bronze satin finish.
HOUSING: Exterior finish, neutral gray lacquer. Heavy gauge steel. Inside finish aluminum lacquer.





P.C. 85-456
Description—42" high, 15" wide, 10" deep

P.C. 85-2-456
Description—42" high, 21" wide, 10" deep

Floor-Anchor Description — The "Payment Counter" may be permanently attached to the floor with lag screws — or — may be removably attached by use of the "Dropository" Floor-Anchor attachment (see illustration). This device permits a very solid anchorage of the "Payment Counter" but can be removed within 30 seconds after unlocking and opening the Repository door.

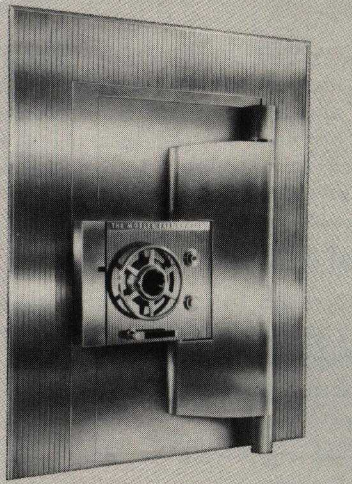
Each "PAYMENT COUNTER" model is a two part unit; a "Dropository" and Repository. The "Dropository" is priced separately and may be purchased without a Repository. See Equipment Price List. Two standard size Repositories are regularly furnished, however, special sizes or shapes are available at small additional cost.

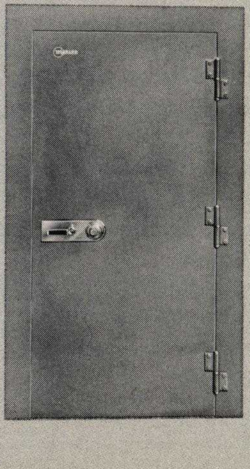
Mosler

SAFES AND VAULTS

Since 1848

23b
Mos





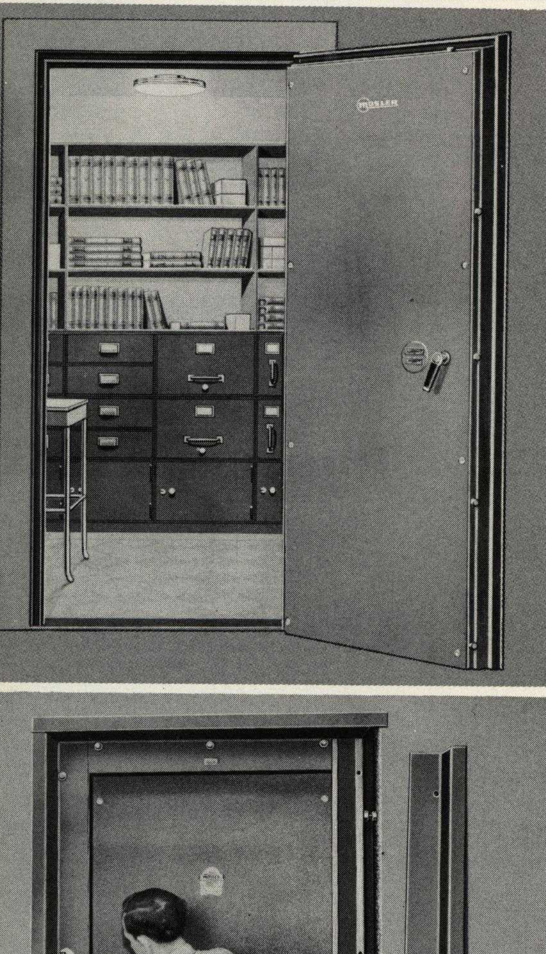
The
Mosler
Safe
Company

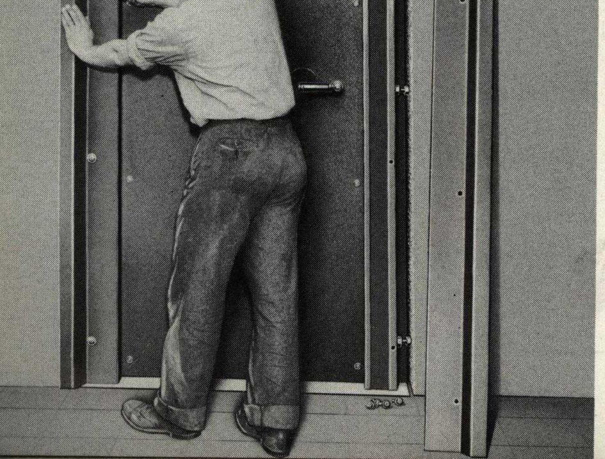
WORLD'S LARGEST BUILDERS OF SAFES AND BANK VAULTS

MOSLER INSULATED FILE

Mosler Insulated Files bring an entirely new dimension to record keeping – real fire-stopping protection for valuable papers. There's a world of difference between these and ordinary files. In the latter, heat alone can turn valuable papers to ashes. By contrast, Mosler's unique inner-wall insulation keeps papers safe even when temperatures reach 1700°F!

Handsomely styled by Henry Dreyfuss, Mosler Insulated Files come in 2, 3 and 4-drawer models. Quality features . . . roller-drawer suspension, push-button drawer latches, and interchangeable key or combination locks. These, plus their ability to protect against loss by fire, make Mosler Insulated Files a low-cost investment that pays high dividends in office efficiency and record security.





MOSLER FIRE-RESISTIVE VAULT DOORS AND FILE STORAGE ROOM DOORS

Now available in decorator compatible colors. Mosler standard mist green, standard tan and standard gray without additional cost.

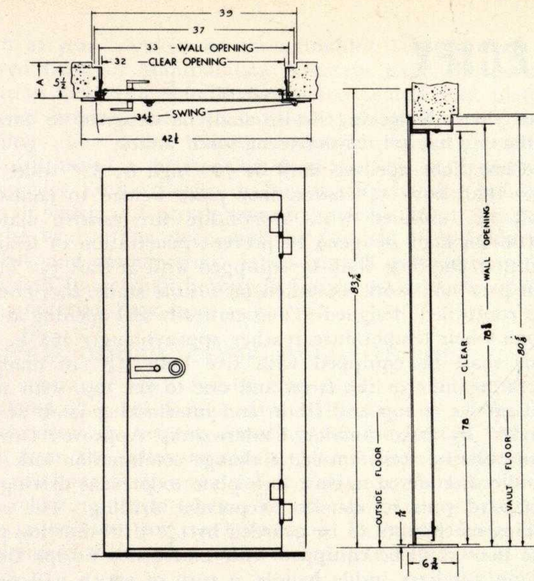
INSURANCE SAVINGS

Mosler flat sill vault doors and file storage room doors come under the "B" classification of equipment for Mercantile Burglary Insurance.

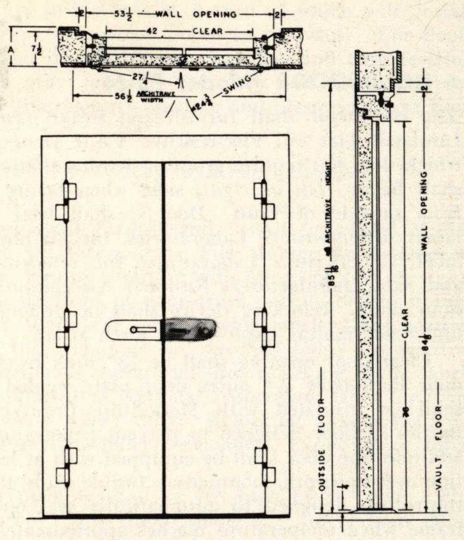
A further discount of 10% is earned by the Underwriters' Laboratories, Inc. relocking device for its resistance to attack with mechanical tools, and oxyacetylene torch when used in an attempt to punch or burn out the lock. Under the Broad Form of insurance for Money and Securities these doors qualify for the "Fireproof" rating.

ADVANTAGES

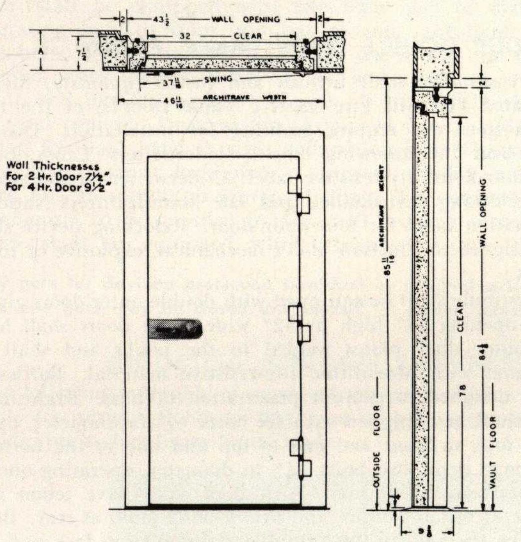
1. Doors are clamped into openings from inside the vault (see diagrams). Concrete grouting is eliminated. Doors can be grouted if desired.
2. Time required for installation is greatly reduced.
3. Installation costs are greatly reduced.
4. Available to open either to right (R), or left (L) as specified.
5. Possibility of soiling finish, from splashing grout or subsequent plastering, is eliminated.
6. Door alignment can be adjusted at any time as it is not grouted in permanently. This adjustment is often necessary due to settling of vault walls or building.
7. Doors can be easily removed at any time by releasing flanged clamp plates from inside.
8. Doors can be installed in finished walls without the necessity of refinishing walls around doors.
9. Back flanges to fit up to 12″ wall thickness available on request for 2, 4 and 6 hour doors.
10. Combination lock may be provided with key locking knob for dual control and additional security on all vault doors.


39
37
33 WALL OPENING
32 CLEAR OPENING
A
5½
SWING
34¼
42¼
83⅝
WALL OPENING
CLEAR
78⅛
80⅝
81⅝
OUTSIDE FLOOR
VAULT FLOOR
78
6¼

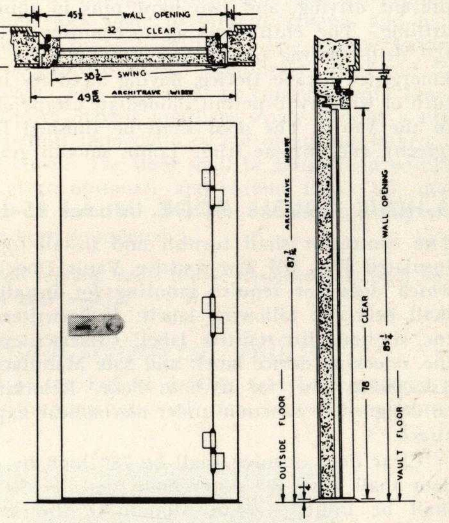
No. FS-32 and No. FS-1 File Storage Room Doors


2
53½ WALL OPENING
42 CLEAR
A
7½
27
56⅛ ARCHITRAVE WIDTH
SWING
85½ ARCHITRAVE HEIGHT
WALL OPENING
CLEAR
84¼
78
OUTSIDE FLOOR
VAULT FLOOR

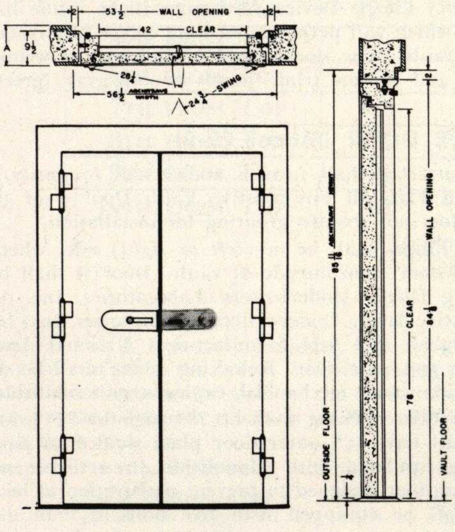
No. FS-2D Vault Doors


2
43½ WALL OPENING
32 CLEAR
A
7½
SWING
37½
46⅛ ARCHITRAVE WIDTH
Wall Thicknesses
For 2 Hr. Door 7½"
For 4 Hr. Door 9½"
ARCHITRAVE HEIGHT
85 11/16
WALL OPENING
CLEAR
84¼
78
OUTSIDE FLOOR
VAULT FLOOR

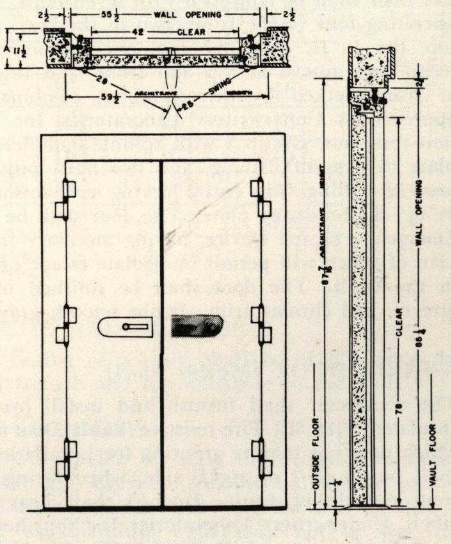
No. FS-2R and No. FS-4R Vault Doors


2
45½ WALL OPENING
32 CLEAR
A
11½
SWING
30⅛
49⅝ ARCHITRAVE WIDTH
ARCHITRAVE HEIGHT
87⅝
WALL OPENING
CLEAR
85½
78
OUTSIDE FLOOR
VAULT FLOOR

No. FS-6R Vault Door


2
53½ WALL OPENING
42 CLEAR
A
9½
28
SWING
56⅛ ARCHITRAVE WIDTH
24¾
85 11/16 ARCHITRAVE HEIGHT
WALL OPENING
CLEAR
84¼
78
OUTSIDE FLOOR
VAULT FLOOR

No. FS-4D Vault Doors


2½
55½ WALL OPENING
42 CLEAR
A
11½
59½
28
SWING
ARCHITRAVE HEIGHT
87⅝
WALL OPENING
CLEAR
85½
78
OUTSIDE FLOOR
VAULT FLOOR

No. FS-6D Vault Doors

HOW TO SPECIFY

6-HOUR DOOR (Model FS-6)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door(s) of the type which does not require grouting for installation. The hinges shall be on *(left or right)* side, when facing front of door from outside of vault. Door(s) shall bear the following labels: Underwriters' Laboratories, Inc. six-hour fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for six-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Clear door opening shall be 78″ high by 32″ wide. The door shall have $\frac{3}{16}$″ outer door plate welded to jambs and shall be insulated with Monolithic fire-resistive material. Baffles in door designed to prevent penetration of heat. In addition, the door shall be equipped with at least $\frac{1}{2}$″ insulation over boltwork, mounted on fusible studs, thermostatically controlled, designed to automatically seal opening at door frame when temperature reaches approximately 165°F. The door shall be equipped with seven bolts, 1″ in diameter, operating four to the front, two to the rear, and one to the top, with tenon and groove at top and front, and interlocking jamb at rear, checked by three-tumbler, Underwriters' Approved Group I Manipulation Resistant hand change combination lock, with spindle shouldered against lock plate to prevent driving, and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by $\frac{1}{4}$″ drill-resisting plate. The door shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The door shall be finished in wrinkle gray (green), and chrome trim. Jambs smooth gray (green).

6-HOUR DOUBLE DOOR (Model FS-6D)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door(s) of the type which does not require grouting for installation. Door(s) shall bear the following labels: Underwriters' Laboratories, Inc. six-hour fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for six-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Clear door opening shall be 78″ high by 42″ wide. The door shall have $\frac{3}{16}$″ outer door plate welded to jambs and shall be insulated with Monolithic fire-resistive material. Baffles in door designed to prevent penetration of heat. In addition, the door shall be equipped with at least $\frac{1}{2}$″ insulation over boltwork, mounted on fusible studs, thermostatically controlled, designed to automatically seal opening at door frame when temperature reaches approximately 165°F. The RH door shall be equipped with seven bolts, 1″ in diameter, operating four to the front, two to the rear, and one to the top, the L. H. door one top, one bottom, two back with tenon and groove at top and front, and interlocking jamb at rear, checked by three-tumbler, combination lock and approved by Underwriters' Laboratories, Inc., for manipulation resistance Group I with spindle-shouldered against lock plate to prevent driving, and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by $\frac{1}{4}$″ drill-resisting plate. The door shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The door shall be finished in wrinkle gray (green), and chrome trim. Jambs smooth gray (green).

4-HOUR DOOR (Model FS-4)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door(s) of the type which does not require grouting for installation. The hinges shall be on *(left or right)* side, when facing front of door from outside of vault. Door(s) shall bear the following labels: Underwriters' Laboratories, Inc. four-hour fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for four-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Clear door opening shall be 78″ high by 32″ wide. The door shall have $\frac{1}{8}$″ outer door plate welded to jambs and shall be insulated with Monolithic fire-resistive material. Baffles in door designed to prevent penetration of heat. In addition, the door shall be equipped with at least $\frac{1}{2}$″ insulation over bolt work, mounted on fusible studs, thermostatically controlled, designed to automatically seal opening at door frame when temperature reaches approximately 165°F. The door shall be equipped with five bolts, $\frac{3}{4}$″ in diameter, operating four to the front and one to the top, with tenon and groove at top and front, and interlocking jamb at rear, checked by three-tumbler, Underwriters' Approved Group I Manipulation Resistant hand change combination lock, with spindle shouldered against lock plate to prevent driving and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by $\frac{1}{4}$″ drill-resisting plate. The door shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The door shall be finished in wrinkle gray (green); and chrome trim. Jambs smooth gray (green). The door and frame shall be installed after the masonry opening and plastering have been completed.

4-HOUR DOUBLE DOOR (Model FS-4D)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door(s) of the type which does not require grouting for installation. Door(s) shall bear the following labels: Underwriters' Laboratories, Inc. four-hour fire-resistive label; Underwriters' Laboratories Inc. relocking device label; and Safe Manufacturers National Association label for four-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Vestibule shall be equipped with double outer doors giving clear opening 78″ high by 42″ wide. The doors shall have $\frac{1}{8}$″ outer door plates welded to the jambs and shall be insulated with Monolithic fire-resistive material. Baffles in doors designed to prevent penetration of heat. Right-hand door shall be equipped with six bolts, $\frac{3}{4}$″ in diameter, operating four to front and one to top and one to the bottom. Left-hand door, two bolts, $\frac{3}{4}$″ in diameter, operating one to top and one to bottom. Each door shall have tenon and groove at top and front, and interlocking jamb at rear. Bolts shall be checked by three-tumbler, combination lock and approved by Underwriters' Laboratories, Inc., for manipulation resistance Group I with spindle shouldered against lock plate to prevent driving, and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by $\frac{1}{4}$″ drill-resisting plate. The doors shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The doors shall be finished in wrinkle gray (green), and chrome trim. Jambs smooth gray (green).

2-HOUR DOOR (Model FS-2)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door(s) of the type which does not require grouting for installation.

The hinges shall be on *(left or right)* side, when facing front of door from outside of vault. Door(s) shall bear the following labels: Underwriters' Laboratories, Inc. two-hour fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for two-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Clear door opening shall be 78″ high by 32″ wide. The door shall have $\frac{1}{8}$″ outer door plate welded to jambs and shall be insulated with Monolithic fire-resistive material. Baffles in door designed to prevent penetration of heat. The door shall be equipped with five bolts, $\frac{3}{4}$″ in diameter, operating four to the front and one to the top, with interlocking tenon and groove at top and front, and interlocking jamb at rear, checked by three-tumbler, Underwriters' Approved Group I Manipulation Resistant hand change combination lock with spindle shouldered against lock plate to prevent driving, and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by ¼″ drill-resisting plate. The door shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The door shall be finished in wrinkle gray (green), and chrome trim. Jambs smooth gray (green). The door and frame shall be installed after the masonry opening and plastering have been completed.

2-HOUR DOUBLE DOOR (Model FS-2D)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive Vault Door (s) of the type which does not require grouting for installation. Door (s) shall bear the following labels: Underwriters' Laboratories, Inc. two-hour fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for two-hour door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Vestibule shall be equipped with double outer doors giving clear opening 78″ high by 42″ wide. The doors shall have ⅛″ outer door plates welded to the jambs and shall be insulated with Monolithic fire-resistive material. Baffles in doors designed to prevent penetration of heat. Right-hand door shall be equipped with five bolts, ¾″ in diameter, operating four to front and one to top. Left-hand door, two bolts, ¾″ in diameter, operating one to top and one to bottom. Each door shall have tenon and groove at top and front, and interlocking jamb at rear. Bolts shall be checked by three-tumbler, Underwriters' Approved Group I Manipulation Resistant hand change combination lock, with spindle shouldered against lock plate to prevent driving, and two hard pins in spindle to prevent drilling. The entire locking mechanism to be guarded by ¼″ drill resisting plate. The doors shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the vault. The doors shall be finished in wrinkle gray (green), and chrome trim. Jambs smooth gray (green). The door and frame shall be installed after the masonry opening and plastering have been completed.

1-HOUR AND ½-HOUR DOORS (Models FS-1 and 32)

The contractor shall furnish and install *(quantity)* Mosler Insulated Flat Sill Fire-resistive File Storage Room Door (s) which does not require grouting with hinges on *(left or right)* side, when facing front of door from outside of file storage room. Door (s) shall bear the following labels; Underwriters' Laboratories, Inc. *(one-hour or one-half hour)* fire-resistive label; Underwriters' Laboratories, Inc. relocking device label; and Safe Manufacturers National Association label for *(one-hour or one-half hour)* door. Relocking device shall be designed to function under mechanical, explosive or torch attack.

Clear door opening shall be 78″ high by 32″ wide. The door shall be $2\frac{11}{16}$″ (for 1-hour door) 2″ (for ½-hour door) thick, exclusive of handle and hinge projections, and have ⅛″ outer door plate to which ⅛″ Z angle sections shall be electrically welded to form bolt frames. The door shall be equipped with six bolts ¾″ in diameter, namely three live bolts at front and three interlocking bolts at rear, checked by three-tumbler, Underwriters' Approved Group I Manipulation Resistant hand change combination lock, with spindle shouldered against lock plate to prevent driving, and hard pin in spindle to prevent drilling. The entire locking mechanism to be guarded by ⅜″ open-hearth steel and ¼″ drill-resisting plate. The door shall be equipped with Emergency Escape Device, having auxiliary inside handle, a turn of which will permit immediate escape of anyone locked in the file storage room. The door shall be finished in wrinkle gray (wrinkle green optional), and chrome trim. The door and frame shall be installed after the masonry opening and plastering have been completed.

Day gate for daytime protection furnished at nominal extra cost. As an added protection feature, doors are so designed that both door and day gate may be closed and locked. It is not necessary to leave day gate open over night.

SUGGESTED MINIMUM THICKNESS OF WALLS FOR GROUND-SUPPORTED VAULTS

The following is a table of suggested minimum thicknesses of walls for various floors to take care of ordinary structural conditions and ordinary vault loads.

(The first line of the following table may be considered as the minimum thickness of walls for structural-supported vaults.)

KIND OF MATERIAL CLASS OF WALL FLOOR-COUNTING	THICKNESS OF WALL, IN.						
	REINFORCED CONCRETE			BRICK			HOLLOW CONCRETE MASONRY
FROM TOP DOWN	6 HR.	4 HR.	2 HR.	6 HR.	4 HR.	2 HR.	2 HR.
TOP	10	8	6	12	12	8	8
2ND FROM TOP	10	8	8	12	12	12	12
3RD FROM TOP	10	10	10	12	12	12	12
4TH FROM TOP	12*	10	10	16†	16†	16†	16†
5TH FROM TOP	12	12	12	16	16	16	16
6TH FROM TOP	12	12	12	16	16	16	16
7TH FROM TOP	12‡	12‡	12‡	16‡	16‡	16‡	16‡
8TH FROM TOP	12‡	12‡	12‡	16‡	16‡	16‡	16‡
9TH FROM TOP	12‡	12‡	12‡	16‡	16‡	16‡	16‡
10TH FROM TOP	14‡	12‡	12‡	16‡	16‡	16‡	16‡

**Thickness in panel constrution may be 2 in. less.*
‡Thickness in panel constrution may be 4 in. less.
†These thicknesses apply to panel construction.

VAULTS

Example: For a four-story building, use thicknesses in first four lines of table, the fourth line designating the minimum thickness suggested for walls of the ground floor vault, the first line the minimum thickness for the walls of the top or fourth floor vault, etc.

Example: For an eight-story building, use thicknesses shown in first eight lines of table, the eighth line designating the minimum thickness suggested for walls of the ground floor vault, the first line the minimum thickness of walls (panel construction) for the top or eighth floor vault, etc.

VAULT FLOORS AND CEILINGS

Floor and ceiling of a vault shall be of a construction equivalent in strength and fire-resistance to the walls.

FILE STORAGE ROOMS

Thickness: To provide not only the necessary minimum resistance to fire and fire hose streams, but also to provide for structural considerations and variations in quality of materials and workmanship, walls shall not be less than 6 in. in thickness if of reinforced concrete, nor less than 8 in. if of brick or hollow concrete units.

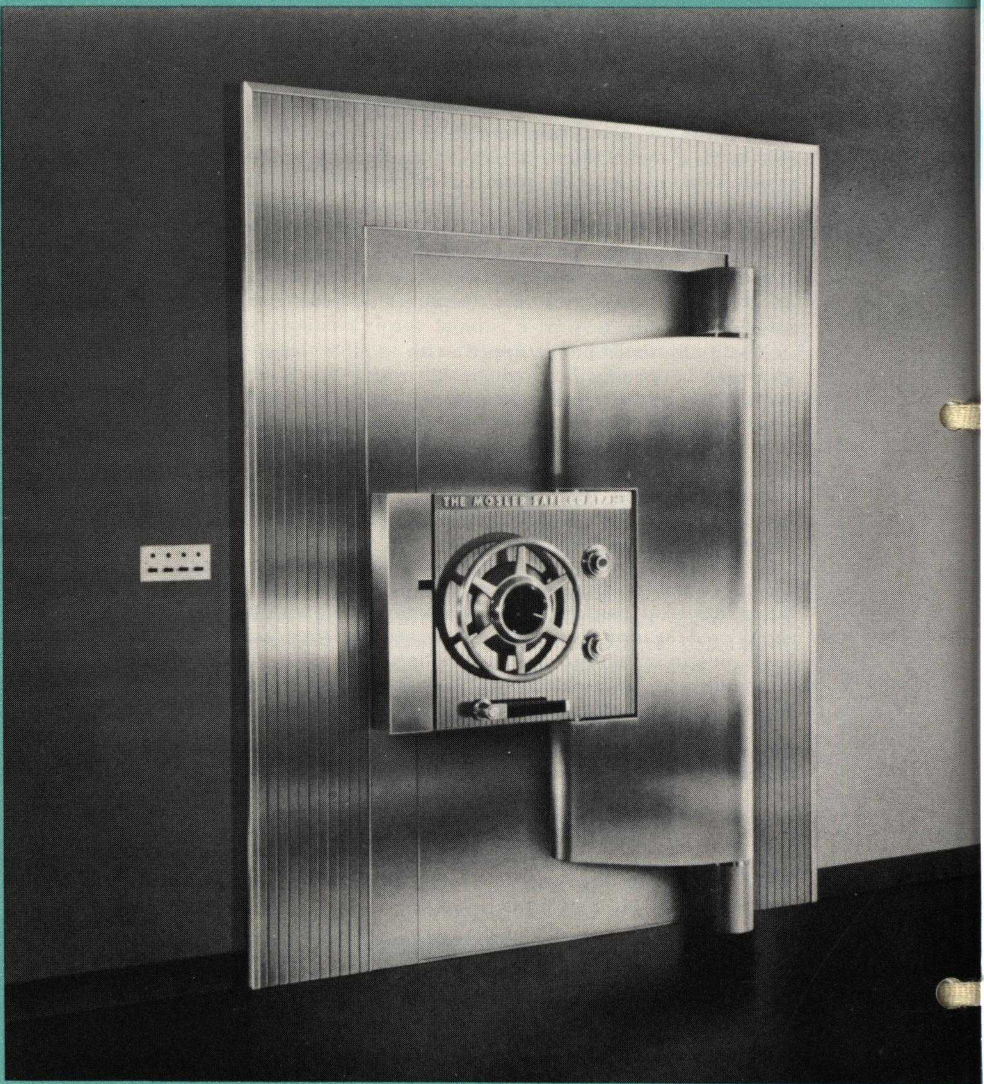
Mosler CENTURY BANK EQUIPMENT

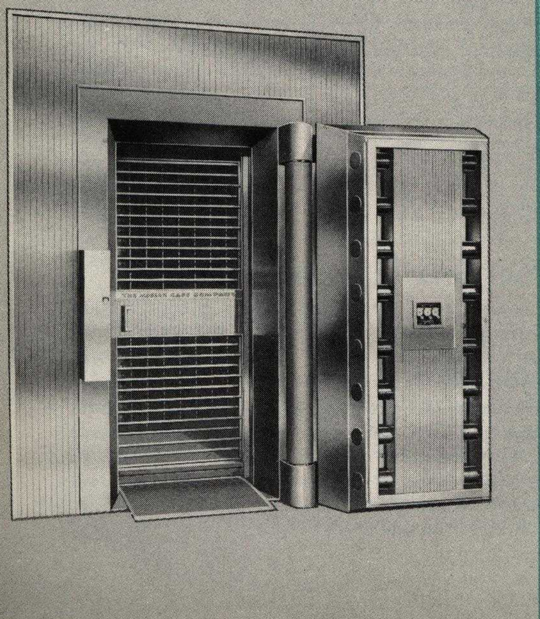
The Mosler Century Series offers the perfect blend of traditional dignity and impregnability with the beauty of modern functional design. The wide range of architrave designs enables you to incorporate the vault into your overall architectural plan.

Century Vault Doors are available in 3½″, 7″, 10″, 12 ″and 16″ models. Circular doors are included in the Century Series.

Standard vault doors are produced in 1½″, 3½″, 7″, 10″, 12″ and 16″ thickness. Special size doors are available.

The open view (below) reveals the heavy bolts and intricate jeweled movements of the timelocks – features that fascinate most bank customers and give an added feeling of strength and security. The modern horizontal day-gate harmonizes with the vault door design and eliminates the old-style "jailhouse" or "cage" appearance.



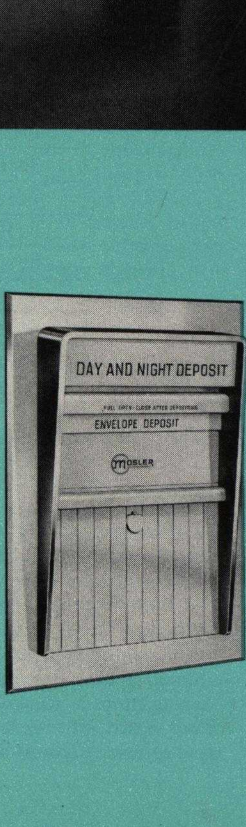


DUAL DEPOSITORY

Provides "round the clock" banking facilities for all customers. Protected slot for envelope deposits. Key-locked hopper permits bag deposits by commercial customers.

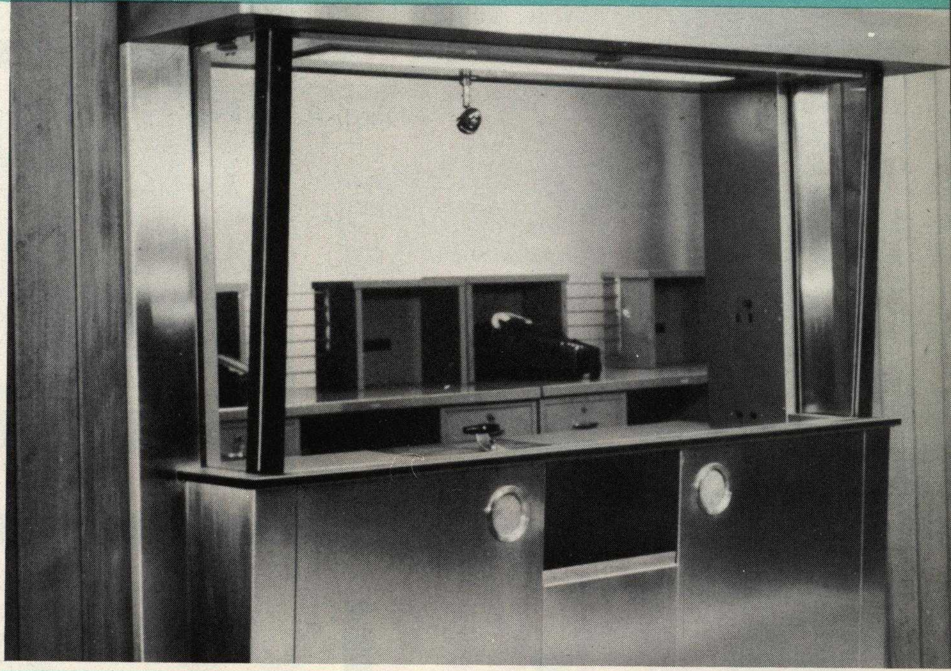
DELUXE TYPE

Available at slightly higher cost: Translucent letters are illuminated, in addition bag deposits trip switch causing light to flicker, indicating to depositor that bag has entered safe.



Mosler

DRIVE-IN WINDOWS



A completely new style in drive-in windows. This dramatically new picture window was designed after exhaustive studies of existing installations and hundreds of interviews with bank tellers and customers.

Only Mosler Drive-In Windows offer all these features:

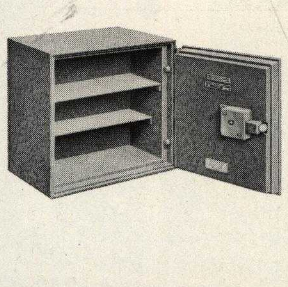
1. Easy installation . . . just slide in the entire window and seal. Bolts adjust the window's depth from 8 to 14 inches to match wall thickness.
2. The new picture window's heavy gauge, stainless steel skirt extends to the ground, provides ample leg room, maximum security.
3. The new Mosler picture window handles vehicles of any size — from sports cars to trucks — comfortably.
4. Modular under counter equipment gives flexible storage below counter, plus ample work space and room for teller's machines.
5. New high fidelity intercom eliminates squeaks, echoes and squawks.
6. Redesigned electrically operated deposit drawer stops anywhere up to 14 inches. A pushbutton extends it further when required.

Mosler | WALL SAFES

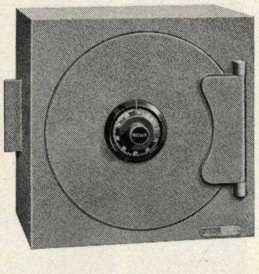
Ideal for installation in homes under construction. Also advantageous for multiple residences for convenient protection of valuables and papers against fire and sneak thievery.

Inside: 12 in. high, 12 in. wide, 5 in. deep, except for lock projection.

Outside 13¾ in. high, 13¾ in. wide, 7 in. deep, body. Highest quality combination lock with relocking device for protection against mechanical or explosive attack.



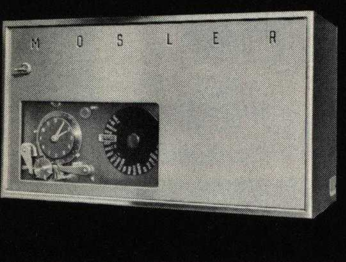
NO. 125-S



NO. 8

Inside: 11″ high, 11″ wide, 4⅜″ deep, clear. Outside 12″ high, 12″ wide, 7″ deep, body. Overall depth 8¼″, clear door opening 9½″.

Mosler | BANK ALARMS



Central panel, located inside vault, controls the system. No need to turn the alarm on each night . . . with the Mosler Century Alarm you see it and forget it. If the alarm is activated the Control-Point Panel indicates the area that signalled the alarm.

Completely restyled outside bell housing. Blends with all styles of architecture. Stainless steel construction is weatherproof, maintenance free.

CONTROL-POINT PANEL

The Mosler Century Alarm is designed to give all-in-one protection to bank premises. The only alarm of its type to give full protection to the building, vault, night depository and any other key area.

The unique design of the system provides tremendous flexibility. When alarm requirements increase you can easily provide the additional coverage. The system can be installed in new construction or existing buildings.

For more detailed information contact your nearest Mosler office.

The **Mosler Safe** *Company*

WORLD'S LARGEST BUILDERS OF SAFES AND BANK VAULTS

320 Fifth Ave., New York 1, N. Y. — Factories: Hamilton, Ohio

BALTIMORE: 510-512 ST. PAUL PL. • BOSTON: 375 BOYLSTON ST. • BUFFALO: 224 DELAWARE AVE. • CHICAGO: 228 NORTH LASALLE ST.
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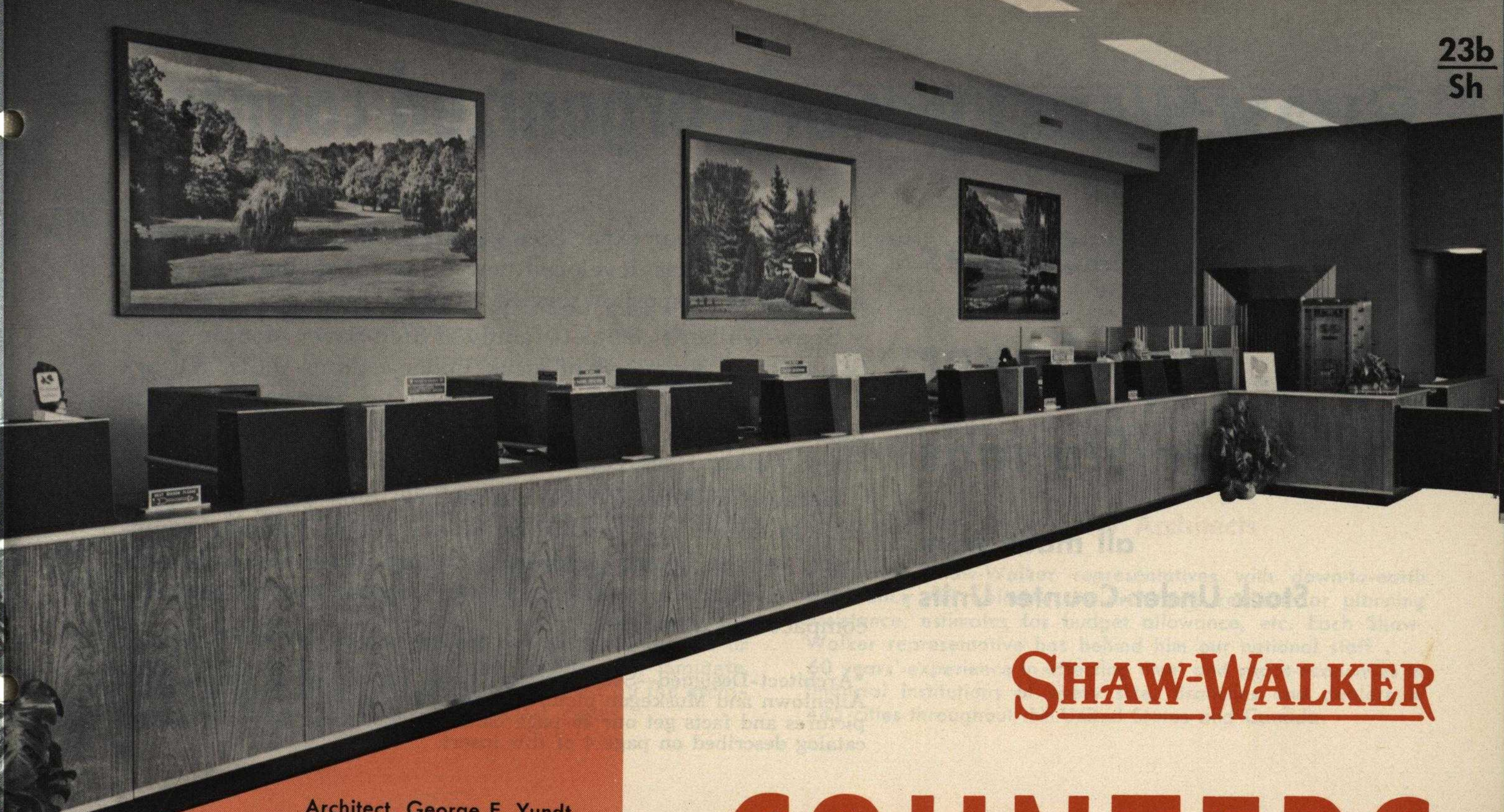
ATLANTA • CINCINNATI • COVINGTON, KY. • DALLAS • DANBURY, CONN. • DENVER • DETROIT • HOUSTON • KANSAS CITY, MO.
LOS ANGELES • MINNEAPOLIS • NEW HAVEN, CONN. • NEW ORLEANS • PORTLAND, ORE. • ST. LOUIS • SAN FRANCISCO
and Principal Cities in the United States and Foreign Countries

23b
Sh



Architect, George E. Yundt
Allentown, Pennsylvania
Merchants National Bank

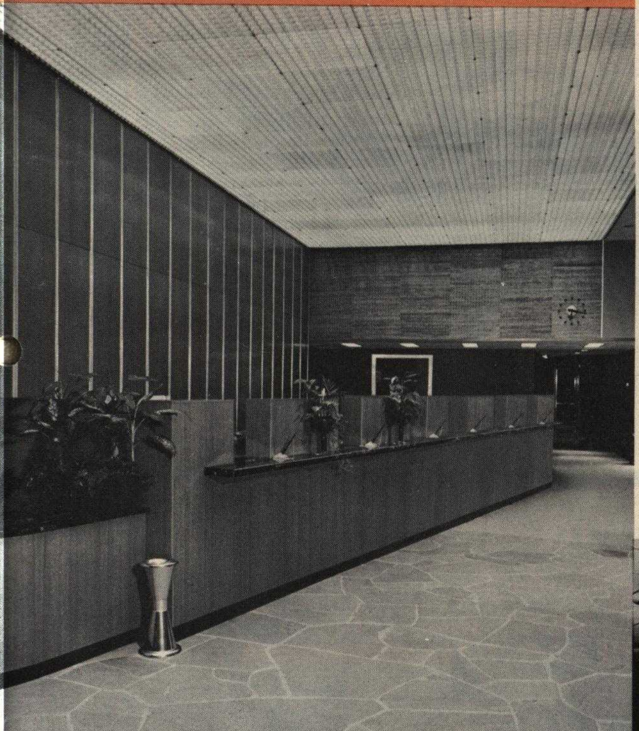
SHAW-WALKER

COUNTERS

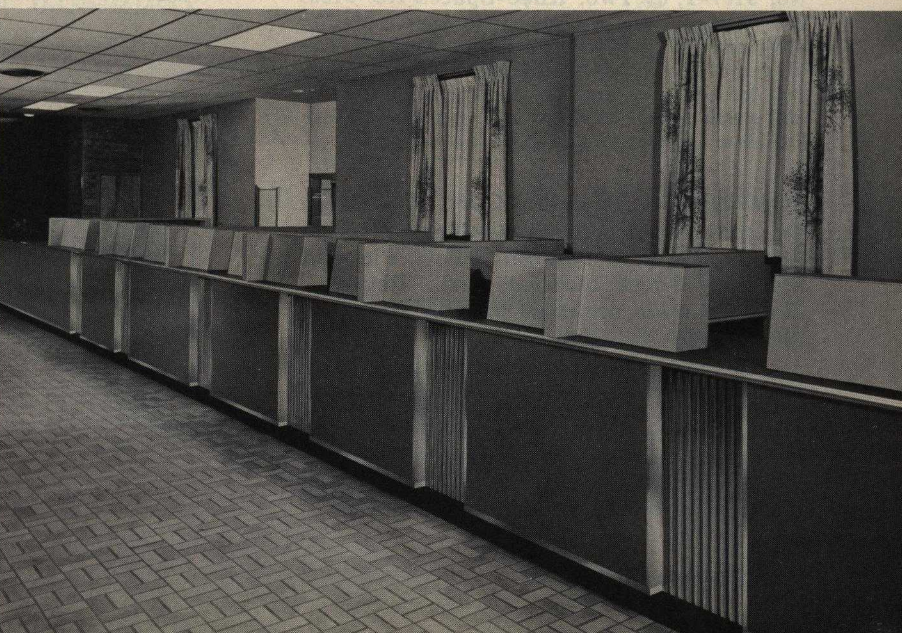
for BANKS

and Savings and Loan

★ New Buildings ★ Remodeling



Architect, Wilson, Morris, Crain & Anderson A.I.A.
Houston, Texas
Benjamin Franklin Savings and Loan



Architect, Erwin L. Broecker A.I.A.
Detroit, Michigan
Hackley Union National Bank

SHAW-WALKER work-organized counters

Space-Saver
Step-Saver
Teller Stations

all made from
Stock Under-Counter Units

Drawing on our experience gained during the past 60 years, Shaw-Walker has developed new means of saving floor space and speeding depositor service.

Shaw-Walker's complete family of Step-Saver Module Teller Stations are composed of stock under-counter units. All are adaptable for *architect-designed** counter tops and fronts in units of 60-inch modular arrangements. Also available with Shaw-Walker stock counter tops and fronts.

Because of Shaw-Walker know-how, plus years of experience in design and production of every type banking equipment, we can be most helpful in *transforming the architect's creative ideas* into counters and work spaces that are efficient, compact and attractive.

*Architect-Designed—See Houston, Texas picture on preceding page. Allentown and Muskegon pictures show stock fronts and tops. For other pictures and facts get our 36-page bank handbook and 244-page general catalog described on page 4 of this insert.

Typical Under-Counter Units for Savings Tellers and Commercial Tellers

The two typical counter sections illustrated are enclosed with architect-designed wood fronts, and finished tops of grained laminate with marble deal plates. The steel under-counter equipment is assembled from Shaw-Walker's stock units.

Across on the opposite page, at left, is line drawn illustration of the stock units. At the extreme right are plans and sections giving detailed dimensions.

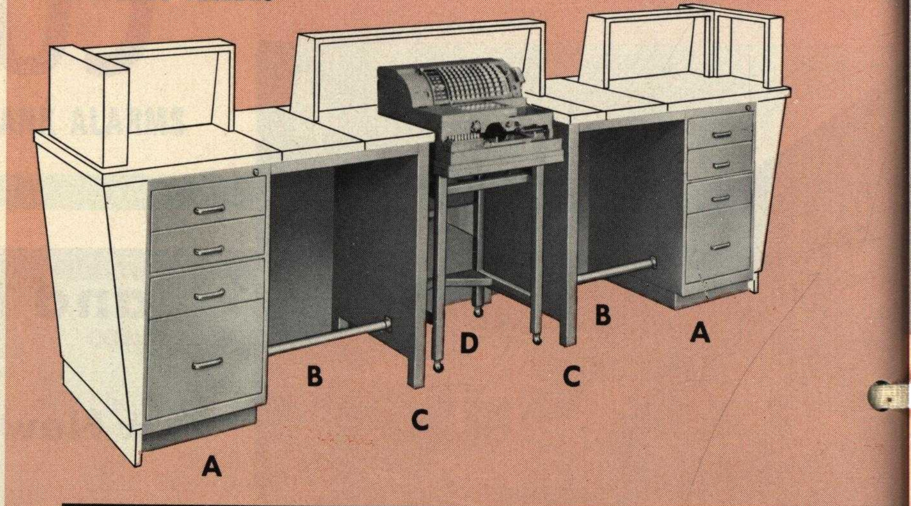
SAVINGS TELLERS COUNTER—This 10-foot Module is widely used for Savings Tellers. Two Tellers share savings machine. Machine is usually on a portable stand.

The stock steel units: Ⓐ Two, Teller Cabinets No. 9107-1; Ⓑ Two, Knee-Spaces No. 9130; Ⓒ Two, Leg Units No. 9133 with Foot Rails No. 9138; and Ⓓ One Machine Opening No. 9127. Top drawer of Teller Cabinets has three lift-out Trays, two for currency and one for checks and debit and credit slips. (Three of our nine stock Teller Cabinets are pictured on page 4.)

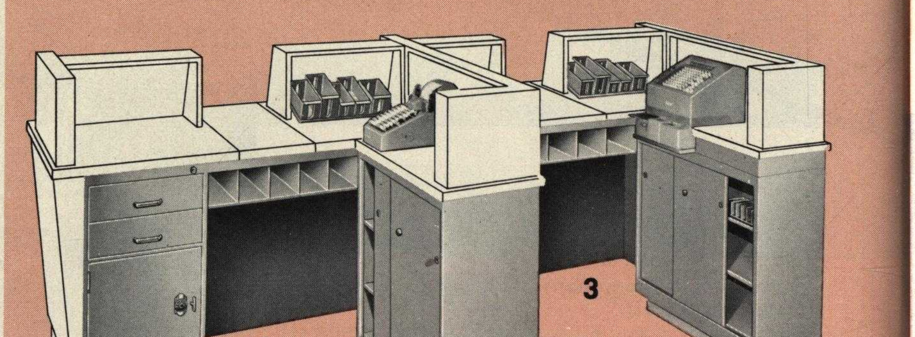
COMMERCIAL TELLERS COUNTER—Here's the most commonly used work-organized step-saver for Commercial Tellers. Pictured are two, 5-foot Modules with "Returns." These counters are often used in a straight line, without the "Return."

The stock steel units in first Module: Teller Cabinets, ① No. 9106 and ② No. 9108; ③ Knee-Space No. 9131 with Pigeon Hole Unit No. 219. Second Module is the same except Teller Cabinets are ④ No. 9107 with five box drawers and ⑤ No. 9109 Cupboard with No. 9110 Cutout Top for NCR Receipting Machine.

SAVINGS TELLERS



COMMERCIAL TELLERS



SPECIFICS FOR DESIGNING

Under-Counter Equipment is made in two depths—22⅛" and 27⅛". If the counter fronts and superstructures are standard units, furnished by Shaw-Walker, the 27⅛" units are used.

For counter fronts and superstructures designed by the architect and furnished by others, the 22⅛" depth units are required to allow clearance for counter construction.

Shaw-Walker steel under-counter equipment is standard in 5-foot Modules and can be varied to fit any requirement.

Being sectional, the equipment is easy to install, to expand or to rearrange. All stock units are interchangeable.

Under-Counter Teller Cabinets are made in nine stock models —See page 4 of this insert.

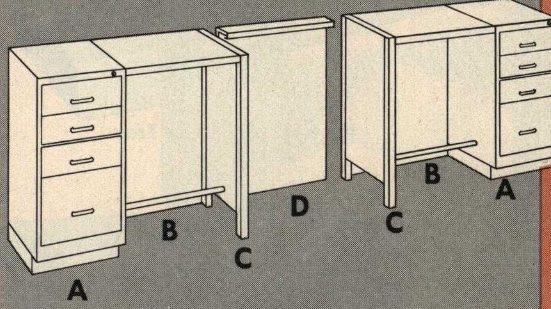
Counter Fronts and Superstructures can be wood, marble or metal. Surfaces of counter tops can be linoleum, laminate, marble or wood, etc., as specified and *designed by the architect.* All tops can be equipped with Deal Plates.

Superstructures can be the low-vision "friendly" style, or the "grille" style for greater hold-up protection. Either can be used with Shaw-Walker standard counter or custom-built architect-designed counter enclosures.

Fireproof Equipment for Savings Ledgers is "movable furniture" but often *specified by architect.* We make three models of fireproof savings desks. *Also* point-of-use insulated fireproof desks, ledger trays and files for every bank department —46 stock models, described in our 244-page catalog.

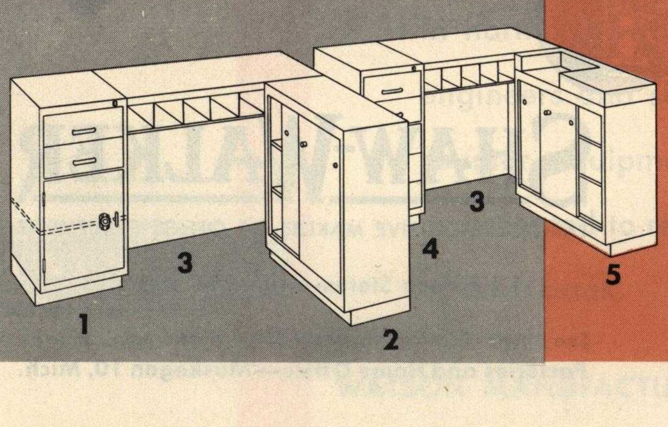
Consultation Service for Architects

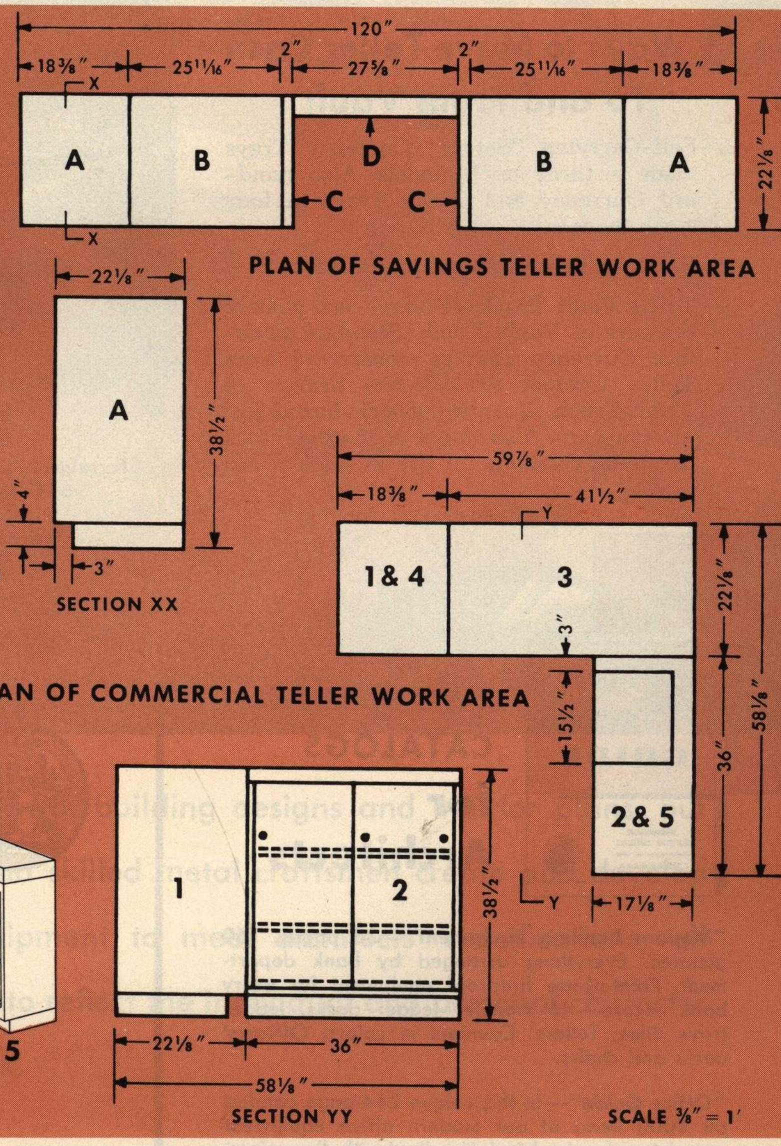
Competent Shaw-Walker representatives with down-to-earth experience will *welcome the architect's request* for planning assistance, estimates for budget allowance, etc. Each Shaw-Walker representative has behind him our national staff . . . 60 years' experience in effecting time- and space-economies in financial institutions of every size. Branches and dealers in 485 cities throughout the United States and Canada.



The above illustration shows the recommended and most used arrangement of Shaw-Walker units for Savings Tellers, as illustrated with architect-designed counter enclosure at the left.

The illustration below indicates the ideal arrangement for Commercial Tellers, as shown with architect-designed counter arrangement—photo illustration at the left.





PLAN OF SAVINGS TELLER WORK AREA

SECTION XX

PLAN OF COMMERCIAL TELLER WORK AREA

SECTION YY

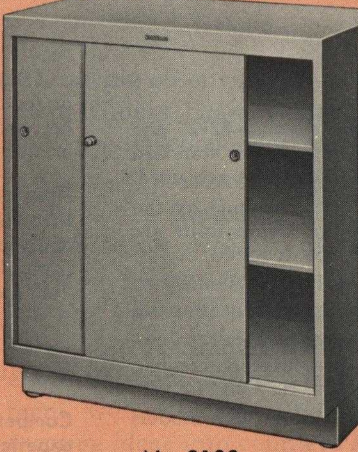
SCALE ⅜" = 1'

TELLER CABINETS

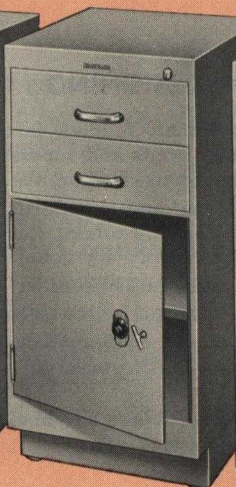
Nine Stock Models

Pictured are three Teller Cabinets in our 22⅛-inch depth. You see the other models in our architect's specifications folder. There's a Shaw-Walker stock cabinet for every need.

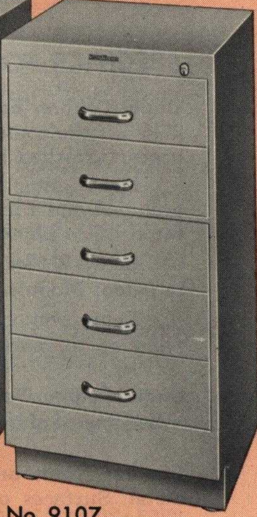
LEFT TO RIGHT—No. 9108; Storage Cupboard with lock-equipped sliding doors and two adjustable shelves. No. 9106; Two box drawers and a shelf-equipped money cupboard. Steel Plate Door is equipped with combination lock and 3-way bolt mechanism. Cupboard is of double-wall construction. No. 9107; Five box drawers. Teller Cabinets may be equipped with lock controlling all drawers or with individual drawer locks.



No. 9108



No. 9106



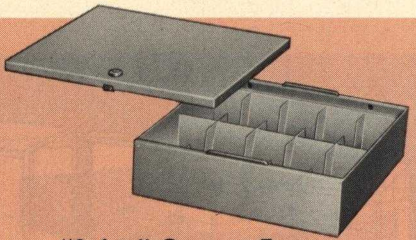
No. 9107

3 Ways to Move Teller Cash To and From Vault

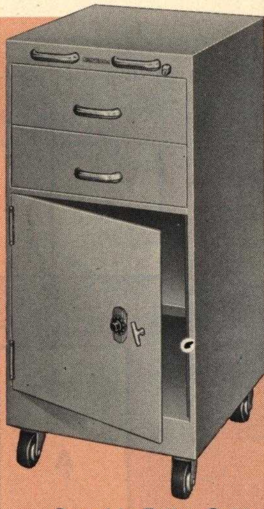
1—Self-Carrying "Safety" Currency Trays made in three stock models. Also standard Currency and Check Trays in four stock models.

2—Portable Teller Cabinet or Cash Bus

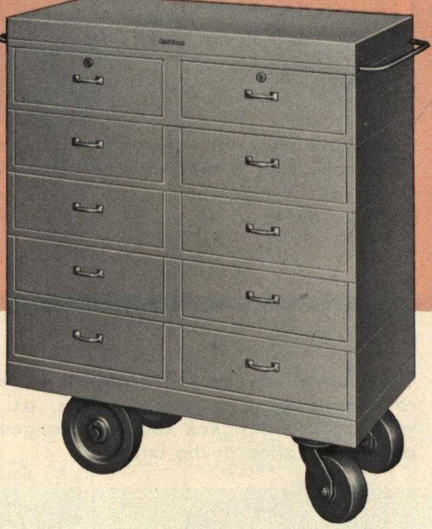
3—Teller Vault Truck—Tellers' cash goes in drawers of Vault Truck. Standard open-face Currency Tray is transferred from Teller Cabinet to lock-box drawer of Vault Truck. Quantity of lock-box drawers can vary. Also choice of 15 other stock Sectional Cabinets for use in same truck.



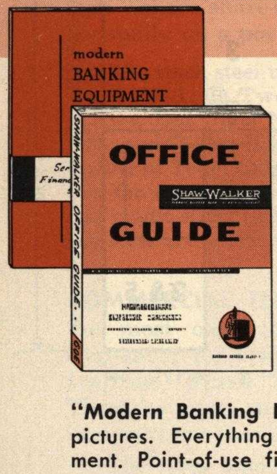
"Safety" Currency Tray



Portable Teller Cabinet or Cash Bus



Vault Truck custom-built from stock units



TWO HELPFUL CATALOGS for Architects

"Modern Banking Equipment"—36 pages, 160 pictures. Everything arranged by bank department. Point-of-use fireproof equipment for every bank record—46 models—ledger desks, ledger trays, files; Tellers' Counters in colors; Officers' desks and chairs.

"Office Guide"—In this unique 244-page catalog all 5000 items of our modern office equipment are pictured, priced and described *with dimensions.*

"Built Like a Skyscraper"

SHAW-WALKER

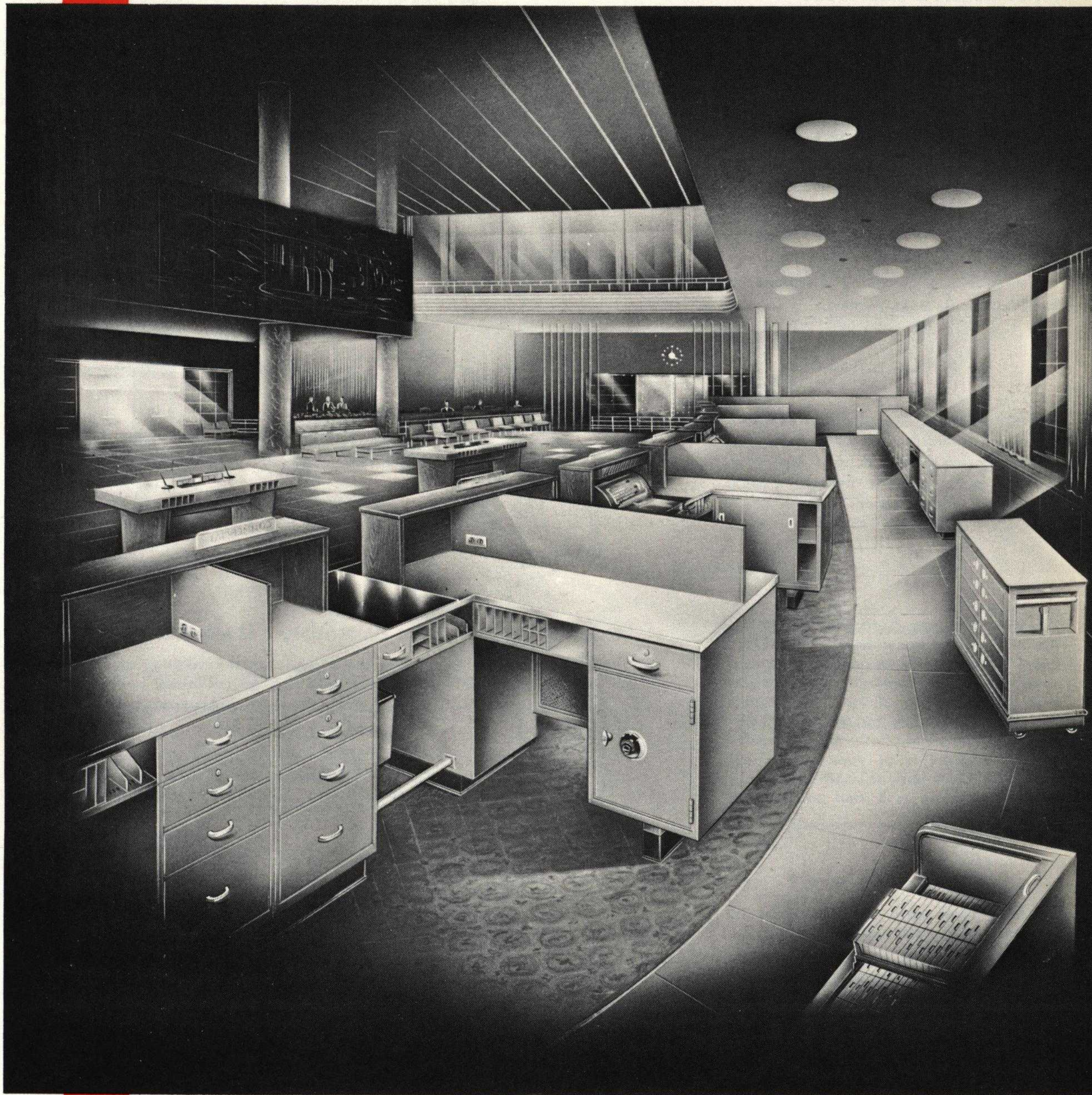
LARGEST EXCLUSIVE MAKERS OF OFFICE EQUIPMENT

17 Branch Stores—485 Dealer Stores

See phone directory for local Shaw-Walkerman, or write
Factories and Home Office—Muskegon 10, Mich.

Watson

the finest Metal Bank Counter Equipment



In harmony with building designs and interior plans, our engineers and skilled metal craftsmen create and develop counter equipment to meet architects' specifications, all coordinated to reflect the individual and personal character of each bank.

WATSON
JAMESTOWN, N.Y.
U.S.A.

A.I.A. 35-S

WATSON MANUFACTURING COMPANY, Inc., Jamestown, New York

Watson BANK COUNTER EQUIPMENT

These two pages illustrate basic Watson bank assemblies. We wish to point out that a chief Watson feature is flexibility. We can adapt to your specific requirements — you do not need to adapt to ours.

standard

Our line of Standard units encompasses all equipment that is needed to provide the proper facilities for efficient operation in the bank tellers row. The line includes drawer and cupboard pedestals (single and double), coin safe pedestals, apron units, partitions, bases, counter tops and fronts. A catalog describing this Standard line is available upon request.

semi-standard

Semi-standard is a functional median between standard and custom layouts, adapting special design and operation features in the overall theme to modern engineered tellers' sections.

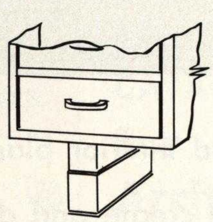
custom

This is our most proud offering. Watson has the engineering know how — the skilled metal craftsmen — to design, arrange, and produce a custom installation that will provide the ultimate in efficiency and distinction. This is the line for the "free rein" architect. Our staff, with their extensive bank experience is at your service; our metal craftsmen are able to produce to specification. You will find us easy to work with.

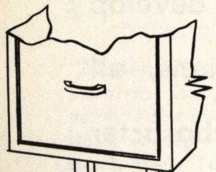
types of bases

We have three base styles in order to harmonize with your design:

- Full recessed toe space bases
- Island bases
- Contemporary leg bases



island
(off the floor)



contemporary

commercial teller assembly

A typical commercial teller's assembly made up of the following standard equipment:

Ⓐ Apron unit contains:
  - **A-1** cash drawer
  - **A-2** box drawer
  - **A-3** tilting 3 compartment drawer (clips, etc.)
  - **A-4** top recessed for deal plate
  - **A-5** recess for teller's machine

Ⓑ Pedestal with:
  - **B-1** bulk currency drawer
  - **B-2** cupboard

Ⓒ Side counter apron with:
  - **C-1** 8 compartment wrapper insert
  - **C-2** box drawer

Ⓓ Cupboard pedestal

Ⓔ Divider partition (with outlet cut-outs)

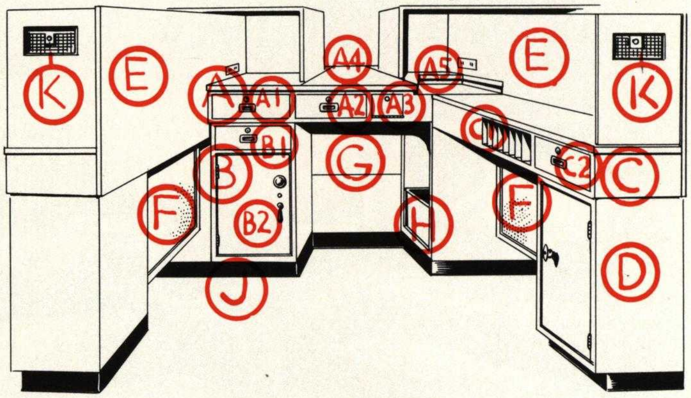
Ⓕ Cane panel

Ⓖ Back panel (top removable for access to wiring)

Ⓗ Removable waste basket (curved back panel)

Ⓙ Recessed toe space

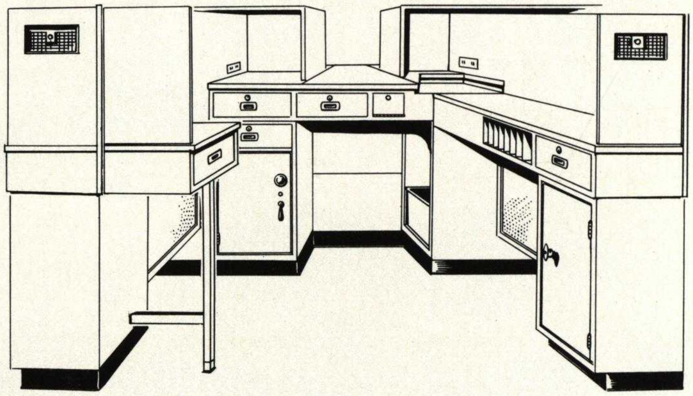
Ⓚ Tilting pass basket

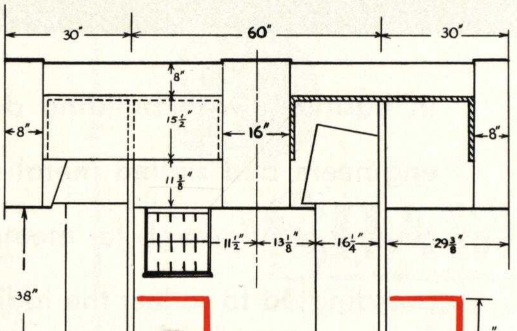


with machine recess

commercial teller assembly (two side counters)

This assembly is identical to the above with the addition of a side counter return on the left. An extended work counter area and an additional box drawer are provided.





Layout details of accompanying perspective drawings indicate approximate dimensions for overall layout purposes.

BASIC STANDARD TELLER UNITS SHOWN ON BACK PAGE

savings teller assembly

Two savings tellers are provided an efficient work station with this typical Watson assembly, broken down as follows:

Ⓐ Apron unit with:

A-1	cash drawer
A-2	box drawer
A-3	tilting 3 compartment drawer (clips, etc.)
A-4	top recessed for deal plate
A-5	recess for posting machine (half from each apron — see below)

Ⓑ Pedestal with:

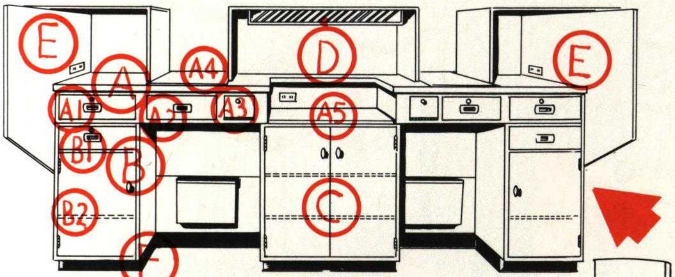
B-1	bulk currency or box drawer
B-2	cupboard or coin safe

Ⓒ Double door cupboard

Ⓓ 16 compartment ledger rack

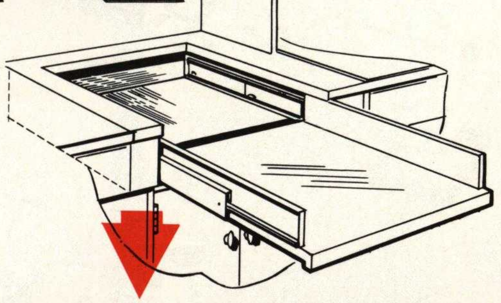
Ⓔ Optional divider wings

Ⓕ Recessed base



machine cut-out with pull-out platform

The cut-out for the posting machine is formed when a left and right apron meet. This can be a common recess or can contain a heavy-duty suspension pull-out platform for machine servicing.



savings and loan

In addition to the units in the assembly described above, this typical work center has:

Ⓖ Side counter apron with box drawer

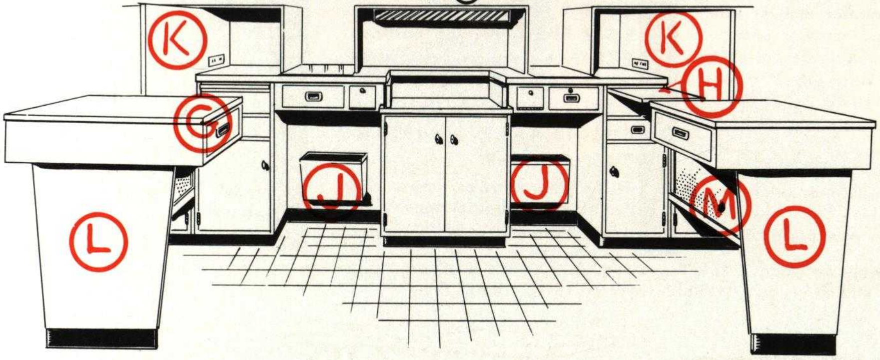
Ⓗ Sliding work shelf in front apron to meet the side counter and form a continuous work shelf

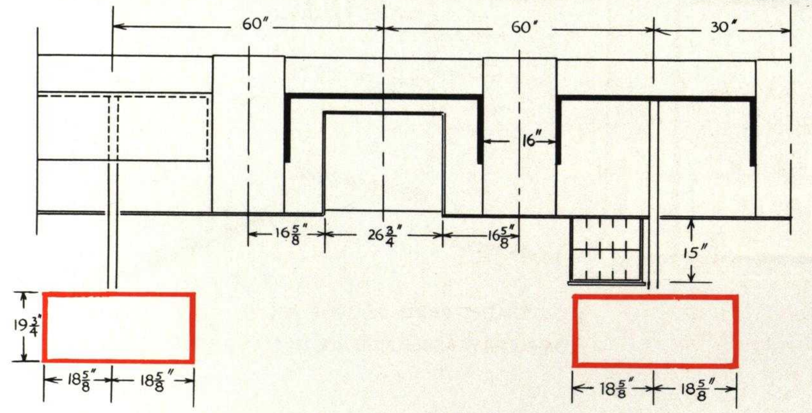
Ⓙ Removable waste basket

Ⓚ Divider partition

Ⓛ Tapered support

Ⓜ Cane panel

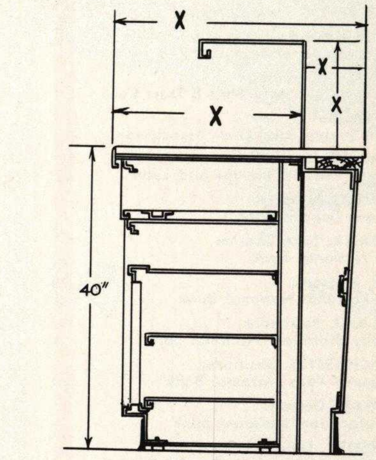




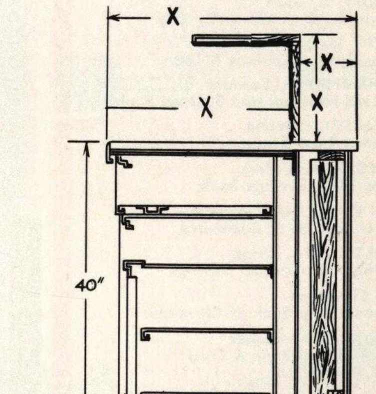
types of counterfronts

We can provide standard counter fronts or work to your specifications. Shown here are three examples of construction; "X" dimensions vary in side elevations to fit requirements.

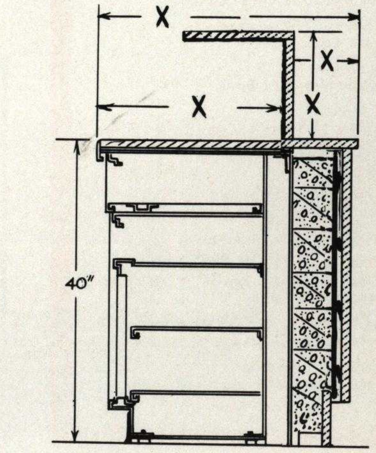
steel



wood



marble



Write for CATALOG "FLB"

WATSON MANUFACTURING COMPANY, Inc.
Jamestown, New York

REPRESENTATIVE INSTALLATIONS

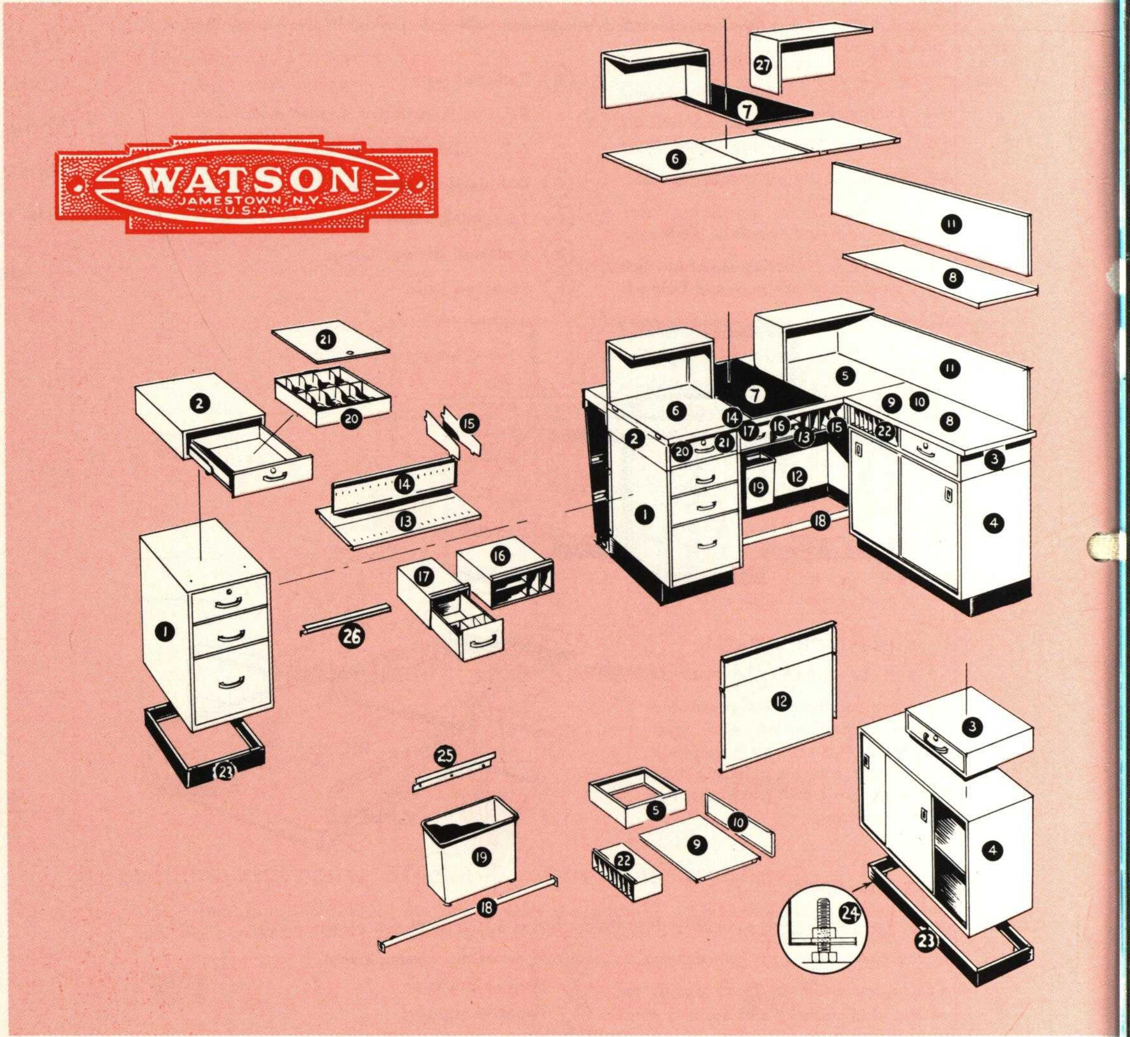
Watson has installations in almost every state and territory:

ALABAMA, Mobile
Merchants National Bank
ARKANSAS, Batesville
First National Bank
CALIFORNIA, Beverly Hills
Union Bank
COLORADO, Denver
The Columbia Savings & Loan
CONNECTICUT, New Haven
Community Bank & Trust Company
DELAWARE, Wilmington
Wilmington Trust Company
FLORIDA, Miami
Pan American Bank
GEORGIA, College Park
Bank of College Park
HAWAII, Honolulu
Bishop National Bank
IDAHO, Pocatello
Idaho Bank & Trust Company
ILLINOIS, Chicago
Central National Bank
INDIANA, Indianapolis
Merchants National Bank & Trust Co.
IOWA, Waterloo
Home Savings and Loan Association
KANSAS, Wichita
Wichita Federal Savings and Loan
KENTUCKY, Calhoun
Citizens Deposit Bank
LOUISIANA, Lake Charles
Gulf National Bank
MAINE, Portland
First Portland National Bank
MARYLAND, Baltimore
Fidelity Baltimore National Bank
MASSACHUSETTS, Shelburne
Shelburne Falls National Bank
MICHIGAN, Detroit
Manufacturers National Bank
MINNESOTA, Duluth
First and American National Bank
MISSISSIPPI, Greenwood
Leflore Bank & Trust Company
MISSOURI, St. Louis
Delmar Bank of University City
NEVADA, Reno
Union Federal Savings & Loan
NEW HAMPSHIRE, Concord
Concord National and Savings Bank
NEW JERSEY, Camden
Camden Trust Company
NEW YORK, New York
Union Dime Savings Bank
NORTH CAROLINA, Gastonia
National Bank of Commerce
NORTH DAKOTA, Fargo
Northwestern Mutual Savings
OHIO, Cleveland
National City Bank of Cleveland
OKLAHOMA, Muskeegee
First National Bank & Trust
PENNSYLVANIA, Pittsburgh
Peoples First National Bank
RHODE ISLAND, Providence
Citizens Savings Bank
SOUTH CAROLINA, Florence
Guaranty Bank & Trust Co.
SOUTH DAKOTA, Rapid City
First Federal Savings & Loan
TENNESSEE, Chattanooga
Pioneer Bank
TEXAS, Dallas
Republic National Bank
UTAH, Ogden
Commercial Security Bank
VIRGINIA, Portsmouth
Bank of Virginia
WASHINGTON, Walla Walla
Walla Walla Federal Savings & Loan
WEST VIRGINIA, Morgantown
Farmers & Merchants Bank
WISCONSIN, Milwaukee
Marshall Ilsey Bank
DISTRICT OF COLUMBIA, Washington
Liberty National Bank
PUERTO RICO, Arecibo
Central Federal Savings and Loan

TYPICAL TELLERS WORK CENTER

. . . with exploded view naming the standard components and showing their location.

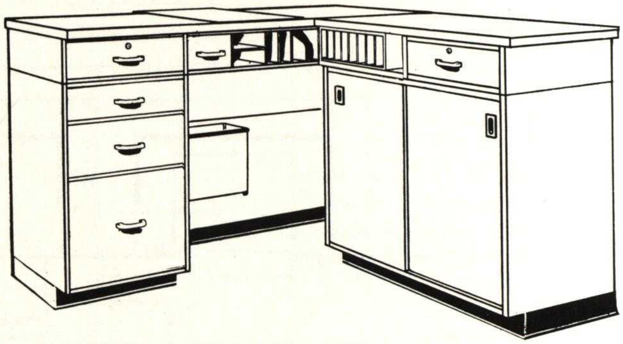
WATSON
JAMESTOWN, N.Y.
U.S.A.



1. B-302 Front counter drawer unit.
2. B-310 Individual drawer unit.
3. B-310-18 Individual drawer unit.
4. B-305 Sliding door unit.
5. B-313-18 Box Filler.
6. B-318 60" Linoleum top with deal plate sinkage.
7. Deal Plate — marble, glass or slate.
8. B-321-18 Side counter linoleum top.
9. B-333-18 Plain opening shelf.
10. B-333-A Apron back.
11. B-342 Tellers dividing partition.
12. B-360½ Knee space back panel.
13. B-361 Knee space shelf.
14. B-361-1 Knee space shelf back.
15. B-361-10 Adjustable partitions.
16. B-362 Form unit.
17. B-364 Item drawer — pins, clips, rubber bands and stamps.
18. B-365 Stainless steel foot rest.
19. B-366 Removable waste basket.
20. B-370 Currency tray.
21. B-371 Locking cover for B-370 (Includes Zee Bar for hanging).
22. B-381 Wrapped coin insert.
23. B-309 and B-305½ Removable bases.
24. Adjustable Bolts (All Pedestals).
25. B-366 Waste Basket hanger.
26. B-361-2 Filler strike at knee spaces.
27. Metal risers — Burbank design.

Assembly 60" long x 24½" deep — (32" to 36" overall deal plate depth). Side counter top 20¼" x 36$\frac{13}{16}$" — also available with 17-15-16" depth top.

WRITE FOR OUR 36 PAGE CATALOG #FLB, SHOWING COMPLETE LINE OF STANDARD UNITS



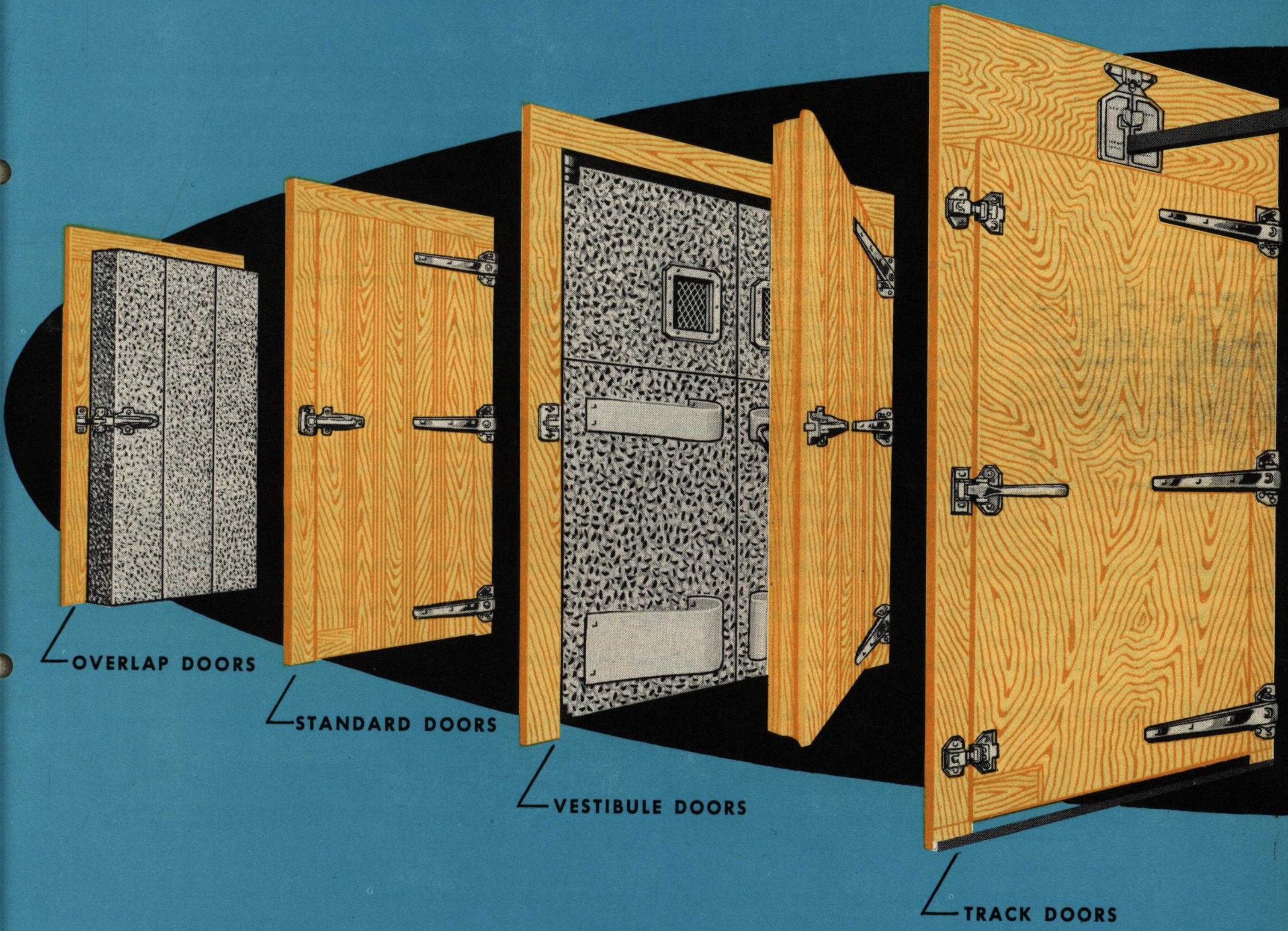
COMPONENT PARTS SHOWN ABOVE
COMPLETELY ASSEMBLED IN THIS DRAWING

WATSON MANUFACTURING COMPANY, INC. JAMESTOWN, N.Y.

23c
Bu

REFRIGERATOR DOORS

for 1960


OVERLAP DOORS
STANDARD DOORS
VESTIBULE DOORS
TRACK DOORS

New!
Type
"GS" and "SS"
DOORS

"Butcher Boy"
QUALITY SINCE 1885

1000 BUTCHER BOY DRIVE · HARVARD, ILLINOIS

Select and Specify THE REFRIGERATOR DOOR TO MEET YOUR PARTICULAR REQUIREMENTS

GENERAL INFORMATION

IT IS OF UTMOST IMPORTANCE TO CONSIDER THE FOLLOWING BASIC FACTORS TO INSURE CONTINUOUS EFFICIENCY AND SATISFACTORY PERFORMANCE OF YOUR REFRIGERATOR DOOR.

1 **SPECIFY WIDTH AND HEIGHT (IN CLEAR DOOR OPENING),** wall or rough buck openings. If Track Type Door is desired, give dimensions from finished floor to top of track rail. (See charts for each type of door.) (Note drawings for Single Seal or Double Seal Doors and specify preference.)

2 **TEMPERATURE TO BE MAINTAINED WITHIN THE REFRIGERATED SPACES.** Temperature and the amount of humidity on the "warm" side to which the door will be exposed.

3 **TYPE OF INSULATING MATERIALS AND THICKNESS TO BE FURNISHED.** The insulation thickness inserted into the door should be equal to the insulation thickness in the walls.

4 **WHAT IS THE BEST TYPE AND STYLE REQUIRED?**

FOR MODERATELY LOW TEMPERATURES of plus 50 degrees F to plus 25 degrees F **we recommend**—Butcher Boy "X-Type" Cooler and Freezer Doors, Butcher Boy "X-52" Plywood Panel Cooler and Freezer Doors. See Pages 6 and 7.

FOR ZERO TEMPERATURES **we recommend**—Butcher Boy "Low Temperature" Doors. See Page 10.

FOR SUB-ZERO TEMPERATURES **we recommend**—Butcher Boy "Super-Freezer" (overlap type) Doors. Super-Freezer (overlap type) doors are available for varying degrees of sub-zero temperatures. Remember that the insulation factor of the door should equal insulation thickness in the walls. See Page 11.

WHERE LONG PERIODS OF OPENING PREVAIL, to prevent refrigeration losses **we recommend**—Butcher Boy Vestibule Door units of Cooler, Freezer, Track, Low-Temperature or Super-Freezer (overlap) Doors equipped with Self-Closing Auto-Close Doors hung within one common frame. See Page 14.

FOR NON-REFRIGERATED DOORWAYS. Loading docks or warehouses **we recommend**—Butcher Boy "Auto-Close" Double Swinging Doors, as separate units. See Page 14, Fig. 36.

5 **SPECIFIC ADVANTAGES OF METAL CLADDING DOORS AND FRAMES.**

A. Protection of doors against adverse weather conditions.
B. Metal clad doors are recommended for fire retarding purposes.
C. Metal clad doors increase the insulating efficiency.
D. Metal coverings protect doors against hard usage, such as trucking in and out of door openings.
   1. Specify "Kickplates" to be applied 4′ 0″ high (standard) or any preferred height on front and or back of doors.
   2. Specify "Armored Jambs" metal protection for frames 4′ 0″ high (standard) or any preferred heights.
   3. Specify character and gauge of metal best suited for your particular applications. Galvanized metal protections are most commonly used in standard No. 10, No. 16, No. 20, or No. 26 gauges. Stainless Steel or other metal finishes are special categories.

6 **TYPE OF HARDWARE AND FINISH DESIRED.** Hot dipped galvanized finish is standard. Chromium or other finishes are special categories.

SPECIAL NOTE: All "X-Type" refrigerator doors are equipped with the standard "Wedge-Type" Fastener with an inner releasing push rod and pull handle.

All "X-52" Plywood Panel refrigerator doors are equipped with double contact "Super-Seal" Fasteners and Finger-Tip Door Openers.

7 **SPECIFY DOOR SWING.** (Left Hand or Right Hand)

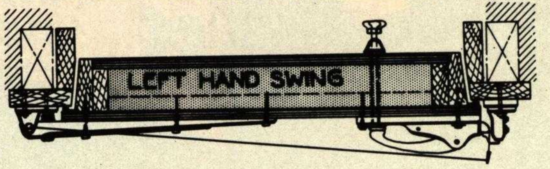


Fig. 1

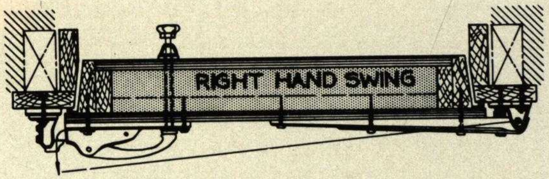


Fig. 2

8 **SELECT AND SPECIFY TYPE OF SILL.** (Angle Iron for concrete floor, Beveled wood, or High wood.

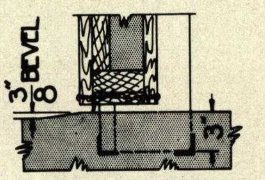


Fig. 3

ANGLE IRON SILL

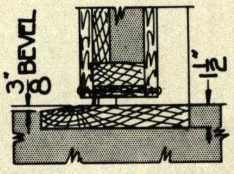


Fig. 4

BEVELED WOOD SILL

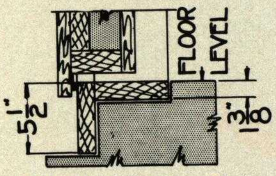


Fig. 5

HIGH WOOD SILL

NO SILL TYPE—As name implies, no sill is provided for a particular type of installation, such as pouring of concrete on job before door arrival or for replacement of old doors. This type of installation saves time, expense, and is practical for emergency installations.

9 **HELPFUL HINTS FOR PROPER DOOR INSTALLATIONS.**

A. Follow directions for installing as recommended by the manufacturer. Each door shipment contains installation data.
B. Use dimensional bucks as per instruction. Do not skimp on the rough bucks if you want a rigid type of door installation.
C. When installing the door frame, make certain that installation is plumb and true. Use a spirit level. If frame is not plumb and true, the door will not fit properly nor will there be the necessary airtight seal between the door and the frame.
D. Lubricate all moving hardware parts at time of installation and at regular intervals thereafter.

"Butcher Boy" Superior Construction

Since 1885

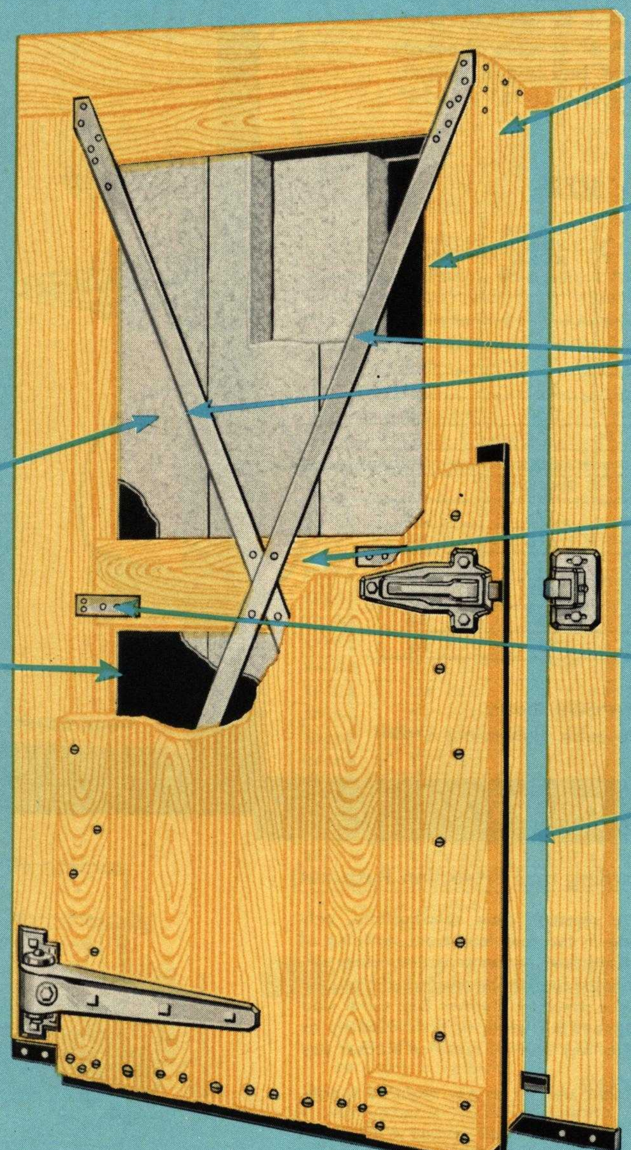
INCORPORATING "X-TYPE" STEEL DIAGONAL BRACING FOR GREATER STRENGTH

"X-TYPE" STEEL DIAGONAL BRACING IS THE BASIC PRINCIPLE OF RIGIDITY

GUARANTEES MAXIMUM INSULATION FILL INSIDE OF DOOR

THE ONLY POSITIVE METHOD TO PREVENT DOOR SAGGING

ALLOWS REVERSAL OF DOOR SWING IF NECESSARY



PRIMARY INSULATION
Insulation as per specifications selected by architect or consumer. Accurately fitted into moisture proof cells and sealed with asphalt cement—this forms a permanent lasting seal.

VAPOR SEAL
Frost-proof, odorless, water-resisting paper. Placed on EACH SIDE of insulation to form highest type of moisture-proofing.

FRAME STRUCTURE
Made of full 1⅝″x5½″ solid clear Douglas Fir lumber.

INSIDE UPRIGHTS
The "BACKBONE" of Butcher Boy Doors. Uprights placed so as to receive back and front of door making one solid unit.

STEEL DIAGONAL BRACING
2½″ wide by full height of door. These 20 gge. galvanized STEEL X STRAPS are fastened securely with heavy nails, staggered to increase holding power. This construction is the ONLY positive method to prevent door sagging.

CROSS MEMBERS
Three (3) 6/4x5″ face cross members. NO SHORT PIECES. All must be full width of the door.

STABILIZERS
Used to tie in the "Frame Structure," "Inside Uprights," and "Cross Members" as one unit through the center of the door.

BACK OF DOOR
Made of ¾″x4, 5, or 6″ clear Fir, with special tongued and grooved stock — proper allowance made for expansion and contraction.

IMPORTANT NOTE ON SEALING —

We recommend SINGLE SEAL door construction for all temperature maintenance. Double seal door construction available but not recommended since secondary seal at frame stop is vulnerable to trucking upon contact through the door opening.

"INTERLOK" NO-SAG

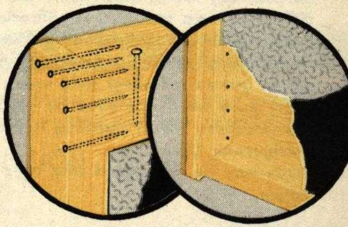
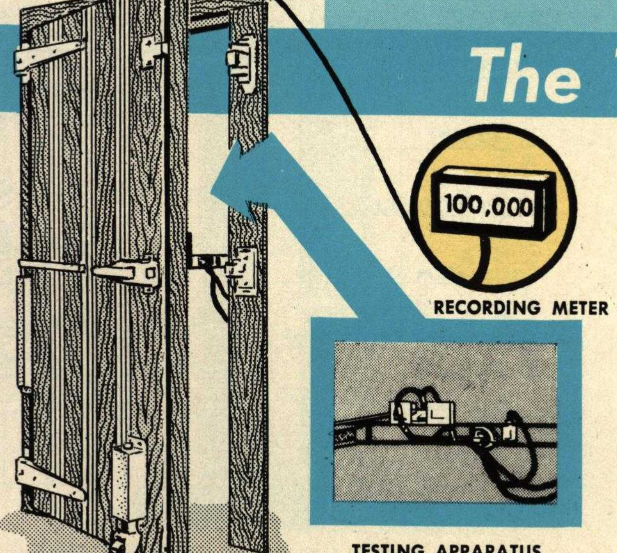


Fig. 6



TESTING APPARATUS

The Test of DURABILITY...

TYPICAL METHODS USED IN TESTING ORIGINAL MODELS OF "BUTCHER BOY" DOORS FOR DURABILITY AND PERFORMANCE

These tests are severe, under actual door operation to assure trouble free action at all times. Note that a record meter is used in conducting these tests. Each original door model is opened and closed 100,000 times, subject to more usage than the average life of any refrigerator door.

We reserve the right to change specifications without notice, when in our opinion, they will improve our product.

STANDARD COOLER-FREEZER DOORS *For Temperature Ranges*

COOLER DOORS are insulated with 4" of loose fill insulation, packed and encased in heavy waterproof insulating paper. Used where small differences in temperature exist, such as rooms maintaining temperature of +50° F to +35° F.

FREEZER DOORS are insulated with 4" of boardform or selected board insulation, and laid in asphalt. Used where temperature differences of +35° to +25° exist.

FREEZER DOORS insulated with 6" or more of boardform or selected board insulation, and laid in asphalt. Used where temperature differences of +25° to +10° exist.

STANDARD SIZES

Door Number	Dimensions Inside of Frame (Door in Clear) Width Height	Shipping Weight Pounds Crated ♦	Cubic Feet Crated ♦♦
CF-0	1'6"x1'6"	125	9
CF-1	2'6"x2'0"	155	14
CF-2	2'0"x3'0"	200	16
CF-3	2'6"x3'0"	235	18
CF-4	2'6"x3'6"	260	20
CF-5	2'0"x6'0"	305	26
CF-6	2'6"x6'0"	340	30
CF-7	2'6"x6'6"	365	32
CF-8	3'0"x6'0"	375	33
CF-9*	3'0"x6'6"	410	36
CF-10*	3'6"x6'6"	440	40
CF-11*	4'0"x6'6"	475	44
CF-12*	4'6"x6'6"	550	48
CF-13*	5'0"x6'6"	590	52

*Three hinges furnished.

♦ For 6" freezer doors add 20% to weight shown.

♦♦ For 6" freezer doors add 15% to cubic dimensions shown.

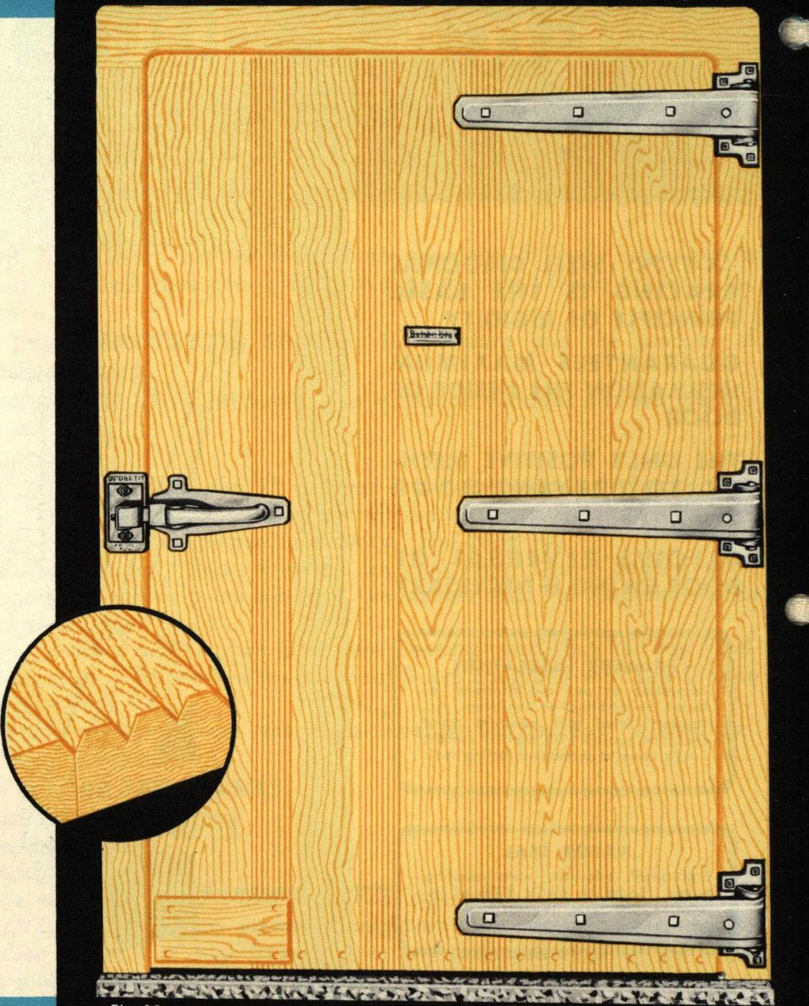


Fig. 13—Standard Door, Right Hand Swing, Beveled Sill with Steel Wearing Plate.

METAL CLAD DOORS

(For Fire and Adverse Weather Retarding and Protection Purposes)

Butcher Boy metal clad doors are built to standard door specifications, only difference from standard specifications being in the complete metal cladding of door, frame, casing, and jamb. The metal clad feature increases insulating efficiency as well as for fire protection. Butcher Boy doors are metal clad with No. 26 gauge galvanized sheet steel unless otherwise specified. Butcher Boy metal clad doors have been approved by users throughout the world in their capacity as fire retarders. Metal cladding is available on any and all types of Butcher Boy Refrigerator Doors.

Doors may be metal clad with copper, stainless steel or as per required specifications.

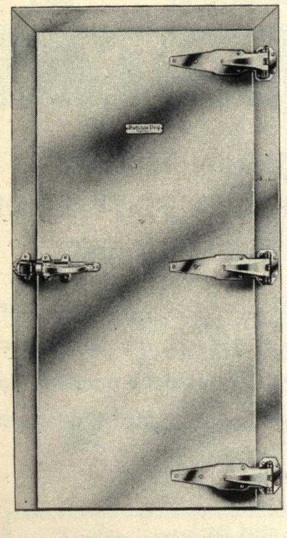


Fig. 14—Stainless Steel Door, Right Hand Swing, No Sill Type

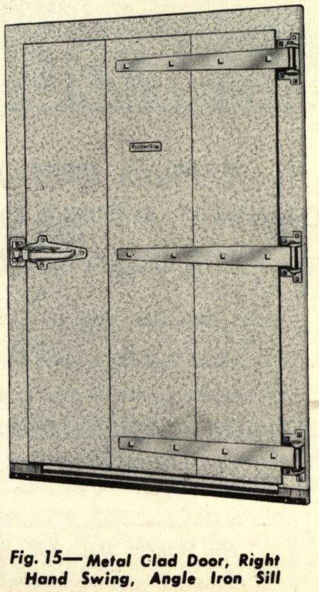
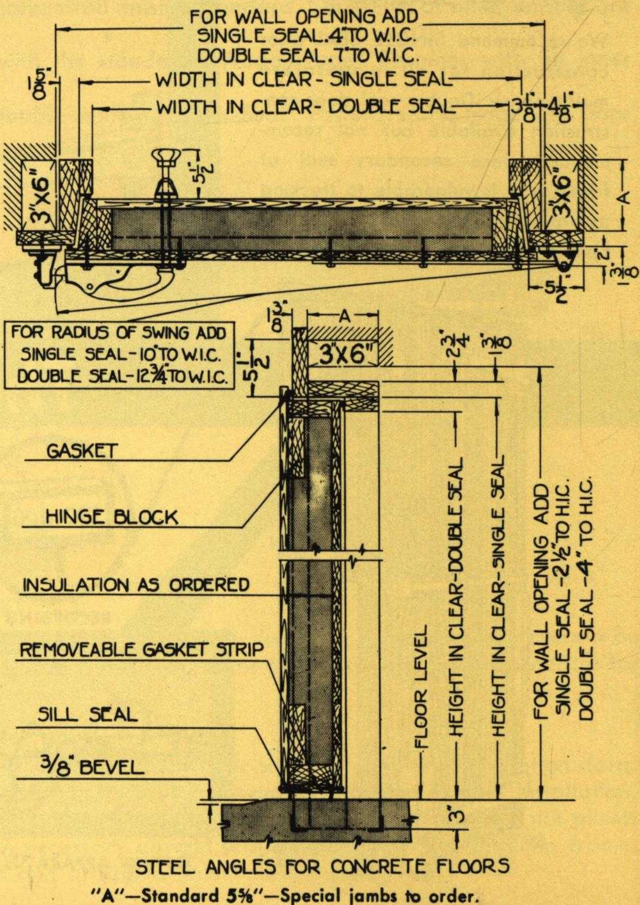


Fig. 15—Metal Clad Door, Right Hand Swing, Angle Iron Sill



FOR WALL OPENING ADD
SINGLE SEAL.4" TO W.I.C.
DOUBLE SEAL.7" TO W.I.C.
WIDTH IN CLEAR - SINGLE SEAL
WIDTH IN CLEAR - DOUBLE SEAL
1 5/8"
3 1/8"
4 1/8"
5 1/2"
3"X6"
3"X6"
A
2"
1 3/8"
5 1/2"
FOR RADIUS OF SWING ADD
SINGLE SEAL - 10" TO W.I.C.
DOUBLE SEAL - 12 3/4" TO W.I.C.
1 3/8"
A
3"X6"
5 1/2"
2 3/4"
1 3/8"
GASKET
HINGE BLOCK
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR-DOUBLE SEAL
HEIGHT IN CLEAR-SINGLE SEAL
FOR WALL OPENING ADD
SINGLE SEAL -2 1/2" TO H.I.C.
DOUBLE SEAL -4" TO H.I.C.
3"
STEEL ANGLES FOR CONCRETE FLOORS

"A"—Standard 5⅝"—Special jambs to order.

of +50° to +10°

"X-52" PLYWOOD PANEL DOORS

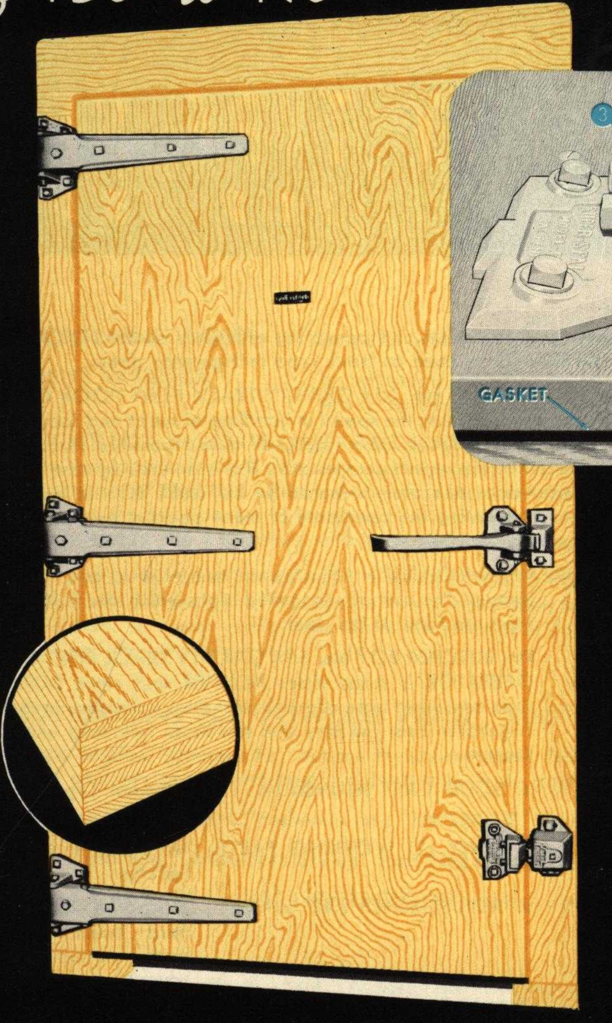


Fig. 16— "X-52" Plywood Panel Door, Left Hand Swing, Angle Iron Sill.

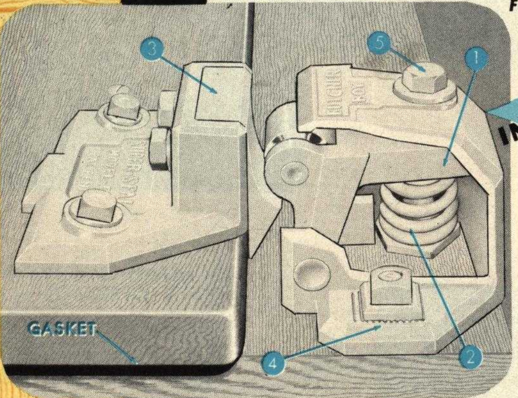


Fig. 17—Cut-away View—"Super Seal" Fastener

NEW IMPROVED *feature*

"SUPER-SEAL"

Model "B" FASTENER

(PATENT PENDING)

The MODEL "B" two point contact "SUPER-SEAL" fasteners are compact in design, maintaining the utmost efficiency of operation when installed to any type of refrigerator door.

Constant automatic spring pressures of the two point contact fasteners "Distribute and Hold" gasket pressures uniformly against the door frame; consequently, a vast improvement over the usual single type fastener.

The MODEL "B" two point contact fasteners maintain a 100% airtight seal between the door gaskets and frame, thereby preventing door warping and icing conditions.

DURABLE—COMPACT—MODERN

Adjustments are simple and positive from the face of the door. (See No. 5.)

The BUTCHER BOY MODEL "B" Super Seal Fasteners are HEAVIER and more DURABLE than any other type of two point contact fasteners in the refrigerator door industry, and have these following exclusive features.

1. 7 to 1 leverage ratio.......More holding power through leverage
2. Coil springs...............Holds spring replacements to absolute minimum
3. Adjustable Strikes.........Permits field adjustments for each individual unit
4. Ribbed Base Mountings.....No slip action possible from constant door slamming

STANDARD SIZES

Door Number	Dimensions Inside of Frame (Door in Clear) Width Height	Size of Wall Opening Required Width Height	Shipping Weight Pounds Crated ♦	Cubic Feet Crated ♦♦
XPCF-0	1'6" x 1'6"	1'10" x 1'8½"	125	9
XPCF-1	2'6" x 2'0"	2'10" x 2'2½"	155	14
XPCF-2	2'0" x 3'0"	2' 4" x 3'2½"	200	16
XPCF-3	2'6" x 3'0"	2'10" x 3'2½"	235	18
XPCF-4	2'6" x 3'6"	2'10" x 3'8½"	260	20
XPCF-5	2'0" x 6'0"	2' 4" x 6'2½"	305	26
XPCF-6	2'6" x 6'0"	2'10" x 6'2½"	340	30
XPCF-7	2'6" x 6'6"	2'10" x 6'8½"	365	32
XPCF-8	3'0" x 6'0"	3' 4" x 6'2½"	375	33
XPCF-9*	3'0" x 6'6"	3' 4" x 6'8½"	410	36
XPCF-10*	3'6" x 6'6"	3'10" x 6'8½"	440	40
XPCF-11*	4'0" x 6'6"	4' 4" x 6'8½"	475	44
XPCF-12*	4'6" x 6'6"	4'10" x 6'8½"	550	48
XPCF-13*	5'0" x 6'6"	5' 4" x 6'8½"	590	52

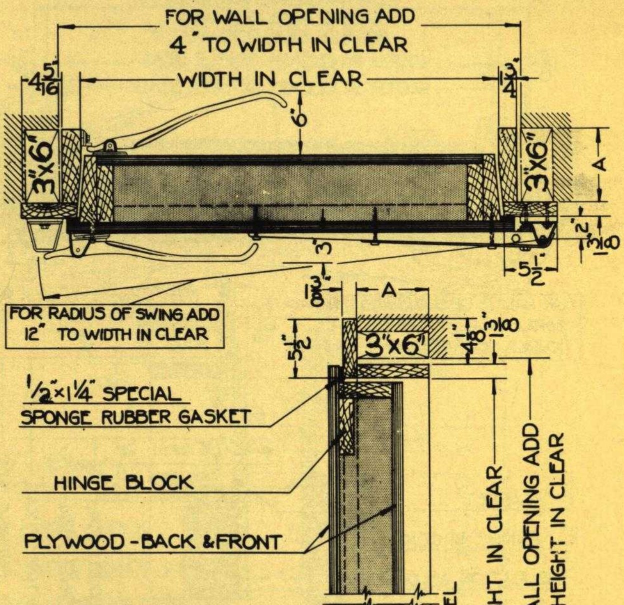
* Three hinges furnished.

♦ For 6" freezer doors add 20% to weight.

♦♦ For 6" freezer doors add 15% to cubic shown.

The MODEL "B" Super Seal Fasteners are designed to replace other types of double contact fasteners with a minimum of work required. In a majority of replacements, no new hole drilling is necessary. Merely remove the old fasteners and install the MODEL "B" Super Seal Fasteners.

SPECIFY the BUTCHER BOY MODEL "B" "SUPER SEAL" FASTENERS and eliminate the "headaches" which have been so prevalent in the field for so many years. Help make the job easier for the plant engineer and maintenance men.



"A"—Standard 5⅝"—Special jambs to order.

SPECIFICATIONS FOR PLYWOOD PANEL "X-52" DOORS

Specifications include the door hung into the frame, with all necessary galvanized hardware, ready to set into the door bucks furnished by others. (Sanded finish—no paint or varnish)

CONSTRUCTION

All lumber is 100% Old Growth "Douglas Fir."

DOOR is Butcher Boy "X-Type" construction.

SECONDARY INSULATION—Frost-proof odorless, water resisting paper placed on each side of insulation to form the highest type of "vapor barrier."

PRIMARY INSULATION—Corkboard, Fiberglass, Rock Cork, or any insulation as specified, sealed with asphalt emulsion.

BACK OF DOOR—One piece plastic bonded marine plywood ⅝" thick, 5 ply type "Douglas Fir" securely fastened to inside uprights.

FRONT OF DOOR—One piece plastic bonded marine plywood ⅞" or ¾" thick, 7 ply "Douglas Fir" over secondary insulation, and asphalt emulsion forming best type of vapor seal possible, securely fastened with 2" No. 12 wood screws staggered into stiles and inside uprights.

DOOR FRAME—Made of 1⅝" jambs and 1⅜" casings.

HARDWARE—"Super-Seal," a new type "Double Spring" Pressure Fastener, applied at two (2) contact points on the door to maintain a 100% airtight gasket seal. The use of "Super-Seal" Fasteners prevents warping, sweating and door icing.

"Finger-Tip" door openers are strong, heavy, modernistic handles, designed so that mere "Finger-Tip" pressure will open any size door. "Finger-Tip" Openers are applied to the front and back of the doors.

GASKETS—"Freeze-Proof" door gaskets are made of a special moulded sponge rubber, made of soft, resilient waterproof rubber, skin coated on all four sides for maximum protection. This ⅝" x 1¼" special gasket carries the Butcher Boy name to avoid substitutions. The "Freeze-Proof" gasket is the "seal" gasket applied to the perimeter of the door. The "sill" gaskets are of 1/16" pure moulded rubber of a 50-55 Duro test which will not stiffen under freezing temperatures. Designed for replacement without removing the door from its hinges through gasket blocks screwed from front and rear of door.

"Butcher Boy" No. 654

Since 1885

GRAVITY TYPE SELF FOR TRACK

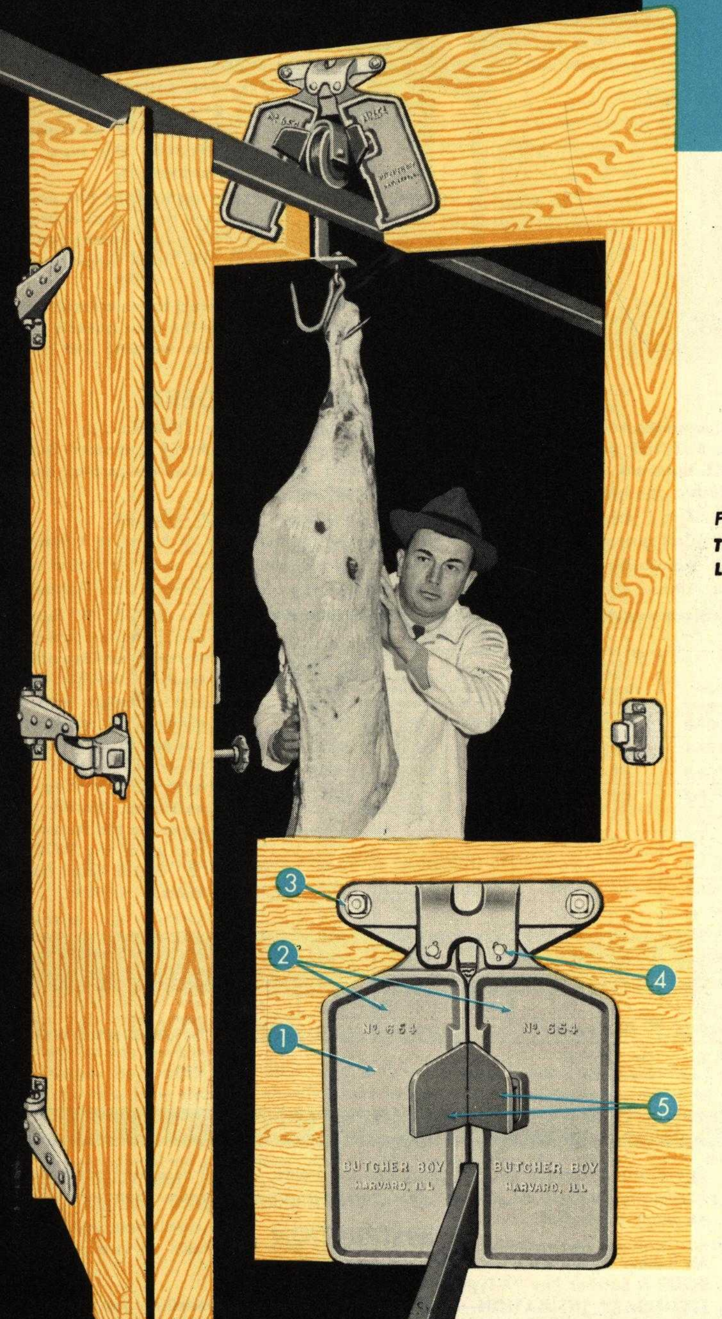

3
2
4
1
5
No. 654
No. 654
BUTCHER BOY HARVARD, ILL.
BUTCHER BOY HARVARD, ILL.

Fig. 18—
Track Door, Left Hand Swing, Angle Iron Sill

An improvement in design and operating efficiency of the TRACK PORT DOOR OPERATOR as used on track type refrigerator doors.

The new BUTCHER BOY No. 654 GRAVITY TRACK PORT DOOR OPERATOR substantially increases the speed in handling of meat and food products on track rails, reduces labor costs, all made possible through the "gravity action" of this new type operator. This is an entirely new concept of a track port door operator, invented by BUTCHER BOY to cope with the problems confronting the operators of meat packing and processing plants throughout the country.

DURABLE—HEAVY—MODERN— Adjustments are simple and positive through the use of elongated slots which are adjustable from the face of the door.

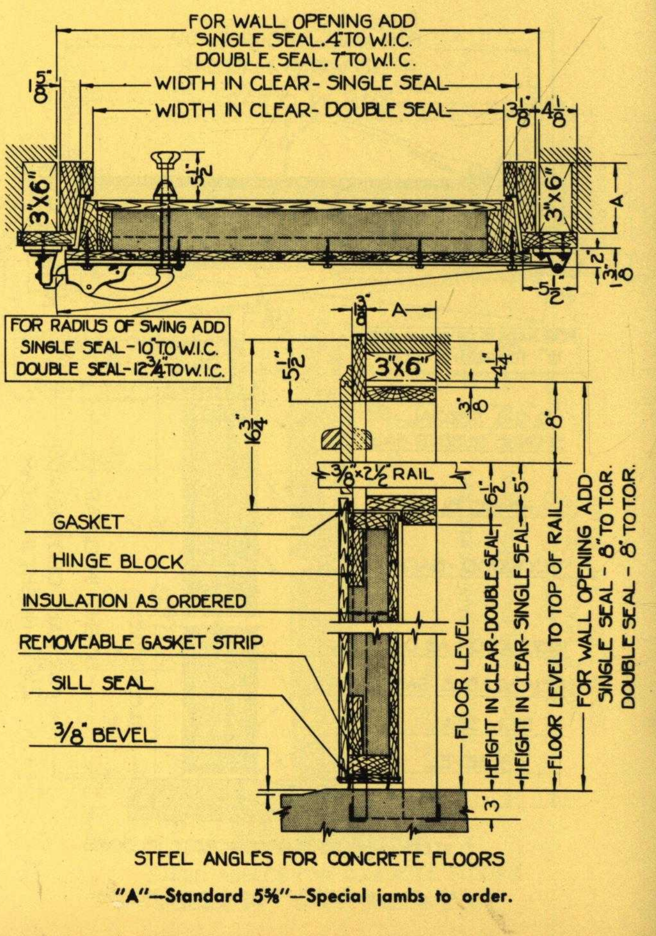
The BUTCHER BOY No. 654 GRAVITY TRACK PORT DOOR OPERATOR is many times HEAVIER and more DURABLE than any other type of track port door hardware in the refrigerator door industry and has these following exclusive features.

1. SOLID CAST ALUMINUM . . . . . Wooden Types Crack or Split
2. ONLY (2) WORKING PARTS . . No Cams, No Links, No Springs
3. ADJUSTMENTS ARE SIMPLE . . . Elongated slots permit field adjustment for each individual unit when necessary.

STANDARD SIZES

Door Number	Width in Clear By Height to Top of Rail Width Height	Shipping Weight Pounds Crated ◆	Cubic Feet Crated ◆◆
T-1*	3'6"x 7'2"	535	51
T-2*†	3'6"x 8'2"	600	57
T-3* †	3'6"x 9'2"	670	63
T-4**†	3'6"x10'2"	720	69
T-5**†	3'6"x11'6"	800	77
T-6*	4'0"x 7'2"	580	56
T-7*†	4'0"x 8'2"	650	62
T-8* †	4'0"x 9'2"	720	69
T-9**†	4'0"x10'2"	780	75
T-10**†	4'0"x11'6"	870	84

*Three hinges furnished. †Include double latch.
**Four hinges furnished.
◆For 6" freezers add 20% to weight shown.
◆◆For 6" freezers add 15% to cubic dimensions shown.


FOR WALL OPENING ADD SINGLE SEAL. 4" TO W.I.C. DOUBLE SEAL. 7" TO W.I.C.
1 5/8"
WIDTH IN CLEAR - SINGLE SEAL
WIDTH IN CLEAR - DOUBLE SEAL
3 1/8"
4 1/8"
3"X6"
5 1/2"
3"X6"
A
2"
1 3/8"
5 1/2"
FOR RADIUS OF SWING ADD SINGLE SEAL - 10" TO W.I.C. DOUBLE SEAL - 12 3/4" TO W.I.C.
5/8"
A
3"X6"
5 1/2"
4 1/4"
3/8"
16 3/4"
8"
3/8"x2 1/2" RAIL
GASKET
HINGE BLOCK
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR-DOUBLE SEAL - 6 1/2"
HEIGHT IN CLEAR-SINGLE SEAL - 5"
FLOOR LEVEL TO TOP OF RAIL
FOR WALL OPENING ADD SINGLE SEAL - 8" TO T.O.R. DOUBLE SEAL - 8" TO T.O.R.
3"

STEEL ANGLES FOR CONCRETE FLOORS

"A"—Standard 5⅝"—Special jambs to order.

FOR TEMPERATURE RANGES OF +50° TO +10°

CLOSING OPERATOR TYPE DOORS

PLYWOOD PANEL "X-52" TRACK DOOR

4. **HEAVY BEARING INSERTS** ....Long life with minimum of lubrication
5. **MASSIVE IN DESIGN** ....To withstand packing house abuses; heavy malleable iron extended wings

The BUTCHER BOY No. 654 GRAVITY TRACK PORT DOOR OPERATOR has been designed to replace all troublesome types of track door operators. A minimum of time and effort is necessary. Merely drill two (2) ⅜" holes through the head casing of the door frame and attach with the ⅜" carriage bolts (⅜" x 6") furnished with the track port door operator.

SPECIFY the BUTCHER BOY No. 654 GRAVITY TRACK PORT DOOR OPERATOR and eliminate the "headaches" which have been so prevalent in the field for so many years. Help make the job easier for the plant engineer and maintenance men.

SPECIFICATIONS FOR PLYWOOD PANEL "X-52" DOORS

1. Plastic Bonded "Douglas Fir" Marine Plywood Panels. Front of door made of 7-ply panels and backs of doors with 5-ply panels.
2. Two Point "SUPER-SEAL" Fasteners and "FINGER-TIP" Openers.
3. Shock Absorbing "Adjustable-Spring" type hinges (Model No. 53).
4. Special moulded ½" x 1¼" "FREEZE-PROOF" rubber door gaskets.

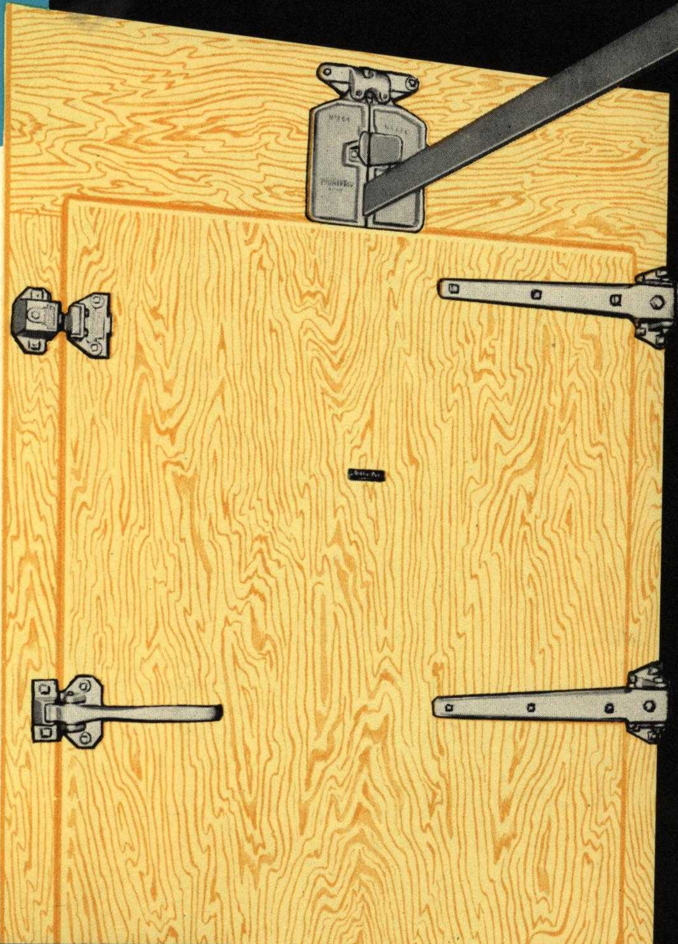
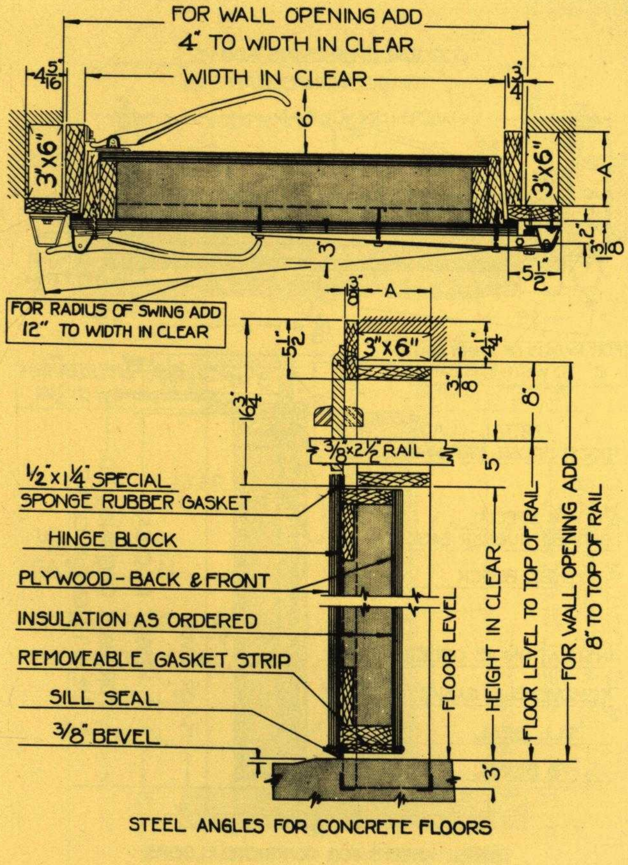


Fig. 21—"X-52" Plywood Panel Track Door, Right Hand Swing, Angle Iron Sill


FOR WALL OPENING ADD
4" TO WIDTH IN CLEAR
4 5/16
WIDTH IN CLEAR
1¾
6
3"X6"
3"X6"
A
3
2
1⅛
1 3/8
5½
FOR RADIUS OF SWING ADD
12" TO WIDTH IN CLEAR
⅜
A
5½
3"X6"
4¼
16¾
⅜
8
⅜x2½ RAIL
5
½x1¼ SPECIAL
SPONGE RUBBER GASKET
HINGE BLOCK
PLYWOOD - BACK & FRONT
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
⅜ BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR
FLOOR LEVEL TO TOP OF RAIL
FOR WALL OPENING ADD
8" TO TOP OF RAIL
3
STEEL ANGLES FOR CONCRETE FLOORS

"A"—Standard 5⅝"—Special jambs to order.

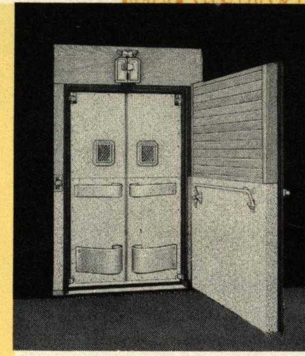


Fig. 22— Track Vestibule Door, Right Hand Swing, Angle Iron Sill (Open View), Rear Kickplates and Armored Jambs applied, 4'0" high (Available in No. 10, 16, 20 or 26 gauge galvanized metal). (Extra). Extra Heavy Duty Spring Steel Bumpers (Extra)

Door Number	Width in Clear By Height to Top of Rail Width Height	Shipping Weight, Pounds Crated‡	Cubic Feet, Crated
XT-1*	3'6"x 7'2"	570	51
XT-2*†	3'6"x 8'2"	640	57
XT-3*†	3'6"x 9'2"	720	63
XT-4**†	3'6"x10'2"	760	69
XT5-**†	3'6"x11'6"	850	77
XT-6*	4'0"x 7'2"	620	56
XT-7*†	4'0"x 8'2"	690	62
XT-8*†	4'0"x 9'2"	760	69
XT-9**†	4'0"x10'2"	820	75
XT-10**†	4'0"x11'6"	910	84
XT-11*	4'6"x 7'2"	690	48
XT-12*†	4'6"x 8'2"	760	54
XT-13* †	4'6"x 9'2"	840	63
XT-14**†	4'6"x10'2"	910	69
XT-15**†	4'6"x11'6"	1000	78

*Three hinges furnished

†Three point fasteners

‡For 6" freezers add 20% to weight shown

♦For 6" freezers add 15% to cubic dimensions shown

**Four hinges furnished

Specify
"Butcher Boy"
Since 1883

LOW TEMPERATURE DOORS (Infitting)

AVAILABLE WITH SOLDERED JOINTS

For temperatures from zero to -15° Below

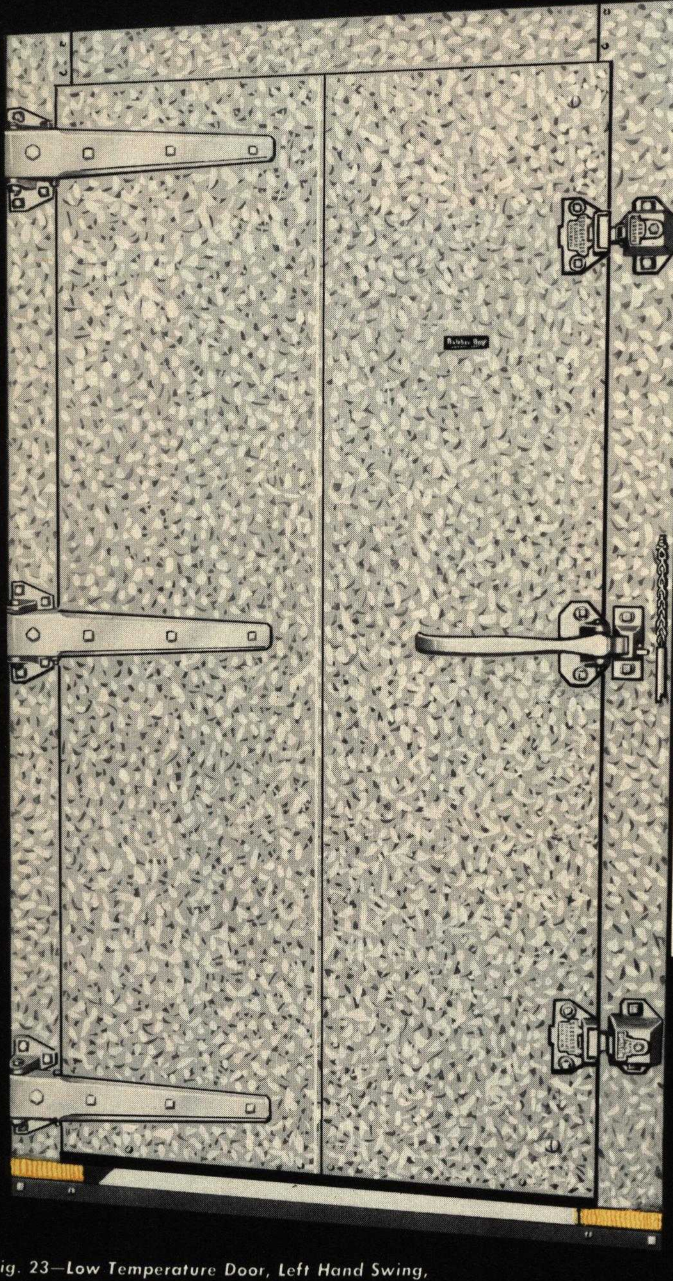


Fig. 23—Low Temperature Door, Left Hand Swing, Angle Iron Sill.

The Butcher Boy Low Temperature Door is an (infitting) type door unit which may be used at the lower temperatures, where more efficient operation is necessary for extreme temperature differences. This (infitting) door is metal covered on the front, edges, and the entire frame to meet these low temperature requirements.

Special hardware applications consist of two point contact "SUPER-SEAL" Fasteners and "FINGER-TIP" Door openers, also heavy duty Adjustable Spring Hinges (see Fig. 9). This special hardware combination distributes and holds gasket pressure uniformly against the door frame.

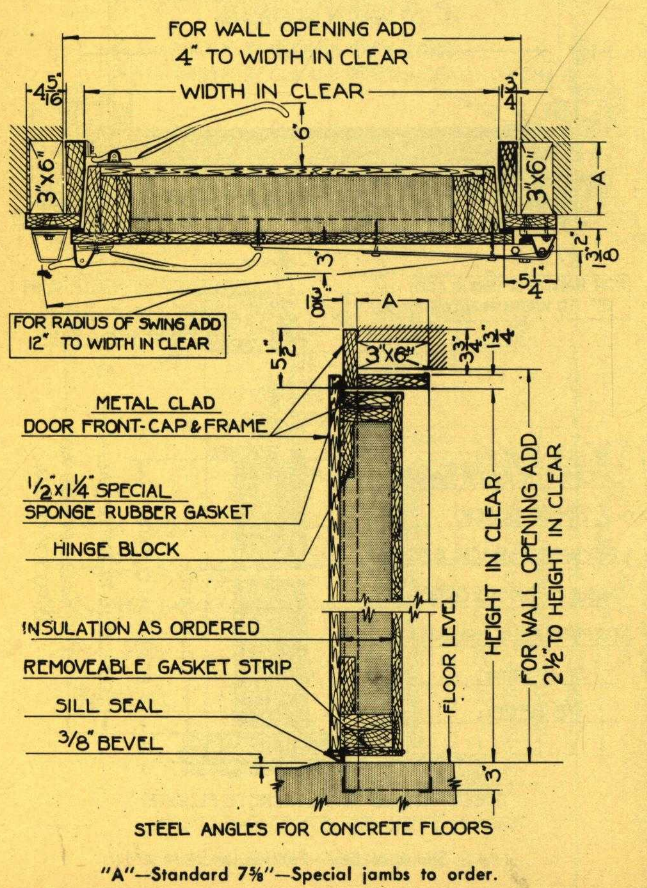
A single seal "FREEZE-PROOF" (½" x 1¼") rubber gasket of the Super-Freezer (overlap type) (see **Fig. 29**) is applied to the perimeter of the door, which acts as a permanent door seal between the door proper and the edges of the casing.

Butcher Boy Low Temperature (infitting) doors are also available completely metal clad at an additional extra.

STANDARD SIZES

Door Number	Dimensions Inside of Frame (Door in Clear) Width Height	Size of Wall Opening Required Width Height	Shipping Weight Pounds Crated	Cubic Feet Crated
LT-01+	1'6" x 1'6"	1'10" x 1'8½"	135	2
LT-02+	2'6" x 2'0"	2'10" x 2'2½"	180	5
LT-1+	2'0" x 3'0"	2' 4" x 3'2½"	205	7
LT-2+	2'6" x 3'0"	2'10" x 3'2½"	240	9
LT-3+	2'6" x 3'6"	2'10" x 3'8½"	260	10
LT-4§	2'0" x 6'0"	2' 4" x 6'2½"	365	14
LT-5§	2'6" x 6'0"	2'10" x 6'2½"	415	17
LT-6§	2'6" x 6'6"	2'10" x 6'8½"	430	19
LT-7§	3'0" x 6'0"	3' 4" x 6'2½"	450	21
LT-8‡	3'0" x 6'6"	3' 4" x 6'8½"	475	23
LT-9‡	3'6" x 6'6"	3'10" x 6'8½"	520	26
LT-10‡	4'0" x 6'6"	4' 4" x 6'8½"	575	30
LT-11*	4'6" x 6'6"	4'10" x 6'8½"	665	34
LT-12*	5'0" x 6'6"	5' 4" x 6'8½"	715	38

(+) Two Hinges and Single Point Super Seal Fasteners no Back Handle.
(§) Two Hinges and Two Point Super Seal Fasteners.
(‡) Three Hinges and Two Point Super Seal Fasteners.
(*) Three Hinges and Three Point Super Seal Fasteners.


FOR WALL OPENING ADD
4" TO WIDTH IN CLEAR
4 5/16
WIDTH IN CLEAR
1 3/4
6"
3"X6"
3"X6"
A
2"
1 3/8
3"
5 1/4
FOR RADIUS OF SWING ADD 12" TO WIDTH IN CLEAR
1 3/8"
A
5 1/2"
3"X6"
3/4"
1 3/4"
METAL CLAD
DOOR FRONT-CAP & FRAME
1/2"x1 1/4" SPECIAL
SPONGE RUBBER GASKET
HINGE BLOCK
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR
FOR WALL OPENING ADD 2½" TO HEIGHT IN CLEAR
3"
STEEL ANGLES FOR CONCRETE FLOORS

"A"—Standard 7⅝"—Special jambs to order.

ALSO AVAILABLE AS LOW TEMPERATURE VESTIBULE DOORS

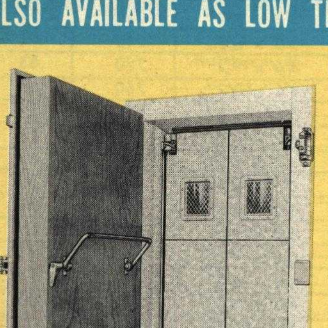


Fig. 24—BUTCHER BOY Low Temperature (infitting) doors are also available VESTIBULE TYPE, for installation where long periods of openings prevail, to offset refrigeration losses. The value of having the double swinging auto-close doors installed in the same common frame with the insulated Low Temperature Door cannot be minimized. In the absence of the double swinging auto-close doors at zero temperature rooms, the cold temperature being maintained within the room will be materially effected with the infiltration of the warm air from the outside, causing unfavorable humidity conditions within the room and frost builds up on the refrigeration coils.

See details on vestibule doors, pages 14 and 15.

SUPER FREEZER (Overlap) DOORS

AVAILABLE WITH SOLDERED JOINTS

FOR SUB-ZERO TEMPERATURES

The BUTCHER BOY Super-Freezer (Overlap) Door is expressly designed for use at SUB-ZERO temperatures.

The Super-Freezer (Overlap) Door completely "overlaps" its door frame a full four (4) inches for maximum efficiency. No portion of the overlap door protrudes within the wall opening, and consequently there are no spaces for accumulation of ice to form.

Butcher Boy Super-Freezer (Overlap) Doors may be furnished in unlimited thicknesses of insulation to suit any particular requirement Standard applications are 6" or 8" of boardform or corkboard insulation.

The standard practice is to metal clad the entire warm side of the door as required (either front or back—as specified) with No. 26 gauge galvanized steel to offer protection against moisture infiltration and add to the efficiency of insulation value.

Butcher Boy Super-Freezer (Overlap) Doors are also available in VESTIBULE TYPE where long periods of openings prevail, to offset refrigeration losses. Refer to Page 2 for additional details.

STANDARD SIZES

Door Number	Dimensions Inside of Frame (Door in Clear) Width Height	Size of Wall Opening Required Width Height	Shipping Weight Pounds Crated ♦	Cubic Feet Crated ♦♦
SF-1	1'6"x1'6"	2'4" x1'11"	230	17
SF-2	2'0"x3'0"	2'10"x 3'5"	335	28
SF-3	3'0"x3'0"	3'10"x 3'5"	420	37
SF-4	2'0"x6'0"	2'10"x 6'5"	500	43
SF-5	2'6"x6'0"	3'4" x 6'5"	555	51
SF-6*	3'0"x6'0"	3'10"x 6'5"	610	53
SF-6A*	3'0"x6'6"	3'10"x6'11"	650	60
SF-7*	3'6"x6'6"	4'4" x6'11"	720	69
SF-8*	4'0"x6'6"	4'10"x6'11"	790	79
SF-9*	4'6"x6'6"	5'4" x6'11"	820	87
SF-10*	5'0"x6'6"	5'10"x6'11"	840	98

*Three hinges furnished.

♦ Add 15% to weight shown for doors with 8" of insulation. Deduct 15% of weight shown for doors with 4" of insulation.

♦♦ Add 15% to cubic footage shown for doors with 8" of insulation. Deduct 15% of cubic footage shown for doors with 4" of insulation.

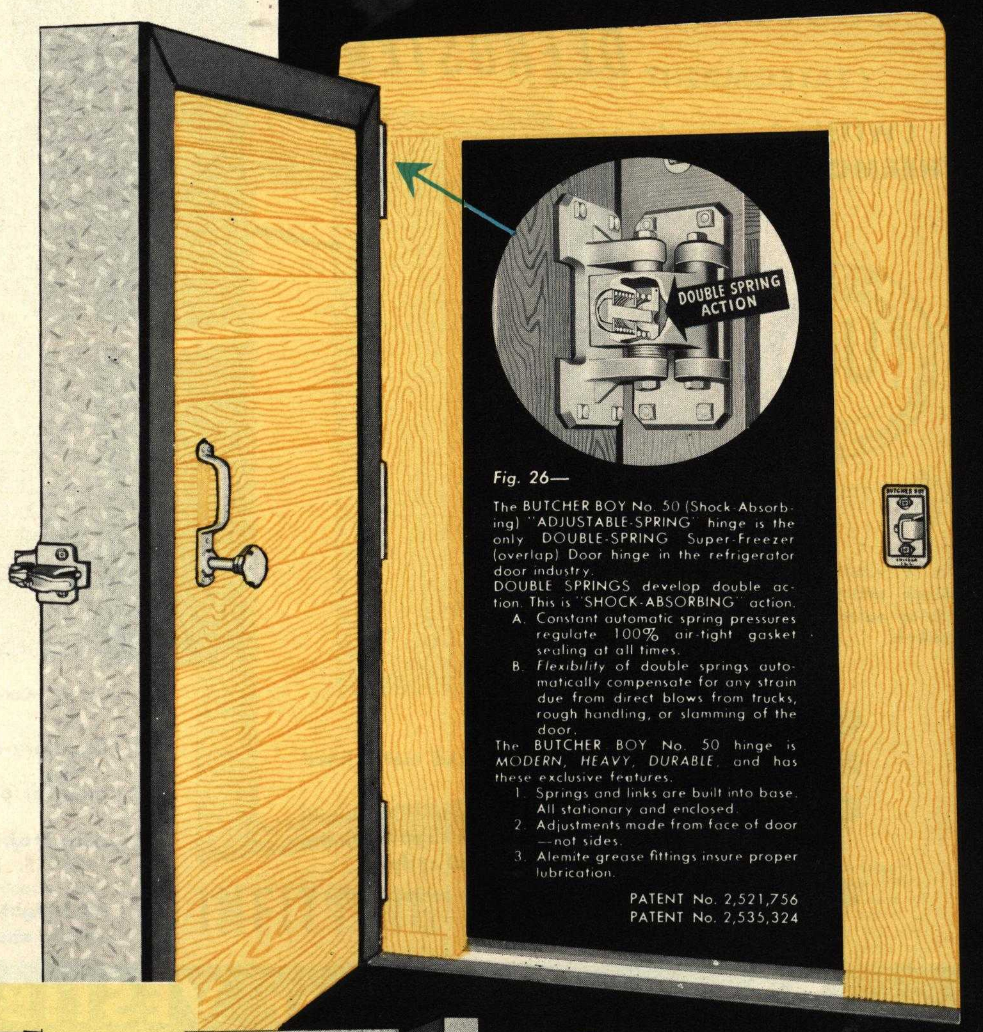

DOUBLE SPRING ACTION
BUTCHER BOY

Fig. 26—

The BUTCHER BOY No. 50 (Shock-Absorbing) "ADJUSTABLE-SPRING" hinge is the only DOUBLE-SPRING Super-Freezer (overlap) Door hinge in the refrigerator door industry.

DOUBLE SPRINGS develop double action. This is "SHOCK-ABSORBING" action.

A. Constant automatic spring pressures regulate 100% air-tight gasket sealing at all times.

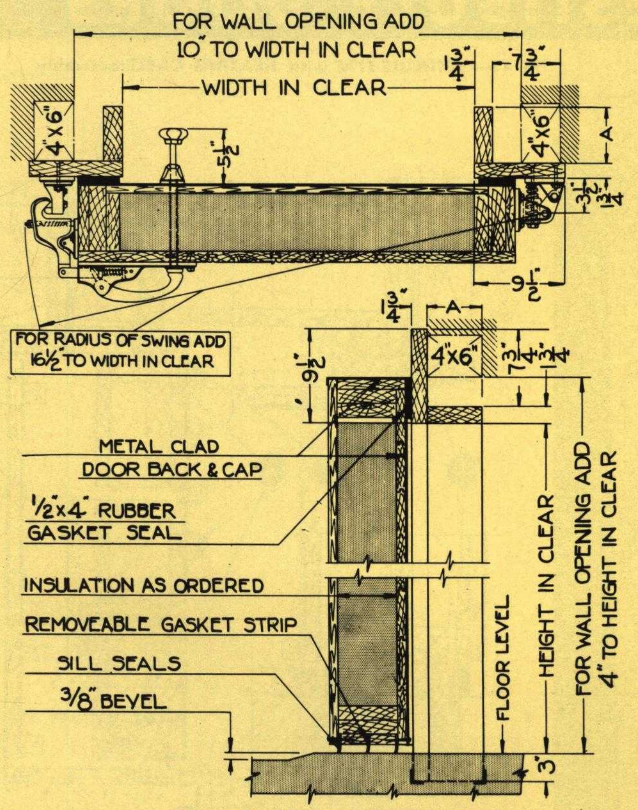
B. *Flexibility* of double springs automatically compensate for any strain due from direct blows from trucks, rough handling, or slamming of the door.

The BUTCHER BOY No. 50 hinge is *MODERN, HEAVY, DURABLE*, and has these exclusive features.

1. Springs and links are built into base. All stationary and enclosed.
2. Adjustments made from face of door —not sides.
3. Alemite grease fittings insure proper lubrication.

PATENT No. 2,521,756
PATENT No. 2,535,324

Fig. 25— Super Freezer (Overlap) Door, Left Hand Swing, Angle Iron Sill (Open View)


FOR WALL OPENING ADD 10" TO WIDTH IN CLEAR
1 3/4"
7 3/4"
WIDTH IN CLEAR
4"x6"
4"x6"
5 1/2"
A
3 1/4"
1 3/4"
9 1/2"
FOR RADIUS OF SWING ADD 16 1/2 TO WIDTH IN CLEAR
1 3/4"
A
4"x6"
9 1/2"
7 3/4"
1 3/4"
METAL CLAD DOOR BACK & CAP
1/2"x4" RUBBER GASKET SEAL
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEALS
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR
FOR WALL OPENING ADD 4" TO HEIGHT IN CLEAR
3"
STEEL ANGLES FOR CONCRETE FLOORS

"A"—Standard 5⅝"—Special jambs to order.

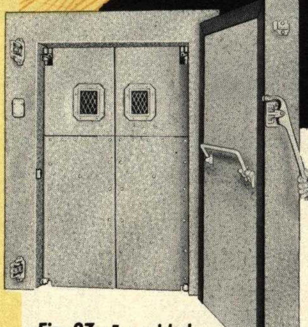


Fig. 27—For added efficiency install "Super Seal" and "Finger-Tip" Door Hardware

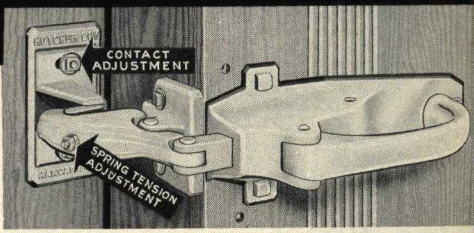

BUTCHER BOY
CONTACT ADJUSTMENT
SPRING TENSION ADJUSTMENT

Fig. 28— **PATENT No. 2,514,904**

The No. 100 BUTCHER BOY "DOUBLE-SPRING" Fastener is the only DOUBLE SPRING overlap door fastener in the cold storage door industry. The double spring feature assures extra holding power to compress the heavy type gasket ½" x 4" for improved sealing efficiency so necessary at zero and below zera temperatures. 100% operating efficiency cannot be anticipated with a single spring overlap type fastener.

GASKETS FOR SUPER FREEZER AND LOW TEMPERATURE DOORS

Unlike standard sponge rubber base gaskets, "FREEZE PROOF" gaskets are a CLOSED CELLULAR RUBBER and made of extremely soft, resilient rubber (nitrogen filled cell composition banded together by strong live rubber), waterproof, and has high insulating factor. This "FREEZE PROOF" gasket is exceptionally light weight and "air cushioned" thereby acting as a perfect "shock-absorber" and controls vibration. Since this gasket composition is of closed nitrogen filled cells, it is sanitary. No water, dust or dirt can reach beyond its surfaces. It is vermin proof and outlasts any other soft rubber materials several times over.

Standard available size for Super Freezer (Overlap) Doors—½" x 4".

For Low Temperature (Infitting) Doors—½" x 1¼".

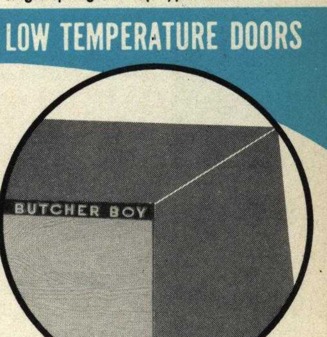

BUTCHER BOY

Fig. 29—"Freeze-Proof" Gasket.

"Butcher Boy" No. 51

AUTOMATIC ELECTRIC DEFROSTERS

(WITH THERMOSTAT)

LISTED UNDER REEXAMINATION SERVICE
UL
UNDERWRITERS' LABORATORIES, INC.

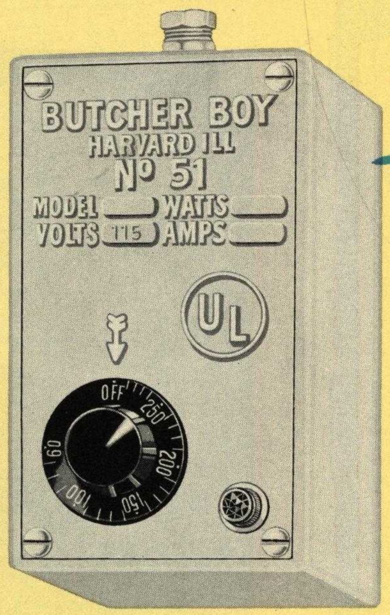
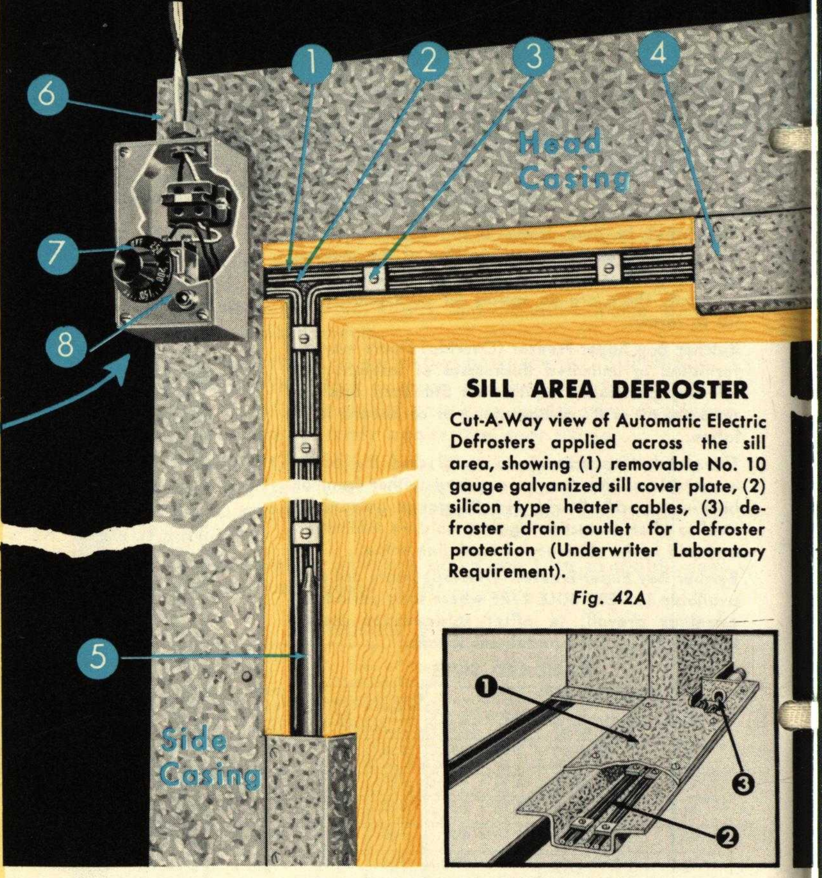

BUTCHER BOY
HARVARD ILL
No 51
MODEL
WATTS
VOLTS 115
AMPS
UL
OFF
250
200
150
100
60

Fig. 41—Sturdy cast aluminum control box containing automatic electric controls.


1
2
3
4
6
7
8
5
Head Casing
Side Casing
1
2
3

SILL AREA DEFROSTER

Cut-A-Way view of Automatic Electric Defrosters applied across the sill area, showing (1) removable No. 10 gauge galvanized sill cover plate, (2) silicon type heater cables, (3) defroster drain outlet for defroster protection (Underwriter Laboratory Requirement).

Fig. 42A

Fig. 42—Cut-away view of HEATING CABLE assembly

① **Rabbeted channels into casing.**

② **Fireproof No. 26 gauge galvanized metal lined inside channel.**

③ **Four (4) Silicon covered "heater cables" (not lead cover) held down securely by clips—approximately 20 watts to a foot. (110 volt—60 cycles).**

④ **No. 10 gauge galvanized steel cover plates—removable.**

⑤ **Capillary tube controls (on and off) thermostat.**

⑥ **Inlet for power.**

⑦ **Adjustable thermostat for range +60° to +250°F. See Fig. 41.**

⑧ **Pilot light guide for "on current" operation—Safety and Security Insurance.**

DEFROSTERS for VESTIBULE DOORS

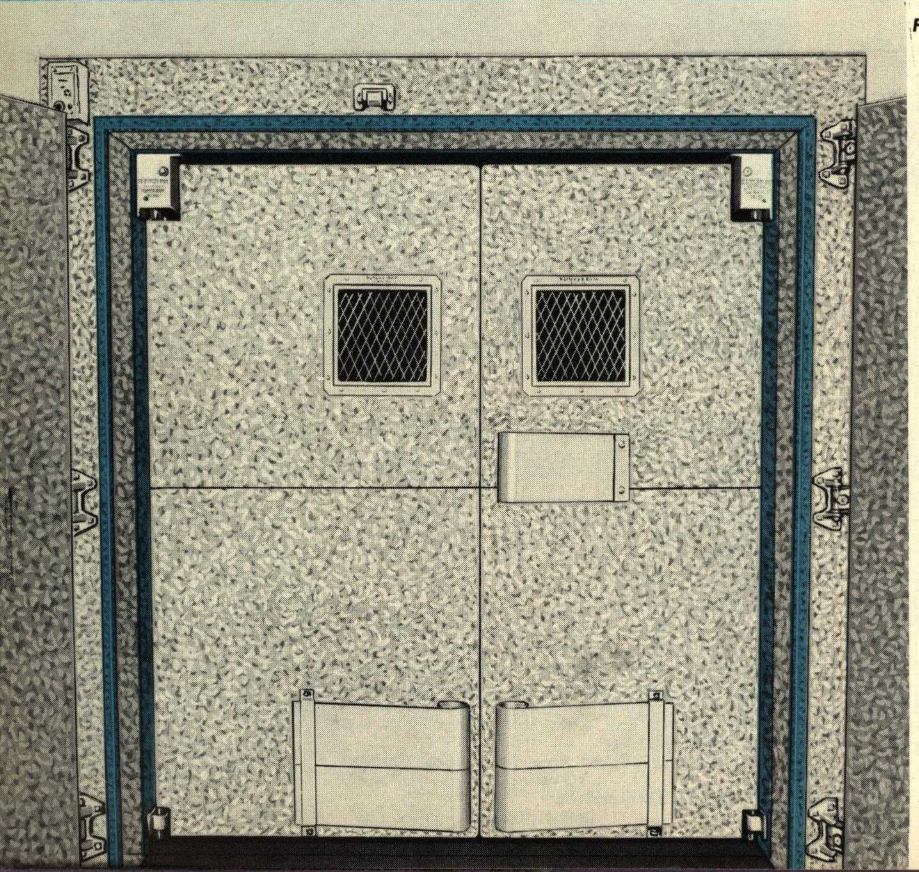
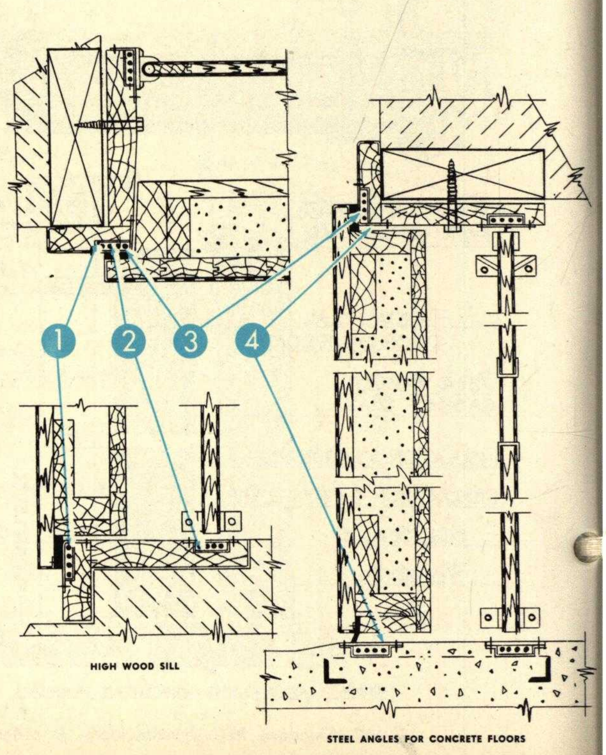


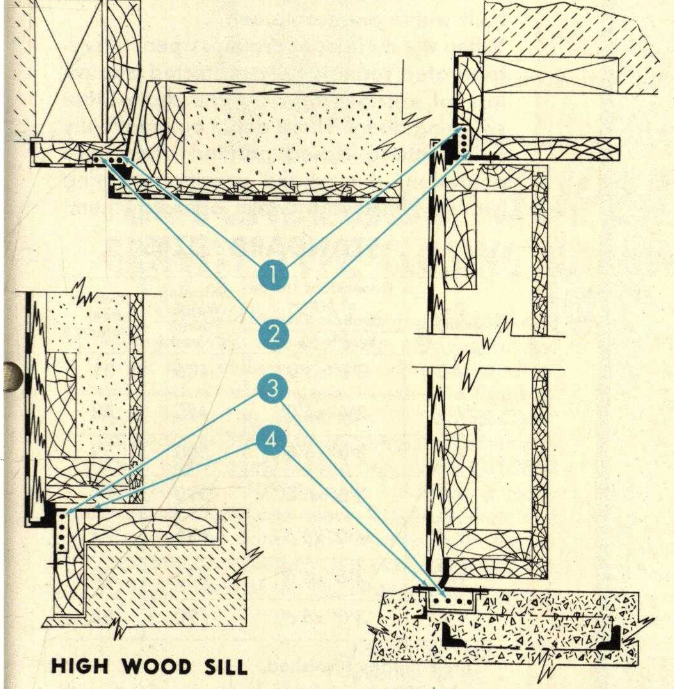
Fig. 43—*VESTIBULE TYPE* with HEATING CABLE assembly


1
2
3
4
HIGH WOOD SILL
STEEL ANGLES FOR CONCRETE FLOORS

LOW TEMPERATURE DOORS

WITH ELECTRIC Heating Cable DEFROSTERS

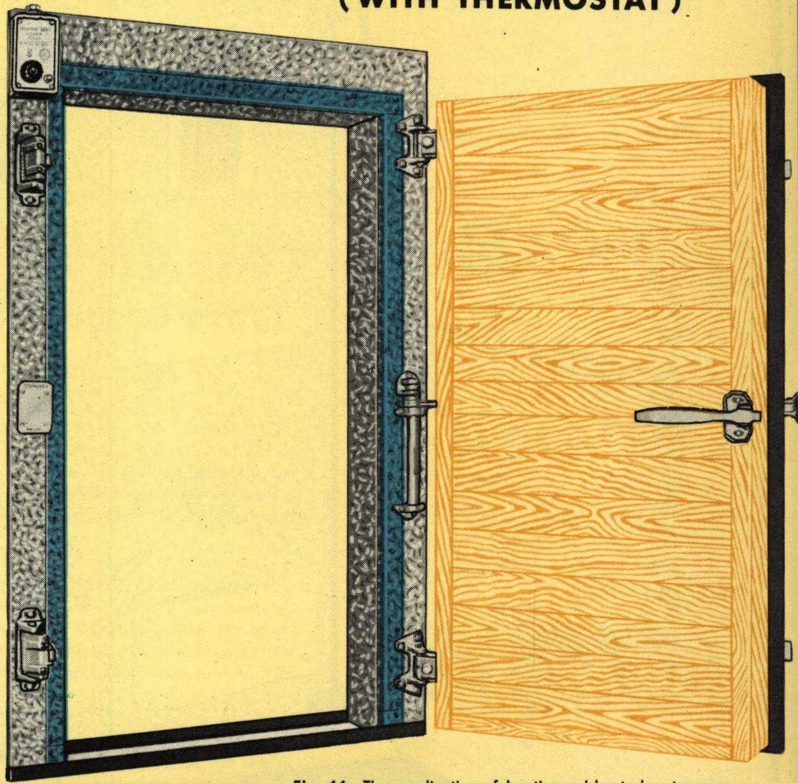
(WITH THERMOSTAT)



HIGH WOOD SILL

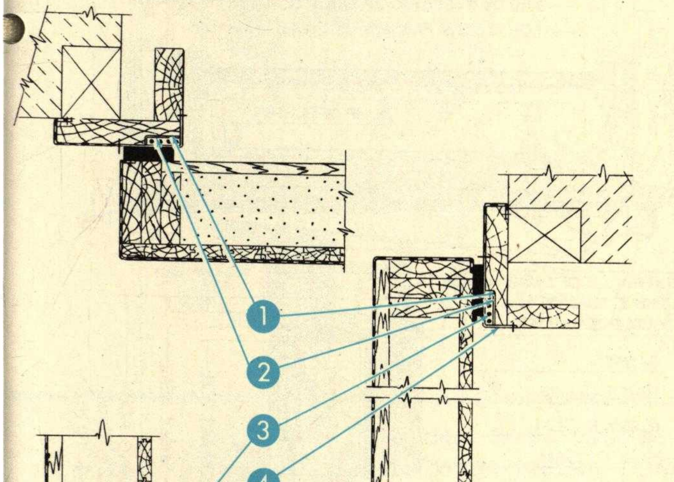
STEEL ANGLES FOR CONCRETE FLOORS

The purpose of heating cables is to prevent icing conditions at the frame and sill areas where the door gaskets make their contact. The cables which are recessed into the frame casing are electrically heated and controlled by a "calibrated thermostat" (new improved feature by Butcher Boy), adjustable above the "dew point" of the air temperature. Since the heat expended prevents condensation it thus prevents freezing conditions.



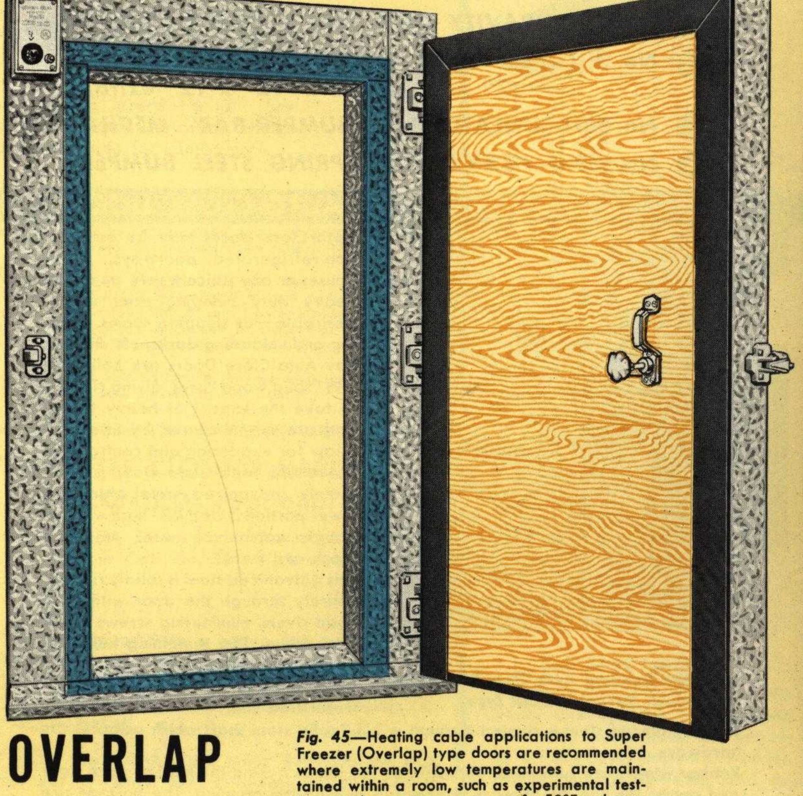
INFITTING

Fig. 44—The application of heating cables to low temperature doors is most practical where below freezing temperatures are maintained. The low temperature (infitting type) door will open and close efficiently at all times since there cannot be any "Freeze-Up" at the gasket points due to the heat expended by the heating cables. Refrigeration losses are prevented and possible damage from prying the door open is eliminated.



HIGH WOOD SILL

STEEL ANGLES FOR CONCRETE FLOORS



OVERLAP

Fig. 45—Heating cable applications to Super Freezer (Overlap) type doors are recommended where extremely low temperatures are maintained within a room, such as experimental testing at sub-zero temperatures of −50°F or lower.

VESTIBULE DOORS

TO MINIMIZE REFRIGERATION LOSS

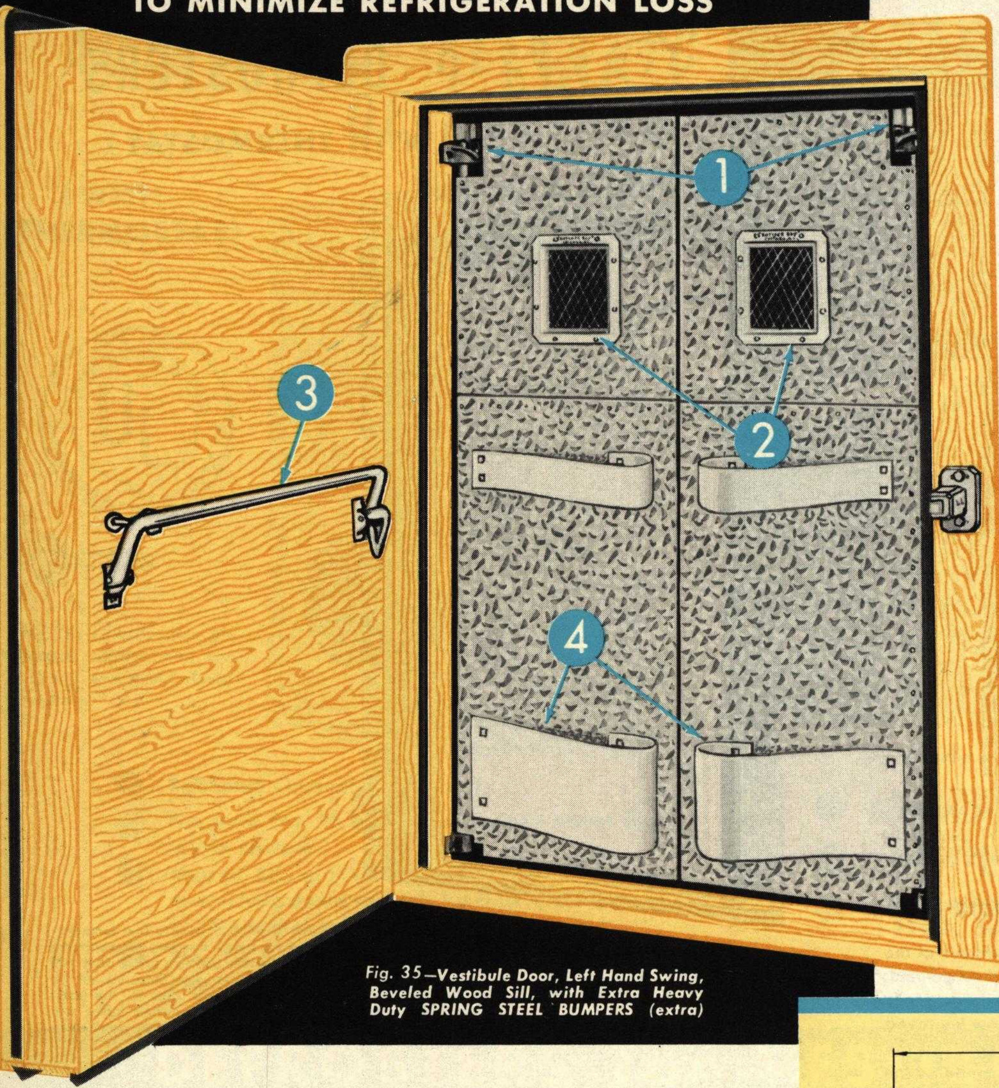


Fig. 35—Vestibule Door, Left Hand Swing, Beveled Wood Sill, with Extra Heavy Duty SPRING STEEL BUMPERS (extra)

Vestibule Doors are highly recommended where long periods of opening prevail, to offset refrigeration losses.

Vestibule Doors are a combination of Cooler, Freezer, Track, Low-Temperature, Super-Freezer (overlap) or Double Doors, equipped with double or single swing self-closing Auto-Close Doors, See Fig. 36, built within one frame unit.

When the main door remains open, the refrigerated room is fully protected against loss of refrigeration by the Auto-Close swinging doors. These doors automatically swing into a closed position after each operation, due to the gravity actuating two-way hardware which operates them.

STANDARD SIZES

Door Number	Dimensions Inside of Frame (Door in Clear) Width Height	Shipping Weight Pounds Crated ♦	Cubic Feet Crated ♦♦
V-0	3'6"x3'0"	405	31
V-1	2'6"x6'0"	455	50
V-2	3'0"x6'0"	500	55
V-3*	3'6"x6'6"	590	70
V-4*	4'0"x6'6"	635	74
V-5*	4'6"x6'6"	735	80
V-6*	5'0"x6'6"	790	86

*Three hinges furnished.

♦ Add 20% to weight shown for doors with 6" of insulation.

♦♦ Add 15% to cubic feet shown for doors with 6" of insulation.

① ***No. V-6—GRAVITY CAM TYPE CLOSING HARDWARE.***

② ***No. W-1—PEEP HOLE WINDOW FRAME (7" x 9" standard—12" x 12" extra)***

③ ***No. BB-1—UNLATCHING "BUMPER-BAR" MECHANISM.***

④ ***No. SSB-4—HEAVY DUTY SPRING STEEL BUMPERS.***

AUTO-CLOSE DOORS

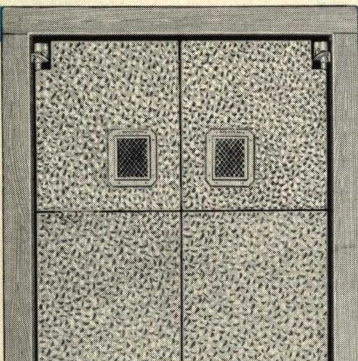


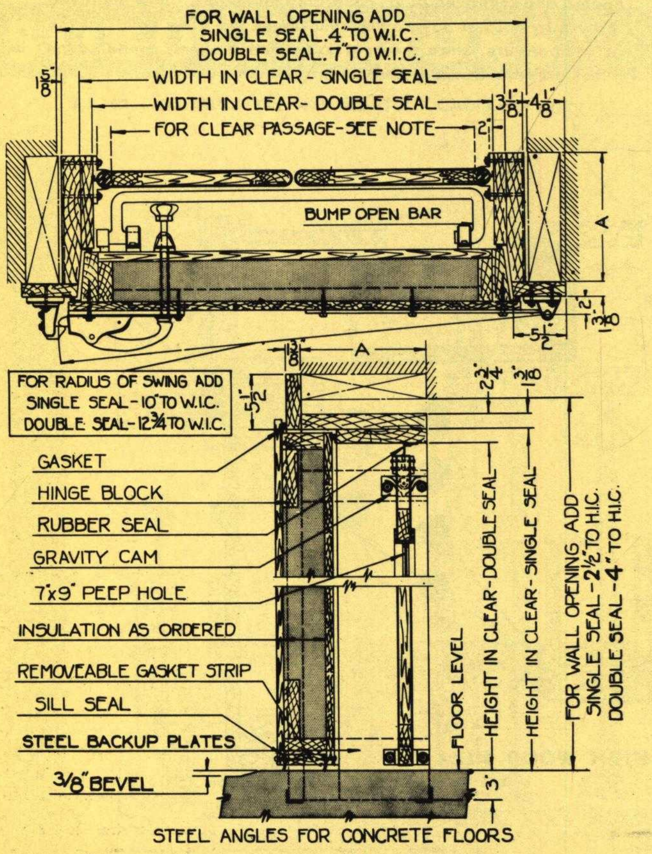
Fig. 36—Standard Auto Close Door (Double Swing) No Sill Type

Auto-Close Doors may be used for non-refrigerated doorways, warehouses or any place where an extra-heavy duty swinging door unit is desirable—as shipping rooms, loading and unloading docks, etc. Butcher Boy Auto-Close Doors are built with 1½" solid wood cores, giving rigidity to take the impact of heavy trucks, and are supplemented by inserts to allow for expansion and contraction. The entire Auto-Close Door is completely galvanized metal clad; the lower portion is clad 48" high with 14 gauge galvanized steel, to resist shock and wear.

This galvanized steel is solidly riveted entirely through the door with truss head rivets, eliminating screws which work loose. The remaining height is similarly clad with 20 gauge galvanized steel to form a complete metal clad unit.

The galvanized steel is riveted through a 1¼" solid steel shaft which actuates the hardware.

Rubber wipers are furnished full height on the jambs behind the heel of each door and across the top, to allow a reasonable seal on the opening. The bottoms are constructed to clear the sill in a closed position, and lift as they open; therefore no seal is necessary.


FOR WALL OPENING ADD
SINGLE SEAL. 4" TO W.I.C.
DOUBLE SEAL. 7" TO W.I.C.
WIDTH IN CLEAR - SINGLE SEAL
WIDTH IN CLEAR - DOUBLE SEAL
FOR CLEAR PASSAGE - SEE NOTE
1 5/8"
3 1/8"
4 1/8"
2"
BUMP OPEN BAR
A
2"
1 3/8"
5 1/2"
A
1 3/8"
FOR RADIUS OF SWING ADD
SINGLE SEAL - 10" TO W.I.C.
DOUBLE SEAL - 12¾ TO W.I.C.
5 1/2"
2 3/4"
1 3/8"
GASKET
HINGE BLOCK
RUBBER SEAL
GRAVITY CAM
7"x9" PEEP HOLE
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
STEEL BACKUP PLATES
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR - DOUBLE SEAL
HEIGHT IN CLEAR - SINGLE SEAL
FOR WALL OPENING ADD
SINGLE SEAL - 2½" TO H.I.C.
DOUBLE SEAL - 4" TO H.I.C.
3"
STEEL ANGLES FOR CONCRETE FLOORS

"A"—11½" ON 4" DOOR, 13½" ON 6" DOOR

Deeper jambs available on special order. Note—When spring steel bumpers are added to Vestibule Doors, add 4½" to above measurement.

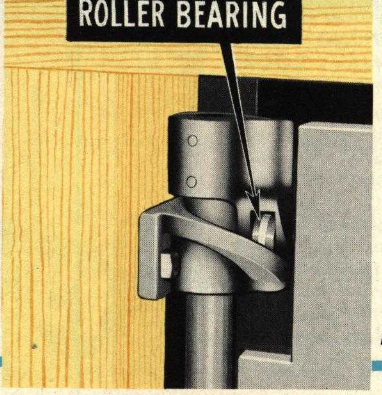


Fig. 37

No. V-6 GRAVITY CAM TYPE CLOSING HARDWARE

(Standard Equipment)

This standard two-way gravity cam hardware used on standard or average size batten doors (not recommended for large size or heavy traffic batten doors, see Super Cam No. 34 hardware below) is the basic principle of a self closing operation.

The design of this hardware lifts the doors as they swing open. The force of gravity immediately brings the doors into a closed position after each operation. NO SPRINGS.

"BUTCHER BOY" *SUPER CAM No. 34* ▶ GRAVITY TYPE CLOSING HARDWARE (Optional Extra)

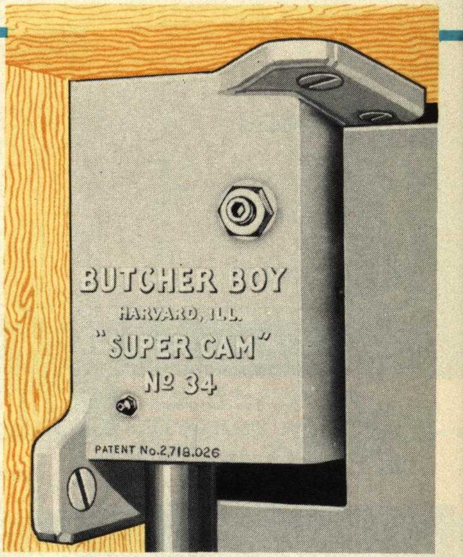


Fig. 38

The "SUPER-CAM" No. 34, newly designed and engineered for top operating efficiency of the larger sizes of Batten Doors, either as separate door units or as component parts of a Vestibule Type Door. The application of "SUPER-CAM" hardware to Batten Doors insures smoother and easier opening and closing operations. BUTCHER BOY No. 34 "SUPER-CAM" hardware is many times HEAVIER and more DURABLE than any other type of Batten Door hardware in the refrigerator door industry. It is designed to DO THE JOB regardless of the size of door units involved.

SPECIFICATIONS

1 The BUTCHER BOY No. 34 "SUPER-CAM" (See No. 2) rides on an oversized 1½" diameter roller (See No. 3) making possible utmost ease in movement of this mechanism. BOTH machined parts are cyanide hardened for extra long life.

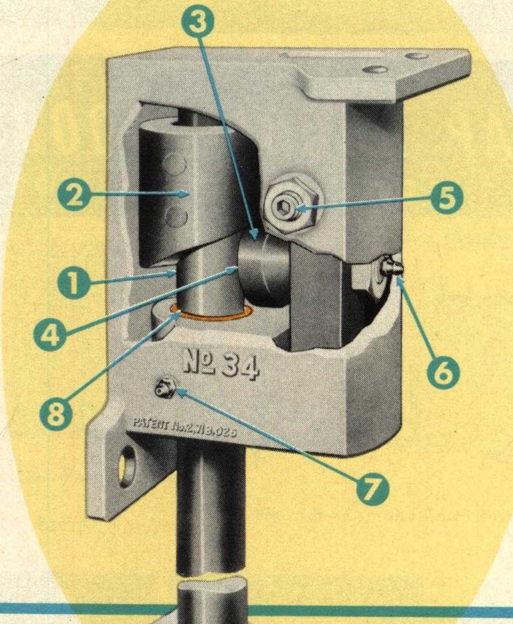
2 Oversized roller (See No. 3) creates the possibility for usage of an oversized diameter bearing surface or axle (⅞" diameter hardened steel) (See No. 4) which will carry the heaviest doors and door armor with the greatest of ease.

3 The fixed position of the oversized axle (See No. 4) and roller allows for a design which will permit direct lubrication to the roller axle (See No. 4) and the roller (See No. 3) made through the Zerk lubrication fitting. (See No. 6).

4 The development of the above type of design offers "friction-free" motion between all moving parts, increasing the ease and smoothness in operation of the BUTCHER BOY No. 34 "SUPER-CAM" Hardware, and long lasting service.

5 Solid Bronze Bushing inserts 1⅝"x2" (See No. 8) lubricated by Zerk lubrication fittings (No. 7) from either side for convenience.

Cut-a-way view of No. 34 and No. 34 SC



ADJUSTMENT AND ALIGNMENT FEATURES

1 Adjustments are made by changing the points of contact between "SUPER-CAM" (See No. 2) and oversized roller, (No. 3).

2 Simply loosen lock nuts (See No. 5) with an end wrench or crescent wrench. Use a ⅜" Allen type wrench and loosen one side of ½" set screw (See No. 5) and tighten opposite side of set screw for one direction of change of contact or movement. Opposite application will reverse direction of change in contact.

3 Most positive type of locking known. Merely snug up set screws from both sides, and lock up locking nuts tightly.

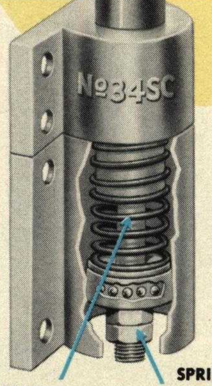


Fig. 39

No. 34 SC "SUPER CAM" GRAVITY CLOSING HARDWARE WITH SPRING COMPENSATOR CONTROL (Optional Extra)

Newly designed for use with Butcher Boy Batten Doors. Basically, the "Super Cam" No. 34 SC is the exclusive Super Cam No. 34 with a spring compensator built as an integral unit.

FEATURES

A. The Super Cam No. 34 SC, equipped with a heavy duty compensator, returns the battens immediately into a closed position after each operation. THE CLOSED POSITION OF THE BATTENS IS FIRMLY RETAINED, THEREBY ELIMINATING OPEN DOORWAYS, DRAFTS, AND RETARDING UNNECESSARY REFRIGERATION OR HEAT LOSSES.

B. Butcher Boy No. 34 SC Super Cam hardware is many times heavier and more durable than any other type of batten door hardware in the industry. This precision built mechanism is adaptable for use with heavy as well as light-weight batten doors of any type and door size.

RIGID HARDWARE INSTALLATION

(Standard Application)

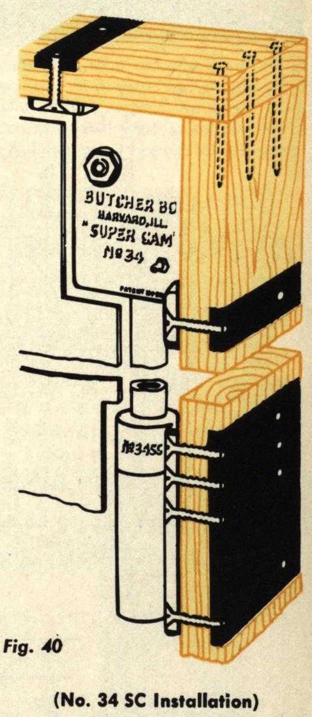


Fig. 40

(No. 34 SC Installation)

Hardware (No. V-6, No. 34, or No. 34 SC Gravity Cam Type Closing Hardware Mechanisms) are securely attached to standard wooden frame (factory furnished and assembled) by means of ½" steel back up plates, secured with ½"x2½" machine screws for a very rigid installation.

DOUBLE DOORS for Palletizing and Car Loading

INFITTING DOUBLE DOORS

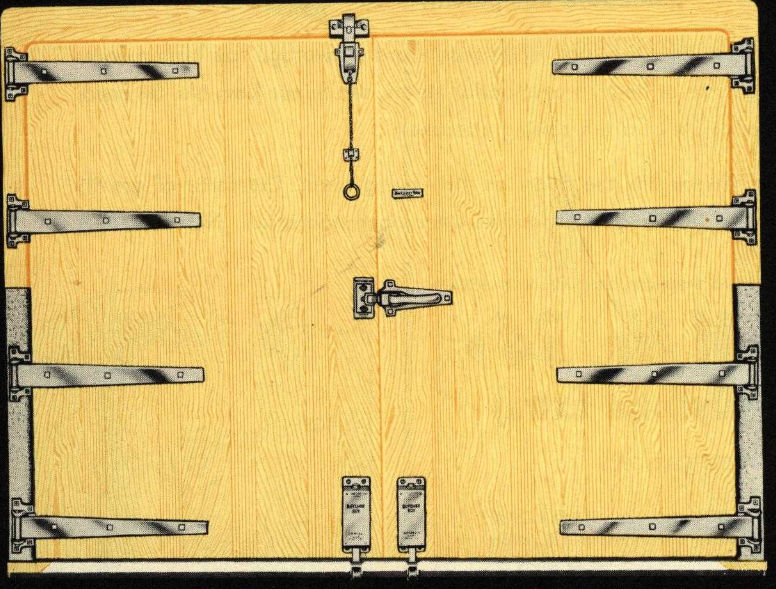


Fig. 30—Infitting Double Doors, Right Hand Door Opens First. Angle Iron Sill Butcher Boy Adjustable Spring Roller Casters at Extra Cost (See Fig. 35 below, right)

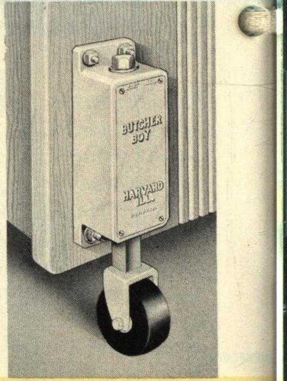
"ADJUSTABLE-SPRING" ROLLER CASTER FOR HEAVY DOORS

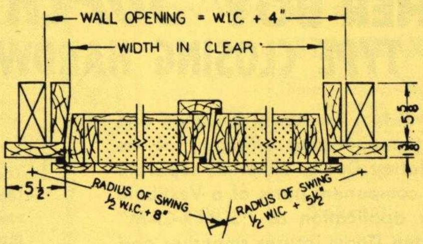
Patent No. 2,627,081

A special type of roller caster designed to carry the greater portion of the actual door weight (or load). Relieving the load results in easier opening and closing operation.

The adjustment of the two (2) ¾" jamb nuts on the shaft make possible any required spring tension, necessary to "support" any door weight from 400 lbs. to 2000 lbs. The jamb nuts make the locking of the proper tension positive.

Recommended for use where even floor pervail. ***Fig. 32***


BUTCHER BOY
HARVARD


WALL OPENING = W.I.C. + 4"
WIDTH IN CLEAR
5 5/8
1 3/8
5 1/2
RADIUS OF SWING 1/2 W.I.C. + 8"
RADIUS OF SWING 1/2 W.I.C. + 5 1/2"

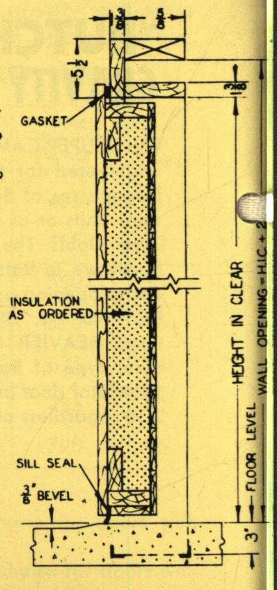
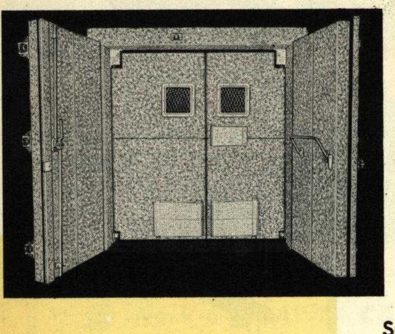

3/8
5/8
5 1/2
1 3/8
GASKET
INSULATION AS ORDERED
SILL SEAL
3/8" BEVEL
3'
HEIGHT IN CLEAR
FLOOR LEVEL
WALL OPENING = H.I.C. + 2

***Fig. 33*—Butcher Boy Low-Temperature Infitting or Super-Freezer (overlap) doors are available as VESTIBULE TYPE where long periods of opening prevail to offset refrigeration losses.**



DOUBLE DOORS

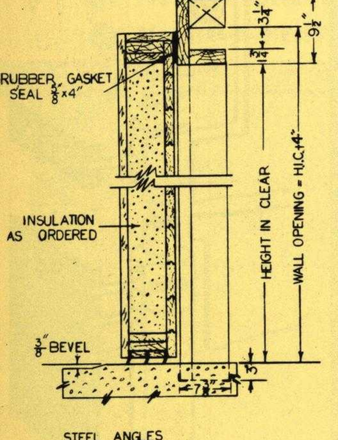
Butcher Boy Double Doors are a combination of two single doors, Standard, Track, Vestibule, Low Temperature or Super Freezer (Overlap) Type hung into a single frame.

These types of doors are most commonly used where extra large openings are desirable, such as car loading docks, elevator shafts, palletizing, or experimental testing rooms.

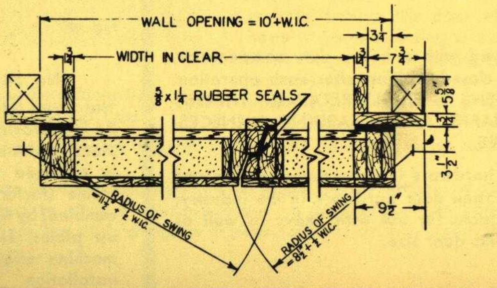
Specifications for double doors are generally the same as for single doors, as they are furnished with any of the four (4) types of sills, insulation thicknesses as required, with standard Butcher Boy hardware (extra top fastener on second door) and applicable gaskets. Double doors do not have a center obstructing post, which would defeat the desired opening advantage.

Unless otherwise specified, the right hand door opens first, and is equipped with the inside release push rod.

Standard sizes are 6'x0" x 6'6" and 8'x0" x 6'6". Special sizes will be built to meet your requirements.

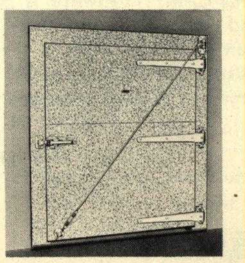

3/4"
5 5/8"
3 1/4"
9 1/2"
1 3/4
RUBBER GASKET SEAL 5/8 x4"
INSULATION AS ORDERED
HEIGHT IN CLEAR
WALL OPENING = H.I.C.+4"
3/8" BEVEL
3"
7 3/8"

STEEL ANGLES
FOR CONCRETE FLOOR


WALL OPENING = 10"+W.I.C.
3 1/4
WIDTH IN CLEAR
1 3/4
7 3/4
5/8 x 1 1/4 RUBBER SEALS
5"
5 5/8
3 1/4
3 1/2"
9 1/2"
RADIUS OF SWING = 11 1/2" + 1/2 W.I.C.
RADIUS OF SWING = 8 1/2" + 1/2 W.I.C.

ACCESSORY FOR INFITTING DOORS

***Fig. 31*—"Adjustable tie rods" for heavy duty doors, recommended for use where *uneven floor levels* prevail, to support and keep doors in alignment for continuous and easy operation.**



OVERLAP DOUBLE DOORS

FOR SUB-ZERO WORK

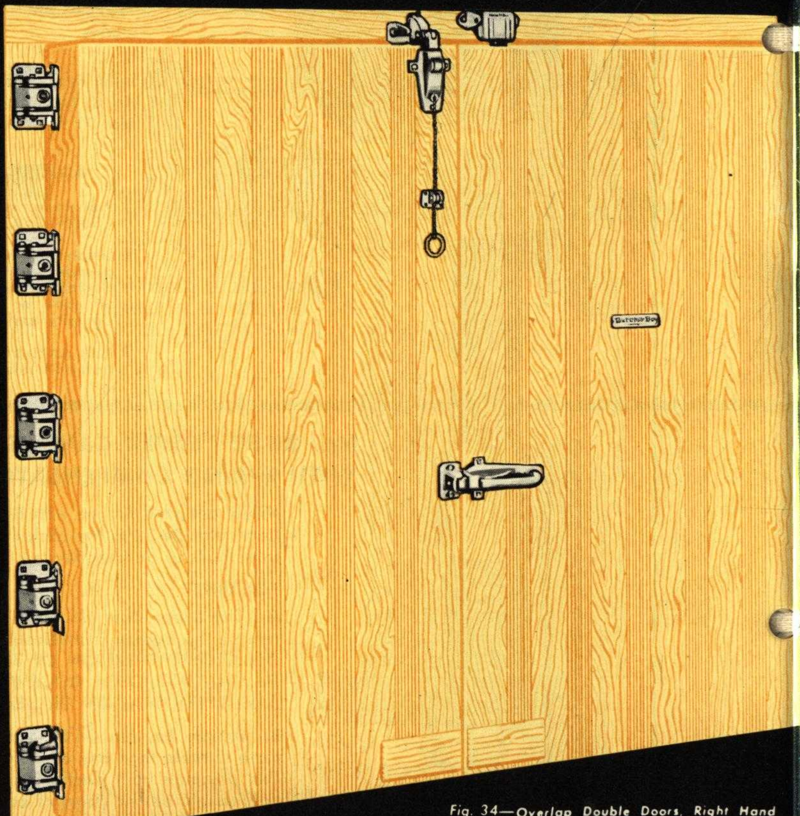


Fig. 34—Overlap Double Doors, Right Hand Door Opens First, Angle Iron Sill

"BUTCHER BOY" *Manually Operated* OVERHEAD DOORS

SPECIALLY designed offset (overlap type) insulated doors, for installation at loading docks of meat packing plants or at any moderately refrigerated areas. Other factors which may dictate their use is where the spacing problem will not permit the use of swinging type or horizontal sliding door applications.

Prints and specifications available upon request.

Butcher Boy overhead type doors are of sectional design. For instance, a door for a 7′0″ high opening will consist of three (3) sections, each approximately 2′4″ high. Additional sections of approximately same dimensions comprise overhead doors for larger openings as required.

The sectional overhead doors are properly counter-balanced, easily raised to a horizontal overhead position, leaving a clear opening for access to and from trucks.

Doors are furnished in varying thicknesses of insulation (2″, 3″, or 4″ thicknesses are standard), fully gasketed (each section) for necessary sealing of the opening, complete with hinges, cam rollers, track and angles, and counter-balancing spring mechanisms. The doors are metal covered with No. 26 gauge galvanized steel as a standard application.

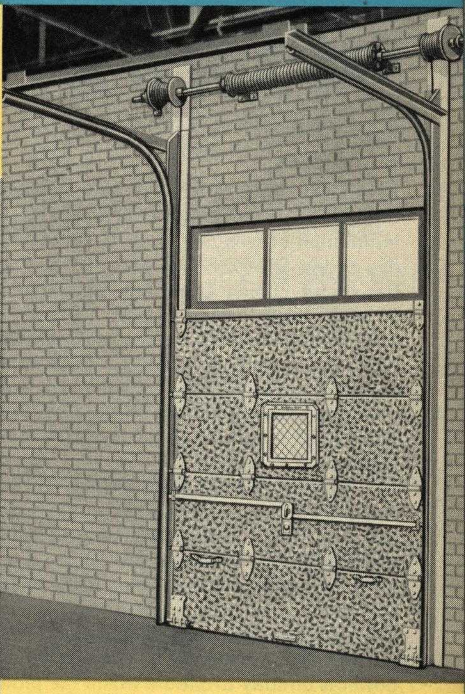


Fig. 34-A—Inside View

Glazed vision peepholes installed into doors (7″x9″ or 12″x12″) are optional extras.

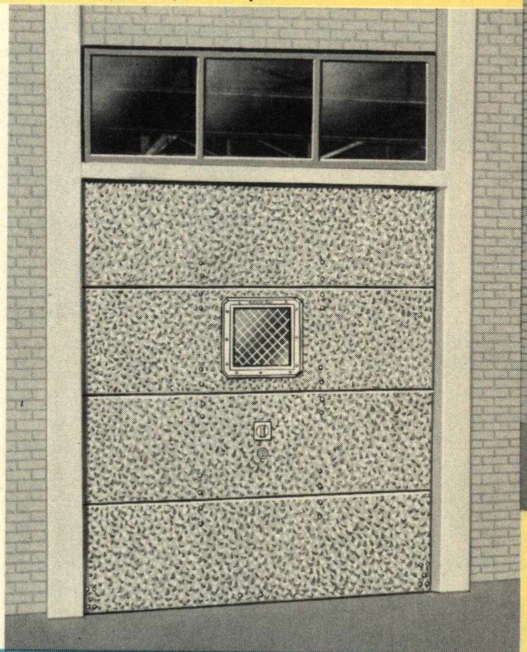


Fig. 34—Outside View

SPECIAL APPLICATIONS and SLIDING DOORS

SPECIAL APPLICATIONS OF BUTCHER BOY DOORS

Extensive production facilities make it possible for us to build any special type of cold storage door unit to meet your requirements. Refrigerator Doors may be specially designed for hospitals, hotels, institutions, kitchens, galleys, stores, laboratories or any conceivable application where food products are to be kept under refrigerated temperatures. These doors are available in any special wood or metal finishes (hardware to match).

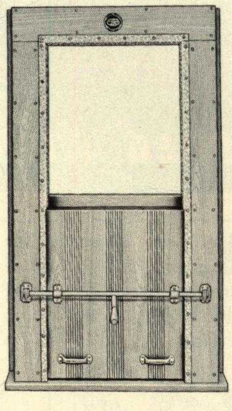


Fig. 48—Vertical Sliding Door

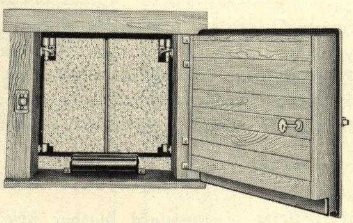


Fig. 52—Can and Crate Passing Door

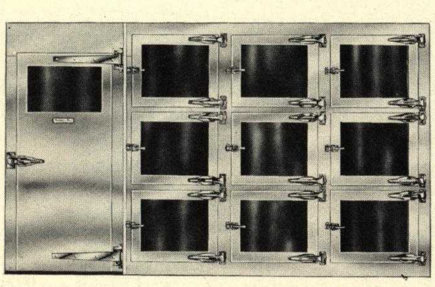


Fig. 49—Stainless Steel Refrigerator Front

FLEXIBLE RUBBER CURTAINS for PASS DOORS

Stripped rubber curtains are particularly suitable for packages or commodities that do not have sufficient weight to pass through regular auto-close batten doors. The rubber curtains (usually consisting of two layers), are stripped and staggered so that one layer overlaps the other. Composition of rubber enables curtains to remain flexible at extremely low temperatures.

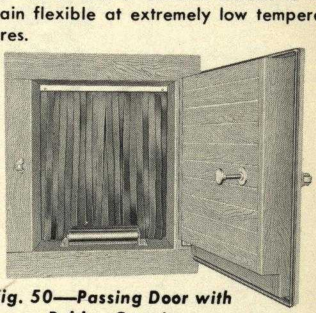
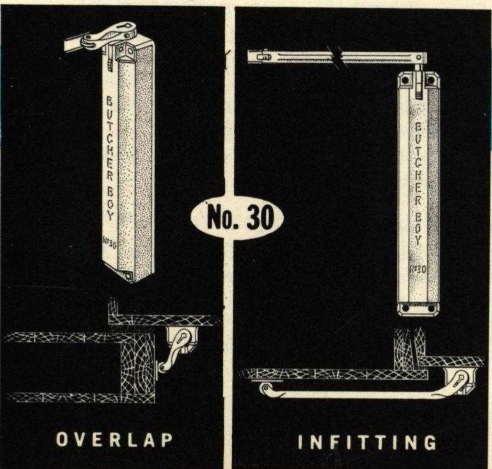


Fig. 50—Passing Door with Rubber Curtain



No. 30 and No. 36 AUTOMATIC DOOR CLOSERS

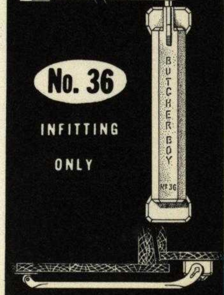
The BUTCHER BOY No. 30 (large size) and No. 36 (small size) **Door Closers** automatically return the door to a closed position after each operation. These door closers are of **heavy duty** design, can be made **instantly** non-operative, and again be placed readily into operation.

For doors 4′-0″ and wider use the No. 30 Door Closer (also recommended for **all** overlap doors).

To in-activate door closer, merely depress the heavy duty steel "holding pawl" into desired recess (30, 90 or 120 degree angle door opening) of the "tension adjusting cog."

To activate door closer, push door slightly past the setting used to in-activate the closer—closer is **immediately** under pressure and operating.

Specify whether for in-fitting type, or Super Freezer (overlap) doors, right or left hand swing.



''BUTCHER BOY'' HORIZONTAL

MANUALLY OPERATED (Standard)

BUTCHER BOY Horizontal Sliding Doors are recommended for use at locations where installation of swinging doors is impractical due to the SPACE FACTORS.

Horizontal Sliding Doors are available in three distinct types.

MANUAL OPERATION—The most popular type, where traffic through the door opening is very limited, also at moderate temperature areas, (+55 to +25 F.) where loss of refrigeration is not an important factor.

AIR POWER OPERATION—Highly recommended for heavy continuous traffic, especially at freezer areas, combining speed in movement of commodities through the doorways and holding refrigeration losses to the absolute minimum.

The use of air operated sliding doors may be specially economical if compressed air power is already available within the plant, thereby eliminating the necessity of purchasing additional capital equipment for air operation.

ELECTRIC OPERATION—The mechanically operated door specially designed for freezer areas, combining speed of operation, safety, and efficient performance in one self contained unit. Electric sliding doors open and close quickly, (2½ ft. of door opening per second) holding refrigeration losses to a minimum. See pages 18 and 19 for complete data on Butcher Boy Electro Safety Slide horizontal sliding doors.

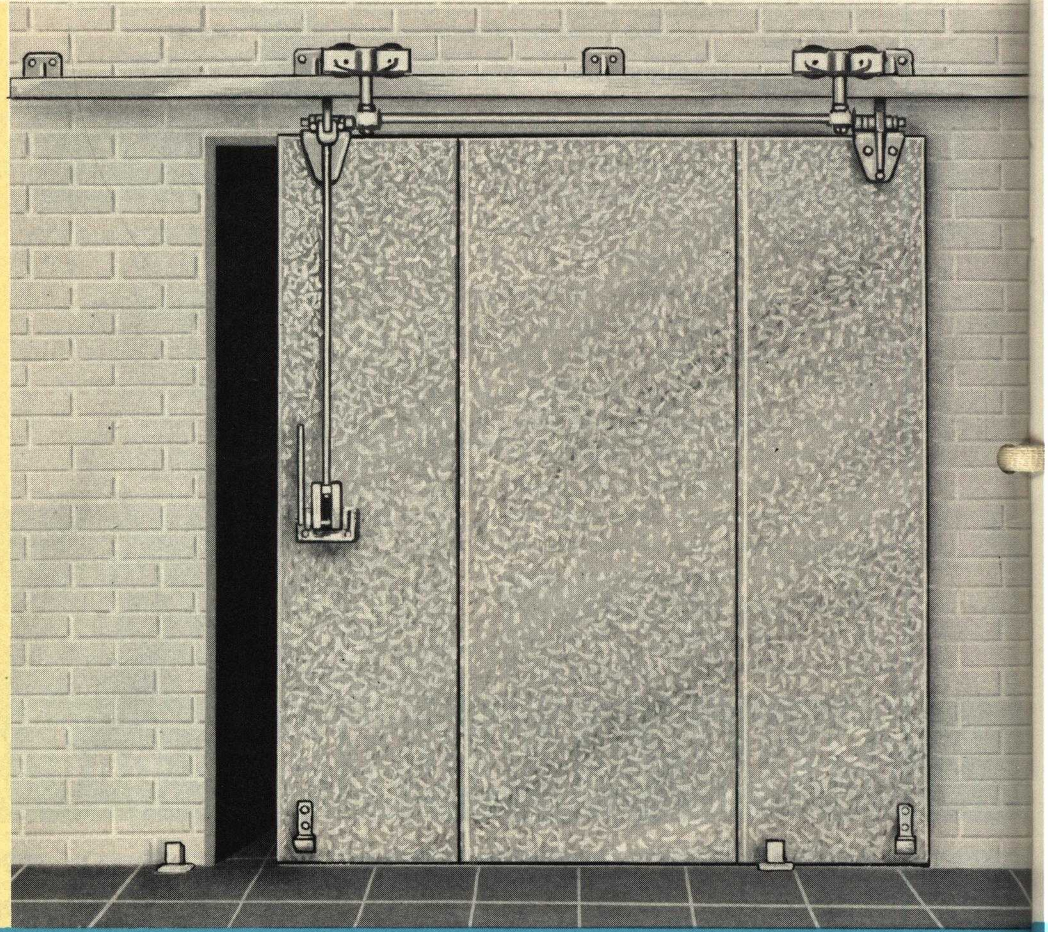


Fig. 5

AIR POWER OPERATED—*Equipped with*

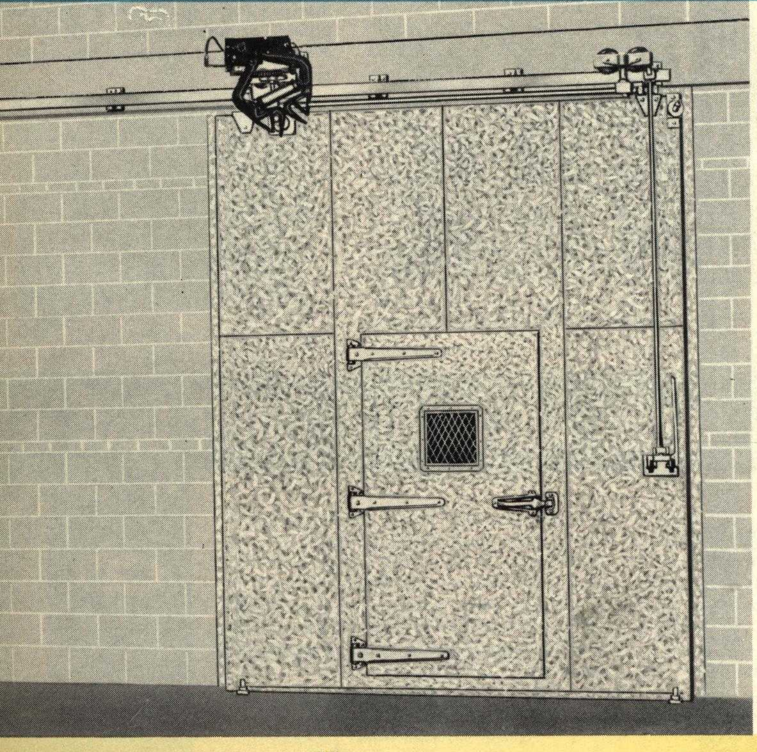


Fig. 6

Air Power Operated horizontal sliding doors are designed for heavy traffic doorways, for speed in opening and closing operations, also to save refrigeration losses at freezer areas. They are engineered to permit opening, entering, and closing of the doors in less than 9 seconds, regardless of door size.

SPECIFICATIONS

CONSTRUCTION	Standard Butcher Boy X-Type door construction. (Maximum strength and insulation fill).
INSULATION	In accordance to specifications selected by the Architect and/or owner.
METAL COVERING	No. 26 gauge galvanized steel, entirely metal covered, unless otherwise specified. This feature increases insulating efficiency, plus the fire protection purpose.
HARDWARE	Automatic Sealing Assembly—See page 17 for details. Exclusively engineered by Butcher Boy.
GASKETS	Butcher Boy ½"x4" heavy duty wool felt, applied with special treatment.
OPTIONAL EXTRAS	1. Electric Heating Defrosters. 2. Safety Feature — Standard refrigerator door built into the horizontal sliding door. 3. Vestibule Type Feature.

See optional extras as detailed above (for manually operated doors).

SLIDING DOORS

SPECIFICATIONS Manually Operated Sliding Doors

CONSTRUCTION—Standard Butcher Boy X-Type door construction throughout including "X-Type" steel diagonal bracing for strength and maximum insulation fill.

INSULATION—In accordance with specifications selected by Architect and/or owner, accurately fitted into moisture proof cells and sealed with asphalt cement. Frost proof, water resisting paper placed on each side of insulation to form highest type of moisture proofing.

METAL COVERING—The metal clad feature increases insulating efficiency and also serves for fire protection purposes. All Butcher Boy horizontal sliding doors are metal covered with No. 26 gauge galvanized sheet steel unless otherwise specified.

HARDWARE—DURABLE-MODERN-EXCLUSIVELY ENGINEERED BY BUTCHER BOY from field experience.

1. ON and OFF Cam Action with leverage provides *EXTRA SEALING PROVISION* for night locking and stand-by periods.
2. Solid Steel Rollers machined to tolerances and cyanide hardened for *LONG LIFE.*
3. Roller Bearing Inserts with Zerk fittings for *PROPER LUBRICATION.*
4. Horizontal and Lateral Adjustments for *EASY and SMOOTH operation regardless* of the size of doors.
5. Built In Adjustable Stops for *SAFETY FACTORS.*

GASKETS—½"x4" Heavy Duty Wool Felt, cemented and secured with non ferrous "never stain" aluminum drive screws. Extra treated for low temperature work.

DOOR SIZES AVAILABLE—3'0" wide and wider—7'0" high or higher as required.

OPTIONAL EXTRAS—

1. Electric Heating Defrosters—built into horizontal sliding door frames for low temperature purposes, to prevent gasket freeze-up.
2. Safety Feature—a standard type refrigerator door (See Figure 00) can be built into the horizontal sliding door for escape purposes, also for minimizing refrigeration losses at sub zero temperatures.
3. Vestibule Type Feature—double swinging batten doors can be built into common frame with the insulated sliding door. This feature recommended for heavy traffic openings.
4. Gear Box Attachment—a worm and spiral gear of special design to minimize the "lift" effort in the opening and closing of extra large size horizontal sliding doors. "Finger Tip" touch through detachable crank handles from either side of the door minimizes the ON and OFF cam action of the leverage linkage which also provides the EXTRA SEALING PROVISION for all Butcher Boy Horizontal Sliding Doors.
5. JAMBS of any depths to order.

New Automatic Sealing Assembly

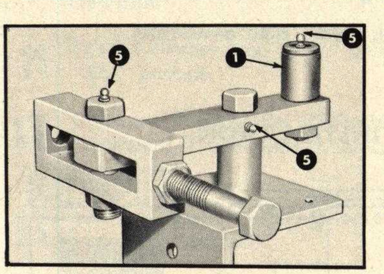


Fig. 7

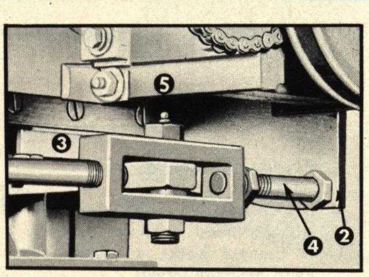


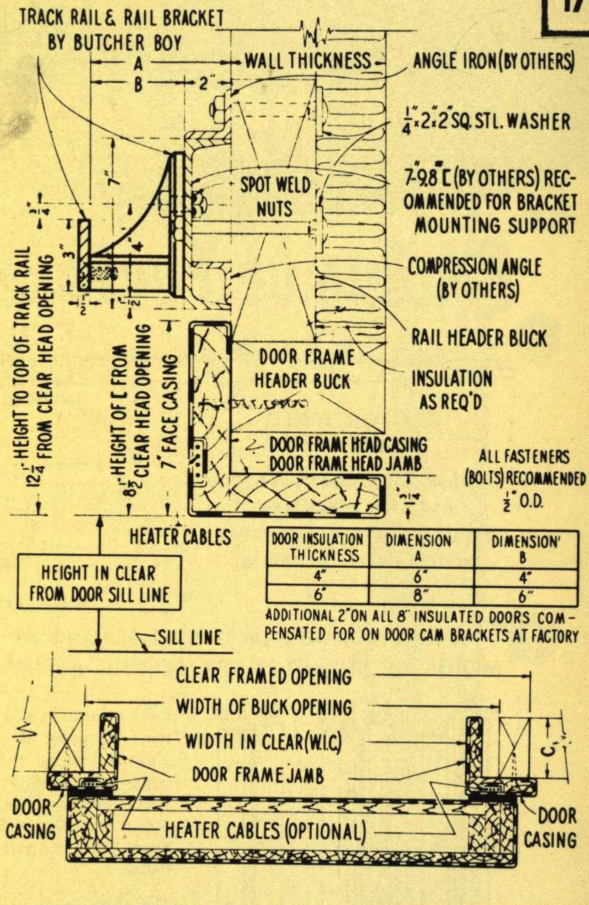
Fig. 8

AUTOMATIC SEALING ASSEMBLY—EXCLUSIVELY A BUTCHER BOY FEATURE

Lever mounted rollers (1) travel to point of contact with rail stop (2), then engage roller wedge blocks (3) which create instantaneous automatic sealing of door gaskets against the frame. Lateral adjustment by means of screw type fitting (4). Zerk fittings for proper lubrication (5).

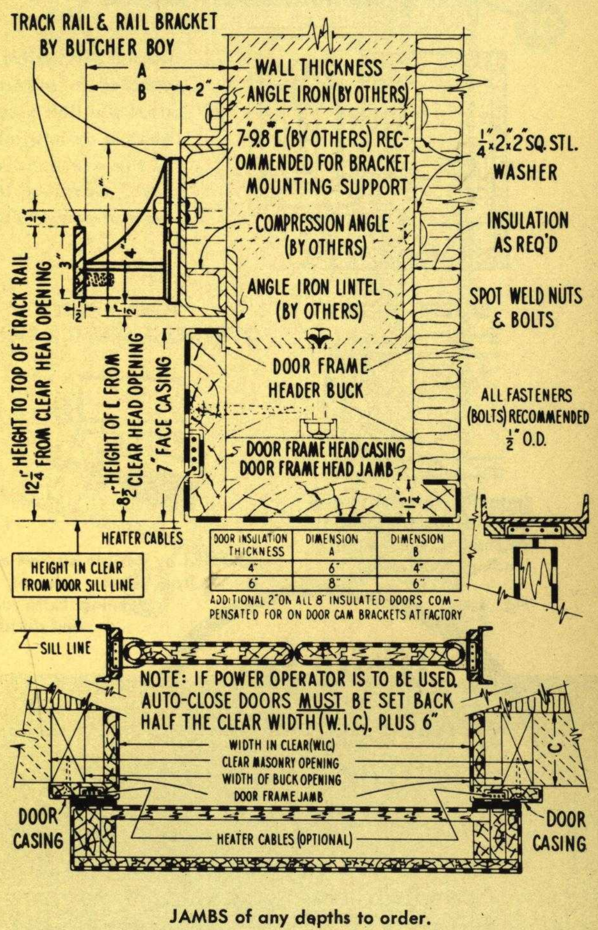
Automatic sealing at sill areas is accomplished by the pre-determined decline of the door sliding into closed position. HORIZONTAL and VERTICAL adjustment by means of screw type fittings.

Gasket seal pressure adjustments in ALL THREE (3) MAJOR PLANES—VERTICAL, HORIZONTAL, LATERAL.


TRACK RAIL & RAIL BRACKET BY BUTCHER BOY
A
B
2"
WALL THICKNESS
ANGLE IRON (BY OTHERS)
¼"x2"x2" SQ. STL. WASHER
SPOT WELD NUTS
7"-9.8# ⊏ (BY OTHERS) RECOMMENDED FOR BRACKET MOUNTING SUPPORT
COMPRESSION ANGLE (BY OTHERS)
RAIL HEADER BUCK
DOOR FRAME HEADER BUCK
INSULATION AS REQ'D
DOOR FRAME HEAD CASING
DOOR FRAME HEAD JAMB
ALL FASTENERS (BOLTS) RECOMMENDED ½" O.D.
7"
¾"
3"
4"
½"
1½"
½"
12¼" HEIGHT TO TOP OF TRACK RAIL FROM CLEAR HEAD OPENING
8½" HEIGHT OF ⊏ FROM CLEAR HEAD OPENING
7" FACE CASING
HEATER CABLES
HEIGHT IN CLEAR FROM DOOR SILL LINE
SILL LINE
ADDITIONAL 2" ON ALL 8" INSULATED DOORS COMPENSATED FOR ON DOOR CAM BRACKETS AT FACTORY
CLEAR FRAMED OPENING
WIDTH OF BUCK OPENING
WIDTH IN CLEAR (W.I.C.)
DOOR FRAME JAMB
DOOR CASING
HEATER CABLES (OPTIONAL)
DOOR CASING
C

DOOR INSULATION THICKNESS	DIMENSION A	DIMENSION B
4"	6"	4"
6"	8"	6"

PROVISIONS SHOWN are for STUD WALL INSTALLATION


TRACK RAIL & RAIL BRACKET BY BUTCHER BOY
A
B
2"
WALL THICKNESS
ANGLE IRON (BY OTHERS)
7"-9.8# ⊏ (BY OTHERS) RECOMMENDED FOR BRACKET MOUNTING SUPPORT
¼"x2"x2" SQ. STL. WASHER
COMPRESSION ANGLE (BY OTHERS)
INSULATION AS REQ'D
ANGLE IRON LINTEL (BY OTHERS)
SPOT WELD NUTS & BOLTS
DOOR FRAME HEADER BUCK
ALL FASTENERS (BOLTS) RECOMMENDED ½" O.D.
DOOR FRAME HEAD CASING
DOOR FRAME HEAD JAMB
7"
¾"
3"
4"
½"
½"
12¼" HEIGHT TO TOP OF TRACK RAIL FROM CLEAR HEAD OPENING
8½" HEIGHT OF ⊏ FROM CLEAR HEAD OPENING
7" FACE CASING
HEATER CABLES
HEIGHT IN CLEAR FROM DOOR SILL LINE
ADDITIONAL 2" ON ALL 8" INSULATED DOORS COMPENSATED FOR ON DOOR CAM BRACKETS AT FACTORY
SILL LINE
NOTE: IF POWER OPERATOR IS TO BE USED, AUTO-CLOSE DOORS MUST BE SET BACK HALF THE CLEAR WIDTH (W.I.C.), PLUS 6"
WIDTH IN CLEAR (W.I.C.)
CLEAR MASONRY OPENING
WIDTH OF BUCK OPENING
DOOR FRAME JAMB
DOOR CASING
HEATER CABLES (OPTIONAL)
DOOR CASING
C

DOOR INSULATION THICKNESS	DIMENSION A	DIMENSION B
4"	6"	4"
6"	8"	6"

JAMBS of any depths to order.

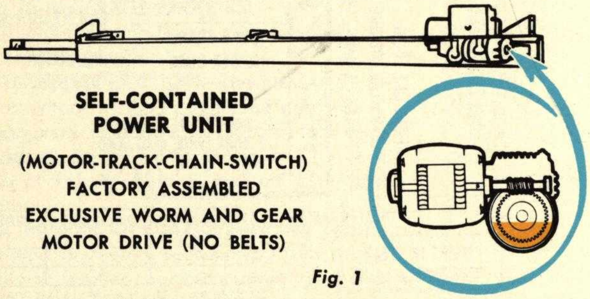
PROVISIONS for CONCRETE BLOCK WALL INSTALLATION

"Butcher Boy"

Since 1885

Electro SAFETY-SLIDE

Exclusive Features!

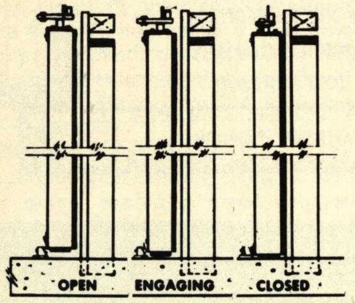


SELF-CONTAINED POWER UNIT

(MOTOR-TRACK-CHAIN-SWITCH)
FACTORY ASSEMBLED
EXCLUSIVE WORM AND GEAR
MOTOR DRIVE (NO BELTS)

Fig. 1

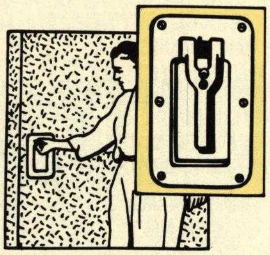
A NEW CONCEPT OF GASKET SEALING BY MEANS OF AN AUTOMATIC SEALING ASSEMBLY



Lever mounted rollers travel to point of contact with rail stop, then engage roller wedge blocks which create instantaneous automatic sealing of door gaskets against the frame.

Fig. 2

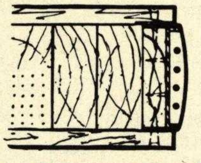
MANUAL SAFETY RELEASE



Consists of a flexible cable attached to a hardened steel pin link assembly which is an integral part of the overhead chain drive. Operable in the event of power failure.

Fig. 3

SAFETY EDGE



Instantly reverses travel of door upon contact. Applied to full height of leading door edge.

Fig. 4

HEAVY DUTY OVERHEAD SERVICE SWITCH

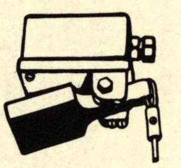


Fig. 5

Actuated by flexible aircraft cables from either side of door opening. Extra rugged and durable.

FEATURING **STRUCTURAL SIMPLICITY**

- **MECHANICALLY SOUND**
- **COMBINED "SPEED AND SAFETY"**
- **EXCLUSIVE AUTOMATIC SEALING**
- **SIMPLIFIED INSTALLATION**

"ELECTRO" SAFETY SLIDING DOORS have been primarily designed for freezer and cooler installations, also where swinging doors are impractical, due to the space factors. Butcher Boy "Electro" Safety Sliding Doors are available in varying thicknesses of selected insulation, dependent upon the architect's recommendations and usage in cooler or freezer areas. Cooler doors with 4" of insulation, Freezer doors with 6" of insulation.

AVAILABLE TYPES

SINGLE HORIZONTAL SLIDING DOOR COMPLETE WITH FRAME. This is the preferred design because "field" experience dictates this preference. The following predominant advantages of single horizontal sliding doors should be considered.

1. Complete assurance of an airtight seal when the door is in a closed position since the installation of gaskets is LIMITED TO THE PERIPHERY of the door only.
2. Gasket surfaces are not exposed to truck contacts; hence they cannot be torn from the door, eliminating the possibility of destroying the "vital" seal between the door and frame.
3. Single sliding doors open and close quickly (2½ feet of door opening per second).

Bi-Parting Horizontal Sliding Doors also available.

SIMPLIFIED INSTALLATION

1. Provide substantial rough bucks.
2. Secure frame to wood bucks with flat head wood screws. If channel bucks, use flat head machine screws.
3. Overhead rail channel secured to walls with ½" machine bolts, bolted through the wall.
4. Door placed on track rail, subject to available adjustments, ready for sliding operation.

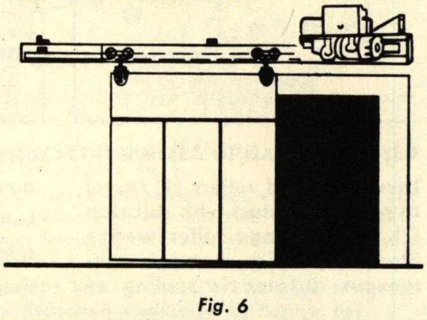
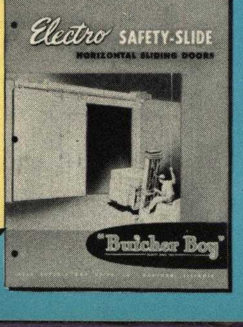


Fig. 6

Write for

SPECIAL 8-PAGE BULLETIN No. GP-20
For complete Specifications



Electro SAFETY-SLIDE
HORIZONTAL SLIDING DOORS
"Butcher Boy"

SPECIFY WHEN ORDERING "ELECTRO" SAFETY SLIDING DOORS

DOOR SIZE

Width and Height. Standard sizes are 6'0", 7'0", 8'0" widths by any required door height.

DOOR TYPE

COOLER (4" selected insulation).
FREEZER (6" selected insulation).

ELECTRIC CURRENT

1 Phase 115/230 V 60 Cycle or 3 Phase 208/220/440 V 60 Cycle.

DOOR SLIDE

Right or Left Slide.

OPTIONAL EQUIPMENT AT EXTRA COST

1. Heavier gauge metal protections on doors and/or frames other than No. 26 gauge galvanized iron.
2. Padlocking Safety Provision.
3. No. 51 Electric Defrosters for 4" cooler doors.
4. Waterproof motor assembly.

HORIZONTAL DOORS

14 OUTSTANDING FEATURES

1. Overhead chain drive "Idler Assembly Adjustment".
2. Compact electric power operator assembly. Exclusive self-contained motor drive—no belts. Heavy-duty, disc type brake for positive no-coast control.
3. Heavy malleable iron Hanger Brackets.
4. Hyatt roller bearing Door Bracket Assembly, zerk lubricated, (concealed, arrow shows approximate locations).
5. Manual "Safety Release" (in event of power failure).
6. Automatic Sealing Assembly (cyanide hardened working parts, zerk lubricated).
7. No. 51 Automatic Electric Defrosters with "adjustable" thermostat.
8. Concealed electric systems—only *ONE* hanging power line.
9. Safety Edge—Instant Reverse Action upon contact.
10. Complete Frame (casing and jamb) metal clad No. 26 gauge galvanized iron.
11. Special Butcher Boy "SEAL" and "SILL' gaskets.
12. Defroster Drain Outlet (Defroster Protection) Underwriters Laboratory Requirement.
13. Manual "Interior Safety Release" (exterior illustrated).
14. "Roller-Type" Floor Wedges.

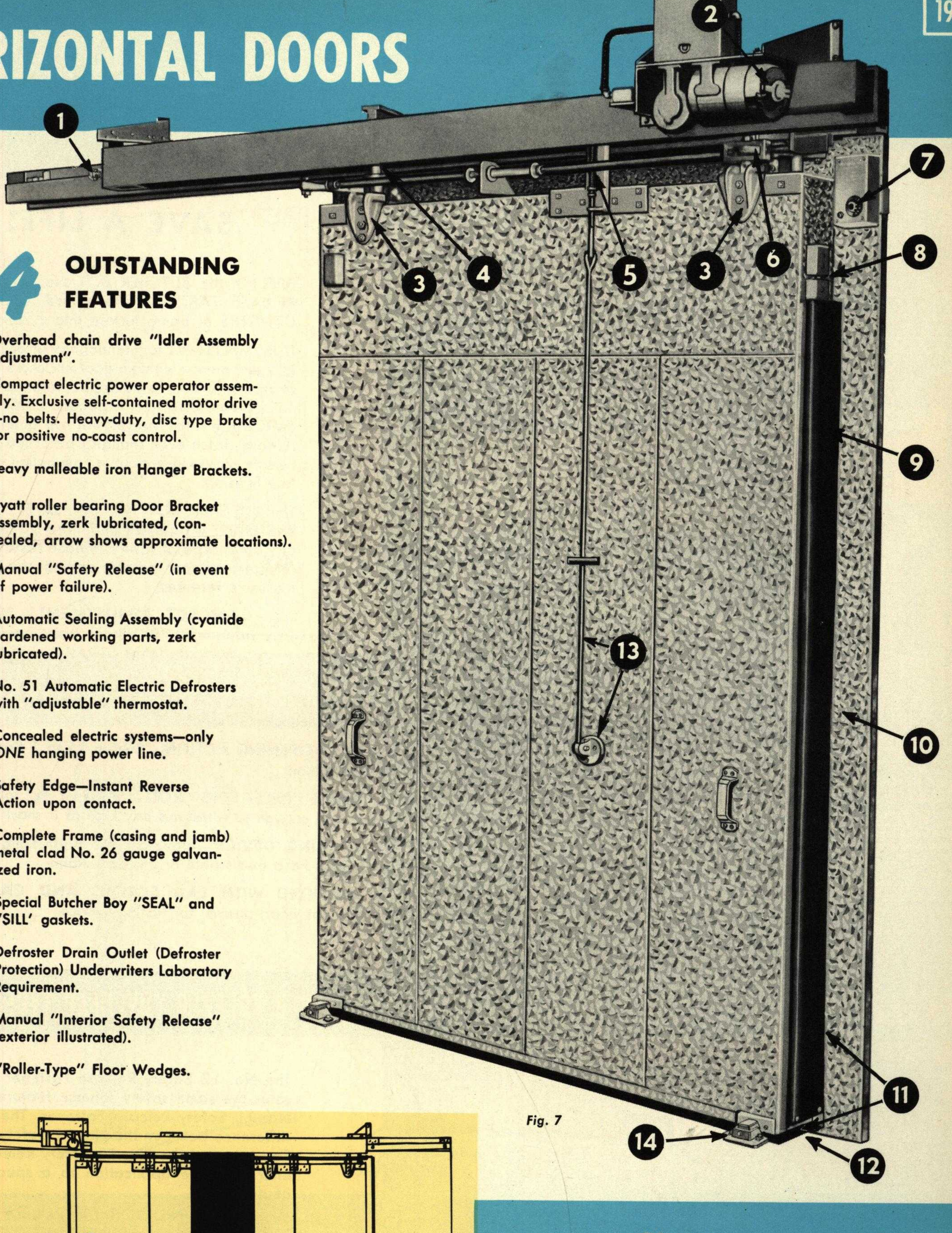


Fig. 7

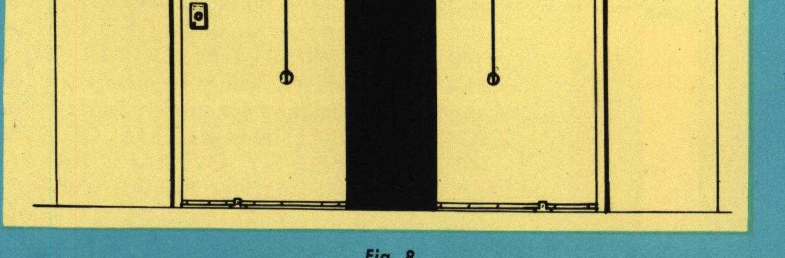


Fig. 8

BI-PARTING *Electro* SAFETY SLIDE DOOR

Available where space factors dictate their use. We strongly recommend bumpers, curbs or rails installed on both sides of the door opening, not only for protection of the doors and wall but also to protect the exposed gasket seals at the center of the opening.

"Butcher Boy"
Since 1885

No. 11

ATENT No. 2,718,421

SAFETY RELEASE FASTENER FOR INFITTING DOORS

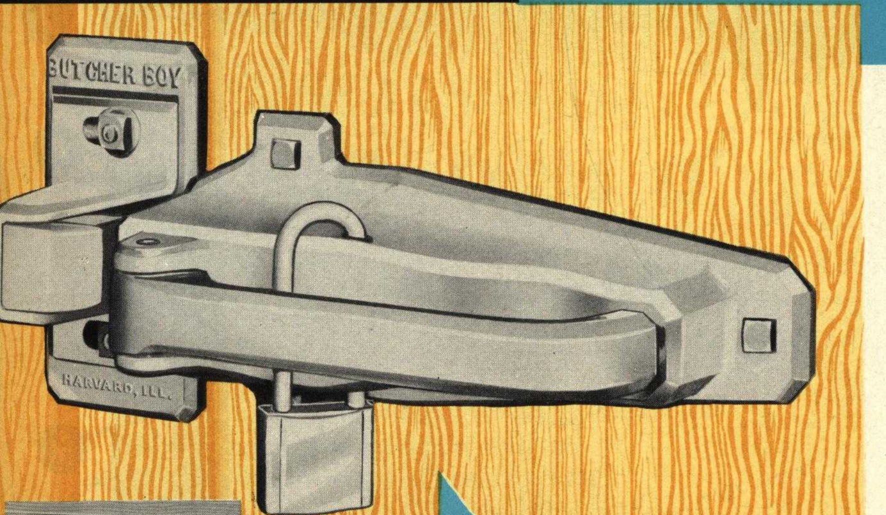
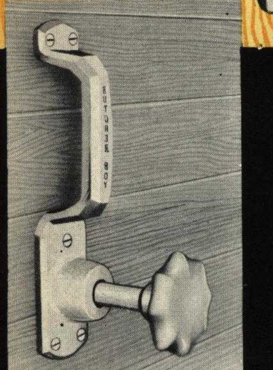


Fig. 7—
Safety Release
Fastener



NEW IMPROVED *feature*

INSIDE RELEASE MECHANISM

Unlike other types, the leverage mechanisms are FULLY CONCEALED within the lock proper (outside of door) and only the operating push rod mechanism is partially exposed on the back side of the door.

Since the operating push rod is only partially exposed, damages from catching employees' clothing on protruding handles is held to the absolute minimum.

The concealed operating mechanisms minimize maintenance costs since they are not exposed to contacts of trucks when passing through the door openings.

All inside parts, including the conventional inside pull handle, are made of extra heavy cast malleable iron (not of light gauge pressed steel).

SAVE A LIFE!

SPECIFY the BUTCHER BOY No. 11 "SAFETY RELEASE FASTENER" to guard against *ALL DANGERS* of being locked into a refrigerator.

IT IS IMPOSSIBLE to intentionally or accidentally lock any person within a door enclosure when the refrigerator door is equipped with the new No. 11 patented safety fasteners. *SLIGHT PRESSURE* against the inside push rod automatically releases latch even though padlocked from the outside thru built-in double cam action within the lock housing.

The BUTCHER BOY No. 11 "SAFETY RELEASE FASTENER" is HEAVIER and more DURABLE than any other type of safety release fastener in the refrigerator door industry and has the following exclusive features.

1. **CONTACT ADJUSTMENT**—Elongated slots provide easy adjustments to assure easy opening and closing operation and eliminate wear caused by overriding of the spring and lock parts.

2. **PRESSURE ADJUSTMENT**—Double lock nut setting assures positive gasket "seals."

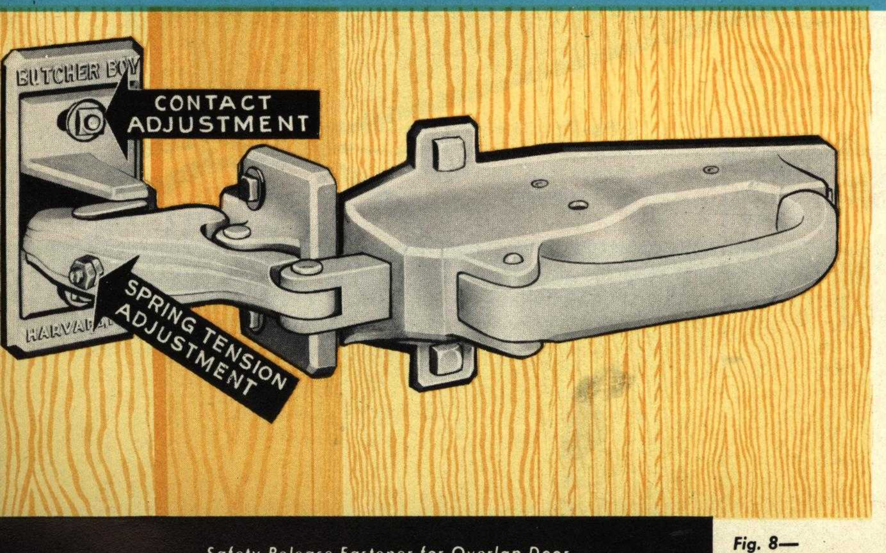
3. **EASY OPENING ACTION**—Built-in 15 to 1 first degree leverage action.

4. **INSIDE "RELEASING" ROD**—Made of ¾" solid round steel, strong enough to withstand any kind of a shock.

5. **LOCKING DEVICE**—Provisions for padlocking, without the use of a hasp and stable or pin and chain.

6. **MOUNTED WITH LAG SCREWS AND CARRIAGE BOLTS**—(not wood screws) for lasting service.

o. 12 SAFETY RELEASE FASTENER FOR SUPER FREEZER (OVERLAP TYPE) DOORS



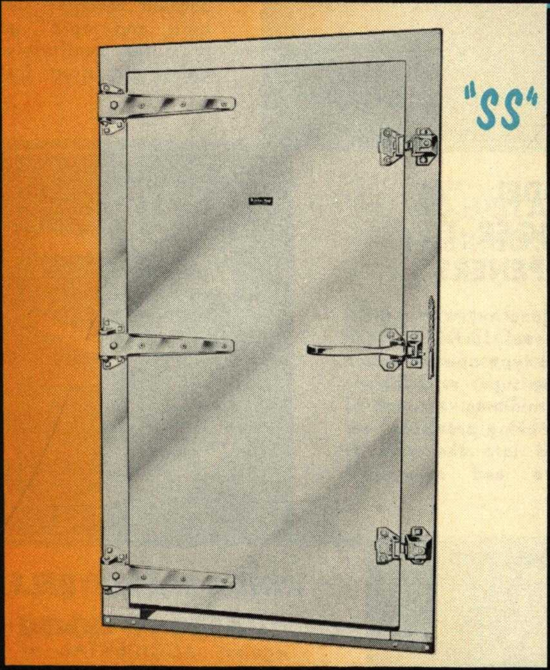
Safety Release Fastener for Overlap Door

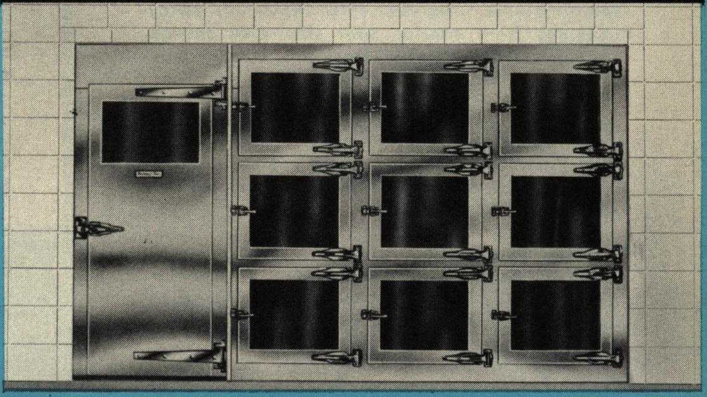
Fig. 8—

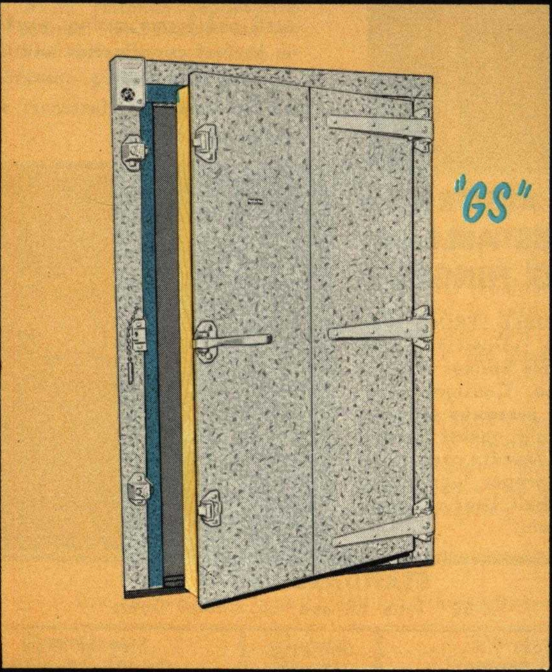
The No. 12 Safety Release Fastener incorporates the same safety release features as the No. 11 Safety Release Fastener. The primary difference between the No. 11 Safety Release Fastener and the No. 12 Safety Release Fastener is in the application to a specific type of door.

Whereas the No. 11 Safety Release Fastener is designed for use on (INFITTING TYPE) standard cooler and freezer doors (TYPE OF DOOR WHICH FITS WITHIN THE DOOR FRAME) see Fig. 7, the No. 12 Safety Release Fastener is specifically designed for use on Super Freezer (OVERLAP TYPE) doors (TYPE OF DOOR WHICH COMPLETELY OVERLAPS THE FACE CASING OF THE DOOR FRAME) see Fig. 8. See exclusive features for Safety Release Fasteners as noted above.

New!







"GS" and "SS"

COOLER — FREEZER

DOORS

Highly recommend for use in hospitals, institutions, restaurants, or at any other installations featuring food service.

"Butcher Boy"

QUALITY SINCE 1881

SPECIFICATIONS
BUTCHER BOY "X-52"
TYPE SS AND GS COOLER DOORS

LUMBER:

Front and back of door made of one piece plastic bonded marine plywood securely fastened to uprights. Exterior door panel is 7 ply and interior door panel of 5 ply materials. Frame casing and jambs of kiln dried Douglas Fir.

GASKETS:

½" x 1¼" "freeze-proof" sponge rubber low temperature gasket around the door perimeter; 1/16" x 1¾" rubber "sill" wiper gaskets installed at the sill line of the door.

HARDWARE:

One or two point contact "super seal' fasteners with "finger tip" opener handle releases and necessary adjustable spring type hinges. Walk-in size cooler doors are also equipped with inner safety release mechanisms to allow emergency openings from interior door side even though fasteners are padlocked from the exterior side of the door opening.

Type SS cooler doors equiped with chromium plated hardware.

Type GS cooler doors equipped with galvanized finish hardware.

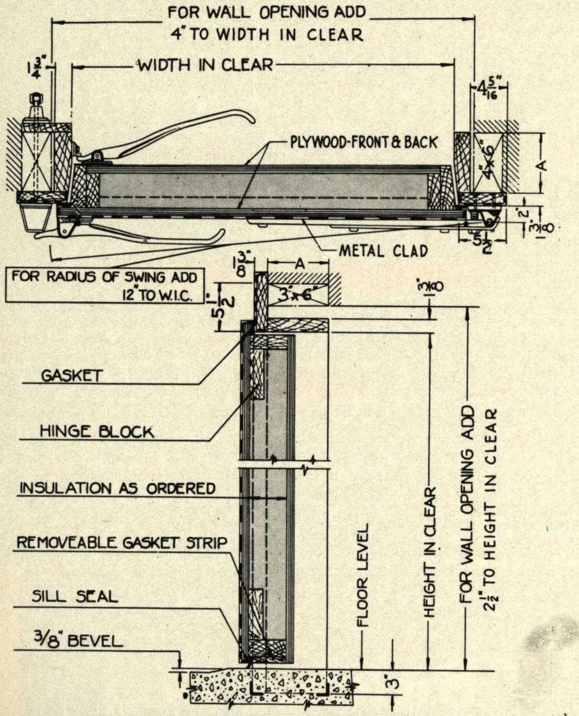
INSULATION:

4" of selected insulation for all cooler doors, usually of the same type as specified for the refrigerator wall construction.

METAL COVERING:

Type SS Cooler Doors - Front and edges of door and frame casing metal covered with No. 20 gauge stainless steel, type 302 in No. 4 finish, applied in full sheets, all joints are welded, ground and polished, and penetrating bolts sealed.

Type GS Cooler Doors - Front and edges of door and frame casing metal covered with No. 26 gauge galvanized steel with locked and soldered seams.



STEEL ANGLES FOR CONCRETE FLOORS
"A"-Standard 5⅝"-Special jambs to order.

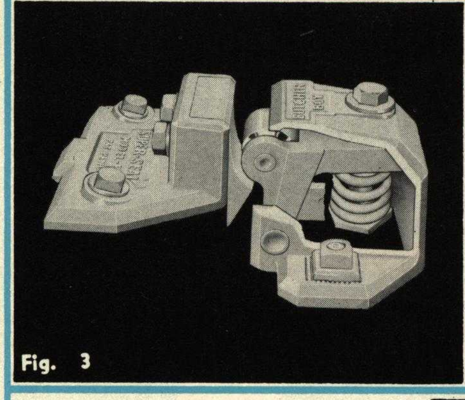


Fig. 3

MODEL "B" SUPER SEAL FASTENERS

Compact in design. Constant automatic spring pressures of the two point contact fasteners "distribute and hold" gasket pressures uniformly against the door frame.

MODEL "B" FINGER TIP OPENERS

Used inconjunction with Model "B" super seal fasteners, they are leverage type openers which pry open the super seal fasteners with a minimum amount of effort. Padlocking provisions are incorporated into the openers for positive and convenient locking.

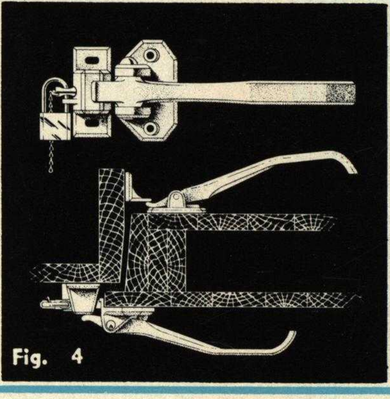


Fig. 4

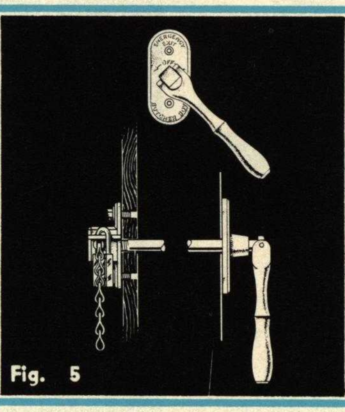


Fig. 5

INNER SAFETY RELEASE

Offers positive protection against ACCIDENTAL or INTENTIONAL locking of personnel within refrigerated area. Installation is accomplished from the interior side, through the wall and frame casing, working in perfect coordination with the opening and closing operations of the super seal fasteners and finger tip openers.

SHOCK ABSORBING ADJUSTABLE SPRING HINGES

The only DOUBLE SPRING type hinges in the refrigerator door industry. Double Springs develop double action. Constant automatic spring pressures regulate 100% air tight gasket sealing at all times. Alemite grease fittings insure proper lubrication. Thrust type ball bearings ease door operation.

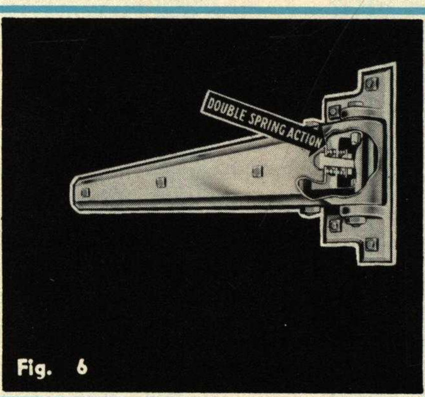


Fig. 6

STANDARD SIZES
"X-52" Type SS and GS Cooler Doors

Dimensions Inside of Frame			Shipping Weight Pounds	Size of Wall Opening Required		
Width		Height		Width		Height
1'6"	x	1'6"	140	1'10"	x	1'8½"
2'0"	x	3'0"	250	2'4"	x	3'2½"
2'6"	x	2'0"	230	2'10"	x	2'2½"
2'6"	x	3'0"	300	2'10"	x	3'2½"
2'6"	x	3'6"	325	2'10"	x	3'8½"
2'6"	x	6'0"	475	2'10"	x	6'2½"
2'6"	x	6'6"	500	2'10"	x	6'8½"
3'0"	x	6'0"	525	3'4"	x	6'2½"
3'0"	x	6'6"	575	3'4"	x	6'8½"
3'6"	x	6'6"	650	3'10"	x	6'8½"

NO. 51 AUTOMATIC ELECTRIC DEFROSTERS

Carry the UL Label of Approval. Defrosters prevent icing conditions at the frame and sill areas where the door gaskets make their contact. Heater cables are Silicon covered (not lead covered) for best operating efficiency.

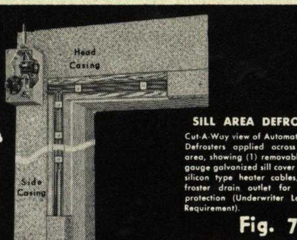
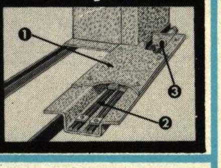

Head Casing
Side Casing

Fig. 7

SILL AREA DEFROSTER

Cut-A-Wuy view of Automatic Electric Defrosters applied across the sill area, showing (1) removable No. 10 gauge galvanized sill cover plate, (2) silicon type heater cables, (3) defroster drain outlet for defroster protection (Underwriter Laboratory Requirement).

Fig. 7A



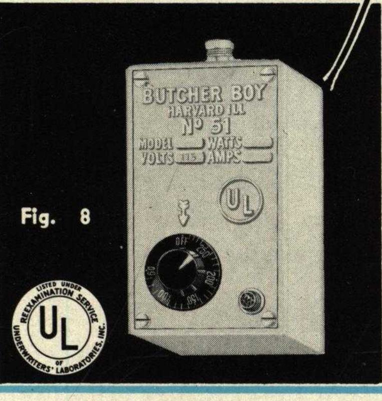

BUTCHER BOY
HARVARD ILL.
No 51
MODEL
WATTS
VOLTS
AMPS
UL
LISTED UNDER
REEXAMINATION SERVICE
UNDERWRITERS' LABORATORIES, INC.

Fig. 8

ADJUSTABLE THERMOSTAT

For range of 60%F to 250%F. Capillary tube controls (on and off) regulation. Pilot light guides "on current" operation for safety and security insurance.

AUTOMATIC DOOR CLOSER

Automatically returns the door into a closed position after each operation. Door closers are heavy duty in design, also can be made instantly inoperative if desired. (Available as an optional extra in galvanized or chromium plated finish).

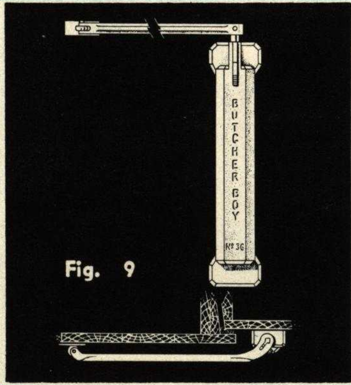

BUTCHER BOY
No 36

Fig. 9

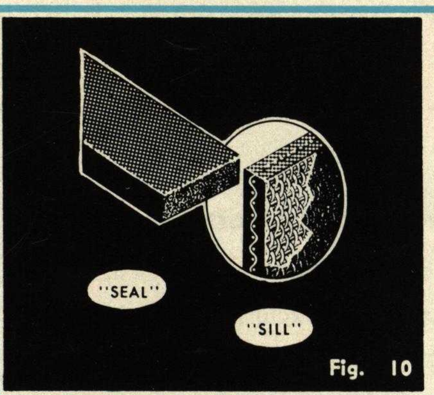


Fig. 10

GASKETS

SEAL GASKET –"Freeze-Proof," ½" x 1¼" in size, is made of a special moulded sponge rubber, and is soft, resilient, and waterproof. This gasket is applied to the perimeter of the door.

SILL GASKET – installed at the sill line of the door, are of 1/16" pure moulded rubber of a 50-55 Duro test, which will not stiffen under freezing temperatures.

STANDARD SIZES

Low Temperature Type SS and GS Freezer Doors

Dimensions Inside of Frame Width		Height	Shipping Weight Pounds	Size of Wall Opening Required Width		Height
1'6"	x	1'6"	145	1'10"	x	1'8½"
2'0"	x	3'0"	260	2'4"	x	3'2½"
2'6"	x	2'0"	240	2'10"	x	2'2½"
2'6"	x	3'0"	315	2'10"	x	3'2½"
2'6"	x	3'6"	345	2'10"	x	3'8½"
2'6"	x	6'0"	505	2'10"	x	6'2½"
2'6"	x	6'6"	535	2'10"	x	6'8½"
3'0"	x	6'0"	565	3'4"	x	6'2½"
3'0"	x	6'6"	620	3'4"	x	6'8½"
3'6"	x	6'6"	700	3'10"	x	6'8½"

SPECIFICATIONS

BUTCHER BOY LOW TEMPERATURE TYPE SS AND GS FREEZER DOORS

LUMBER:
Door and frame construction of kiln dried Douglas Fir. Internal door structure features X-Type steel diagonal bracing 2½" wide by full height of the door.

GASKET
½" x 1¼" "freeze-proof" sponge rubber low temperature gasket around the door perimeter; 1/16" x 1¾" rubber "sill" wiper gaskets installed at the sill line of the door.

HARDWARE:
One or two point contact "super seal" fasteners with "finger tip" opener handle releases and necessary adjustable spring type hinges. Walk-in size freezer doors are also equipped with inner safety release mechanisms to allow emergency openings from interior door side even though fasteners are padlocked from the exterior side of the door opening.

Type SS freezer doors equipped with chromium plated hardware.

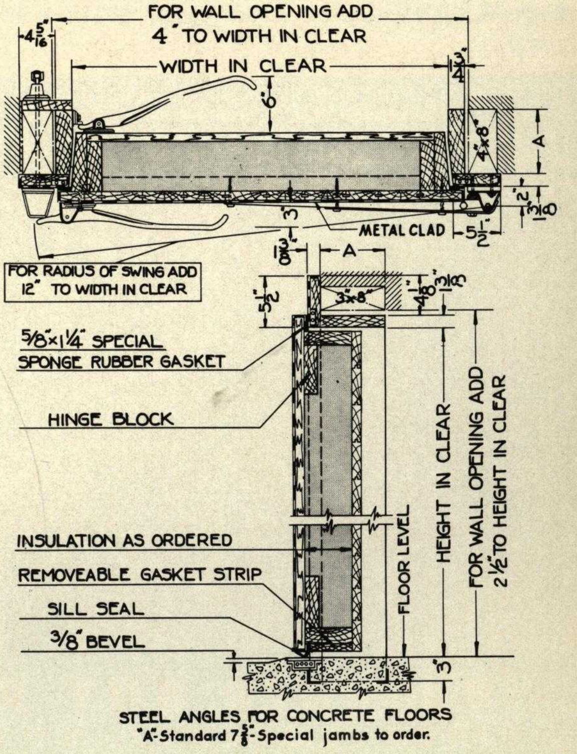
Type GS freezer doors equipped with galvanized finish hardware.

INSULATION:
6" of selected insulation for all freezer doors, usually of the same type as specified for the freezer wall construction.

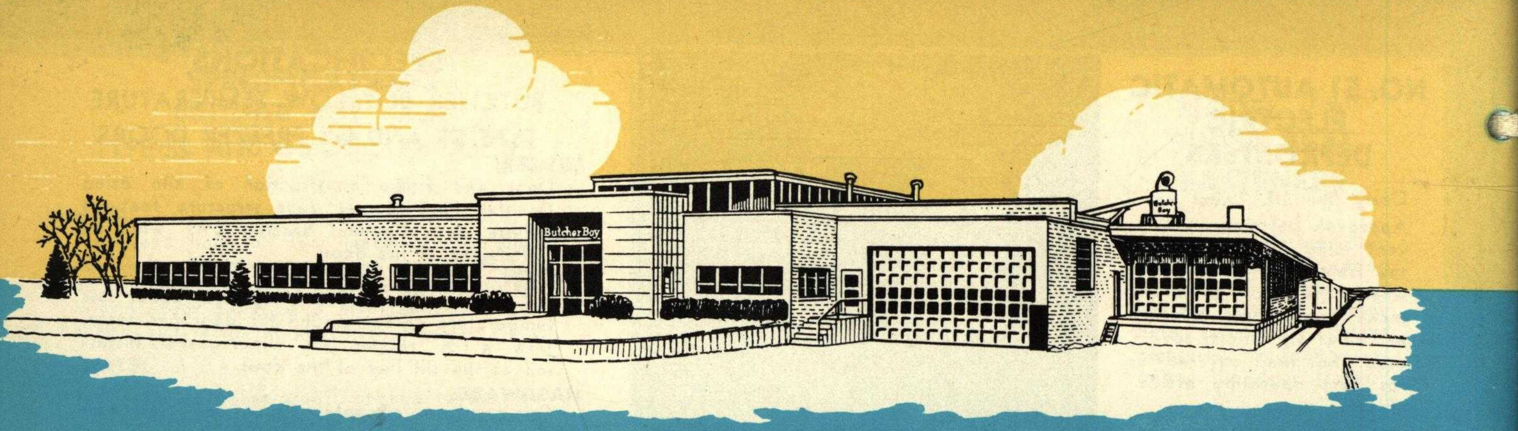
METAL COVERING:
Type SS Freezer Doors - Front and edges of door and frame casing metal covered with No. 20 gauge stainless steel, type 302 in No. 4 finish, applied in full sheets, all joints are welded, ground and polished, and penetrating bolts sealed.

Type GS Freezer Doors - Front and edges of door and frame casing metal covered with No. 26 gauge galvanized steel with locked and soldered seams.

DEFROSTERS:
Butcher Boy No. 51 automatic electric defrosters recessed in head and sides of frame casing and across the sill at gasket contact area. Calibrated thermostat installed at upper corner of frame casing.


FOR WALL OPENING ADD
4" TO WIDTH IN CLEAR
4 5/16"
WIDTH IN CLEAR
1 3/4"
6"
4"x8"
A
2"
1 3/8"
3"
METAL CLAD
5 1/2"
FOR RADIUS OF SWING ADD
12" TO WIDTH IN CLEAR
1 3/8"
A
5 1/2"
3"x8"
4 3/8"
1 3/8"
5/8"x1¼" SPECIAL
SPONGE RUBBER GASKET
HINGE BLOCK
INSULATION AS ORDERED
REMOVEABLE GASKET STRIP
SILL SEAL
3/8" BEVEL
FLOOR LEVEL
HEIGHT IN CLEAR
FOR WALL OPENING ADD
2½" TO HEIGHT IN CLEAR
3"

STEEL ANGLES FOR CONCRETE FLOORS
"A"-Standard 7⅝"-Special jambs to order.



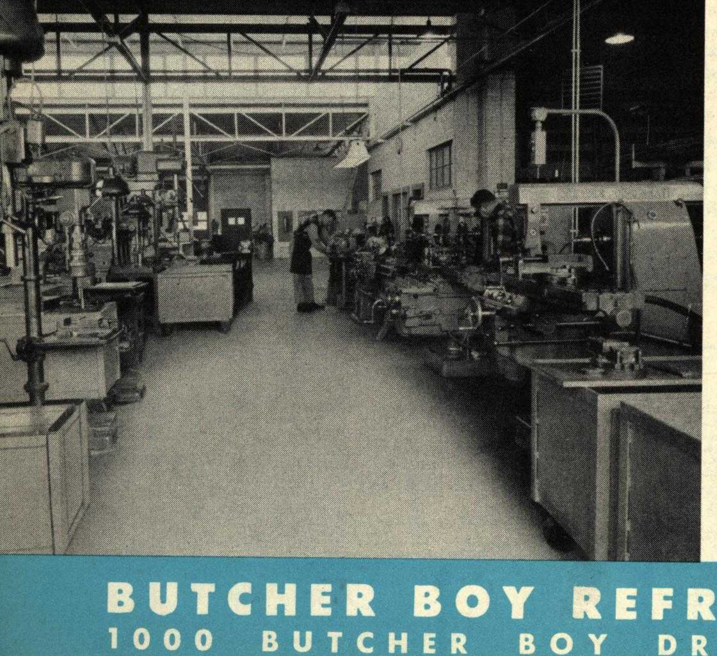
WORLD'S MOST MODERN PLANT DEVOTED EXCLUSIVELY TO THE MANUFACTURE OF REFRIGERATOR DOORS • HARDWARE • ACCESSORIES

(70 MILES NORTHWEST OF CHICAGO)

The CUSTOMER
is always right..

EXPANSIVE production facilities at the Butcher Boy Plant permit well organized production lines, facilitating the movement of raw materials into finished products in the least possible time. Hence, the long established reputation enjoyed by Butcher Boy, "to deliver the doors to the job promptly." Each and every door is subjected to close inspection, tested for quality, workmanship, and appearance, prior to shipment.

BUTCHER BOY'S ESTABLISHED LEADERSHIP—YEARS OF PIONEERING, YEARS OF RESEARCH, YEARS OF SPECIALIZED EXPERIENCE MODERN PLANT FACILITIES, MODERN MACHINERY, AND COMPETENT ENGINEERING STAFFS, combine to offer Butcher Boy Products which are unmatched for quality and workmanship. Visit our plant and manufacturing facilities . . . We invite comparisons, as this is the most direct means for selling you on BUTCHER BOY, the industry's finest refrigerator door and hardware products.



Leaders in Refrigerator Door Hardware

Modern precision machinery and equipment has made it possible to develop many exclusive patented hardware features. Outstanding items, such as Safety Release Fasteners, Shock Absorbing Adjustable Spring Type Hinges, Super Cam Gravity Type Closing Hinges (with and without spring compensators), Gravity Type Self Closing Track Operators, Sliding Door Hardware, are among the many firsts developed by our Engineering Staffs.

BUTCHER BOY REFRIGERATOR DOOR CO.

1000 BUTCHER BOY DRIVE • HARVARD, ILLINOIS

RINTED IN U.S.A.

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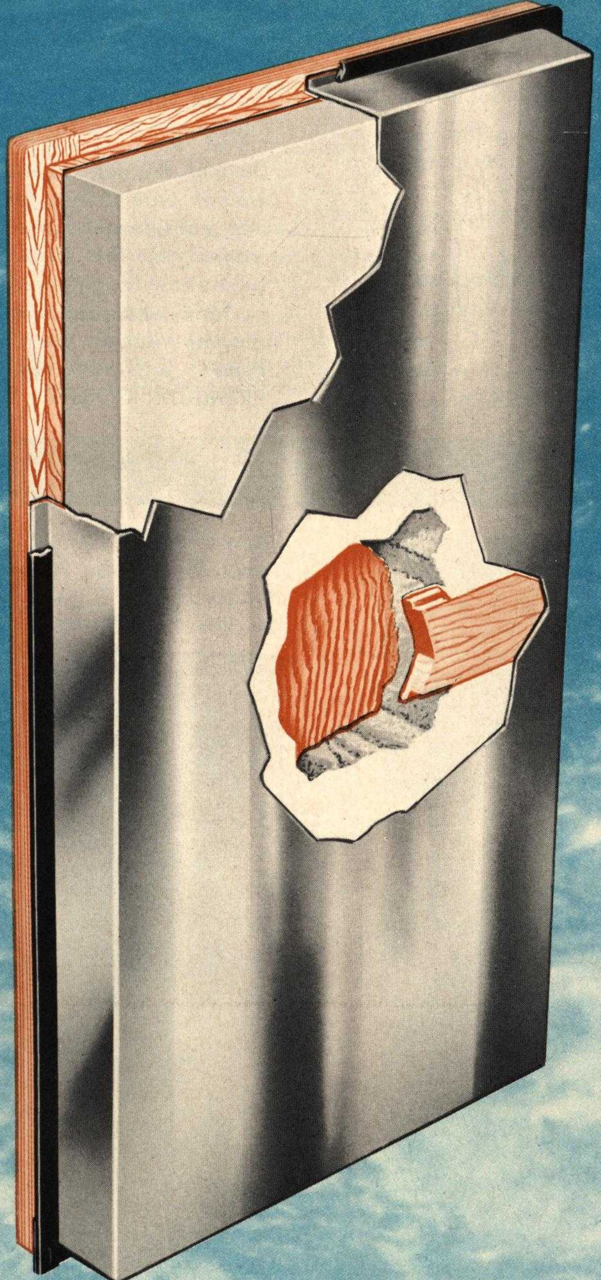


UP TO
50%
LESS
WEIGHT

"FOAM-LITE"®

Lightweight DOORS

"Butcher Boy"
QUALITY SINCE 1885

NEW *Lightweight* FOAM-LITE DOORS

BUTCHER BOY LIGHTWEIGHT "FOAM-LITE" Doors are another important addition to the already impressive list of door classifications which are being manufactured for the ever growing needs of the refrigerator industry.

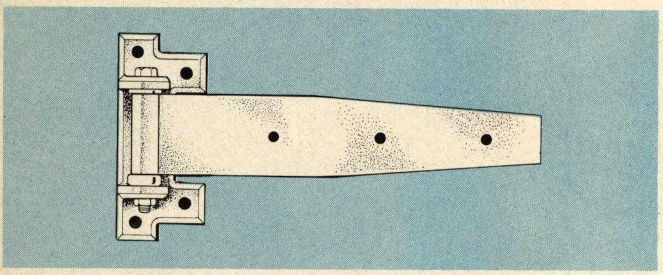
The LIGHTWEIGHT "FOAM-LITE" Door, as the name implies, explores the limits of lightweight door construction without the sacrifice of quality, workmanship, the insulating requirement or overall functional performance, **all this at no extra premium costs.**

We recommend their general use in meat packing plants, chain stores, food marts, or for any installation where the use of lightweight doors are feasible.

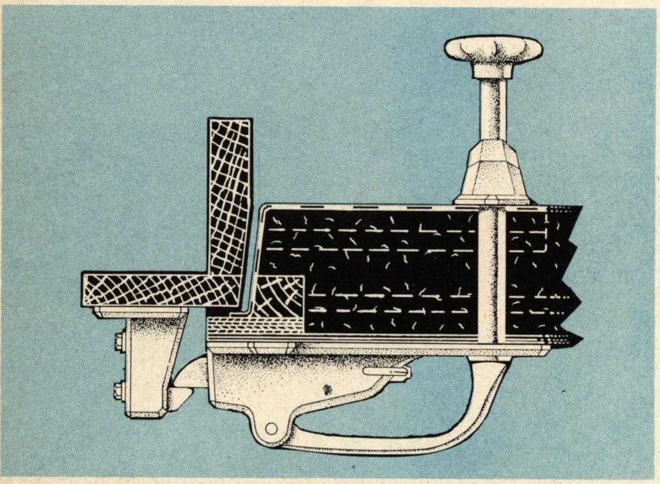
LIGHTWEIGHT "FOAM-LITE" Doors, when furnished with optional metal coverings of stainless steel, aluminum or galvanized steel, are also strongly recommended for use in hospitals, institutions and restaurants. In addition to the features of lightweight performance in opening and closing operations, stress is placed on **sanitation, cleanliness** and **outstanding appearance.**

Butcher Boy engineers have experimented with lightweight type doors for the several years past, taking into consideration the problems which have been confronted in the field. We confidently feel that we have now engineered a lightweight door which will perform with utmost efficiency, withstand the abuse of rugged normal use, manufactured in **all sizes and types without restrictions,** and at NO EXTRA PREMIUM COSTS.

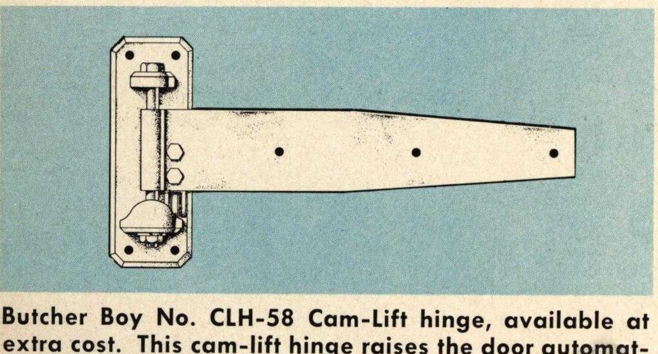
COOLER APPLICATION



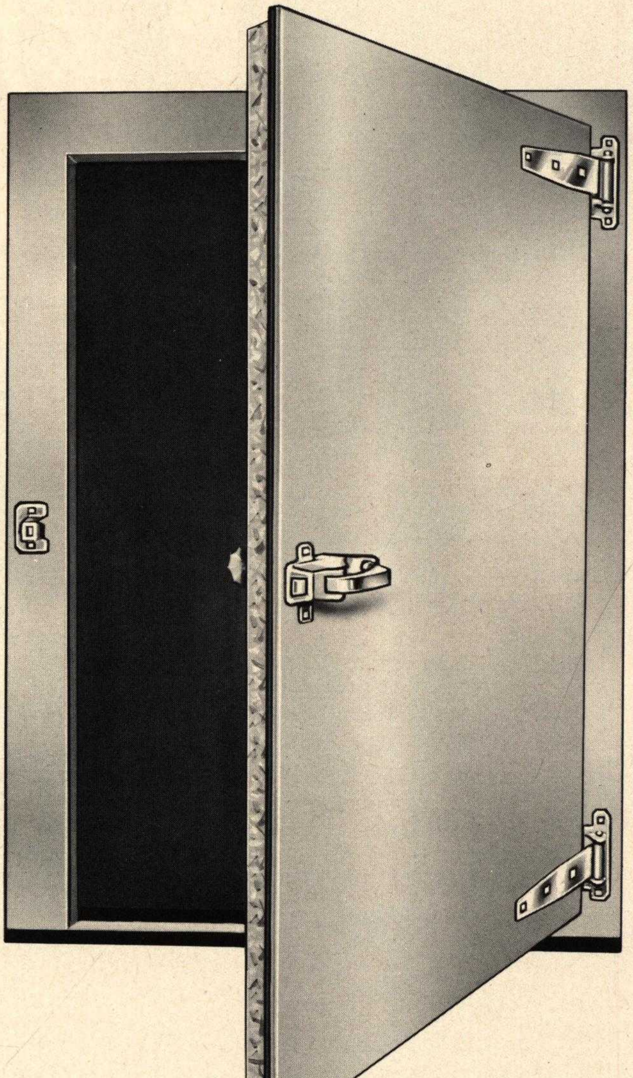
Butcher Boy No. 10 Ball Bearing Strap Type Hinge, galvanized finish.



Butcher Boy "wedge type" Fastener, galvanized finish.



Butcher Boy No. CLH-58 Cam-Lift hinge, available at extra cost. This cam-lift hinge raises the door automatically when opening, is self closing due to gravity action. Recommended for installation where irregular floors exist at door openings. Available in galvanized finish only.



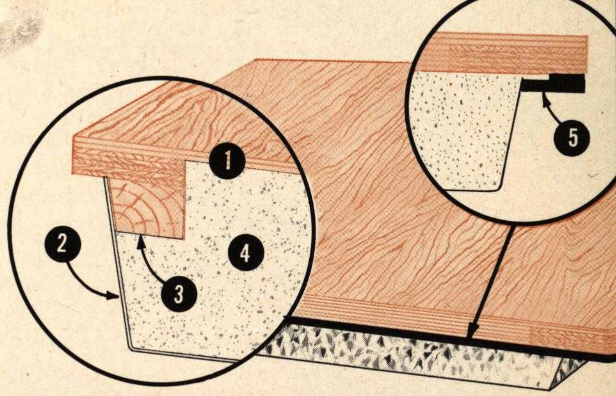
EXTERIOR METAL APPLICATION (Optional Extra)

Cooler Doors, insulated with optional thicknesses of Polystyrene insulation (customer's option). Recommended for use with rooms maintaining 60° F to 30° F temperatures.

Cooler Doors are available also in standard track, vestibule, or track vestibule types. See back cover.

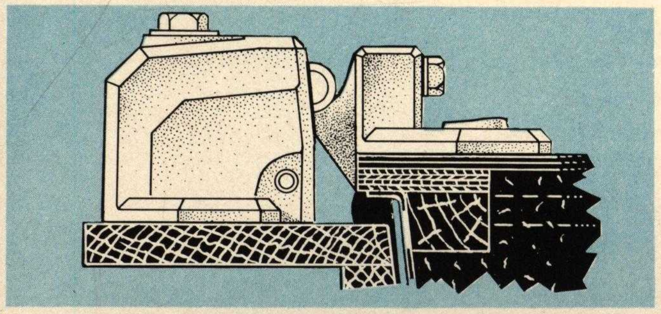
FOAM-LITE DOOR CONSTRUCTION

1. **EXTERIOR DOOR PANEL** is ¼" plastic bonded marine type fir plywood glued to ⅝" supporting plywood stripping, applied to entire periphery of door.
2. **INTERIOR PAN TYPE CONSTRUCTION** on back and edges of the door. Standard construction of No. 20 gauge galvanized steel with return flanges to back of face panel. (Optional in stainless steel or aluminum at extra cost). Return flanges serve dual purposes, acting as a means of securing metal into back of face panel, also as a base for "seal" gasket.
3. **FRAME STRUCTURE OF DOOR** is 1-13/32" x 2", 3", 4" or 6" (dependent upon door thickness) solid upper grade clear Douglas Fir for maximum rigidity in application of interior steel panel.
4. **PRIMARY INSULATION** is 2", 3", 4" or 6" of "foamed in place" Polystyrene type insulation, of lighter density for cooler doors, of heavier density for freezer door applications.
5. **GASKETS** — The "seal" gaskets applied to the doors are ½" x 1¼" freeze proof closed cellular rubber, made of extremely soft resilient material (nitrogen filled cell composition banded together by strong live rubber). A moulded removable type "sill" gasket (1/16" thick x 1¾" wide) is applied to the bottom of the door.

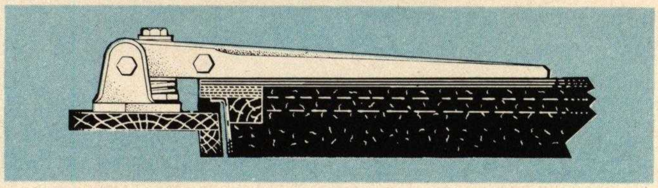


FREEZER APPLICATION

Butcher Boy No. 51 Automatic Electric Defrosters, thermostatically controlled, applied to frame casings and or sill areas, where door gaskets make their contacts. Their application prevents condensation forming upon the gaskets, thereby preventing freezing conditions at the door openings.

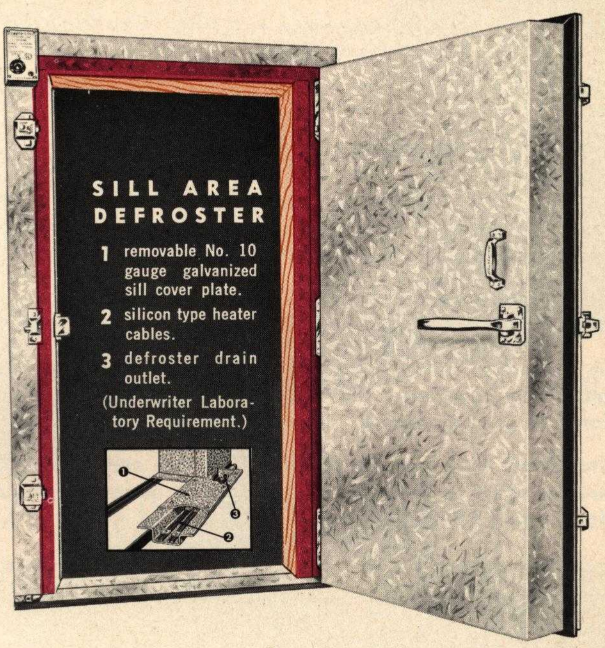


Butcher Boy Model "B" two point contact Super-Seal Fasteners, galvanized finish.



Butcher Boy No. 47 or No. 53 (application dependent upon door width) shock absorbing, adjustable spring type hinges, in galvanized finish.

FIRST AND ONLY UNDERWRITERS LABORATORY APPROVED



SILL AREA DEFROSTER

1 removable No. 10 gauge galvanized sill cover plate.
2 silicon type heater cables.
3 defroster drain outlet.

(Underwriter Laboratory Requirement.)

FREEZER DOOR (GALVANIZED METAL CLAD)

Freezer Doors, insulated with optional thicknesses of Polystyrene insulation (customer's option). Recommended for use in rooms maintaining below freezing temperatures, such as 30° F to 15° F below zero.

Freezer Doors are available in standard track, vestibule, or track vestibule types. See back cover.

FEATURES OF THE *Lightweight* "FOAM-LITE DOOR"

• PRACTICAL • MAINTENANCE OF STRENGTH • RIGIDITY •

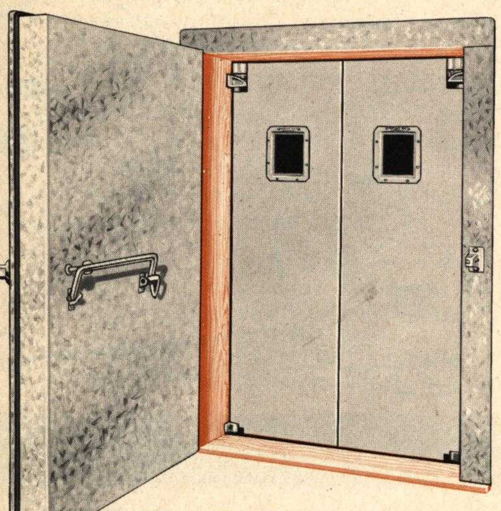
A. Poured-in (foamed type) insulation acts and is an adhesive which "bonds" the insulation to the back metal pan as well as to the face plywood. These "bonds", which foamed insulation makes possible, add the extra strength and rigidity to the lighter thickness of the face plywood as well as to the metal pan back (available in No. 20 gauge metals, galvanized - stainless - aluminum).

B. Poured-in (foamed type) insulation sets up as a solid mass over the entire area of the door structure including all corners, leaving no voids whatsoever. The very nature of the poured-in-type insulation eliminates the necessity of excessive internal bracing of any type since it forms a solid immovable mass, also permits maximum insulation fill within the door.

C. Frames used with lightweight doors are of the same exact standards as the frames furnished with other standard types of Butcher Boy refrigerator doors, because

1. The frame is, under all circumstances, the static part of the door. It does not move, hence the weight factor is not important.
2. After installation, the door frame becomes a part of the wall, and it has been a proven theory that a standard rugged frame will add to the rigidity of the installation.
3. Installation procedures are standardized. Hence no extra details or instructions to follow, no special space requirements, and no extra supervision.
4. Extra savings in buck opening provisions. Since the lightweight "FOAM-LITE" door weighs approximately 50% less than the conventional standard refrigerator door, 3" x 6" wood buck supports may be safely used.

NEW AUTO-PLY *Lightweight* VESTIBULE DOORS

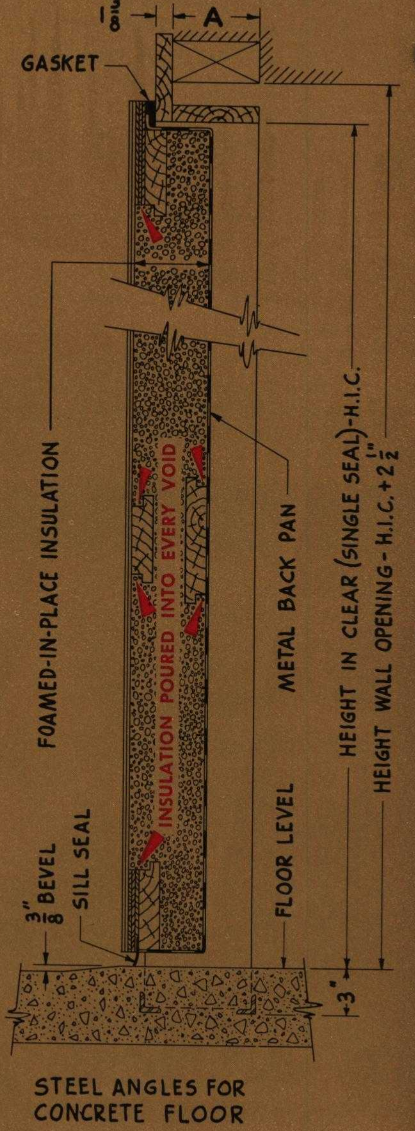


STAINLESS STEEL BACK PAN
(OPTIONAL EXTRA)

This new lightweight vestibule consists of the lightweight FOAM-LITE insulated door hung into the same common frame with our AUTO-PLY double swinging auto close doors.

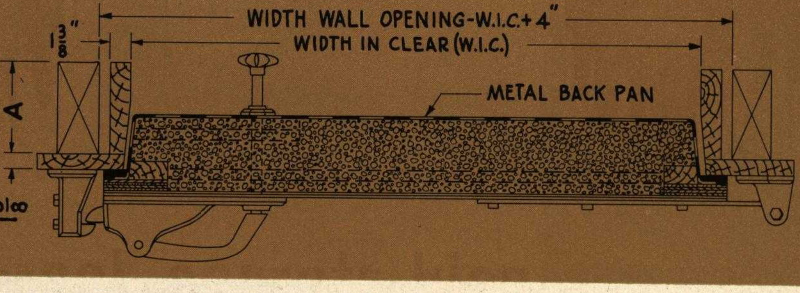
The new development of this vestibule unit is the result of a special demand by many chain and retail stores who are usually confronted with the problem of leaving the insulated door in an open position during the major portion of the business day.

AUTO-PLY double swinging auto close doors are approximately 45% lighter in weight than the conventional standard auto close doors, and have been especially designed for use by personnel going in and out of the openings. **Caution:** The AUTO-PLY double swinging auto close doors are not recommended for fork-lift truck operations.


1 3/8"
A
GASKET
FOAMED-IN-PLACE INSULATION
INSULATION POURED INTO EVERY VOID
METAL BACK PAN
HEIGHT IN CLEAR (SINGLE SEAL)-H.I.C.
HEIGHT WALL OPENING-H.I.C.+2 1/2"
3/8" BEVEL
SILL SEAL
FLOOR LEVEL
3"
STEEL ANGLES FOR CONCRETE FLOOR

CONSTRUCTION FEATURES

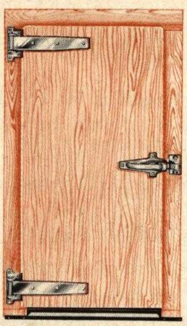
1. The inner cores of the auto close doors are made of two (2) pieces of ½" plywood, rabbetted for acceptance of three (3) inside steel mounting ribs which are welded to the rods actuating the hardware mechanisms.
2. Special type reinforced No. 20 gauge aluminum sheets are used to encase the plywood cores, adding to the appearance and utility.
3. In assembly, ¼" truss head rivets are used, the rivets extending through the aluminum coverings, the plywood cores, and the rib sections. This assembly forms a well designed, strong structure.
4. Standard, time proven Butcher Boy V-6 self closing gravity cam mechanisms are installed to the auto close doors to assure free and easy operations of the doors. NO SPRINGS.


WIDTH WALL OPENING-W.I.C.+4"
WIDTH IN CLEAR (W.I.C.)
1 3/8"
A
METAL BACK PAN
1 3/8"

"A"	-	3-5/8"	-	2" INSULATED DOOR
"A"	-	4-5/8"	-	3" INSULATED DOOR
"A"	-	5-5/8"	-	4" INSULATED DOOR
"A"	-	7-5/8"	-	6" INSULATED DOOR
"A"	-	11-½"	-	4" VESTIBULE DOOR
"A"	-	13-½"	-	6" VESTIBULE DOOR

"A" - SPECIAL JAMBS TO MATCH EXISTING WALLS (TO SPECIAL ORDER)

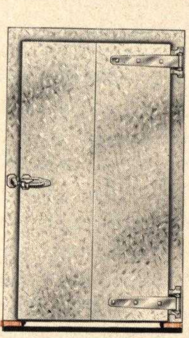
STANDARD AND OPTIONAL METAL CLAD APPLICATION



STANDARD APPLICATION

ARCHITECTS AND USERS NEED ONLY TO SPECIFY

"Lightweight Doors shall be Butcher Boy "FOAM-LITE" Doors as manufactured by Butcher Boy Refrigerator Door Company of Harvard, Illinois."



GALVANIZED METAL CLAD (Optional Extra)

BUTCHER BOY REFRIGERATOR DOOR COMPANY • 1000 BUTCHER BOY DRIVE • HARVARD, ILLINOIS

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Litho in U.S.A.

AIA FILE 30-F-61

Catalog #260

23c
CL

CLARK
FREST-O-MATIC
CLARK

CLARK

power operated/manual cold storage doors

air or electric powered...

easy to install...

...fast operation...tight seal

CLARK DOOR COMPANY, INC. NEWARK 8, NEW JERSEY

AIA FILE 30-F-61

PREST-O-MATIC® *power operated* doors for freezers and coolers

Clark Prest-O-Matic Cold Storage Doors are self-contained complete automatic door assemblies. Each unit is furnished complete with door, frame, power operator, and pull cord switches or other types of control.

power supply

Prest-O-Matic doors can be supplied for operation on electric or compressed air power, selection of which depends largely upon local conditions.

types

Standard door units are available for freezer and cooler applications. Normally freezer doors incorporate 6″ insulation, and cooler doors 4″, but greater or lesser thicknesses of insulation can be obtained for specific applications. Freezer doors have built-in heating cables to prevent icing.

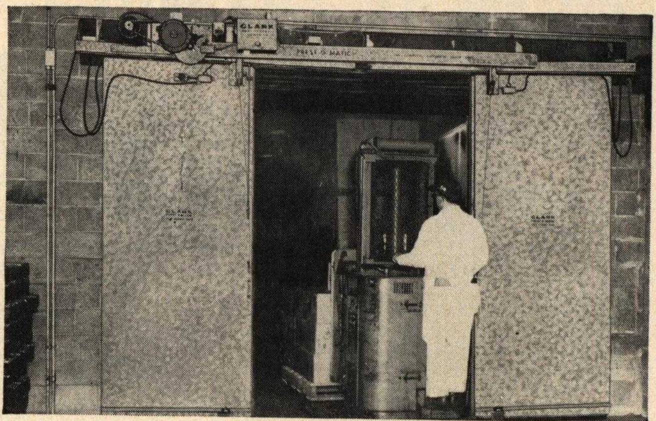
models

Two models are available in each of the cooler or freezer types.

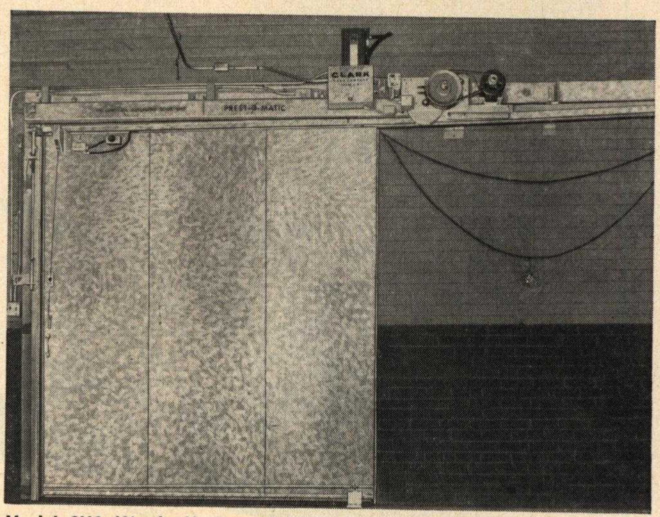
Double Horizontal Sliding (Model DHS) consists of two door sections meeting in the center of opening and sliding on tracks above the doorway to each side. DHS models open or close at approximately two feet per second.

Single Horizontal Sliding (Model SHS) consists of a single door section sliding to right or left at option of buyer. SHS models open or close at one foot per second.

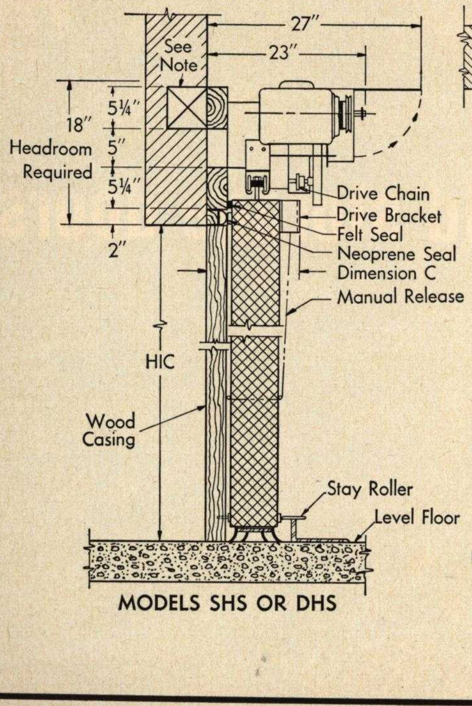
Where space does not permit installation of standard horizontal sliding models, Vertical Sliding or other specially constructed units are available.


CLARK
PREST-O-MATIC
CLARK
CLARK

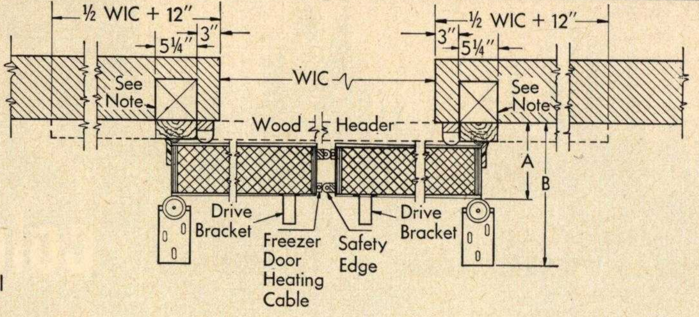
Model DHS (Double Horizontal Sliding) Cold Storage Door.


CLARK
PREST-O-MATIC

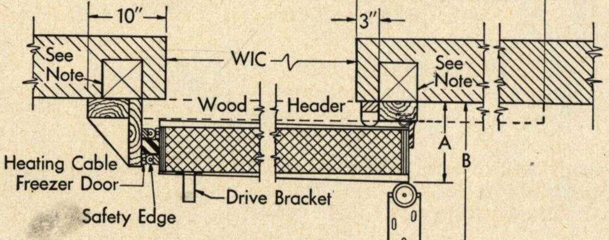
Model SHS (Single Horizontal Sliding) Cold Storage Door.


27″
23″
See Note
18″ Headroom Required
5¼″
5″
5¼″
2″
Drive Chain
Drive Bracket
Felt Seal
Neoprene Seal
Dimension C
Manual Release
HIC
Wood Casing
Stay Roller
Level Floor

MODELS SHS OR DHS


½ WIC + 12″
5¼″
3″
½ WIC + 12″
3″
5¼″
See Note
WIC
See Note
Wood Header
A
B
Drive Bracket
Freezer Door Heating Cable
Safety Edge
Drive Bracket

MODEL DHS


WIC + 14″
10″
3″
See Note
WIC
See Note
Wood Header
A
B
Heating Cable Freezer Door
Safety Edge
Drive Bracket

MODEL SHS

Right Slide Shown—Left Slide Mirror Image

Dimension A	4″ door	9″
	6″ door	11″
Dimension B	4″ door	14¾″
	6″ door	16¾″
Dimension C	4″ door	12″
	6″ door	14″

WIC=WIDTH IN CLEAR

HIC=HEIGHT IN CLEAR

Note: Bucks (by Others) are not required if wall provides adequate support. In free standing walls bucks should run floor to ceiling with header cut between as shown.

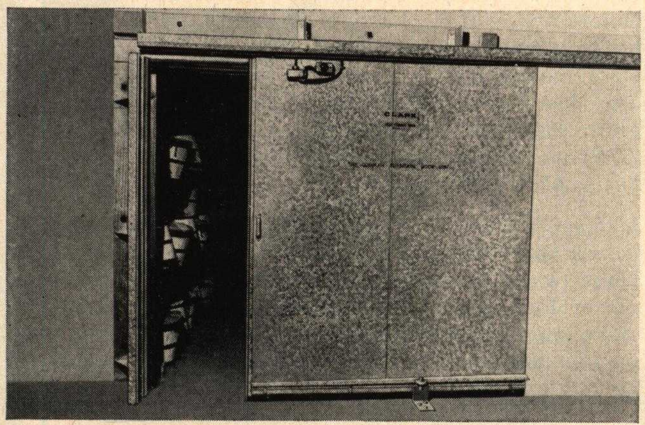
Detailed drawings of all Cold Storage Doors on request.

The right is reserved to change construction details and specifications without notice.

✳ CLARK *hand operated* cold storage doors

Clark Manual Sliding Cold Storage Doors offer a new concept in door design and operation. Sliding quickly and easily to one side or above the opening, these doors hug the wall and free valuable floor space for useful purposes. Four standard models are illustrated and briefly described below. Detailed drawings are available upon request. Like the power operated doors each Clark Manual Door Unit is supplied as a complete assembly of doors, frame, neoprene seals, galvanized track, ball bearing trolley trucks, handles and guide roller.

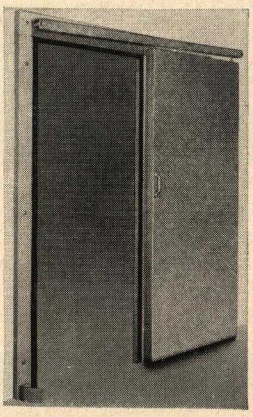
standard freezer and cooler doors

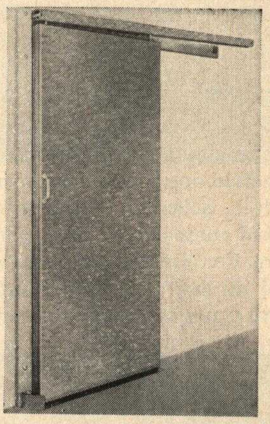


MODEL MF Horizontal Sliding Freezer Door provides 6″ or more insulation and is equipped with electric heating cables to prevent icing.

MODEL MC Cooler Door contains 4″ insulation without heating cables. Sizes: Standard units for all widths from 4′0″ to 8′0″ and heights from 5′0″ to 12′0″. Special sizes on request.

dairy door



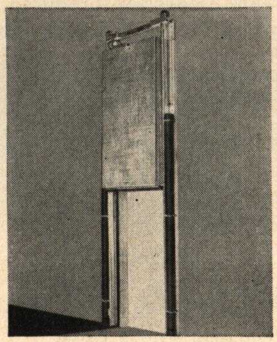


The MODEL DD Clark 3″ or 4″ Dairy Door is a light weight, compact, insulated door designed particularly for the dairy industry, but with a wide variety of uses.

Sizes: Standard sizes are 2′0″, 2′6″, 3′0″ width and 6′0″, 6′6″, 7′0″ height.

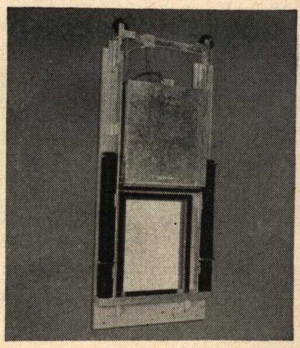
vertical sliding door

MODEL VS Vertical Sliding Traffic Doors are designed for use in practically all size cold storage doorways, and are particularly practicable where sufficient side room is not available for the installation of horizontal sliding doors. These doors are available for both coolers and freezers, and in varying thicknesses of insulation to suit specific requirements.



pass-thru doors

MODEL PD Clark Pass-Thru Doors meet the requirements of small openings where vertical lift doors are advantageous. They are used primarily for the passage of small crates and boxes from refrigerator rooms to outside areas. Door is counter balanced by concealed weights suspended on flexible steel cable.
Sizes: Standard sizes cover widths from 1′6″ to 3′, and heights from 2′ to 3′.



CLARK CONSTRUCTION FEATURES

doors

1. All Clark Cold Storage Doors slide on track slightly inclined both horizontally and vertically, thus providing a wedge-tight seal on all door edges.

2. Standard doors are covered both sides with 26 Ga. Galvanized steel. Heavier gauge steel, aluminum, and stainless steel covering are available.

3. Insulation is foamed-in-place Polyurethane which, in addition to its low k factor, possesses the important quality of structural rigidity, non-friability, moisture resistance and light weight.

4. Wedge-tight neoprene seals at top and bottom of door, together with pressure-tight seals on leading and trailing edges, insure a non-leaking tight closure at all door edges.

5. Freezer doors incorporate thermostatically controlled electric heating cables.

6. Optional safety locking device, for use with padlock, securely fastens door from outside, yet permits emergency exit from interior. On power-operated doors the control circuit is open when lock is in closed position.

7. Each door slides on sealed-in-grease precision ball bearing rollers moving in specially designed galvanized track rigidly supported on head member.

meat rail doors

1. All Clark manual and power operated Single or Double Horizontal Sliding doors are available with special meat rail provision. At loading platforms, or other confined areas, the advantages of sliding doors are obvious. Furthermore, products suspended on meat rails need not be stopped short of door, or moved back to avoid interference with arc of swing of hinged doors.

continued . . .

CONSTRUCTION FEATURES

continued from page 3

frame

1. Each Clark door unit is supplied with a wood frame consisting of vertical casings and a header on which the track or power operator is factory mounted. The header rests on the casings with a mortise-tenon joint.

2. Standard frames are painted two coats enamel or can be metal covered at extra cost.

power operation

1. *Power Operators* for Prest-O-Matic Cold Storage Doors can be supplied for either electric or compressed air supply. Electric operators incorporate ½ h.p. motor, geared limit switch, solenoid brake, safety adjustable clutch and pre-wired control box, with components of standard manufacture. Compressed air operators have piston of adequate size and stroke, and include lubricator, filter and water trap. Both types are ready for connection to available power supply. Air compressors can be supplied or obtained locally.

2. *Safety Edge* Each automatic door is equipped with a sensitive leading edge which automatically opens door upon striking an obstruction while closing.

3. *Manual Release* In the event of power failure doors can be operated manually by means of a simple release which disengages door from power operator.

4. *Power Source* Standard electric operators can be wired to 220V or 440V, 3P, 60C; or 110V or 220V, SP, 60C. Motors are ½ H.P., instantly reversible, and three phase power supply is recommended when available. Air operators require 65 lbs. minimum, with volume depending upon door size and frequency of operation. Regardless of power supply all doors containing heating cables require 110V; and all air-operated doors require 110V for connection to 6V transformer.

5. *Controls* The most common and generally accepted control is by means of pull cord switches or pushbuttons. These switches are placed in one or more locations on each side of door opening. Other controls such as photoelectric, radio, interlocking of airlock doors, time delays, and other specialized circuits for particular needs are available.

INSTALLATION

Simple complete instructions are supplied with each manual or power operated door, and installation is easily and quickly accomplished. The vertical casings and header are fastened with suitable bolts directly to wood and masonry walls, or to wood or steel bucks. Bucks must be provided in free standing insulation wall. Power supply is connected to electric or air terminal connection on operator. Pull cord switches or other controls can be placed as desired.

SPECIFICATIONS

"Doors shall be Clark Prest-O-Matic Electric (or Air) Powered Cold Storage Doors, or Manually-Operated Sliding Cold Storage Doors, as manufactured by Clark Door Company, Inc., 521 Hunterdon St., Newark 8, N.J."

Door schedule, plans or specifications should then show details in accordance with the following checklist:

1. In-clear dimensions of opening.
2. Type and Model desired.
3. Thickness of Insulation.
4. Direction of slide (Right or Left to open).
5. Type of metal covering if other than standard.
6. Locking Device, if desired.
7. For power-operated doors, available power supply, type and number of controls (pull switches, pushbuttons, photocells, etc.)

GUARANTEE

All Clark Door Company products are warranted against defective materials or workmanship for a period of one year after shipment.

CLARK SERVICES

Clark Door Company offers three generations of experience in specialized industrial door construction and application. Where special problems exist, to which standard units cannot be adapted, the services of Clark engineering staff are at your disposal. Your inquiry, containing full and complete details on a specific problem, will be given prompt expert attention.

PATENTS

Clark Doors are produced by an organization with a reputation for high quality products, covering a span of over 70 years. (Patent Numbers 2262451, 2472791, 222757, 2134397, 2412871, 2471197. Other patents pending.)

a few users of Clark doors

P. Ballantine & Sons
*The Borden Co.
*Bowman Dairy
*Campbell Soup Co.
Dairy Corp. of America
*Food Fair Stores, Inc.
*General Foods Corp.
*Gerber Products Corp.
Good Humor Corp.
*Grand Union Co.
Hawaiian Pineapple Co.
*Helsingborg Cold Storage Co.
H. P. Hood & Sons, Inc.
*Inland Cold Storage Co., Inc.
*Kroger Co.
*Merchants Refrigerating Corp.
*Minute Maid Corp.
Morrison & McCluan
Pasco Packing Co.
*Penn Fruit Co.
*Pet Milk Co.
*Pillsbury Mills
Quaker City Cold Storage Co.
Seabrook Farms
Stouffer Corp.
*Winn-Dixie Stores, Inc.
*Winter Garden Freezer Corp.

*Repeat orders

see also catalog on . . .

CLARK INDUSTRIAL AUTOMATIC DOORS In Sweet's Plant Engineering, Industrial Construction and Architectural Files

CLARK DOOR COMPANY, INC.

521 HUNTERDON STREET . NEWARK 8, NEW JERSEY

Printed in U.S.A.

Eastern

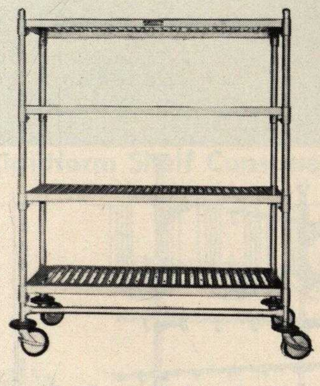
Sanitary Metal Refrigerator and Cold Storage Equipment

Since its founding in 1928, the EASTERN STEEL RACK COMPANY has at all times manufactured the finest in standardized refrigerator, display, mobile service and storage equipment. Our continuous engineering and development program has resulted in equipment that is unexcelled in utility, efficiency, durability and economy.

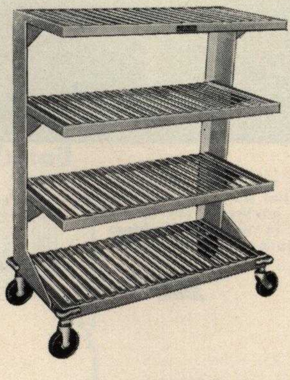
Our representatives are located in principal cities throughout the country, as listed on the back cover, and they as well as our engineering staff, are available at all times for consultation without obligation.

For more complete product information, please write for our general catalogue.

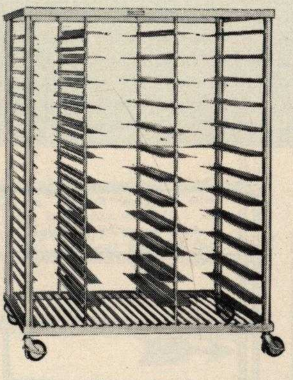
MOBILITY FOR UP-TO-DATE FOOD HANDLING EFFICIENCY



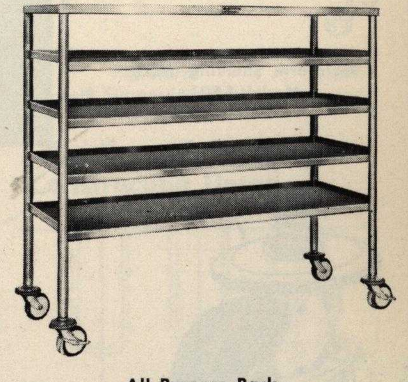
"Rigidform" Shelving Truck
Model 5701



Cantilevered Shelf Rack
Model MR 241

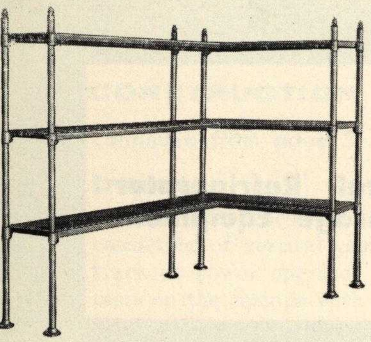


Platter Rack
Model MR 291

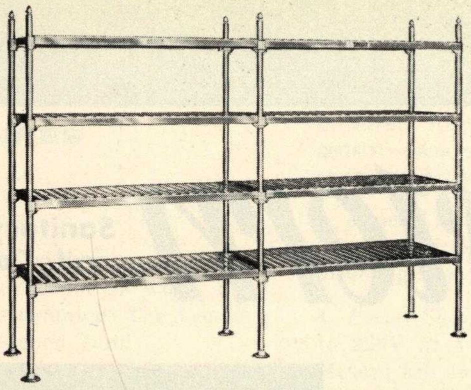


All Purpose Rack
Model MR 271

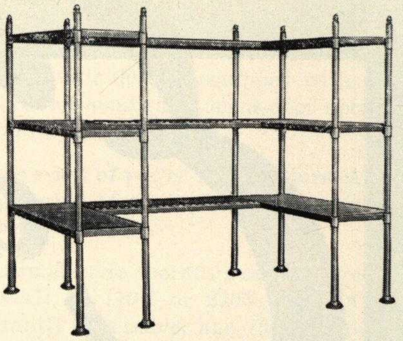
EASTERN STEEL RACK CO. BOSTON 25, MASSACHUSETTS



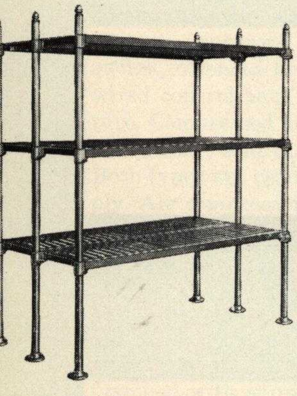
L Shape Rack



Self Supporting Rack



U Shape Rack



Double Section Rack

STANDARD SELF-SUPPORTING RACKS

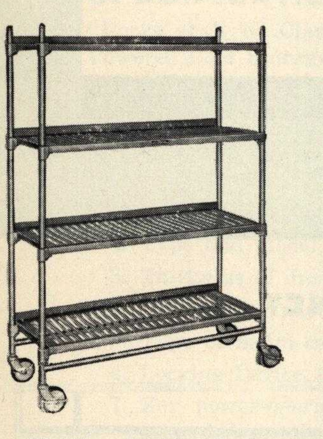
description

EASTERN Self-Supporting Racks are capable of carrying heavy loads without being fastened to the floor, wall or ceiling. They are furnished in a wide range of lengths, any number of tiers high, and in widths to the customer's specifications. The shelves are vertically adjustable and removable, and additional tiers and sections may be added at any time. The adjustability of the shelves eliminates the need for shims under the posts in cases where the floor slopes.

specifications

The Shelves shall be constructed of 1" wide, #12 gauge thick steel slats which are rounded and chamferred, spaced 1" aaprt, and flush riveted on 1½" x 1½" x ⅛" extra hard high carbon steel angle frames. For shelves 5'-6" long, or longer, the frames shall be made of 2" x 1½" x ⅛" angle. Each corner of the frame shall be welded and rigidly reinforced with a malleable iron wedge-type corner bracket. These corner brackets shall fit tightly in malleable iron wedge-type support brackets which are mounted on the posts, and locked in position by means of set screws. The posts shall be 1 5/16" o.d. high carbon steel tubing, fitted with cast semi-steel self-leveling floor flanges and ornamental acorn tops. The finish shall be hot dipped galvanized after fabrication. The shelves shall be vertically adjustable, and removable for easy cleaning. No bolts, nuts, or other fasteners shall be used for erection. For heavy duty construction it is recommended that 1 11/16" o.d. High Carbon steel posts be substituted for the 1 5/16" o.d. posts mentioned above.

Where shelves are two tiers high or less, or where overhead baffles are used it is recommended that the rear posts be expanded to the ceiling with Eastern Spring Expansion Fittings.



Rigidform Shelving Truck
Model 5501

MOBILE SHELF TRUCKS

Shelving on wheels and mobile display racks and trucks have been adapted to a variety of uses in food handling.

These racks are particularly popular because of:

1. Easy Cleaning — The entire rack can be easily rolled to the wash area for cleaning and with the racks out of the way, the refrigerator itself is easily cleaned.
2. Easy Loading Accessibility — The rack can be moved at will and loaded from all four sides.
3. Elimination of Secondary Loading — The rack can be loaded in the delivery area, stored in the refrigerator and then wheeled to the kitchen or other department for food processing. This saves double handlings.

The special ESR casters are specifically designed for the load requirements and give quiet travel with exceptional mobility.

All racks can be furnished either in stainless steel or in steel hot dipped galvanized after fabrication. These racks are also most suitable for use as pot and pan racks. Individual specification sheets, for various models, available on request.

MEAT RAIL RACKS

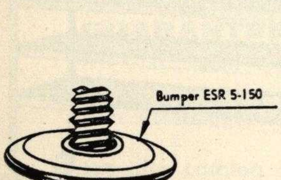
description

Meat Rail Racks are furnished with posts expanded to ceiling with EASTERN SRING EXPANSION FITTINGS and floor flanges. Brackets mounted on posts are vertically adjustable permitting any desired spacing. The standard bracket projections are Close, 3", 6", 9", 12".

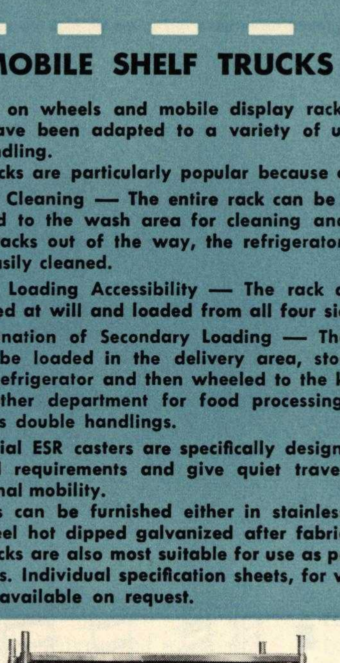
specifications

Meat Rail Racks (when not fastened directly to the wall) shall be furnished with posts expanded to ceiling with semi-steel dirt proof spring expansion fittings. Brackets shall be of pressed steel and shall be easily adjustable and removable. Rails shall be steel bar and Meat Hooks shall be steel with a tinned finish. Finish except for hooks shall be hot dipped galvanized after fabrication.

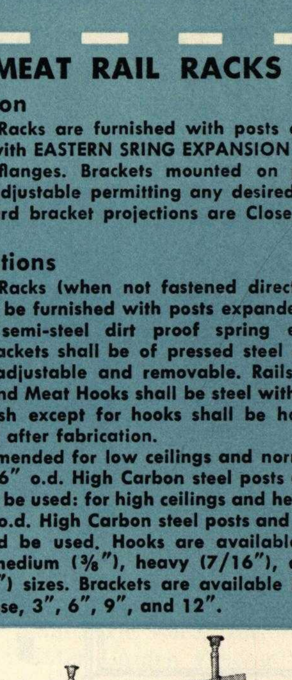
It is recommended for low ceilings and normal loads that 1 5/16" o.d. High Carbon steel posts and 1½" x ⅜" rails be used: for high ceilings and heavy loads 1 11/16" o.d. High Carbon steel posts and 2" x ⅜" rails should be used. Hooks are available in light (5/16"), medium (⅜"), heavy (7/16"), and extra heavy (½") sizes. Brackets are available in projections of close, 3", 6", 9", and 12".



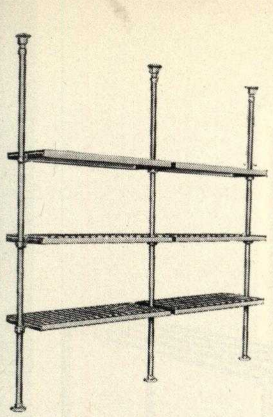
Brake Caster No. 5-115-2
5" Dia. 2" Wide
500 Lbs. Load.
"No-Flex" Wheel.



"Rigidform" Shelving Truck
Model 5601

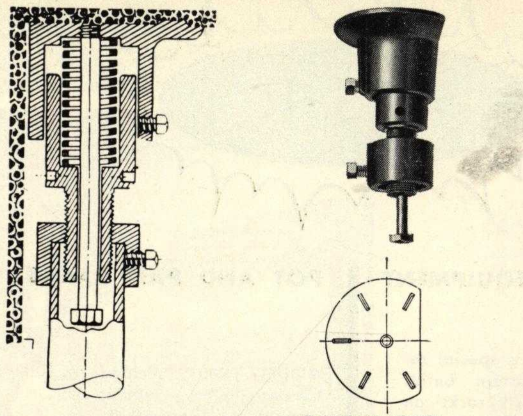


Expansion Post Type
Rail Rack



Single Post Rack

EASTERN SPRING EXPANSION FITTING



Top view of flange showing 5 projecting gripper prongs

description:

Assembled complete in one unit — the working parts of the SPRING EXPANSION FITTING are fully enclosed and protected from dirt and dust. This Eastern fitting has been especially designed to be a true 2-way expansion joint. Its use permits the very economical construction of single post supported equipment. Posts expanded beween floor and ceiling require absolutely no bolts for fastening or lagging. The economy it affords in moving and reassembling rack structures with a minimum of labor is an important cost saving factor.

specifications:

Spring Expansion Fittings shall be of cast semi-steel single unit construction fully enclosed and dirt-proof. The fittings shall be fastened rigidly to posts by means of set-screws. This shall be a two way expansion fitting. All parts hot dipped galvanized finish.

SINGLE POST RACKS

description

Racks of single post construction find greatest use where narrow space limits shelving widths. Space economy and cost savings are the important factors in determining the use of single post construction. This construction requires supporting posts expanded and rigidly secured to the ceiling by means of Eastern Spring Expansion Fittings. The need for bolt fastening is eliminated. The shelving is set solidly on studded brackets, and is vertically adjustable and easily removable for cleaning without disturbing the supporting posts. Sectional lengths of shelving are constructed to suit load requirements. The single post construction lends itself readily to L and U shaped arrangements, as illustrated, allowing greater space savings where the shelving lines walls in very narrow areas.

specifications

The shelves shall be constructed of 1" wide, 12 gauge thick steel slats which are rounded and chamferred, spaced 1" apart, and flush riveted on 1½" x 1½" x ⅛" extra hard high carbon steel angle frames. For shelves 5'-6" long, or longer, the frames shall be made of 2" x 1½" x ⅛" angle. Each corner of the frame shall be welded. The shelf shall fit on studded brackets which are mounted on the posts, and locked in position by means of set screws. The posts shall be high carbon steel tubing, 1 5/16" o.d. for ceilings up to 7'-0" in height and 1 11/16" o.d. for greater ceiling heights. The posts shall be fitted with two-way cast semi-steel expansion fittings and cast semi-steel self-leveling floor flanges. The finish shall be hot dipped galvanized after fabrication. The shelves shall be vertically adjustable, and removable for easy cleaning. No bolts, nuts, or other fasteners shall be used for erection.

RIGIDFORM STAINLESS STEEL RACKS

description

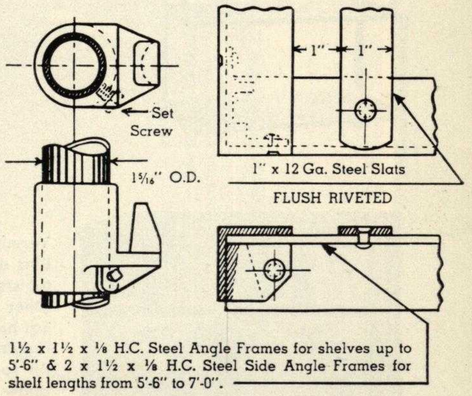
The standard self supporting racks and single post racks, as described on the opposite page, are also available in stainless steel. In addition Eastern now offers the Rigidform Stainless Steel Rack with pressed stainless steel shelves. The Eastern Rigidform Shelf is made of a single sheet of stainless steel, double flanged on all sides, rigidly embossed with no overlaps or obstructions to interfere with maintenance or cleaning. All shelves are vertically adjustable and removable for easy cleaning.

specifications

The Rigidform shelf shall be press formed from a single sheet of #14 ga., Type 18-8 stainless steel. The sheet shall be flanged down 1½" on all four sides and hemmed back full depth and ½" horizontally so that all flanges are double material thickness. The shelf shall be slotted 1¾" on centers, and the sides and ends of the slots shall be drawn down at an angle of 45° from the surface so as to give an equal depth of draw all around. Each corner of the shelf shall be welded, ground and polished, and rigidy reinforced with a CRM wedge-type corner bracket. These corner brackets shall fit tightly in stainless steel wedge-type support brackets which are mounted on the posts, and locked in position by means of stainless steel set screws. The posts shall be 1 5/16" o.d. stainless steel tubing, fitted with stainless steel self-leveling floor flanges and stainless steel ornamental tops. The shelves shall be vertically adjustable, and removable for easy cleaning. No bolts nuts or other fasteners shall be used for erection.

All shelves shall be shipped with a peelable coating to protect the polished finish. All post brackets shall be of stainless steel, die cast to meet ASTM Specification A296-49T-CF-8. All equipment shall be polished after fabrication.

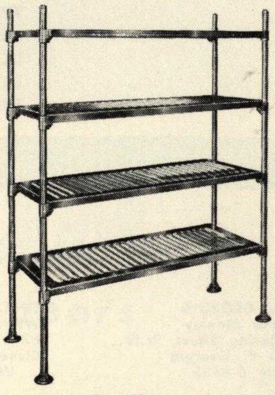
Standard Slatted Shelf and Support Construction Detail



1½ x 1½ x ⅛ H.C. Steel Angle Frames for shelves up to 5'-6" & 2 x 1½ x ⅛ H.C. Steel Side Angle Frames for shelf lengths from 5'-6" to 7'-0".

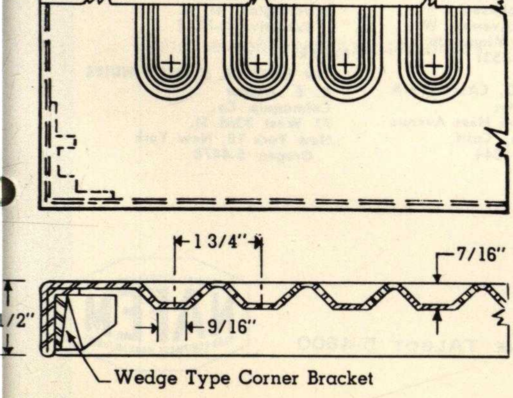
construction detail

This detail shows the shelf welded in the corners, the flush riveted slats, and the assembly of the wedge type malleable iron corner bracket. The tapered lug on the post bracket wedges into the corner bracket, locking the entire assembly sturdily in place.



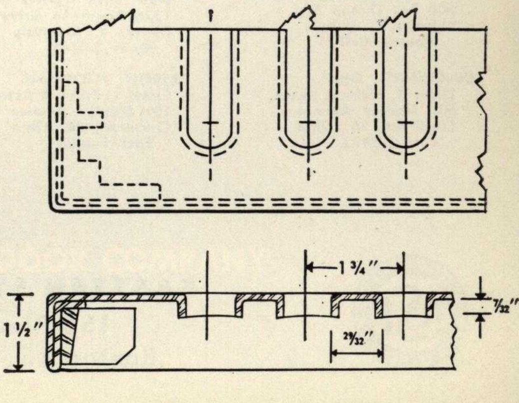
Rigidform Self Supporting Rack

Rigidform Shelf Construction Detail



This detail shows the 14 gauge metal flanged down 1½", and hemmed back full depth and ½" horizontally. It also shows the Rigidform slots, which are spaced 1¾" on centers. The corner of the shelf is rigidly reinforced with a wedge-type corner bracket into which the post bracket fits.

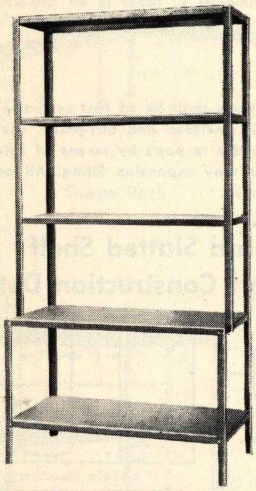
Rigidform F Shelf Construction Detail



This detail shows the #14 gauge metal flanged down 1½", and hemmed back full depth and ½" horizontally. It also shows the Rigidform-F slots, which are spaced 1¾" on centers, and the flat surface between slots. The corner of the shelf is rigidly reinforced with a wedge-type corner bracket into which the post bracket fits.

The specifications for Rigidform-F construction are the same as for the Rigidform construction except that "The shelf shall be slotted 1¾" on centers, and the sides and ends of the slots shall be drawn down at an angle of 90° from the surface so as to give an equal depth of draw all around. The surface between the slots shall be flat."

ESR



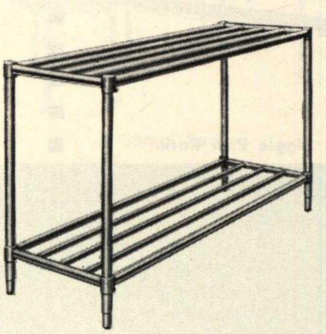
DRY STORAGE EQUIPMENT

Where there are special requirements, Eastern builds solid type shelf racks on angle iron uprights to specification. In the illustrated rack, the stepped construction provides a counter from which articles may be conveniently distributed.

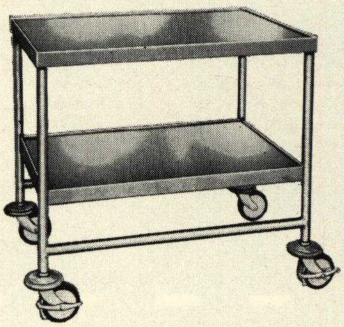
Vermin Proof Dry Storage Bins are used extensively for the storage of vegetables and other loose items which cannot be conveniently stored on regular shelving. The bins tilt forward when opened to allow for easy access. Units can be supplied with bins of various sizes and in various arrangements.

POT AND PAN RACKS

MODEL PR631 Welded tubular shelves—tubular uprights — adjustable bullet feet.



MODEL PR641 Solid Marine Edge Shelf — tubular uprights — swivel casters.



OTHER PRODUCTS

STAINLESS STEEL AND GALVANIZED STORAGE EQUIPMENT • MOBILE SHELVING AND PLATTER RACKS • PASTRY AND OYSTER RACKS • FROZEN FOOD STORAGE LOCKERS • PALLET STORAGE RACKS • FLOWER HOUSE RACKS • COLD STORAGE DOOR HARDWARE FOR COOLER, FREEZER AND VESTIBULE DOORS • SUPER MARKET DISPLAY EQUIPMENT — PANS — TRAYS — PLATTERS FOR SPECIAL USES • STEEL PRODUCTS FABRICATED TO SPECIFICATIONS.

REPRESENTATIVES

ATLANTA, GEORGIA
R. Lamar Manley
1301 Spring Street, N.W.
Atlanta 9, Georgia
Trinity 5-8755

BOSTON, MASSACHUSETTS
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P. O. Box 444
Sharon, Mass.
Sunset 4-2405

CHICAGO, ILLINOIS
Paul E. Dempsey
500 So. Throop St.
Chicago 7, Illinois
Monroe 6-4725

CINCINNATI, OHIO
Elmer J. Rieke & Assoc.
501 Stanley Avenue
Cincinnati 26, Ohio
East 1-3403

CLEVELAND, OHIO
William R. Rieke
6796 Parma Park Blvd.
Cleveland 30, Ohio
Victory 2-0198

DALLAS, TEXAS
Norval A. Dahl
Raleigh W. Johnson & Co.
3226 San Vicente Avenue
Dallas 28, Texas
Broadway 9-2550

DENVER, COLORADO
Step Sales Agency
1326 Santa Fe Drive
Denver 4, Colorado
Main 3-5746

DETROIT, MICHIGAN
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501 Stanley Avenue
Cincinnati 26, Ohio
East 1-3403

HOUSTON, TEXAS
Raleigh W. Johnson & Co.
3801 Richmond Avenue
P. O. Box 22022
Houston 27, Texas
Mohawk 7-9343

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3120 Kelton Avenue
Los Angeles 34, California
Granite 3-2450

MIAMI BEACH, FLORIDA
S. H. Sternberg
2149 Bay Drive
Normandy Island
Miami Beach, Florida
Union 6-1322

NEW YORK CITY, NEW YORK
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51 E. 42nd Street
New York, New York
Murray Hill 2-5089

SEATTLE, WASHINGTON
L. Davies & Co.
121 Boren Avenue North
Seattle 9, Washington
Main 3-1510

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1418 Walnut Street
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Pennypacker 5-3520

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1889 Arcade Building
St. Louis 1, Mo.
Central 1-8224

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Lowell 7-4666

WASHINGTON, D. C.
H. M. Sweeny Co., Inc.
517 Fourth Street, N. W.
Washington, D. C.
Executive 3-7818

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Calmaquip Co.
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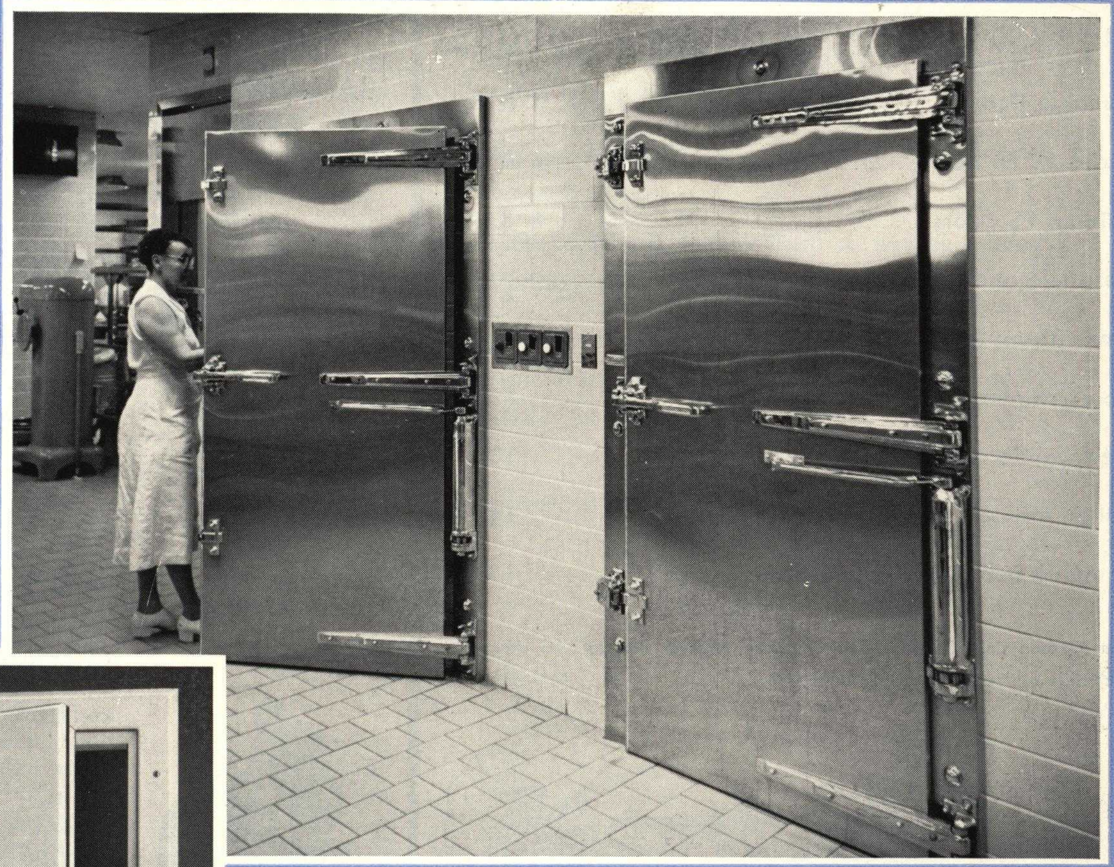
New York 10, New York
Oregon 5-4478

NATIONAL SANITATION FOUNDATION nSf TESTING LABORATORY

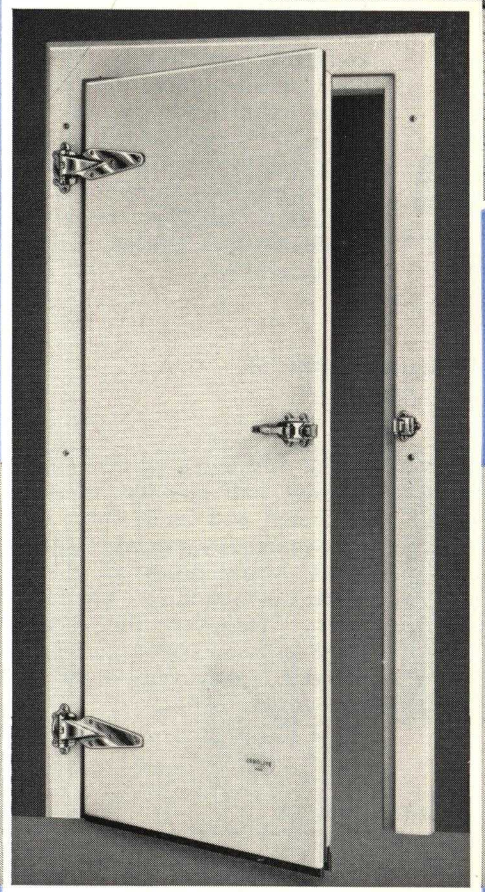
EASTERN STEEL RACK CO.
166 Pleasant Street
Boston 25, Massachusetts

TELEPHONE TAlbot 5-4600

NATIONAL ASSOCIATION OF NAFEM FOOD EQUIPMENT MANUFACTURERS



Model FS Doors — Jamison stainless steel clad doors



Jamolite lightweight plastic doors

JAMISON
cooler and freezer doors
for FOOD SERVICE

JAMISON COLD STORAGE DOOR COMPANY
HAGERSTOWN, MARYLAND

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Other Jamison Doors 14

Jamolite Doors—Special Purpose Doors 15

The Jamison Cold Storage Door Company reserves the right to change materials and construction without notice.

In this bulletin . . .

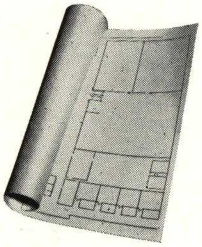
The doors shown in this catalog have been designed and built by Jamison to meet the specific conditions of use in Food Service installations. On the basis of many years of experience in this particular field, Jamison recommends these doors — plastic or stainless steel clad for cooler or freezer service — to solve most common problems in storage for food service in institutions, schools, hotels, hospitals, industrial cafeterias and similar establishments.

The purpose of this bulletin is to eliminate the necessity of designing special doors for Food Service installations and to save valuable time by facilitating specifying. Selection, therefore, becomes a matter of choosing between the new lighter weight Jamolite Plastic Doors or the FS metal clad doors, specifying cooler or freezer door depending on the temperature to be maintained in the storage area. Features and advantages of both types of doors are clearly detailed on following pages.

For applications beyond the scope of this bulletin, the services of Jamison representatives and Jamison's engineering department are available to help you solve your problem. Jamison manufactures a complete line of cold storage and engineered doors, some of which are shown on page 14.

JAMISON GIVES EXTRA SERVICE

Jamison assists architects in door selection and installation details

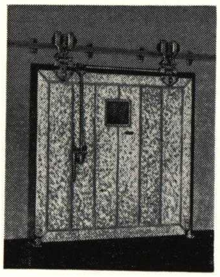


Jamison field representatives throughout the country are always available to work with architects in preparing layouts. They will help with the specifications to insure that the right door is used as well as the one most economical for the job.

Jamison helps contractors to quote on door specifications

Upon request, a Jamison representative will call upon the architect, and take off the door specifications the insulation contractor needs to quote on a job. He'll then help to interpret specifications and supply the contractor with quotations on the specified doors and any alternates that can be offered.

Jamison designs and builds all kinds of special doors



A full-time research and engineering staff enables Jamison to design and build doors for practically any special requirement. Many times, all that's needed is to modify a standard door. Whatever the need, Jamison is equipped and prepared to build any door to your order.

Jamison helps contractors on unusual service problems

Jamison representatives work with contractors to provide the user the best possible service. Advice and suggestions on installing doors can frequently save service cost and trouble. Help is also available on unusual service problems.

you can specify Jamison doors with confidence

In more than half a century of producing cold storage doors of all types, Jamison engineering has kept pace with the expanding use of refrigerated storage. New materials — stronger and lighter — combine with efficient design to provide dependable performance in cold storage doors with all the following qualities:

Maximum rigidity and strength with internal structural members held to a minimum in size and number to permit greatest possible insulation.

Highest quality lumber correctly seasoned for strength and stability.

Efficiency of insulating material to be equal to that installed in walls.

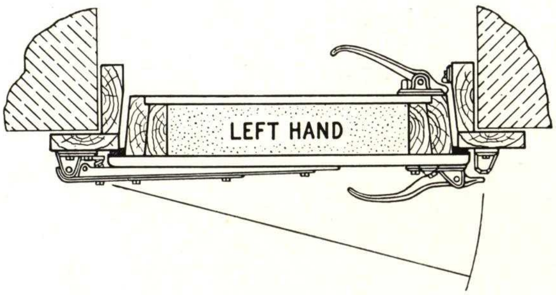
Protection of insulation by efficient vapor barrier on warm side.

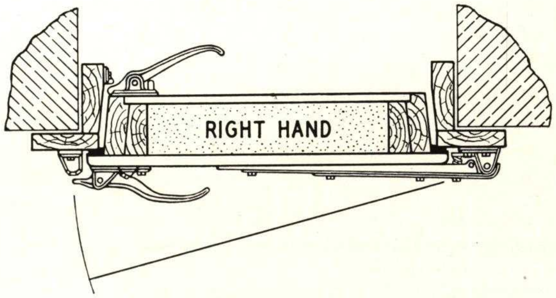
Gaskets to be soft and resilient to maintain adequate seal of door against casing.

Uniform compression of gasket. Hardware must be capable of compressing gasket uniformly around entire periphery of door.

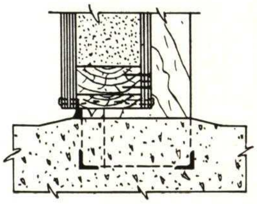
decide first on swing and type of sill

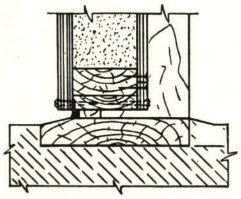
location of door—*right or left hand swing*

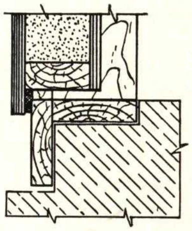




floor construction—*type of sill*


concrete sill


beveled wood sill


high sill

Concrete sills are most commonly used. The two sides of the frame are connected at the base with an angle iron spreader.

Beveled wood sills are supplied when specified at no additional charge. We recommend their use only when installed in wood floors.

High sills are supplied for step-up entrances and package passing doors.

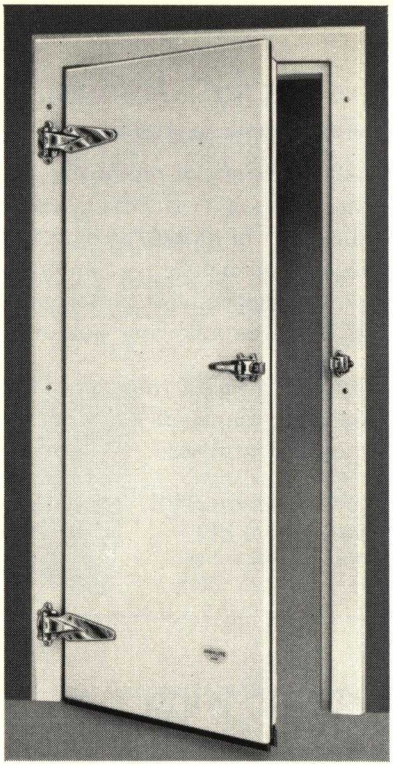
NEW LIGHTNESS AND COLOR

JAMOLITE* PLASTIC DOOR

FOR COOLER AND FREEZER ROOMS

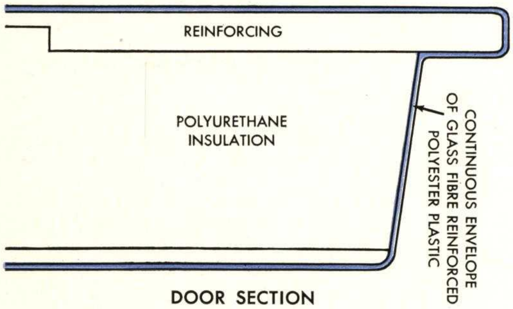
The new JAMOLITE Plastic Door is a flush-fitting, lightweight cold storage door designed for better appearance and easier operation. It is a lower cost door made in the same sizes as heavier metal clad doors and can be mounted on the same bucks. However, buck requirements for the JAMOLITE Door can be the same as for household doors, and one man can install door and frame. Insulation thickness of 4″ is standard for both cooler and freezer doors, with 6″ insulation available for severe conditions.

Surfaces: Exterior surfaces are hard, smooth, impact resistant. Attractive appearance is easily maintained by wiping clean with soap and water.

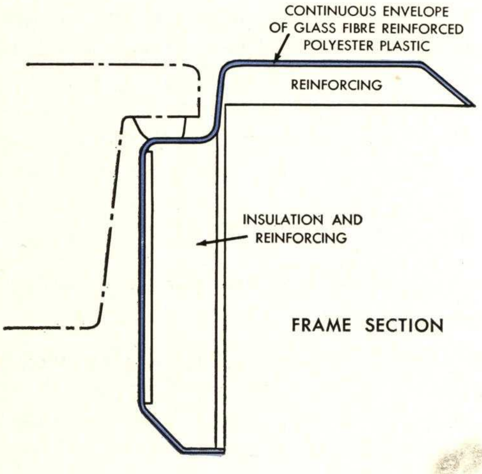


Construction Features

The JAMOLITE Plastic Door is molded with front and back sections of fibre glass reinforced polyester resin. Insulation is foamed-in-place polyurethane plastic which adheres to the outer shell surfaces in a permanent bond, adding rigidity and strength to the over-all door structure.


REINFORCING
POLYURETHANE INSULATION
CONTINUOUS ENVELOPE OF GLASS FIBRE REINFORCED POLYESTER PLASTIC

DOOR SECTION


CONTINUOUS ENVELOPE OF GLASS FIBRE REINFORCED POLYESTER PLASTIC
REINFORCING
INSULATION AND REINFORCING

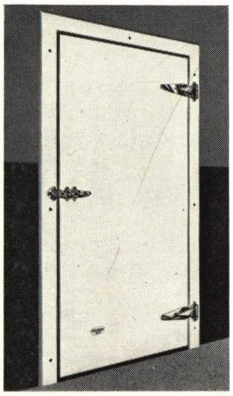
FRAME SECTION

JAMOLITE Colors

For the first time, a Food Service Door available in colors that will blend attractively with surroundings. JAMOLITE comes in gleaming white, blue-green, blue, ivory and salmon.

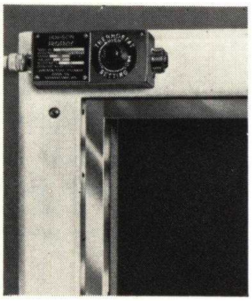
Flush Fitting

The front of the JAMOLITE door is flush with the front of the frame for modern appearance, easier cleaning, improved sanitation.



Jamison Frostop®

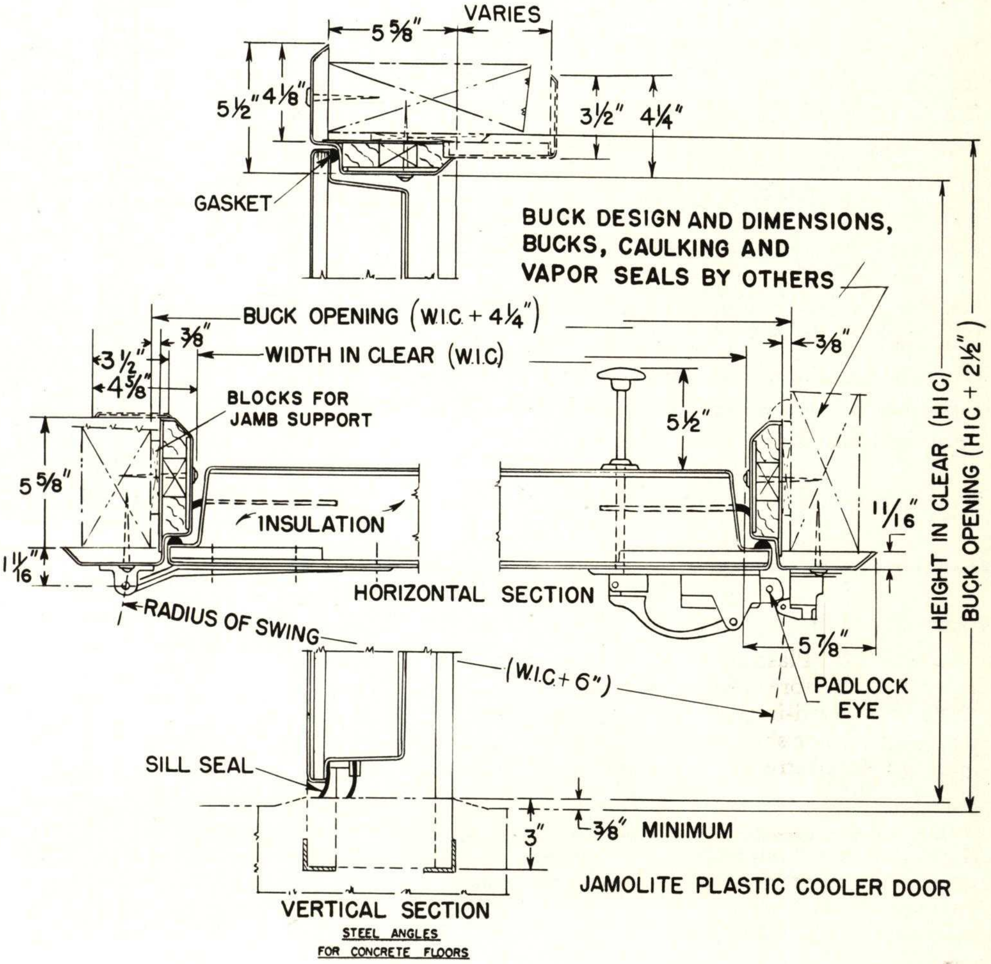
JAMOLITE Freezer Doors are kept from freezing shut with FROSTOP. Heater cables applied to head, sides and sill are controlled by adjustable thermostat.



*Jamison trademark

DIMENSION DETAILS JAMOLITE door - scale: 1″ = 1′ – 0″

Type of Door	Width in Clear	Height in Clear
Reach-In Door	2′0″	2′6″
Walk-In Door	2′6″	6′6″
	3′0″	6′6″
	3′6″	6′6″
	4′0″	6′6″
	4′6″	6′6″
	5′0″	6′6″


5⅝″
VARIES
5½″
4⅛″
3½″
4¼″
GASKET
BUCK DESIGN AND DIMENSIONS, BUCKS, CAULKING AND VAPOR SEALS BY OTHERS
BUCK OPENING (W.I.C. + 4¼″)
3½″
⅜″
WIDTH IN CLEAR (W.I.C)
4⅝″
⅜″
BLOCKS FOR JAMB SUPPORT
5½″
5⅝″
INSULATION
1 11/16″
11/16″
HORIZONTAL SECTION
RADIUS OF SWING
5⅞″
(W.I.C.+ 6″)
PADLOCK EYE
HEIGHT IN CLEAR (HIC)
BUCK OPENING (HIC + 2½″)
SILL SEAL
3″
⅜″ MINIMUM
JAMOLITE PLASTIC COOLER DOOR
VERTICAL SECTION
STEEL ANGLES FOR CONCRETE FLOORS

specification JAMOLITE PLASTIC cooler door

Construction of door and frame shall be equal in all ways to the JAMOLITE Cold Storage Door as manufactured by the Jamison Cold Storage Door Co., Hagerstown, Md. Door construction shall consist of two pans bonded together with polyester resin. Each pan shall have an outer layer of polyester plastic with appropriate color pigment. (*Specify desired color — JD white, JD blue-green, JD blue, JD ivory, JD salmon.*) Balance of pan to consist of glass fibre reinforced polyester plastic. The pan shall have sufficient blocking to receive hardware, etc.

The bonded pans shall be filled with 4″ of foamed-in-place polyurethane insulation with a K factor of 0.15 at 75°F. This material shall adhere to the inner and outer pans to achieve maximum unit rigidity. Weight of door less frame and hardware about 4½ lbs. per square foot. Door will be gasketed with sweep gaskets on sill and soft compressible gasket on sides and head.

Frame components shall be similar to the door construction with the exception that the jamb shall be insulated with polystyrene insulation and back of casing and jamb shall be completely sealed with a coating of polyester plastic. Face of casing to be flush with face of door.

Hardware to be chrome plated, ball bearing hinges, spring activated wedge type fastener with adjustable keeper. Provision for padlocking to be provided.

specification JAMOLITE PLASTIC freezer door

JAMOLITE Plastic Freezer Door specifications to be same as JAMOLITE Cooler Door except for this addition: "Door to be equipped on two sides, head and sill with Frostop heater cable with adjustable thermostat. Unit to be assembled ready for connection to 110 volt AC line."

GLEAMING, SANITARY STAINLESS STEEL

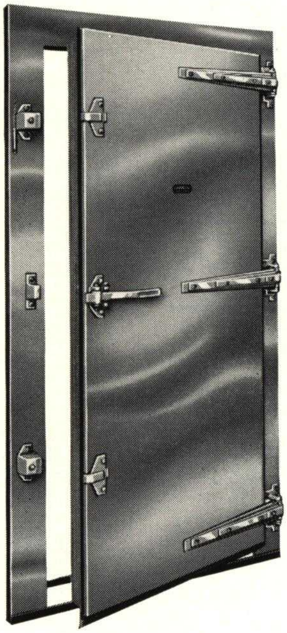
JAMISON SERIES "50"–FS DOOR

FOR COOLER ROOMS

The Jamison Series "50"-FS Door is designed for food service applications. The front and back panels are sheets of boat hull quality plastic-bonded plywood. This "box girder" design provides greater rigidity and overall strength, and also eliminates the need for internal bracing. Thus the entire space within the door has maximum unbroken insulation.

For the utmost in appearance and sanitation, stainless steel metal cladding with polished chrome hardware is specified. This door is also available with cladding of galvanized steel with hot dipped galvanized hardware.

Doors designed to swing into warm room.

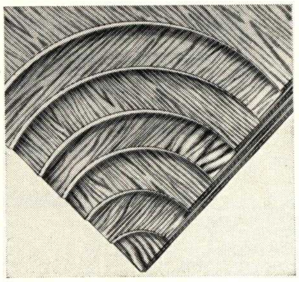


JAMISON SERIES "50"-FS WALK-IN DOOR
Stainless Steel Clad

SPECIFICATION FEATURES

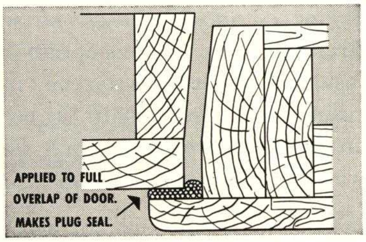
Boat Hull Plywood

Finest quality plywood, water-proof plastic bond. 7-ply front, 5-ply back. Rigid, box-girder construction eliminates internal bracing for maximum, unbroken insulation.



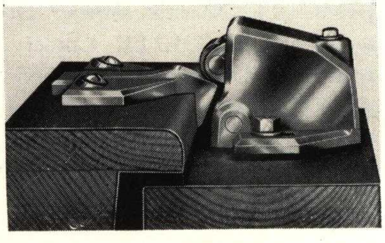
Lo-Temp Gasket

Soft, resilient. Impervious to grease and moisture. Forms perfect plug seal — expands into space between jambs.



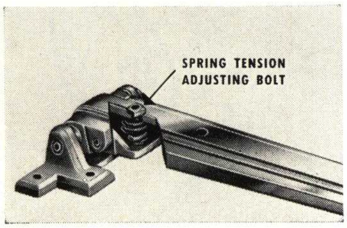
E-Z Open Two-Point Fastener

Adjustable tension assures tight seal, uniform pressure. Rugged cast construction. Patented heavy duty design.



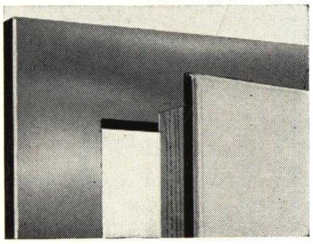
Adjustoflex Hinges

Automatic spring tension regulation, self and hand adjustable. Heavy cast construction, ball bearing equipped.



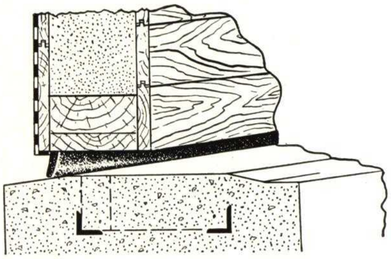
Metal Cladding

Application of metal cladding on door fronts and frames, and the sealing of all penetrating bolt holes, provides a vapor proof seal.

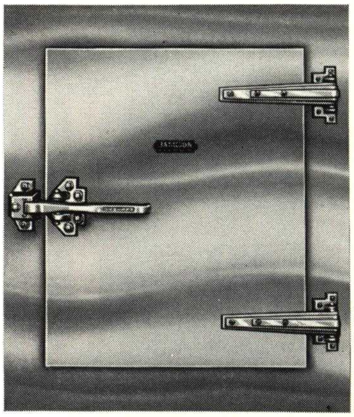


Sillseal Gasket

Flexible, abrasion and grease resistant, with no capillarity. Resilient, pliable, durable.

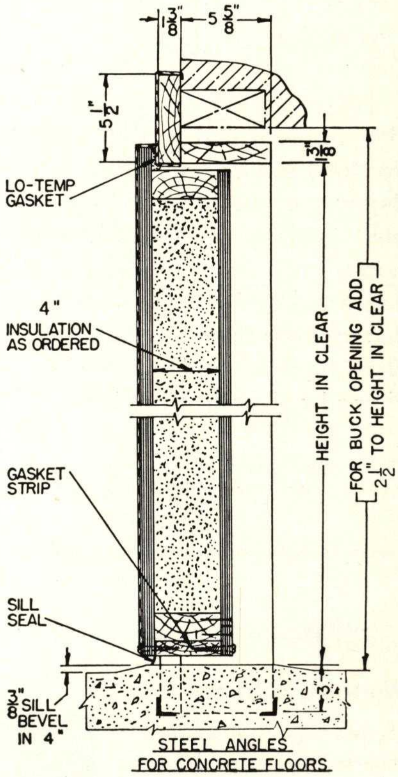


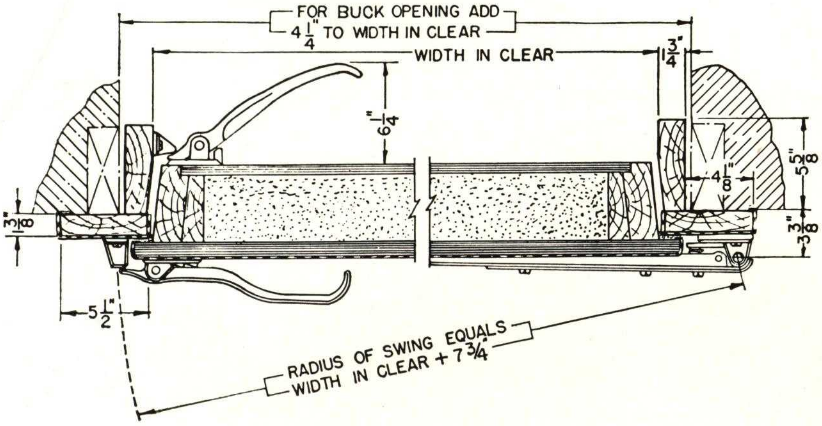
DIMENSION DETAILS cooler door - scale: 1″ = 1′ – 0″



JAMISON SERIES "50"-FS REACH-IN DOOR
Stainless Steel Clad

Type of Door	Width in Clear	Height in Clear
Reach-in Door	1′6″	1′6″
	2′0″	3′0″
	2′6″	2′0″
	2′6″	3′0″
	2′6″	3′6″
Walk-in Door	2′6″	6′0″
	2′6″	6′6″
	3′0″	6′0″
	3′0″	6′6″
	3′6″	6′6″


1 3/8
5 5/8"
5 1/2"
1 3/8"
LO-TEMP GASKET
4" INSULATION AS ORDERED
GASKET STRIP
SILL SEAL
3/8" SILL BEVEL IN 4"
STEEL ANGLES FOR CONCRETE FLOORS
HEIGHT IN CLEAR
FOR BUCK OPENING ADD 2 1/2" TO HEIGHT IN CLEAR


FOR BUCK OPENING ADD 4 1/4" TO WIDTH IN CLEAR
WIDTH IN CLEAR
1 3/4"
6 1/4"
5 5/8"
4 1/8"
3 3/8"
1 3/8"
5 1/2"
RADIUS OF SWING EQUALS WIDTH IN CLEAR + 7 3/4"

specification cooler door

Note: The following specification will provide a Jamison Series "50"-FS Cooler Door adequate for the majority of conditions to which a cooler door is subjected. However, it is recommended that the specification writer refer to Page 12 where variations in construction for special requirements are discussed. When necessary, the following specification may be easily revised.

cold storage door for cooler rooms

Refrigerator doors shall be equal to Jamison Series "50"-FS Cooler Door. Front and back panels shall be Boat Hull Plywood meeting Government Specification MIL-P-66A. Insulation shall be 4″ thick, same type as specified for refrigerator wall construction. Frame casings and jambs shall be kiln dried clear Douglas Fir.

Reach-In Doors shall have high sills. Walk-In Doors shall have angle iron sills for embedding in concrete floor. Swing of door to be as indicated on drawings.

Door to be hung in frame with Jamison heavy duty ball bearing hinges, self and hand adjustable. Each door to have adjustable, easy-opening, two-point fastener with inside and outside release handles. Provision to be made for padlocking, with inside safety release to open door from inside when padlocked on outside.

Gasket to be sponge rubber 1¼″ wide with grease-resistant skin. Sill gasket to be sweeper type, dense tough rubber, resistant to grease and moisture, with no capillarity.

Front of door and casing to be covered with No. 20 gauge stainless steel, type 302, #4 finish, applied in full sheets. All joints on front of door and casing of frame shall be welded, ground and polished. All penetrating bolts to be sealed. All hardware to be heavy cast construction, chrome plated.

If galvanized metal cladding and hot dipped galvanized hardware are desired, substitute the following for the paragraph in italics:

Front of door and casing to be covered with No. 26 gauge galvanized steel applied with locked and soldered seams. Metal on front of door in vertical panels. All penetrating bolts to be sealed vapor tight. All hardware to be heavy cast construction, hot dipped galvanized.

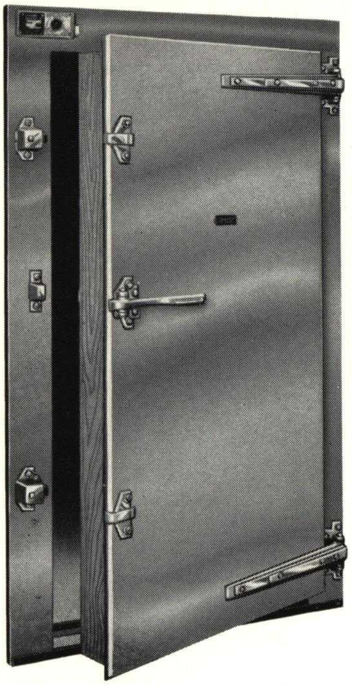
GLEAMING, SANITARY STAINLESS STEEL

JAMISON LO-TEMP FS DOOR

FOR FREEZER ROOMS

The Jamison Lo-Temp FS Door is specially designed for food service applications. It incorporates the basic features of the Jamison Lo-Temp Door and is of single seal infitting construction. To harmonize with the cooler room door, metal cladding is specified stainless steel and hardware is chrome plated. To protect against freezing shut, Frostop^{R} is specified. This door is also available in galvanized steel with hot dipped galvanized hardware.

Door designed to swing into warm room.

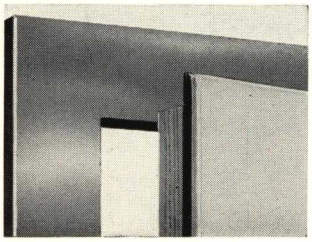


JAMISON LO-TEMP FS WALK-IN DOOR
Stainless Clad

SPECIFICATION FEATURES

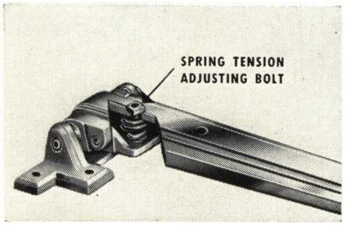
Metal Cladding

Application of metal cladding on door fronts and frames, which includes the sealing of all penetrating bolt holes, provides a vapor proof seal.



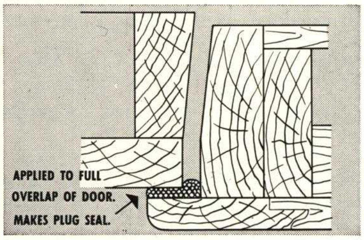
Adjustoflex Hinges

Automatic spring tension regulation, self and hand adjustable. Heavy cast construction, ball bearing equipped.



Lo-Temp Gasket

Soft, resilient, impervious to grease and moisture. Applied to full overlap of door. Forms perfect plug seal by expanding into space between jambs and door stiffeners.

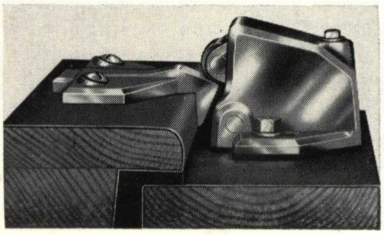


Jamison Frostop

Keeps doors from freezing shut with heater cables controlled by adjustable thermostat. Carries Underwriters' Laboratories label. Adjustable to meet service condition.

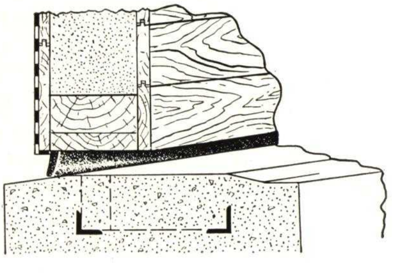
E-Z Open Two-Point Fastener

Adjustable tension assures tight seal, uniform pressure. Rugged, cast construction. Patented heavy duty design.

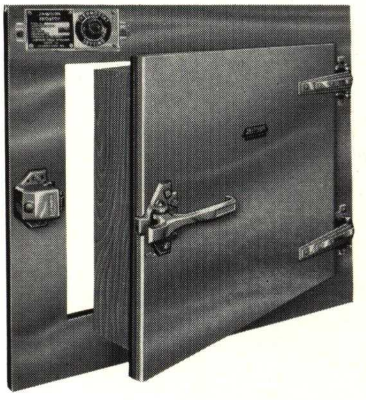


Sillseal Gasket

Flexible, abrasion and grease resistant, with no capillarity. Resilient, pliable, durable.

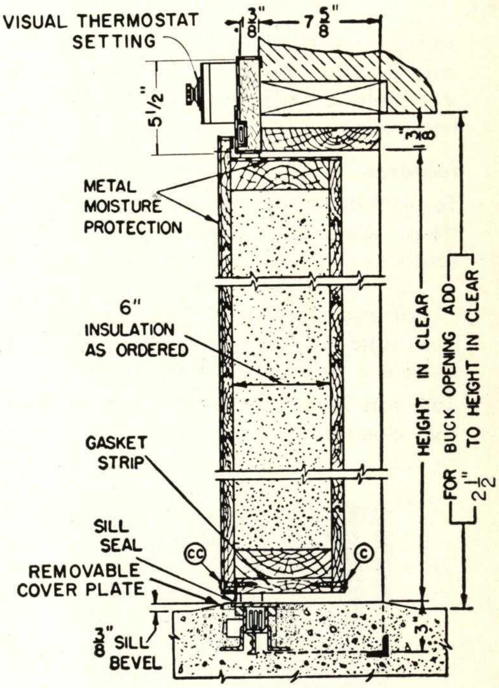


DIMENSION DETAILS freezer door - scale: 1″ = 1′ – 0″

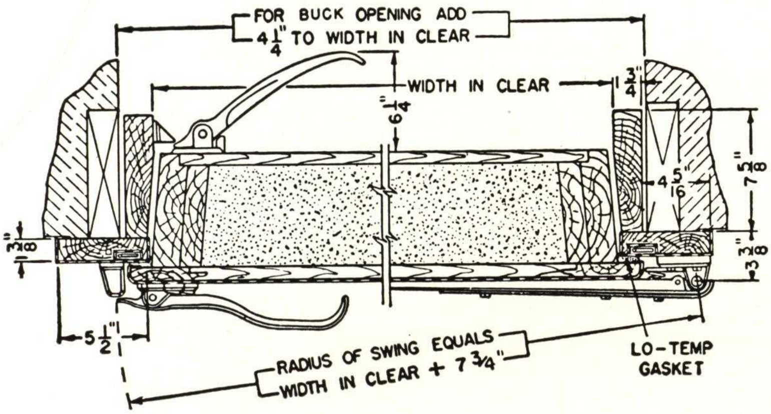


LO-TEMP FS REACH-IN DOOR
Stainless Clad

Type of Door	Width in Clear	Height in Clear
Reach-In Door	1′6″	1′6″
	2′0″	3′0″
	2′6″	2′0″
	2′6″	3′0″
	2′6″	3′6″
Walk-In Door	2′6″	6′0″
	2′6″	6′6″
	3′0″	6′0″
	3′0″	6′6″
	3′6″	6′6″


VISUAL THERMOSTAT SETTING
3/8″
7 5/8″
5 1/2″
3/8″
METAL MOISTURE PROTECTION
6″ INSULATION AS ORDERED
GASKET STRIP
SILL SEAL
REMOVABLE COVER PLATE
3/8″ SILL BEVEL
3″
HEIGHT IN CLEAR
FOR BUCK OPENING ADD 2 1/2″ TO HEIGHT IN CLEAR

STEEL ANGLES
FOR CONCRETE FLOORS


FOR BUCK OPENING ADD 4 1/4″ TO WIDTH IN CLEAR
WIDTH IN CLEAR
1 3/4″
6 1/4″
4 5/16″
5 1/2″
7 5/8″
3/8″
3 3/8″
5 1/2″
RADIUS OF SWING EQUALS WIDTH IN CLEAR + 7 3/4″
LO-TEMP GASKET

specification freezer door

Note: The following specification will provide a Jamison Lo-Temp FS Door which meets with the majority of conditions to which a freezer door is subjected. However, it is recommended that the specification writer refer to page 12 where variations in construction for special requirements are discussed. When necessary, the following specification may be easily revised.

cold storage door for freezer rooms

Freezer room doors shall be equal to Jamison Lo-Temp Door. Insulation shall be 6″ thick, the same type as specified for freezer wall construction.

Reach-In Doors shall have high sills. Walk-In Doors shall have angle iron sills for embedding in concrete floor. Swing of door to be as indicated on drawings.

Door to be hung in frame with Jamison heavy duty ball bearing hinges, self and hand adjustable. Each door to have adjustable, easy-opening, two-point fastener with inside and outside release handles. Provision to be made for padlocking, with inside safety release to open door from inside when padlocked on outside.

Gasket to be sponge rubber 1¼″ wide with grease-resistant skin. Sill gasket to be sweeper type, dense tough rubber, resistant to grease and moisture, with no capillarity.

Doors shall be equipped with a Frostop heater cable on two sides, head and sill. Complete device to carry Underwriters' label and to be supplied assembled ready for connection to 110 Volt AC line.

Front of door and casing to be covered with No. 20 gauge stainless steel type 302, #4 finish, applied in full sheets. All joints shall be welded, ground and polished. All penetrating bolts to be sealed. All hardware to be heavy cast construction chrome plated.

If galvanized metal cladding and hot dipped galvanized hardware are desired, substitute the following for the paragraph in italics:

Front of door and casing to be covered with No. 26 gauge galvanized steel applied with locked and soldered seams. Metal on front of door in vertical panels. All penetrating bolts to be sealed vapor tight. All hardware to be heavy cast construction, hot dipped galvanized.

VESTIBULE UNITS

with Auto-Close Doors

Jamison Auto-Close Doors can be hung in the same frame with the cooler or freezer door to form a Vestibule Unit. This prevents excessive loss of refrigeration.

features

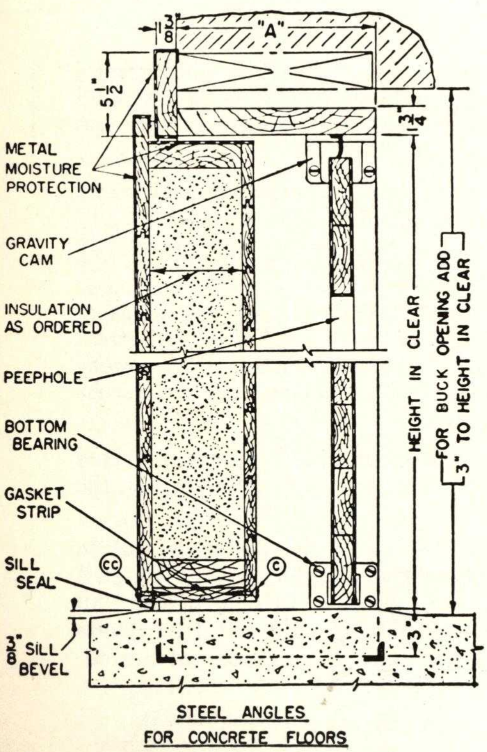
To withstand service under the most severe conditions, Auto-Close Doors are designed with special features that add strength and durability:

1¼" wood core enclosed in No. 14 gauge galvanized steel sheet, lower four feet; No. 20 gauge around remaining height. Metal riveted through heavy cold rolled steel shaft.

Jamison Two-Way Gravity Cams for automatic, positive closure.

JAMISON FS VESTIBULE UNIT

dimension details **scale: 1" = 1' — 0"**



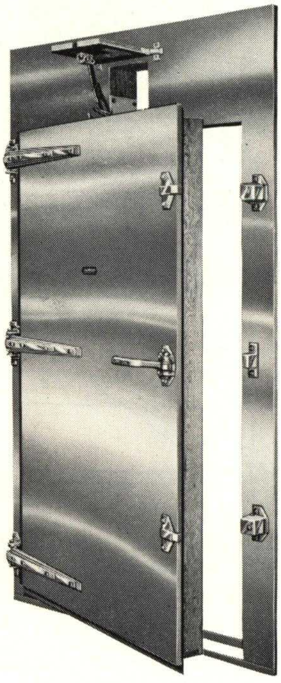
3/8
"A"
5 1/2"
1 3/4"
METAL MOISTURE PROTECTION
GRAVITY CAM
INSULATION AS ORDERED
PEEPHOLE
BOTTOM BEARING
GASKET STRIP
SILL SEAL
(CC)
(C)
3/8" SILL BEVEL
3"
HEIGHT IN CLEAR
FOR BUCK OPENING ADD 3" TO HEIGHT IN CLEAR
STEEL ANGLES FOR CONCRETE FLOORS

Insulation Thickness	Dimension A
4"	11"
6"	13"

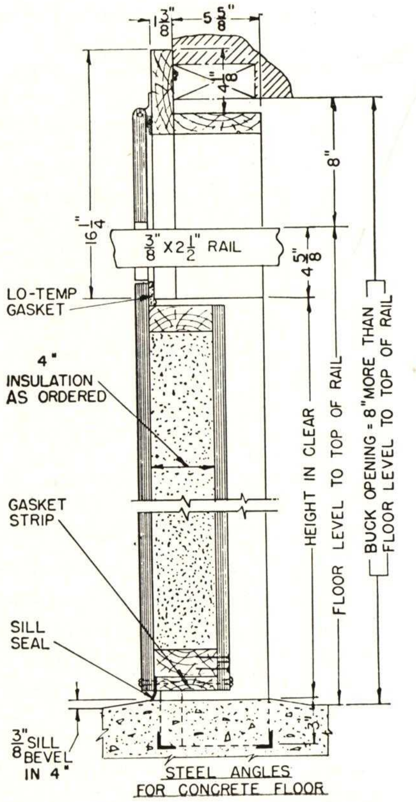
Note: Clear passage when Auto-Close Doors are parallel to door jamb is 3½" less than width in clear for Double Auto-Close Doors and 1¾" for Single Auto-Close Door.

TRACK DOORS

The Track Doors are designed for use where material must be moved on overhead track rails. Jamison Track Doors are equipped with Jamison "Adjustoflex" Track Port Operator. The track port is fully open when entrance door opens as much as 10°. Heavy duty metal parts are hot-dipped galvanized. Vestibule Track combinations can also be supplied.



SERIES "50"-FS
TRACK DOOR



1 3/8"
5 5/8"
4 5/8"
8"
16 1/4"
3/8" X 2 1/2" RAIL
4 5/8"
LO-TEMP GASKET
4" INSULATION AS ORDERED
GASKET STRIP
SILL SEAL
HEIGHT IN CLEAR
FLOOR LEVEL TO TOP OF RAIL
BUCK OPENING = 8" MORE THAN FLOOR LEVEL TO TOP OF RAIL
3/8" SILL BEVEL IN 4"
3"
STEEL ANGLES FOR CONCRETE FLOOR

JAMISON FROSTOP®

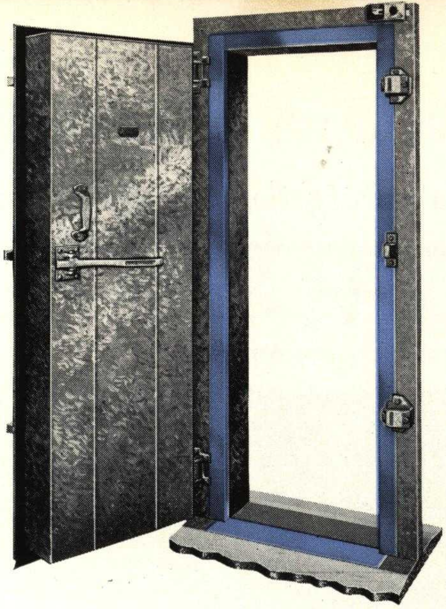
KEEPS DOOR FROM FREEZING SHUT

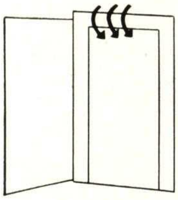
The operation of doors in low temperature service is often impaired by a build-up of ice on gasket contact areas of frames and sills. Jamison's practical solution to this severe problem is FROSTOP, an optional feature on Jamison doors of all types and sizes.

FROSTOP consists of thermostatically controlled heater cables embedded in the frames and sills where door gaskets make contact. FROSTOP prevents formation of frost or ice at gasket contact area even where temperatures are as low as —50°F.

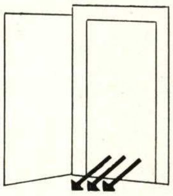
Jamison FROSTOP with terminal control box insures adjustable temperature settings, increasing effectiveness of FROSTOP for each particular installation. The new design provides a useful temperature range from 60°F to 120°F. High temperatures, which deteriorate gaskets, and low temperatures which would permit ice formation are thus avoided.

FROSTOP listed under Re-examination Service of Underwriters' Laboratories, Inc., available installed in casing of frame and sills of insulated doors from 1′6″ x 2′ to 8′ x 10′ for both swinging and horizontal sliding doors.

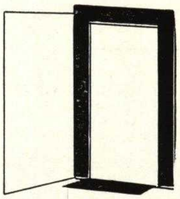




When door is opened, warm, moist air enters at top.



Cold, dry air rushes out at bottom.



FROSTOP prevents condensation at gasket contact area.

TYPICAL BUCK CONSTRUCTION

Jamison Cooler and Freezer Doors are shipped hung in the frame complete with all necessary hardware, ready to set in the wall.

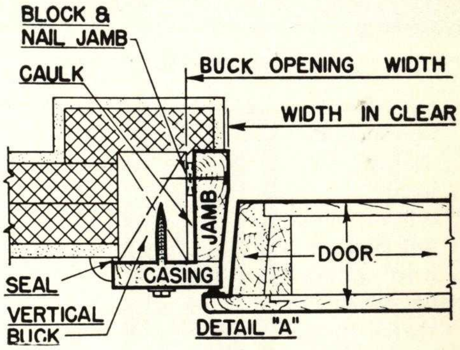
To determine the correct buck opening add to width and height dimensions—found in tables of sizes for cooler and freezer doors—the following dimensions:

	For buck opening width	*For buck opening height
	Add to width in clear	Add to height in clear
JAMOLITE DOORS		
Reach-In	4¼″	3½″
Walk-In	4¼″	2½″
COOLER DOOR SERIES "50"-FS		
Reach-In	4¼″	3½″
Walk-In	4¼″	2½″
FREEZER DOOR LO-TEMP FS		
Reach-In	4¼″	3½″
Walk-In	4¼″	2½″

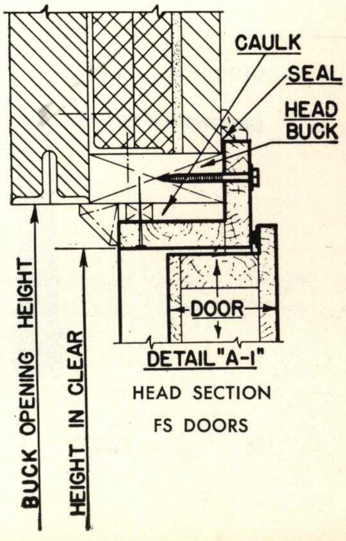
*Walk-in (angle iron sill) concrete floor
Reach-in (high sill)

The proper size of bucks is very important. Type of door, size and wall construction all affect selection of buck size. Wood or steel may be used. Wood bucks should never be less than 3″ x 4″ rough size for the smallest doors.

Complete and detailed information on buck construction will be furnished promptly by your Jamison representative.



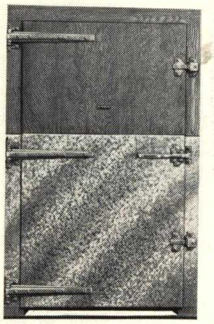
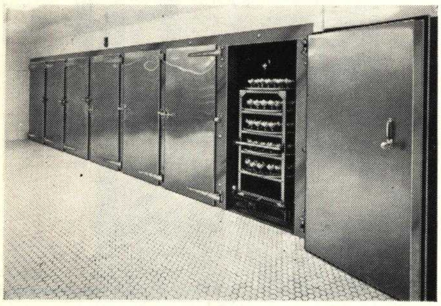
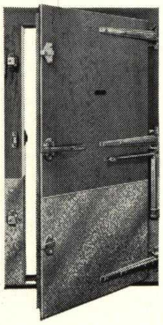
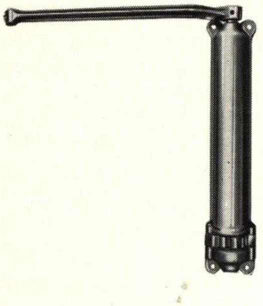
JAMB SECTION
FS DOORS



HEAD SECTION
FS DOORS

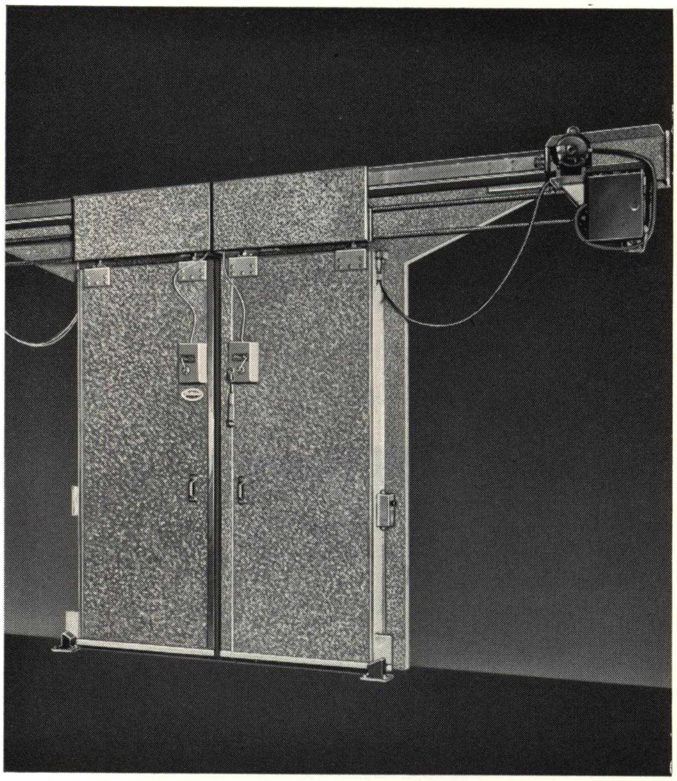
JAMISON COLD STORAGE DOORS

design and construction of FS doors to meet special conditions

feature	description	application
metal protection against abuse 	1. Kick plates 4′ high No. 10 gauge galvanized steel back, front and edges of door. 2. Frame protected 4′ high No. 10 gauge galvanized.	To protect against battering by trucks.
complete metal cladding 	All exposed portions of door and frame covered with stainless or galvanized sheet steel.	For doors exposed to severe conditions — weather, high humidity, condensation. Extreme conditions will require all seams be sealed Vap-r-tyt.
booted door 	1. 20 gauge galvanized metal cladding with soldered seams 30″ high. Boot completely encloses lower door and frame. 2. Full height protection applied in same manner.	1. For use in dairies, milk rooms or similar locations where wet floors are found. 2. For use where wash-downs are frequent.
automatic door closer 	Heavy duty mechanism consisting of specially wound steel spring fully enclosed. Galvanized or chrome plate.	Saves refrigeration by automatically closing door. Can be made inoperable during loading or unloading.

JAMISON

Electroglide®



ELECTRIC HORIZONTAL SLIDING DOORS

High volume traffic can now speed on its way in busy cooler and freezer operations with minimum loss of refrigeration. Electroglide is specifically designed to accelerate truck movement with its instant automatic opening and closing.

Rapid smooth opening — Spring suspension helps doors open easily and smoothly. Doors move "out" and "up", riding on level tracks with gaskets clear of sill and frame. Electroglide is made for both cooler and freezer use.

These other exclusive features mean dependable, smooth operation:

EXCLUSIVE CAM LOCK COMPRESSION SEAL—Cam lock cams doors "in" against frame and "down" against floor at all points.

SHOCK ABSORBER CHAIN LINK — reduces wear and tear.

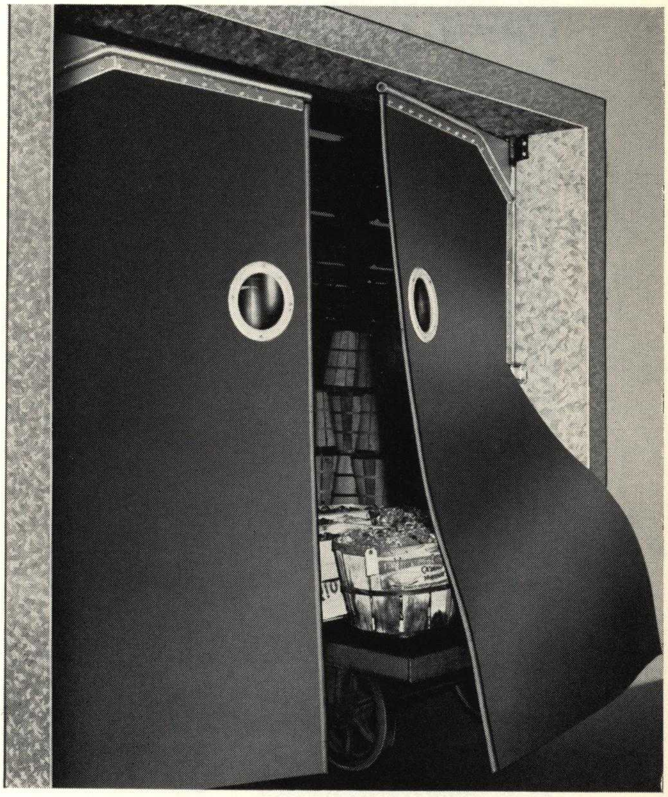
SPRING LOADED SUSPENSION — minimizes power requirements.

IMPROVED SAFETY EDGE — sensitive full height and full travel of door.

SEALED-IN-OIL REDUCTION GEAR — trouble-free operation, minimum maintenance.

JAMISON

flexidor®



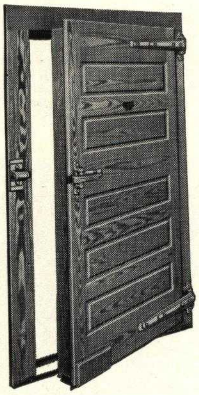
RUBBER BATTEN DOORS

JAMISON Flexidor is designed to overcome the costly expense of door maintenance and damage caused by the use of fork lift trucks. Mechanization in warehousing and the necessity for more rapid handling of materials have resulted in the need for self closing doors that can withstand the constant battering of bump-open trucking, and at the same time provide adequate closure to maintain temperatures in refrigerated areas. Draft conditions through the doorway should be considered in selection of this type of door.

exclusive features

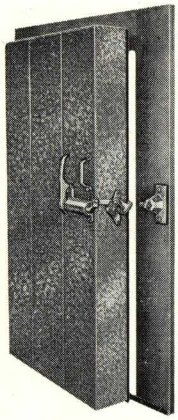
- Tough, "live" neoprene, ¼" thick
    - rip resistant
    - non-marking
    - resistant to grease and oils
    - flexible down to —40°F.
- Plastic peep holes
- Special Jamison hardware
- Door jamb guard
- Reinforced door noses
    - Special molded construction adds strength, assures good closure and fast opening, prevents wrap-around on impact.

OTHER JAMISON DOORS FOR EVERY CONDITION



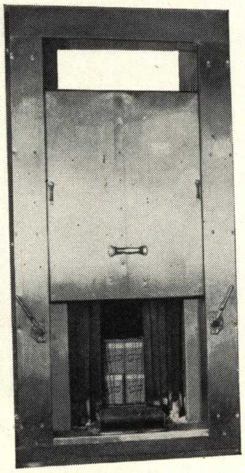
raised panel doors

Jamison Standard Raised Panel Construction.



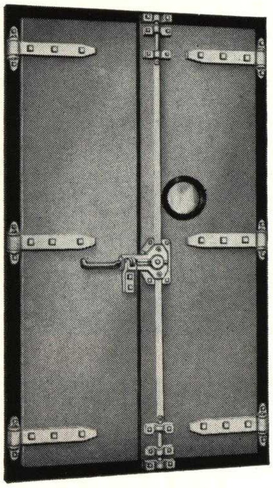
super freezer doors

For zero and sub-zero use.

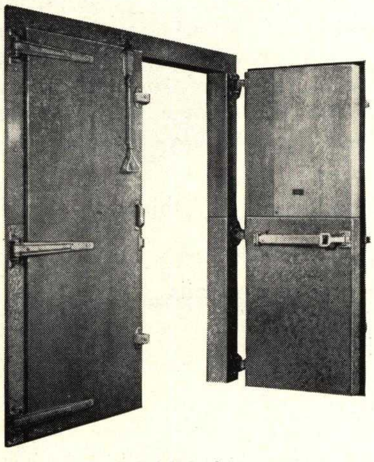


vertical sliding operation

Low temperature package passing unit shown.

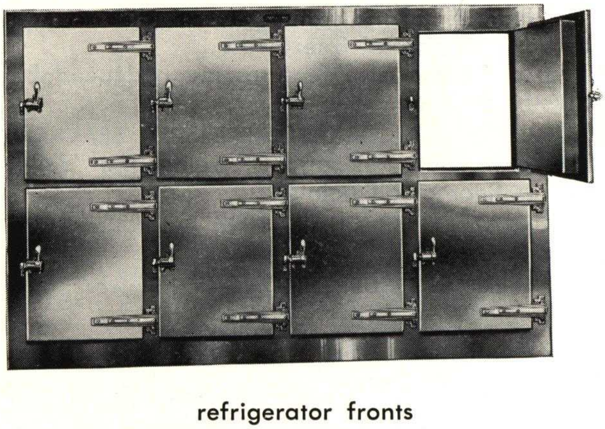


insulated all metal smokehouse door



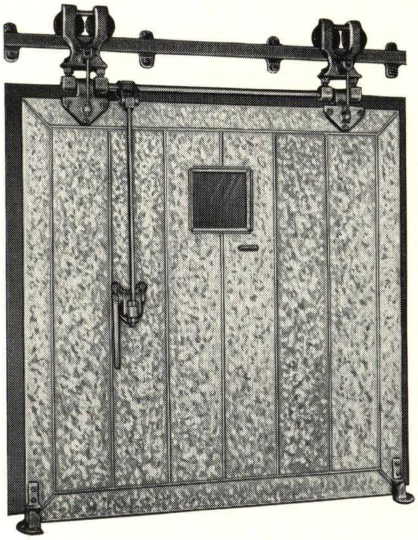
double doors

For use in unusually wide openings, or to provide greater passageway clearance.

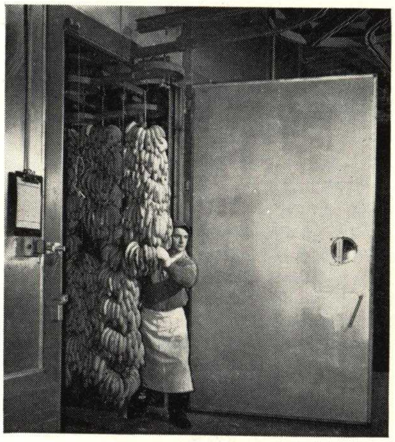


refrigerator fronts

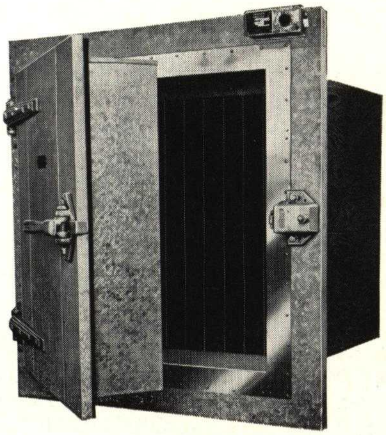
Doors or windows for reach-in convenience.



horizontal sliding door



banana room door



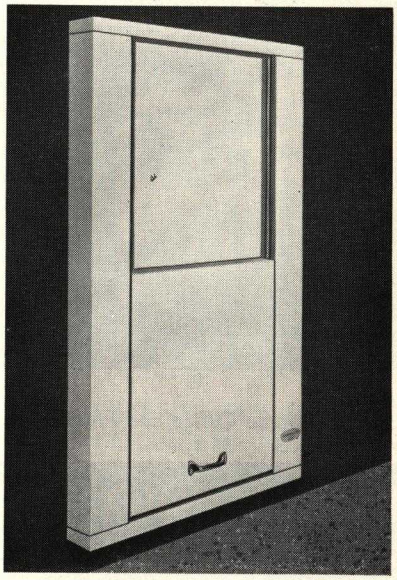
Jamison low temperature deep tunnel door

Strip rubber curtains maintain air lock in tunnel during package passing.

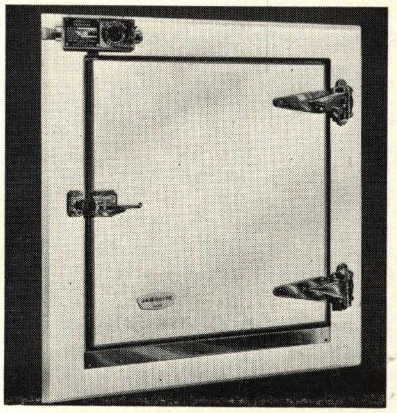
JAMOLITE PLASTIC DOORS

are designed to meet
all requirements . . .

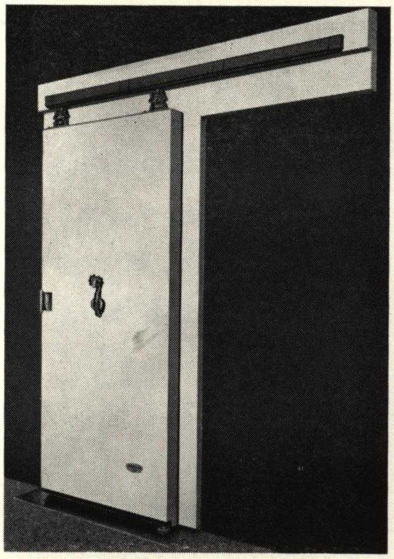
23c
Ja



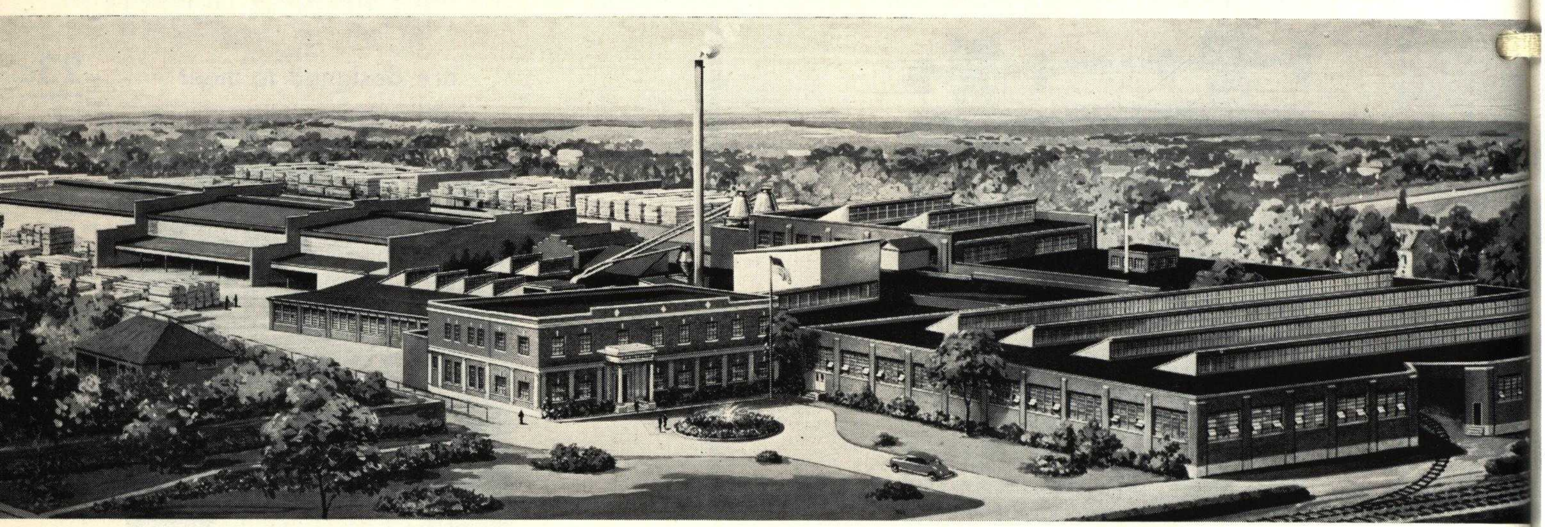
JAMOLITE vertical sliding



JAMOLITE reach-in freezer door with FROSTOP



JAMOLITE horizontal sliding



The Jamison Home Office and Plant at Hagerstown, Maryland

JAMISON COLD STORAGE DOOR COMPANY
HAGERSTOWN, MARYLAND, U.S.A.

BRANCH OFFICES AND DISTRIBUTORS

ATLANTA 3, GEORGIA
John W. Parker & Associates,
815 Bona Allen Bldg., 133 Luckie St., N. W.

CHICAGO 10, ILL.
Jamison Cold Storage Door Co., Boyce Bldg., 500 N. Dearborn St.

CINCINNATI 24, OHIO
Jamison Cold Storage Door Co., 5912 Hamilton Ave., P. O. Box 72

CLEVELAND 15, OHIO
Fielding-Wales Co., 1836 Euclid Ave.

DENVER 17, COLO.
McCombs Supply Co., P. O. Box 5304 Terminal Annex

DETROIT 26, MICH.
George C. Cossaboom, 155 W. Congress St.

HONOLULU 3, HAWAII
Von Hamm-Young Co., Ltd. P. O. Box 2630

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Jamison Cold Storage Door Co., 322 Ten Sixteen Baltimore Bldg.

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Jamison Cold Storage Door Co., 2456 Overland Ave.

MINNEAPOLIS 9, MINN.
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Jamison Cold Storage Door Co., 11 West 42nd St.

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OMAHA 2, NEB.
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CORPUS CHRISTI — 525 Glazebrook St.
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FORT WORTH — 600 Bailey St.
HOUSTON — 714 Bastrop St.
LUBBOCK — 3608 Avenue A
SAN ANTONIO — 722 West Hildebrand Ave.

CANADA

The Edward Milner Co., Limited
Toronto 16, Ontario — P. O. Box 250
Montreal 26, Quebec — 6650 Darlington Ave.

FOREIGN

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John Brown, P. O. Box 1057, Nassau

CALCUTTA, DOMINION OF INDIA
Universal Refrigeration Corp., Ltd., 47 Southern Avenue

HAVANA, CUBA
Euzkadi, S. A. P. O. Box 1441, Jesus Del Monte

LIMA, REPUBLIC OF PERU
Pedro Martinto, Inc., 90 West St., New York 6, N. Y.

MANILA, R. of PHILIPPINES
Koppel (Philippines), Inc., Taft Ave. Cor. San Luis St.

MEXICO, REPUBLIC OF
Occidental Electric Co., 201 Bankard Ave.
P. O. Box 466, Nogales, Ariz.

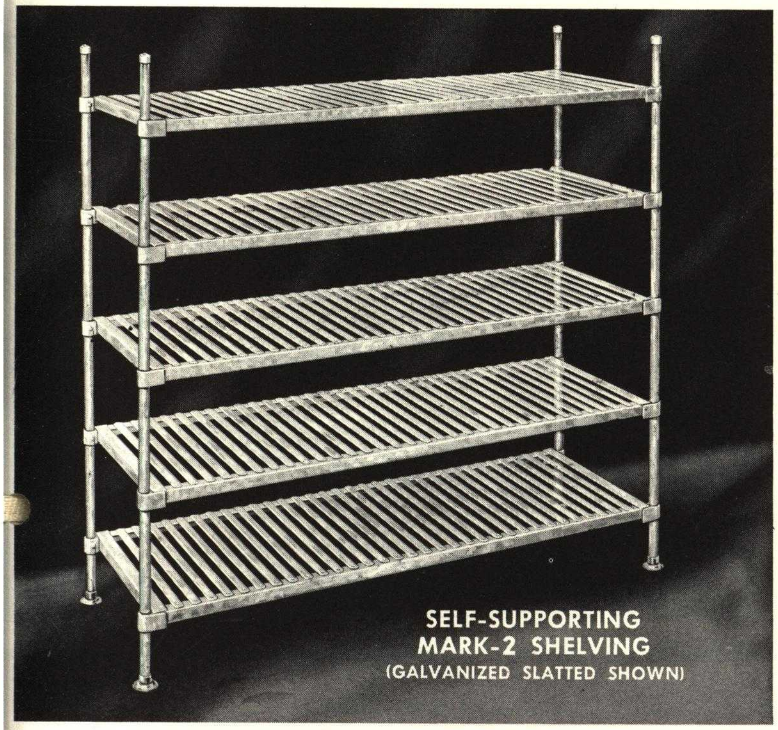
PANAMA, R. de P.
Electric Service Co., Apartado Postal 676, Ave. 7a Central 15-95

SAN JUAN 22, P. R.
San Miguel & Compania, Inc., Puerta de Tierra
Fernandez Juncos Ave., P. O. Box 4391

SCHLIEREN ZH, SWITZERLAND
Utzinger & Huni, A. G.

Printed in U. S. A,

MARKET FORGE MARK-2 SHELVING USES **ALL** AVAILABLE STORAGE SPACE*



SELF-SUPPORTING
MARK-2 SHELVING
(GALVANIZED SLATTED SHOWN)

ELIMINATES HIGH COST OF UNUSED STORAGE AREAS

- Stainless Steel or Hot Dipped Galvanized.
- Self Supporting or Special Expansion Design for Floor-To-Ceiling Installation.
- Slatted or One Piece **UNI-FORM.**
- Stationary or Mobile Sections.
- All Self-Supporting Shelving rigidly supported on exclusive wedge-type brackets and 6′0″ tubular posts.
- Can be used as Single or Multiple Sections; "L", "U" shaped or straight line arrangements.

USED EXTENSIVELY BY

HOSPITALS
SCHOOLS
INPLANT FEEDING
SUPERMARKETS
HOTELS
RESTAURANTS
WAREHOUSES
MESS HALLS

FOR STORAGE OF

MEATS
DAIRY PRODUCTS
FRUITS and VEGETABLES
PACKAGED FOODS
POTS and PANS
GLASSWARE
CHINA
FROZEN FOODS

IN REFRIGERATED AND OTHER STORAGE AREAS

SHELF LENGTHS in increments of 2″, from 2′6″ to 7′6″.

SHELF WIDTHS in increments of 2″, from 12″ to 2′6″.

SHELVES EASILY REMOVABLE AND ADJUSTABLE. Infinite vertical adjustment. Additional shelves can be added at any time.
Shelving units can be used singly, as multiple section shelf racks or in corner layouts.

SELF-SUPPORTING — A rigid, self-supporting installation without floor, wall or ceiling attachments. Building damage is entirely avoided. Shipped knocked down to save shipping and storing costs and time, yet easily assembled without the use of nuts or bolts.

SANITARY, HEAVY DUTY, EASY TO CLEAN. Market Forge shelves with tubular posts clean easily and last a lifetime. All posts have stainless steel top caps and feet. Minimum of crevices and joints. Small containers easily stored on the sanitary no-tip surface without falling or spilling.

The only shelving approved by the National Sanitation Foundation, Ann Arbor, Michigan.

*Detailed data comparing MARK-2 shelving with shelves of limited stock sizes indicate as much as 70% increased utilization of storage areas.

Originators and manufacturers of Refrigerated Storage Racks since 1897.

MARKET FORGE COMPANY
EVERETT 49, MASSACHUSETTS

© MARKET FORGE CO. 1959

Stainless Steel UNI-FORM Shelving.
The Ultimate in Storage Equipment.

Galvanized Slatted Shelving. Rugged Standard of Excellence in Low Cost Shelving.

MARKET FORGE MARK-2 SHELVING

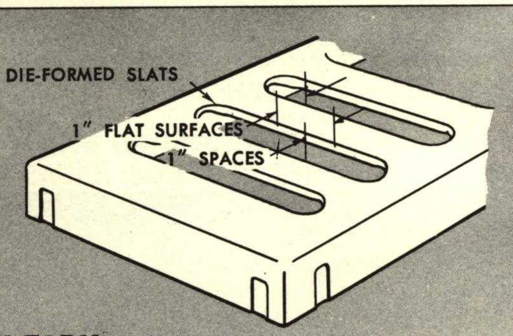
NEW UNI-FORM SHELVES

STAINLESS STEEL TYPE SD OR GALVANIZED STEEL TYPE GD

Low initial cost plus the new sanitary NO-TIP FLAT SURFACES make this design in shelving outstanding. Excellent for storage of small containers as well as for bulky food stuffs, there's never a danger of spillage. This new shelving is unsurpassed for more productive, better organized storage in refrigerated spaces and storage rooms.

CONDENSED SPECIFICATIONS — UNI-FORM Shelves

- Self-Supporting Shelving. #16 gauge type #302 stainless steel with #4 mill finish or #16 gauge galvanized steel.
- 1" wide die-formed channel shaped slots with integral 5/16" vertical flange reinforcement.
- Widths from 12" to 2'6". Lengths from 2'6" to 7'6". (Normal width is 24").
- Entire shelf perimeter flanged and hemmed to provide double pressed thickness.
- Vertically adjustable brackets. All shelves readily removable. Self-leveling floor flanges.
- Posts of stainless steel or galvanized steel.
- All Shelving approved and listed by the National Sanitation Foundation.


DIE-FORMED SLATS
1" FLAT SURFACES
1" SPACES

UNI-FORM SHELVING
STAINLESS STEEL TYPE SD, GALVANIZED STEEL TYPE GD

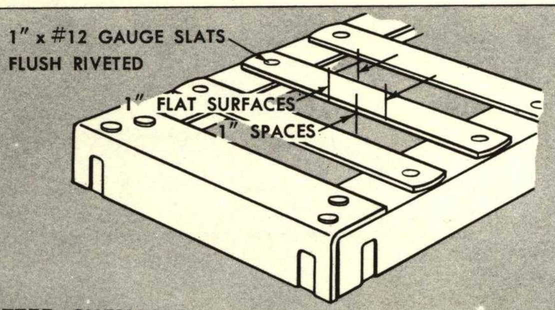
SLATTED SHELVES

HOT DIPPED GALVANIZED AFTER FABRICATION TYPE GS

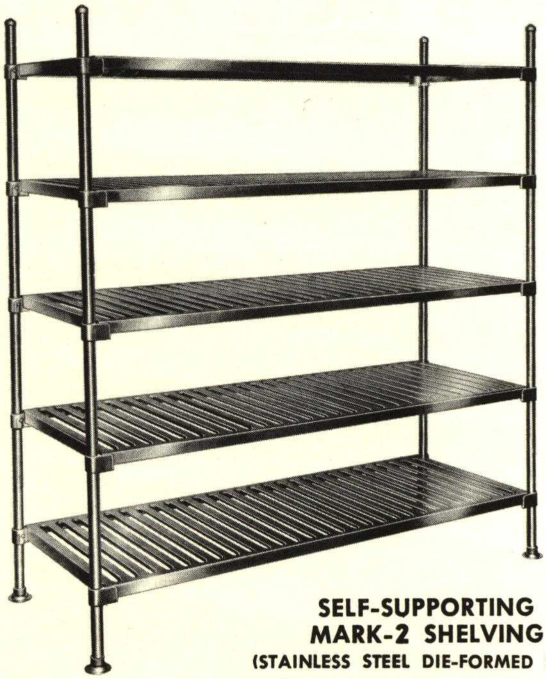
Just a wipe with a sponge cleans the completely exposed air-circulated surfaces of Market Forge Shelving. A rigid, self-supporting installation, it need not be fastened to wall or ceiling. Constructed of steel, hot dipped galvanized after fabrication, slatted shelving is efficiently designed for every storage requirement where a quality, low cost installation is required.

CONDENSED SPECIFICATIONS — Slatted Galvanized Shelves

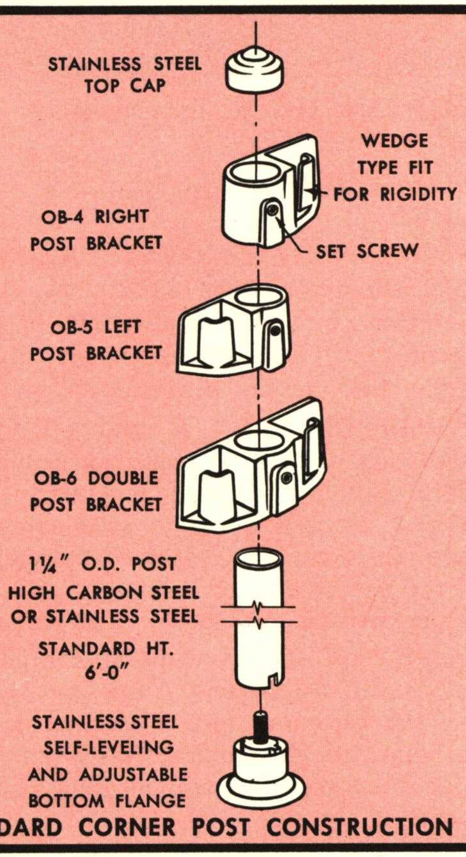
- 1½" x 1½" x ⅛" angle frame with 1" wide flush riveted slats spaced one inch apart.
- Widths from 12" to 2'6". Lengths from 2'6" to 7'6" (Normal width is 24").
- Vertically adjustable brackets. All shelves readily removable. Self-leveling floor flanges.
- All Shelving approved and listed by the National Sanitation Foundation.


1" x #12 GAUGE SLATS
FLUSH RIVETED
1" FLAT SURFACES
1" SPACES

SLATTED SHELVING
HOT DIPPED GALVANIZED TYPE GS

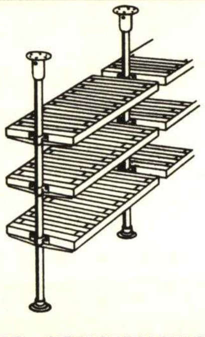


SELF-SUPPORTING
MARK-2 SHELVING
(STAINLESS STEEL DIE-FORMED SHOWN)


STAINLESS STEEL
TOP CAP
WEDGE
TYPE FIT
FOR RIGIDITY
OB-4 RIGHT
POST BRACKET
SET SCREW
OB-5 LEFT
POST BRACKET
OB-6 DOUBLE
POST BRACKET
1¼" O.D. POST
HIGH CARBON STEEL
OR STAINLESS STEEL
STANDARD HT.
6'-0"
STAINLESS STEEL
SELF-LEVELING
AND ADJUSTABLE
BOTTOM FLANGE

STANDARD CORNER POST CONSTRUCTION

Recommended for narrow width shelving or where shelves have an aisle on both sides. Cannot be used on hung ceilings.



ALTERNATE POST-TO-CEILING CONSTRUCTION

MARKET FORGE MOBILE SHELVING

For sanitary and heavy duty use in the loading, transporting and storing of foods, utensils, pots and pans, racks and all general storage requirements in the institutional field. Combines all the features of Market Forge self-supporting shelving with quiet mobility. Facilitates fast clearing and cleaning of refrigerated spaces and expedites transporting of food from receiving to storage areas.

BASIC SPECIFICATIONS

- 3 shelf types available:

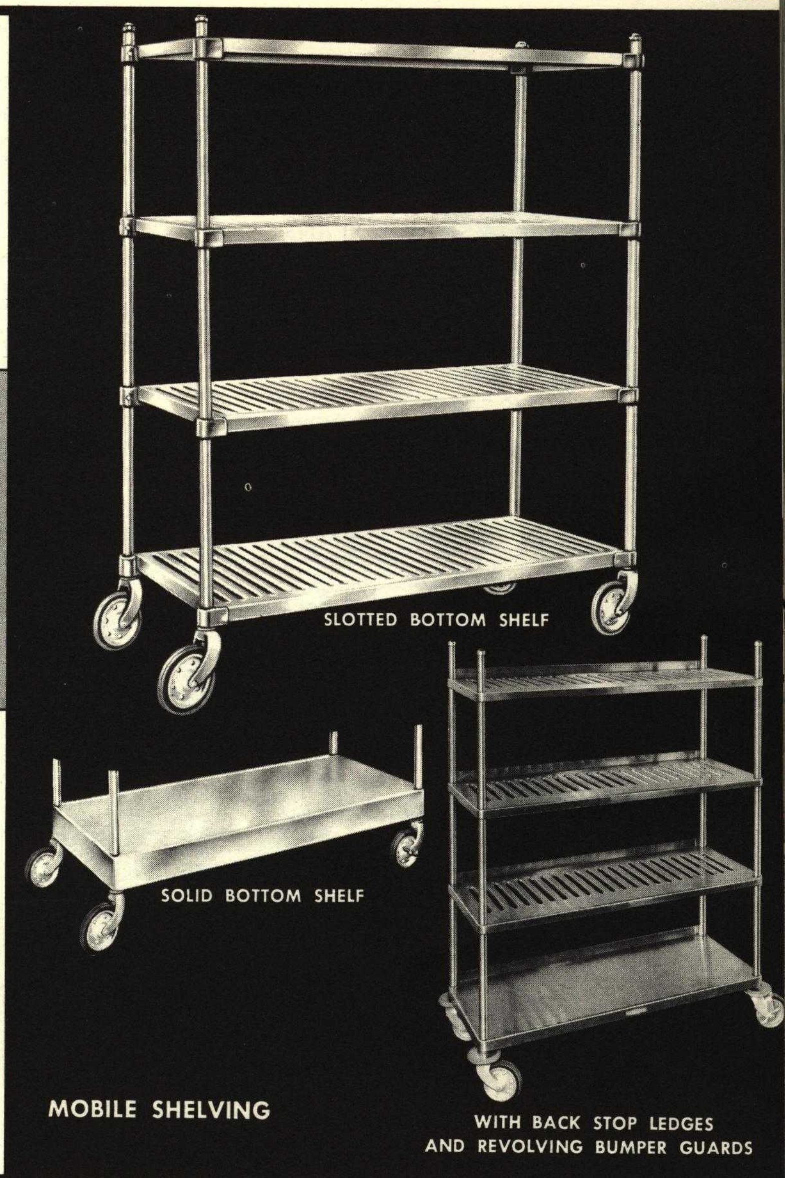
UNIFORM STAINLESS STEEL OR GALVANIZED UNITS

#16 gauge, one piece type 302 stainless steel or galvanized shelves. Perimeter flanged down, hemmed back full depth with horizontal flanged reinforcement. 1″ slots spaced 2″ on center with 5/16″ vertical flanges. Stainless steel (or galvanized) posts and wedge fit brackets at shelf corners.

SLATTED GALVANIZED UNITS

1½″ by 1½″ by ⅛″ high carbon angle frame. 1″ slats flush riveted 1″ apart. Malleable cast iron wedge fit brackets hot dipped galvanized. Galvanized posts.

- All mobile equipment bears the National Sanitation Foundation seal of approval.
- Tubular post construction. Easy bracket adjustment facilitates removal, addition or adjustment of shelves.
- Heavy duty special Market Forge casters — neoprene tired, 5″ dia. with roller bearing wheels and ball-bearing swivels. (Two casters equipped with brakes as standard equipment).
- Bottom shelf available in solid or slotted design.
- Wide range of models and sizes available, each of which is designed to meet the specific requirements of food service handling and storage. Consult the convenient reference table below. Three, four, and five shelf models available.



SLOTTED BOTTOM SHELF

SOLID BOTTOM SHELF

MOBILE SHELVING

WITH BACK STOP LEDGES
AND REVOLVING BUMPER GUARDS

AVAILABLE TYPES	
UNIFORM STAINLESS STEEL OR GALVANIZED UNITS	
Stainless Steel Die-Formed — All Shelves slotted.	SDM
Stainless Steel Die-Formed — All Shelves Slotted except Solid Bottom Shelf.	SDMB
Galvanized Die-Formed — All Shelves Slotted.	GDM
Galvanized Die-Formed — All Shelves Slotted Except Solid Bottom Shelf.	GDMB
SLATTED GALVANIZED UNITS	
Galvanized Shelves — All Shelves Slatted.	GSM
Galvanized Shelves — All Shelves Slatted Except Solid Bottom Shelf.	GSMB

HOW TO ORDER MOBILE SHELVING

Order Mobile Shelving by combining the TYPE as shown in the left hand column with the MODEL NUMBER shown in the table below. For example, SDM-4821-4

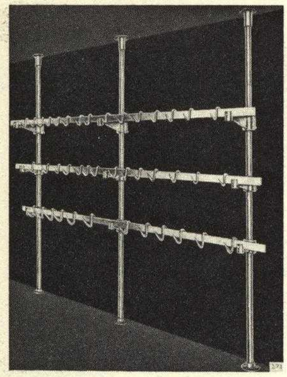
SDM - 48 21 - 4

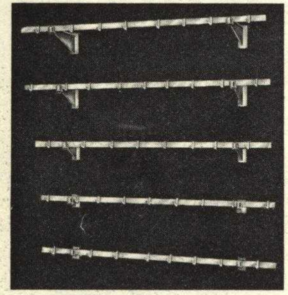
TYPE LENGTH WIDTH SHELVES HIGH

			MODEL NUMBERS		
LENGTH	WIDTH	HEIGHT	3 SHELVES HIGH	4 SHELVES HIGH	5 SHELVES HIGH
36″	21″	66″	3621-3	3621-4	3621-5
48″	21″	66″	4821-3	4821-4	4821-5
	27″	66″	4827-3	4827-4	4827-5
56″	21″	66″	5621-3	5621-4	5621-5
	27″	66″	5627-3	5627-4	5627-5

OPTIONAL ACCESSORIES shall be furnished if specified: • Back stop ledges. • Revolving bumper guards on casters, non-marking gray rubber, 5″ dia. steel discs with sloping upper surface. • Special length and widths available.

MARKET FORGE STORAGE RACK EQUIPMENT


EXPANSION TYPE POST-TO-CEILING
Type G-RC (Galv.) or Type S-RC (St. St.)


WALL MOUNTED
Type G-RW (Galv.) or Type S-RW (St. St.)

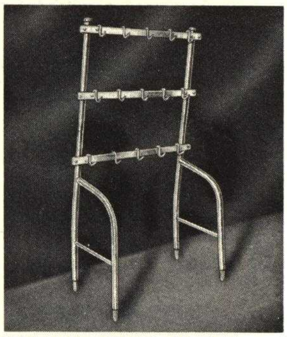
MEAT HOOK RACKS

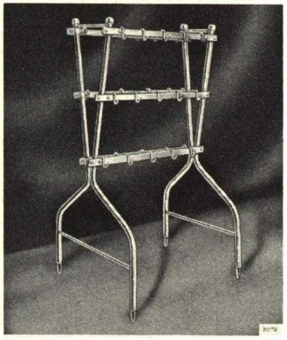
RUGGEDLY BUILT TO HANDLE ALL LOADS Market Forge Meat Hook Racks are sturdily constructed of high carbon steel, hot dipped galvanized after fabrication. Also available in all stainless steel. Shipped knocked down, easily assembled.

EXPANSION TYPE POST-TO-CEILING MODELS. Sturdy, tubular posts allow easy vertical adjustment and removal of brackets and rails to meet every changing need. With the spring-loaded expansion fittings, posts are rigidly and safely expanded between floor and ceiling. Rails are available for light or heavy duty use with four sizes of tinned or stainless steel hooks. Racks are furnished with standard components of three rails. Six sizes of projection type brackets are available from 1″ to 12″.

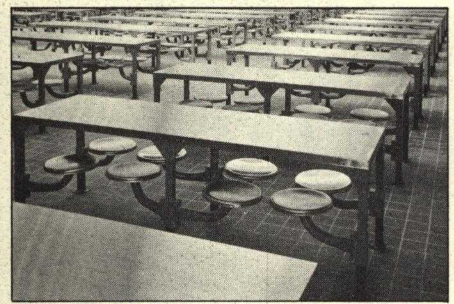
SELF-SUPPORTING SINGLE AND DOUBLE UNITS. Where ceiling construction will not permit use of post-to-ceiling rail racks, the self-supporting meat hook racks meet all the requirements for quality, low cost installation. Rails are vertically adjustable. Welded tubular post frames with adjustable bullet feet. Standard unit 4′ long with three rails and 15 hooks.

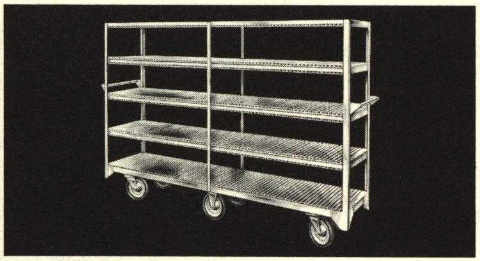
WALL MOUNTED. Wall Mounted Meat Hook Racks. Consisting of rails and projection type brackets. Easily fastened, for efficient space-saving installation.

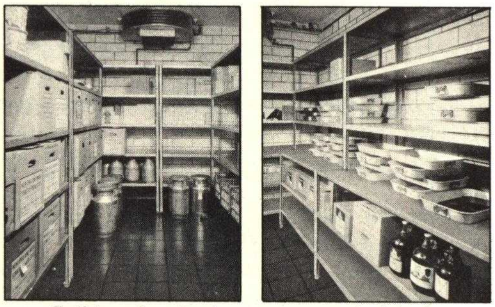

SELF-SUPPORTING SINGLE UNIT
Type G-R (Galv.) or Type S-R (St. St.)

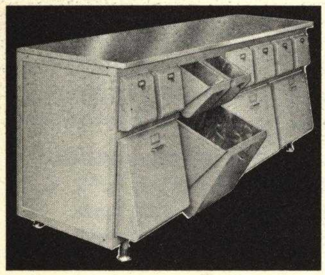

SELF-SUPPORTING DOUBLE UNIT
Type G-R (Galv.) or Type S-R (St. St.)

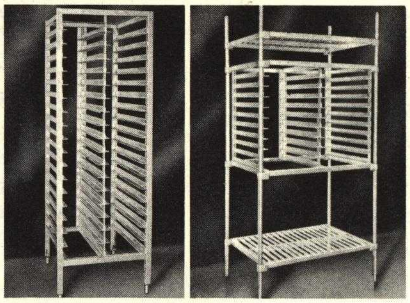
DETAILED SPECIFICATIONS ON FOLLOWING PRODUCTS AVAILABLE UPON REQUEST

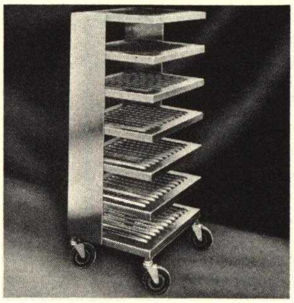

Mess Hall Tables with Swing-out seats —For heavy duty institutional use.

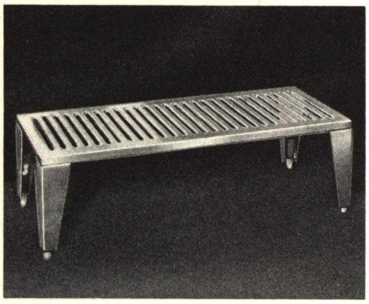

Stainless Steel Tray Truck. For ease in stacking and handling plastic and steel trays — wide range of sizes — 200 to 300 tray capacity.


Solid galvanized storeroom shelving, upright and counter sections.


Bins and counters for dry and bulk storage. Heavy duty, vermin proof, galvanized or stainless steel.


Platter racks. Various sizes, galvanized and stainless steel.


Cantilever type trucks. Stainless steel die-formed shelves, sanitary, rugged design.


Dunnage Racks. For storage or root vegetables, various types and sizes.

LIST OF REPRESENTATIVES

ATLANTA	J. W. Parker & Associates, 133 Luckie St. NW	Jackson 4-3643
BALTIMORE	Robert M. Woodside, 12 East 21st Street	Belmont 5-5840
BOSTON	Charles Kendall, 41 Appleton St., Atlantic	GR 2-6305
CHICAGO	Arthur Hester, 666 Lake Shore Drive	SUperior 7-8478
CINCINNATI	A. F. Dreyer, P.O. Box 34, Lockland Station	Valley 1-2071
CLEVELAND	The Fielding-Wales Co., 1836 Euclid Ave.	Cherry 1-4895
DENVER	McCombs Supply Co., 1819 Wazee Street	Cherry 4-6623
DETROIT (Royal Oak)	Elmer C. Zibell, 4308 Sheffield	LI 9-4186
HOUSTON	Allison Leonard Co., 3002 Albans Road	Madison 3-7445
KANSAS CITY, MO.	Alvis Horn, 401 West 61st Terrace	Delmar 3-0700
LOS ANGELES	Bernard B. Greene Co., 847 Traction Ave.	Madison 4-3878
MIAMI	Frank Acuff, 1423 N. E. 134th Road Plaza 9-8132	Plaza 9-8132
MINNEAPOLIS	Wm. M. Ryan, 120 West 49th Street	Taylor 2-8265
NEW YORK CITY	Herk Limperis, 527 Lexington Avenue	Plaza 3-5133
UPPER NEW YORK	Tom Crawford, 24 Third Avenue, Auburn	Auburn 3-6651
OKLAHOMA CITY	R. L. Williams & Co., 2200 N. W. 56th Street	Victor 2-2636
PHILADELPHIA	E. F. Johnson Co., 5921 N. Broad Street	Livingston 8-5806
PITTSBURGH	Harry H. Frank, Standard Life Bldg.	Court 1-5573
PITTSBURGH	Frank Mathias, 293 Orchard Spring Road	BR 9-4500
PORTLAND	W. H. Cress Co., 201 Concord Bldg.	Cap 8-1714
RAPID CITY, S. D.	North Central Supply Inc., 920-12 E. St. Patrick	Fillmore 3-5486
SAN FRANCISCO	Hughdon Equipment Co., 178 Townsend Street	Yukon 2-0888
ST. LOUIS	Golterman & Sabo Inc., 5731 Manchester Avenue.	ST 1-1422
ST. LOUIS	W. F. Moore Co., 8211 Delmar Blvd.	WY 1-0555
SEATTLE	Max E. Baxter, 1300 Aurora, No. 23	EM 4-3605
TORONTO	Gordon G. Brown & Co., 3257 Yonge Street	Hudson 7-1165
LAVAL des RAPIDES, QUEBEC	J. R. Ron Smith, 204 59th Avenue	MU 1-1319

Originators and manufacturers of Refrigerated Storage Racks since 1897.

MARKET FORGE COMPANY, EVERETT, MASS.

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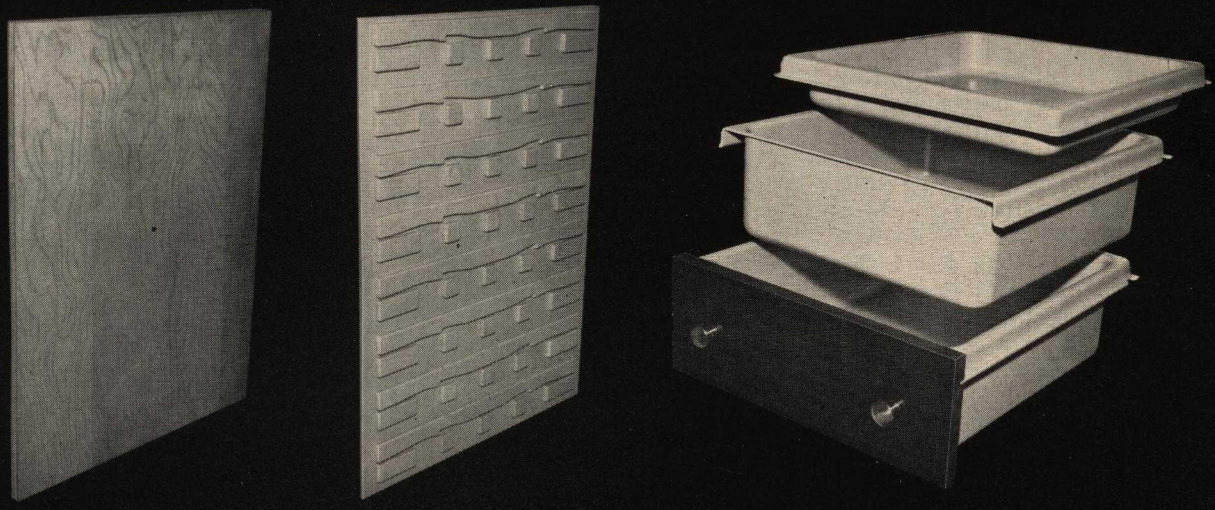
Form No. R-679

Stratapanel STORAGE SYSTEM

PLASTIC PANELS WITH FORMED-IN SLIDES SUPPORT MODULAR PLASTIC DRAWERS



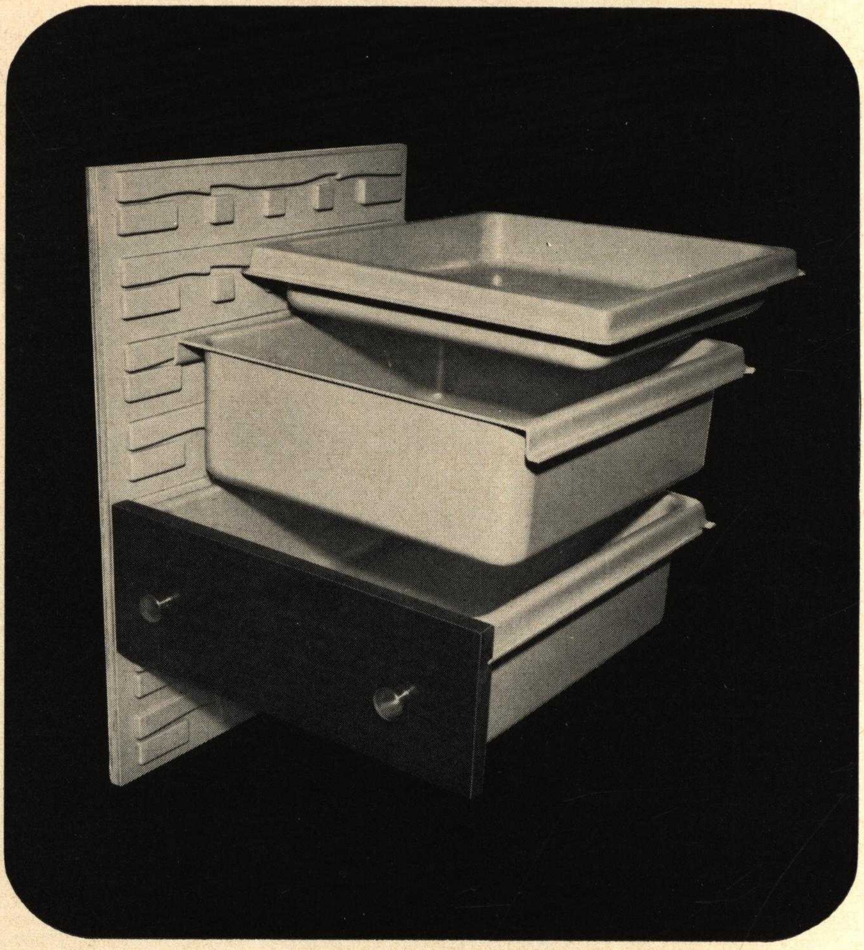
Robert A. Schless & Company, Inc., Elizabethtown, Essex County, New York

FOR ALL BUILT-IN STORAGE, THE STRATAPANEL STORAGE SYSTEM OFFERS SIMPLE, COST-SAVING INSTALLATION, LOW MAINTENANCE AND LIFETIME DURABILITY.

STRATAPANEL combines two essential parts:

THE SLIDE-PANEL, a thin, strong plastic panel with molded-in shelf supports, drawer slides and stops on a 3″ module.

MOLDED DRAWERS in ten modular sizes, from sixteen to forty-six inches wide, 3″ and 6″ high.



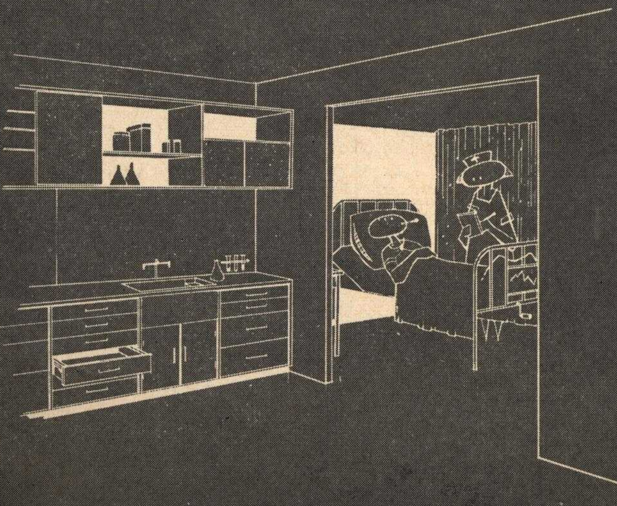
SHELVES MAY BE INSERTED IMMEDIATELY ABOVE DRAWERS, CREATING A FLEXIBLE, INTERCHANGEABLE SYSTEM OF CLOSED AND OPEN STORAGE THROUGHOUT THE BUILDING.

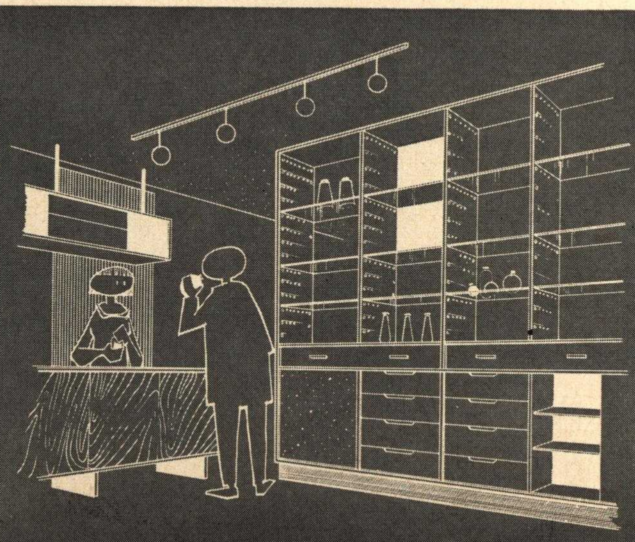
INSTALLATION is merely a matter of cementing the panels to any backing, then inserting drawers and shelves.

BECAUSE OF THEIR ENGINEERING, THE DRAWERS SLIDE ON THE PANELS EXTREMELY SMOOTHLY. THIS GLIDING ACTION WILL NOT PERMIT THE DRAWERS TO BIND, REGARDLESS OF HUMIDITY OR CLIMATE. THERE IS ABSOLUTELY NO NEED FOR CENTER-SLIDES, FRAMING OR METAL GUIDES.

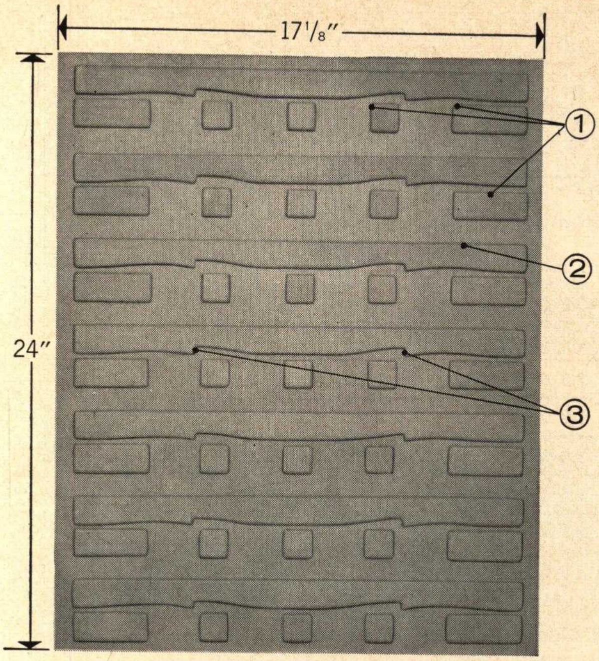
FOR BUILDERS Stratapanel offers labor-saving speed and adds the sales-appeal of smooth, snag-free storage. FOR INSTITUTIONS, it offers cleanliness, low maintenance and standardization. In THE FACTORY, the rugged durability permits drawers to double as tote-boxes for machinery parts. IN SHIPS, BATHROOMS AND CELLARS it results in a stable, moisture-free installation, free from rust, warpage or oxidization. In AIRLINERS and TRAILERS, it combines lightness with high impact strength. IN RETAIL STORES, drawers and shelves may be frequently interchanged to add a new flexibility to sales displays.

BECAUSE IT IS A VERSATILE, SIMPLE SYSTEM, STRATAPANEL BEST ANSWERS THE CONTEMPORARY DEMAND FOR LOW-COST, FLEXIBLE STORAGE. ITS MOLDED-IN ACCURACY HAS CHANGED THE BUILT-IN FROM A CUSTOM JOB TO AN INTEGRAL PART OF THE CONSTRUCTION PROCESS.





STORAGE UNITS



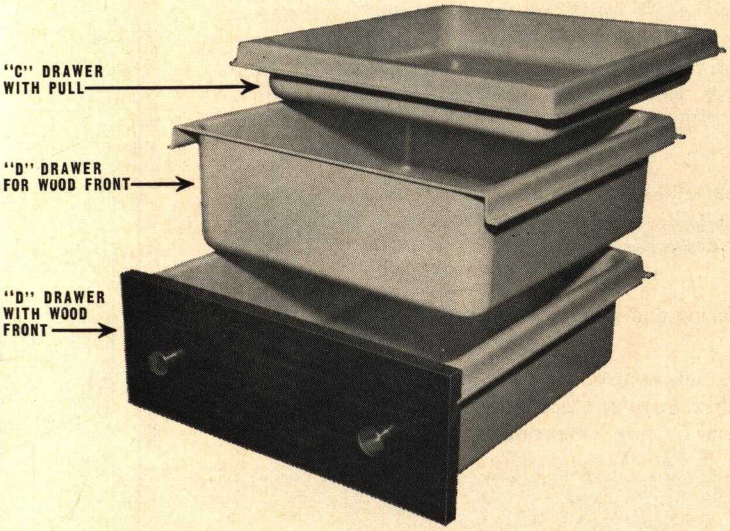
slide-panels

design: A molded plastic sheet 24″ high, 17⅛″ wide which is cemented to a case interior or plywood support. Its molded-in drawer-slides (1) and shelf-supports (2) permit shelves to be inserted just over drawers, creating complete interchangeability of drawers and shelves. Drawer-stops, (3) prevent complete removal of drawer; lifting front of drawer releases stop.

installation: Strong contact cement included with panel is spread on panel and any backing material such as wood, plywood, plaster, pressed board, plasterboard. The panel is pressed in place by hand, forming strong, permanent bond. Drawers and shelves are immediately inserted and loaded. Hiding its supports, the panel allows use of G1S or fir plywood backing.

data: The panel has eight drawer-slides on 3″ centers, and will take any arrangement of 3″ and 6″ drawers, and 3″, 6,″ 9″ and 12″ wood fronts. Panels are pre-marked in 3″ increments for cutting into smaller sizes. For added height, one panel is added above another; continuity of slide spacing is maintained. Panels are same soft beige as drawers. Material is biaxially oriented styrene on high-impact styrene-butadiene copolymer.

properties: Tension, 3200–4000 PSI: shear, 5700–7200 PSI: izod notched impact, −40 F. = 0.4–0.6, 0 F. = 0.5–0.8, 73 F. = 0.7–1.0: Rockwell, M20–M25: water absorption, 24 hrs. 0.12%: thermal coeff. of expans. IN/IN/DEG. F. = .00004: Sp. Gr. 1.05.



plastic drawers

design: Rugged one-piece molded construction of high-impact plastic with integral slides. All corners are rounded, all surfaces are completely smooth, without notches or grooves, for cleanliness and easy maintenance. Soft beige color.

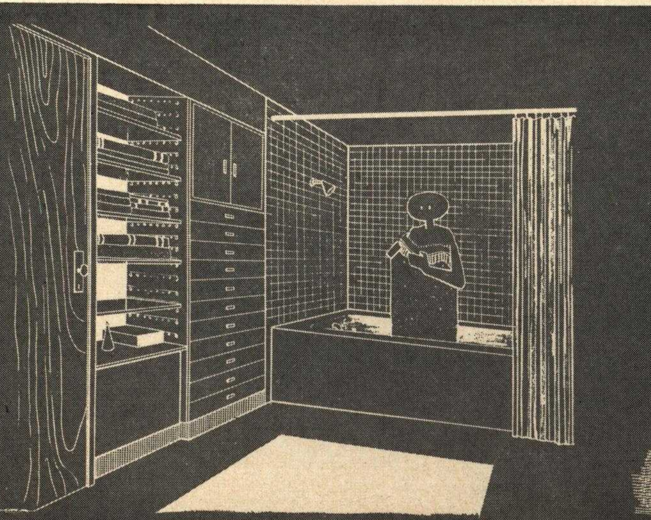
two styles: "C" drawers have an integral pull, need no hardware. "D" drawers take wood fronts.

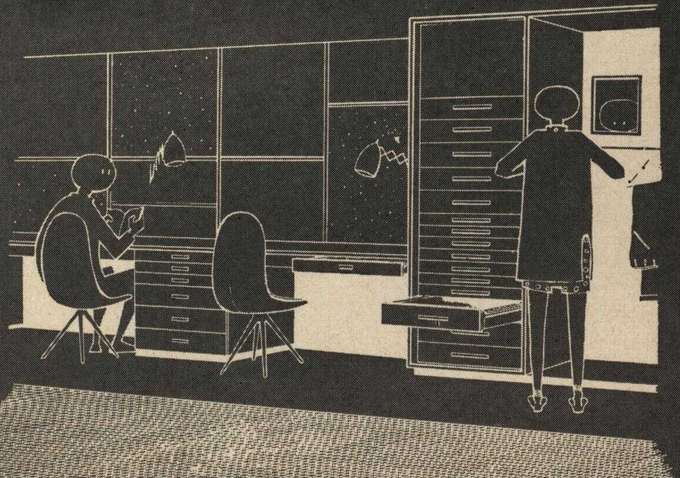
two heights: 3″ and 6″. 3″ drawer for clear leg room under desks, will hold inkwell. STRATAPANEL gives full use of vertical space, without the wasteage of a frame construction.

five coordinated widths: Drawers are 16″, 22″, 28″, 34″, 46″ wide. The wider drawers afford very economical bulk storage. Drawer widths allow economical use of stock plywood sizes and a variety of case detailing (see Page 4).

structure: Drawers are high-impact styrene-butadiene copolymer. Drawer body is prestressed (tension) in molding, and supported by stiffening beam sections of top edge for heavy loading. Corner radii control horizontal deflection to maintain smooth sliding on rough installations.

wood fronts are LC Birch or Walnut, unfinished. Widths are same as for drawers. Four heights: 3″, 6″, 9″, 12″. For economical storage of deep objects, 9″ and 12″ fronts are combined with 6″ drawers. Glue is supplied with each front for attaching to "D" drawer.





design data

	← WIDTHS				→
1. width of drawers & fronts	16 1/16″	22 1/16″	28 1/16″	34 1/16″	46 1/16″
2. width of rough opening (FIG. 5)	16 1/4″	22 1/4″	28 1/4″	34 1/4″	46 1/4″
3. width outside, 3/4 plywood case	17 3/4″	23 3/4″	29 3/4″	35 3/4″	47 3/4″
4. width outside, modular case	18″	24″	30″	36″	48″

ordering data

MODEL NUMBERS, WEIGHT AND RETAIL PRICES

height							
↑	3″	"c" drawer w/pull (FIG. 2)	C316 1.2 4.00	C332 1.6 5.00	C328 2.0 6.00	C334 2.5 7.00	C346 3.3 8.00
	6″	"c" drawer w/pull	C616 1.8 6.00	C662 2.4 7.00	C628 3.0 8.00	C634 3.7 9.00	C646 5.0 10.00
	3″	"d" drawer (FIG. 3)	D316 1.2 4.00	D332 1.6 5.00	D328 2.0 6.00	D334 2.5 7.00	D346 3.3 8.00
height	3″	wood front for 3″ drawer	F316 .7 1.85	F332 1.0 2.35	F328 1.2 2.85	F334 1.5 3.35	F346 2.0 3.85
	6″	"d" drawer	D616 1.8 6.00	D622 2.4 7.00	D628 3.0 8.00	D634 3.7 9.00	D646 5.9 10.00
	6″	wood front for 6″ "d" drawer	F616 1.5 2.85	F622 2.0 3.35	F628 2.5 3.85	F634 3.0 4.85	F646 4.2 5.85
	9″	wood front for 6″ "d" drawer	F916 2.2 3.85	F922 3.0 4.35	F928 3.7 4.85	F934 4.5 5.85	F946 6.2 7.35
↓	12″	wood front for 6″ "d" drawer	F1216 3.0 4.35	F1222 4.0 5.35	F1228 5.0 6.35	F1234 6.0 7.35	F1246 8.0 9.35

to order panels:

Each slide-panel is 24″ high, 17–1/8″ wide, 1/16″ thick. It holds eight 3″ drawers or four 6″ drawers or combinations totaling 24″. For one 24″ high case, two panels would be needed. For a 12″ high case, one panel, cut with shears along moldule line on panel. For a closet or installation over 24″ high, one panel is placed above another. Every panel is complete with one 2 oz. can of contact cement for immediate installation.

To figure number of panels needed:

ADD TOGETHER DRAWER HEIGHTS AND DIVIDE BY 12.

to order drawers:

For use in closets or behind doors, order "C" drawer with integral pull (FIG. 2). For use with wood fronts, order "D" style (FIG. 3). 6″ high "D" drawers combine with 9″ and 12″ high fronts for storage of objects up to 8–5/8″ and 11–5/8″. FROM WIDTH AND HEIGHTS ON "ORDERING DATA" CHART, FIND MODEL AND RETAIL PRICE.

to order fronts:

From width and height on chart, find Model Number and retail price. Specify Birch or Walnut. Fronts are L.C., 5 ply, select, unfinished, complete with cement for attaching to "D" drawers.

installation:

Spread panel-cement on backing and panels; press panels to backing; slide in drawers and shelves.

STRATAPANEL permits extremely simple, economical detailing, (FIG. 5, 6, 7). 3/4″ supports permit economical use of stock materials, allow 1/4″ machining, (see line 3, chart). Modular outside dimensions (line 4, chart) are obtained by sections shown in FIG. 8. Panels take shelves up to 3/4″ thick.

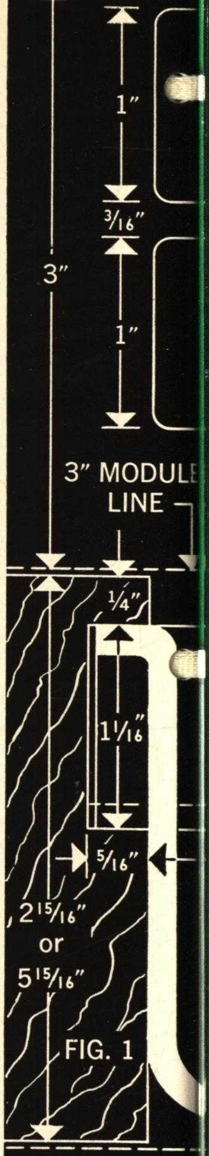


FIG. 1

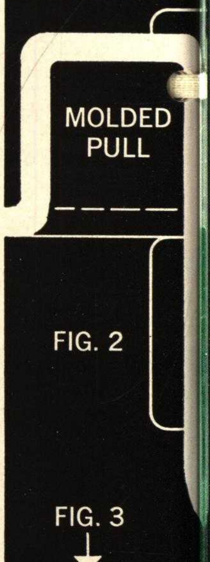


FIG. 2

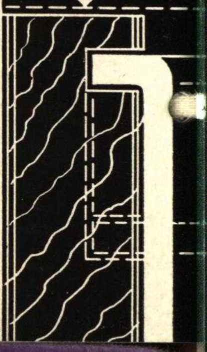


FIG. 3

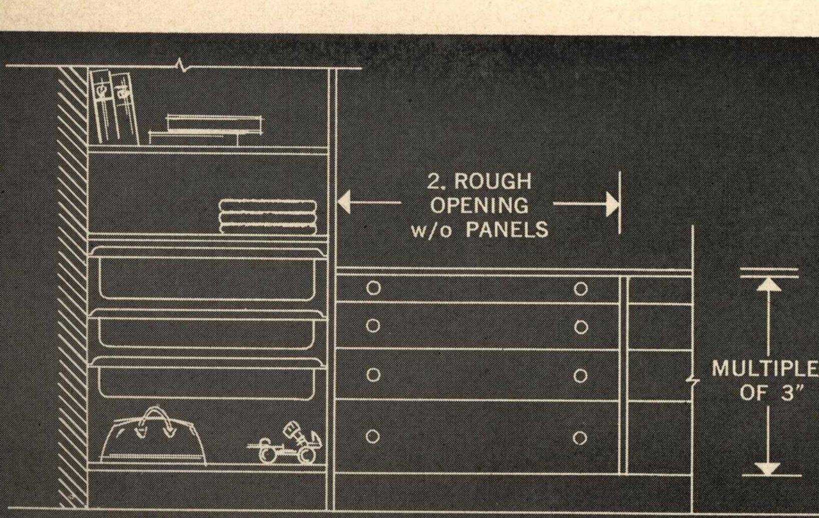


FIG. 5 ELEVATION CLOSET & DRESSER

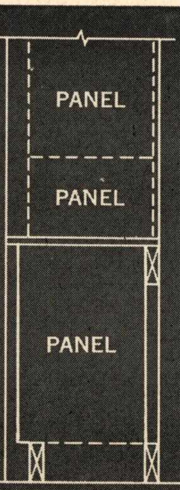


FIG. 6 SECTION

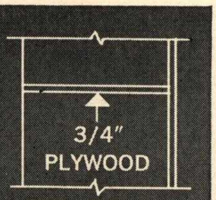


FIG. 7 PLAN

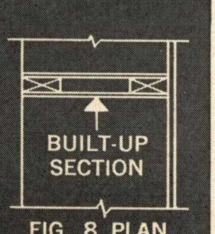
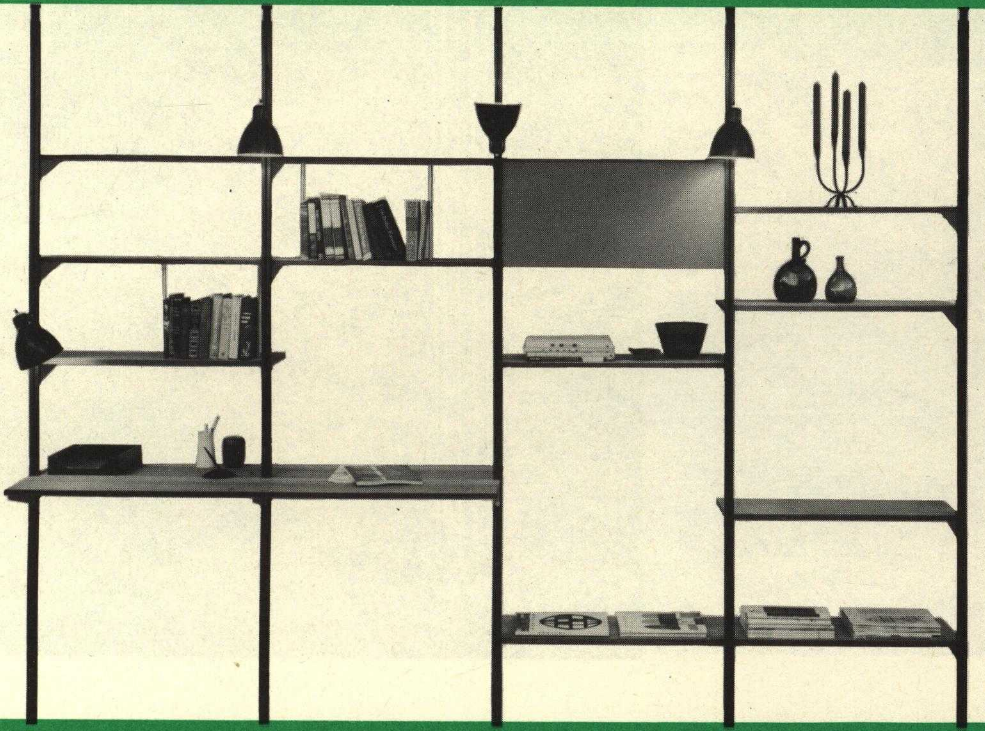


FIG. 8 PLAN

23c
St

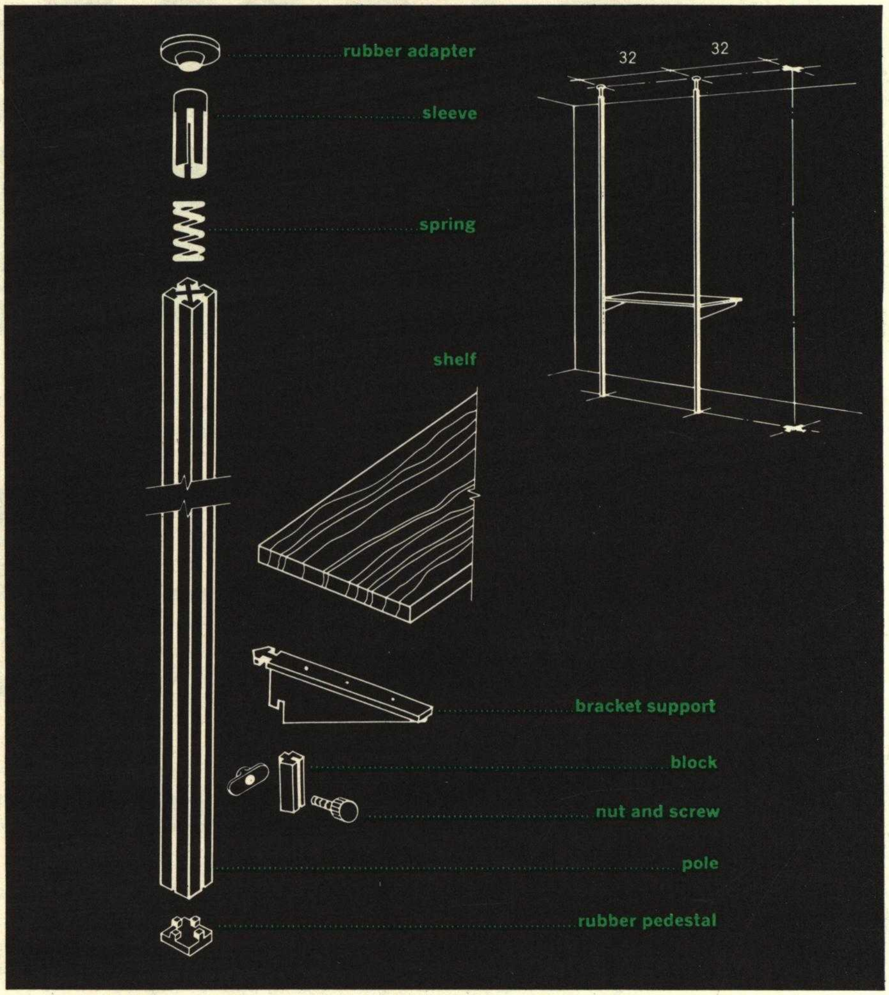
OMNI

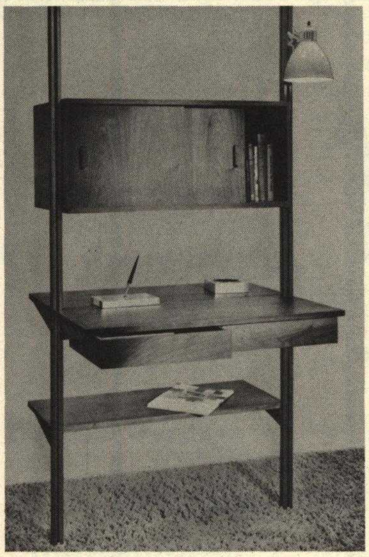
the universal space-maker system



OMNI

the universal space-maker system


rubber adapter
sleeve
spring
shelf
bracket support
block
nut and screw
pole
rubber pedestal
32
32

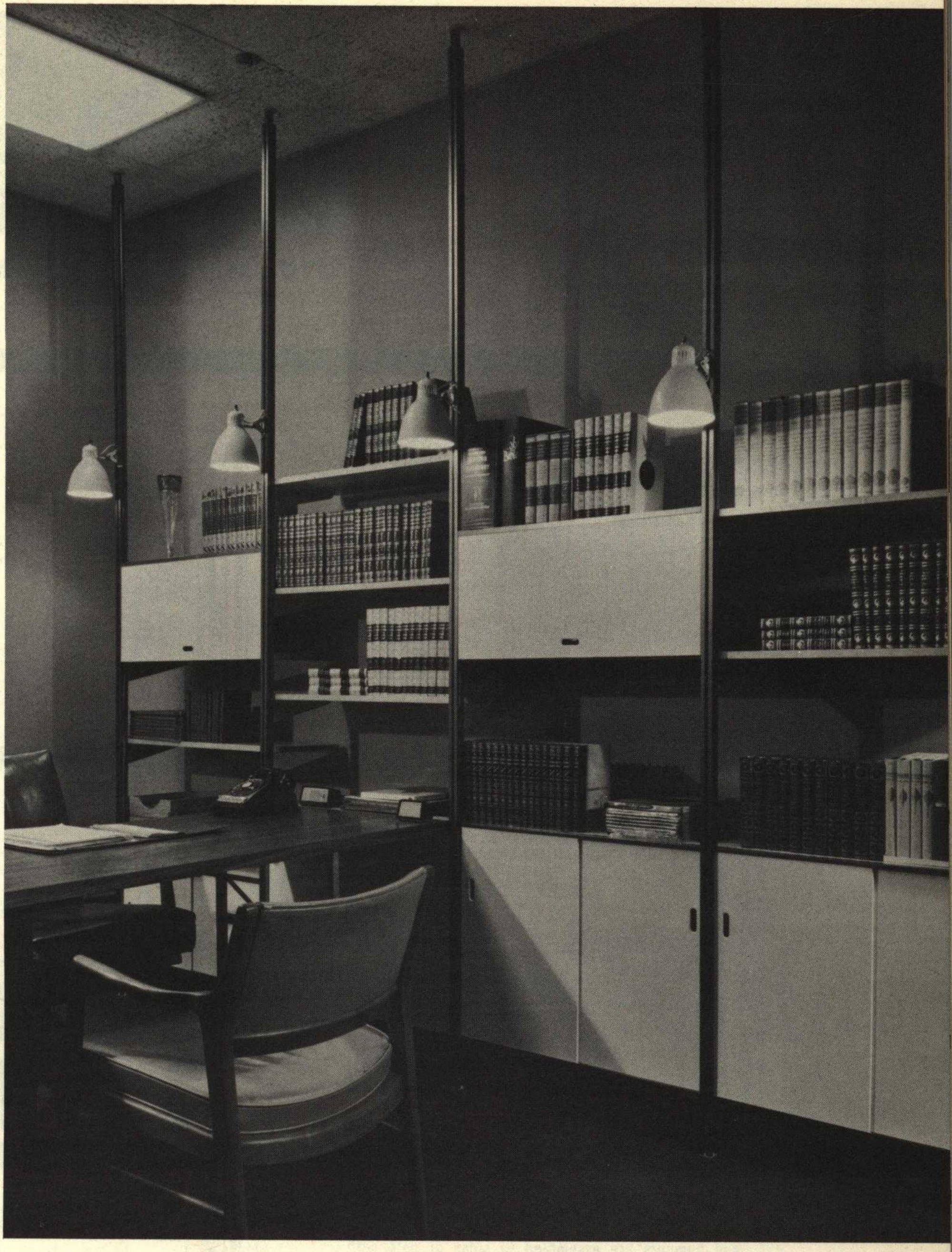


Functional
Flexible
Structural

Beautiful
Economical

home
executive office
reception area
office divider
library
school
hospital
hotel
motel
church
college
university
medical office
law office
display merchandise
exhibit

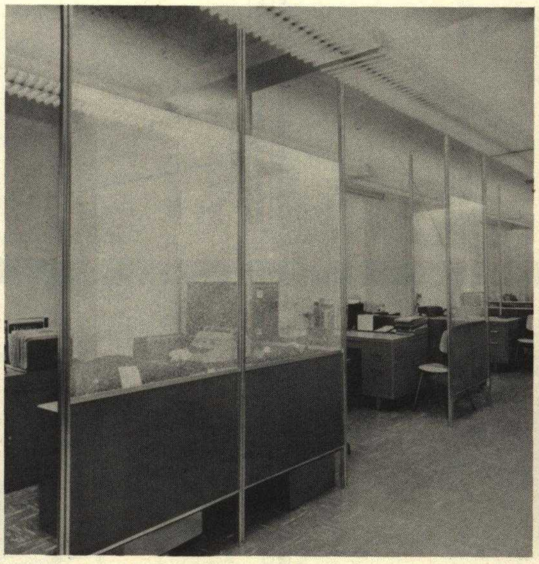
Structural Products



The **OMNI SYSTEM,** with its various accessories, forms flexible and easily installed units. Basic components are made of quality extruded aluminum, anodized to give a permanent finish in many colors.

Shelves, cabinets, lamps and other accessories are available in a variety of finishes.

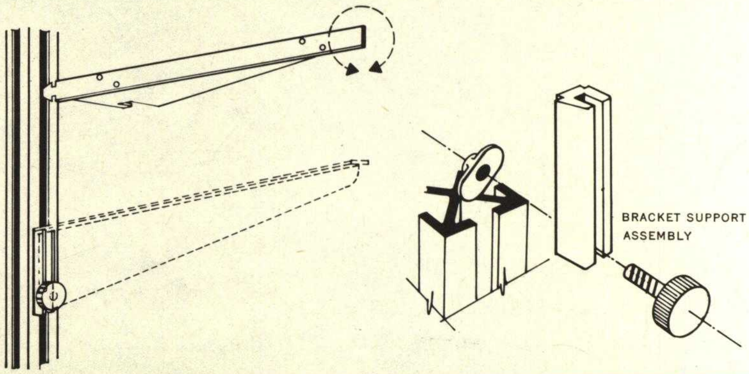
Omni units do not depend on walls for support, but rely on a simple pressure device between floor and ceiling, and can be modified or moved with a minimum of labor.



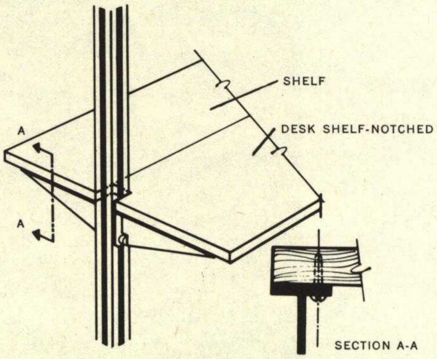
OMNI

the universal space-maker system

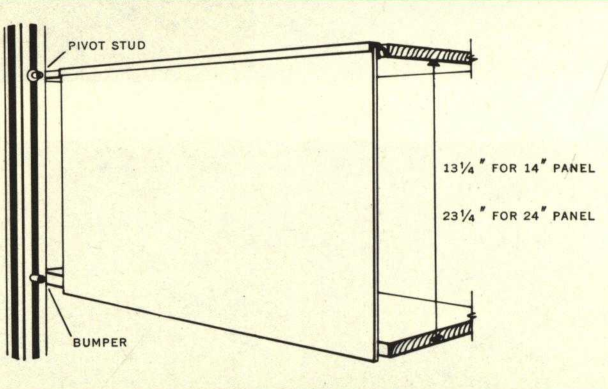
Brackets may be located anywhere on the pole. Position bracket support assembly and secure. When properly assembled the special nut will turn and lock behind the flanges of the pole slot as the screw is tightened. Insert keyed end of bracket into pole, rotate as shown to engage slot and drop over bracket support assembly.


BRACKET SUPPORT ASSEMBLY

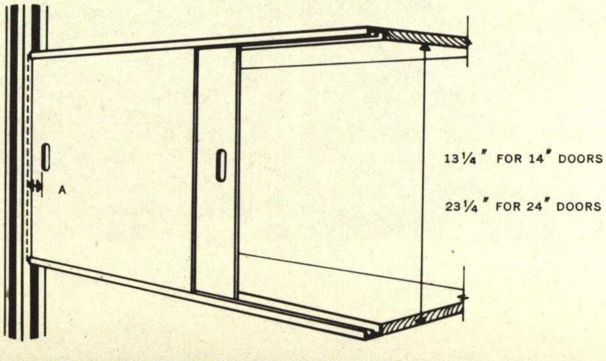
Shelves are positioned flush with edge of bracket flange, and secured with wood screws. Section A-A. Desk shelves are notched and assembled in the same manner.


SHELF
DESK SHELF-NOTCHED
A
A
SECTION A-A

Flip doors are hung on pivot studs. Press panel downward to snap fit into position over pivots. Pivot studs and bumpers are assembled to sides of pole with lock nuts.

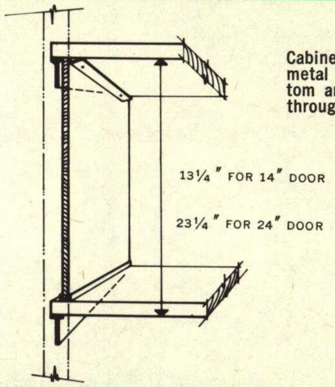

PIVOT STUD
13¼" FOR 14" PANEL
23¼" FOR 24" PANEL
BUMPER

Sliding doors are installed between shelves. Fasten bottom track and set in both doors. Place door with wider space at "A" to left side of front track as shown. Slide both doors to one side. Locate top track and fasten screws. Slide both doors to opposite side and place remaining screws.

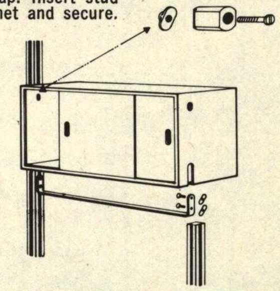

A
13¼" FOR 14" DOORS
23¼" FOR 24" DOORS

Structural Products, Inc.

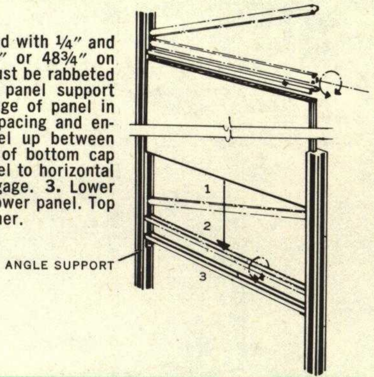
End panels are placed between shelves, usually in combination with flip or sliding doors. Locate and fasten channel to bottom shelf. Set-in panel and bring top edge against flange of bracket as shown. Fasten angle strip to top shelf.



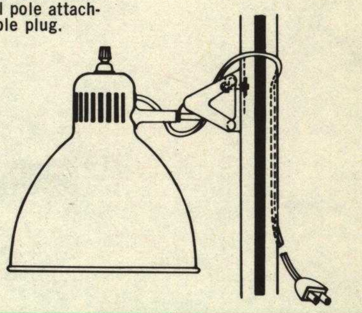
Cabinets are all installed in the same manner. Fasten metal strap between poles as shown. Groove in bottom and side of cabinet engages strap. Insert stud through slot in upper corner of cabinet and secure.



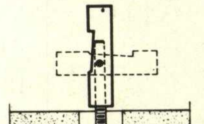
Panel cap and divider channels are used with ¼″ and ¾″ panels between poles spaced 32″ or 48¾″ on center. Vertical edges of ¾″ panels must be rabbeted to fit pole slots. Locate and fasten panel support angles and install pole. Insert one edge of panel in slot. Place next pole at proper o.c. spacing and engage other edge of panel. Slide panel up between poles and hold. **1.** Insert keyed end of bottom cap channel into pole slots. **2.** Move channel to horizontal position and rotate, as shown, to engage. **3.** Lower channel to top of support angles and lower panel. Top channel is installed in the same manner.



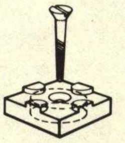
Lamps are positioned on pole and secured with lock nuts. Remove Academy plug and thread cord down slot at back of pole. Cord will by-pass all pole attachments. Cut cord to length and re-assemble plug.



Type 2 aluminum top adapter, toggle, and base pedestal are recommended for permanent and heavy load installations. Bore ⅝″ diameter hole in ceiling for adapter. Cut 1⁵⁄₁₆″ diameter hole in floor tile for aluminum ring with type 2 base pedestal without screw. Non-skid rubber ring and type 2 base pedestal may be fastened to finished floor surface with screw as shown.

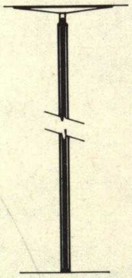


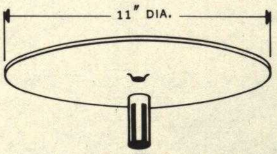
TYPE 2 ALUMINUM TOP CONNECTOR AND TOGGLE.



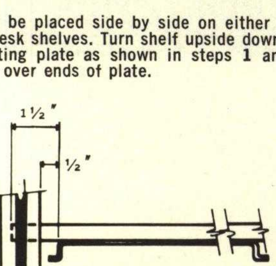
TYPE 2 ALUMINUM BASE PEDESTAL.

Ceiling discs are used with hung ceilings that cannot withstand the spring pressure of the standard pole assembly.

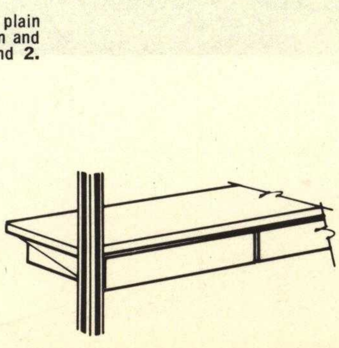


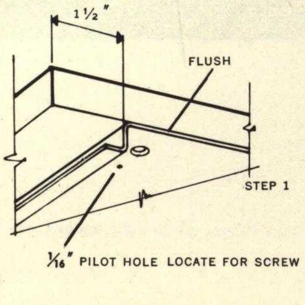


Drawers may be placed side by side on either plain or notched desk shelves. Turn shelf upside down and fasten mounting plate as shown in steps **1** and **2.** Slide drawer over ends of plate.

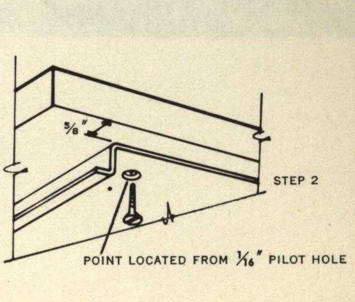


FRONT VIEW OF PLATE





1⁄16″ PILOT HOLE LOCATE FOR SCREW

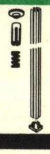
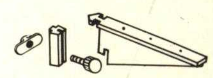
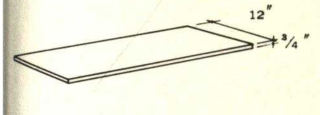
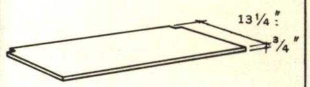
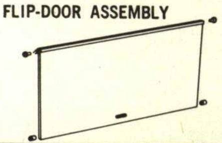
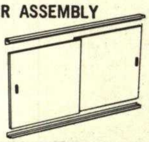
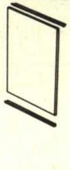


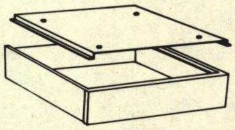
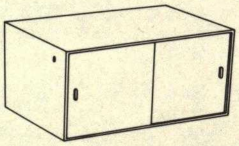
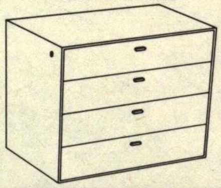
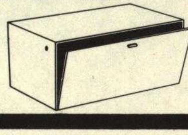
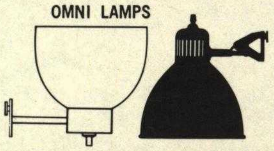
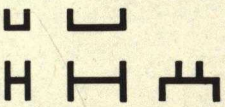
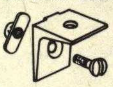
POINT LOCATED FROM 1⁄16″ PILOT HOLE

OMNI

the universal space-maker system

Structural Products, Inc.

PART DESCRIPTION	PART NO.	FINISH	SIZE
POLE ASSEMBLY 	10002	natural	Specify Ceiling Height
	10003	black	
	10004	gold	
	10007	bronze	
	10026	charcoal	
BRACKET ASSEMBLY 	2010200	natural	
	2010300	black	
	2010400	gold	11"
	2010700	bronze	
	2012600	charcoal	
SHELVES 	3005032	birch natural	32¾"
	3005132	birch white	32¾"
	3005232	birch walnut	32¾"
	3005332	oiled walnut	32¾"
	3005064	birch natural	64¾"
	3005164	birch white	64¾"
	3005264	birch walnut	64¾"
	3005364	oiled walnut	64¾"
	3005096	birch natural	96¾"
	3005196	birch white	96¾"
	3005296	birch walnut	96¾"
NOTCHED SHELVES 	3015032	birch natural	32¾"
	3015132	birch white	32¾"
	3015232	birch walnut	32¾"
	3015332	oiled walnut	32¾"
	3015064	birch natural	64¾"
	3015164	birch white	64¾"
	3015264	birch walnut	64¾"
	3015364	oiled walnut	64¾"
	3015096	birch natural	96¾"
	3015196	birch white	96¾"
	3015296	birch walnut	96¾"
FLIP-DOOR ASSEMBLY 	5003514	white	14"
	5003814	blue	14"
	5003914	orange	14"
	5003524	white	24"
	5003824	blue	24"
	5003924	orange	24"
SLIDER ASSEMBLY 	5203514	white	14"
	5203814	blue	14"
	5203914	orange	14"
	5203524	white	24"
	5203824	blue	24"
	5203924	orange	24"
END PANEL ASSEMBLY 	5303514	white	14"
	5303814	blue	14"
	5303914	orange	14"
	5303524	white	24"
	5303824	blue	24"
	5303924	orange	24"

PART DESCRIPTION	PART NO.	FINISH	SIZE
DRAWER ASSEMBLY 	6015300	oiled walnut	15¼" w. x 3⅛ h. x 12" d.
SLIDING DOOR CABINET 	6105314	oiled walnut	30¾" w. x 14" h. x 15" d.
	6105324	oiled walnut	30¾" w. x 24" h. x 15" 12 "
4 DRAWER CABINET 	6315324	oiled walnut	30¾" w. x 24" h. x 15" d.
DROP LEAF DESK 	6405314	oiled walnut	30¾" w. x 14" h. x 15" d.
OMNI LAMPS 	4013700	black	—
	4013500	white	
	4013600	grey	
	4103500	white glass	—
CAP & DIVIDER CHANNELS 	For ¼" and ¾" Panels. Available in five Omni colors. For Poles spaced 32" O.C. and 48¾" O.C. Specify size and color.		
ANGLE SUPPORT BRACKET 	5600200	natural	—

U. S. AND FOREIGN PATENTS APPLIED FOR.

For information write to: Structural Products, Inc., Department 450, Charlotte, Mich.

A.I.A. File No. 35-B 4

23d
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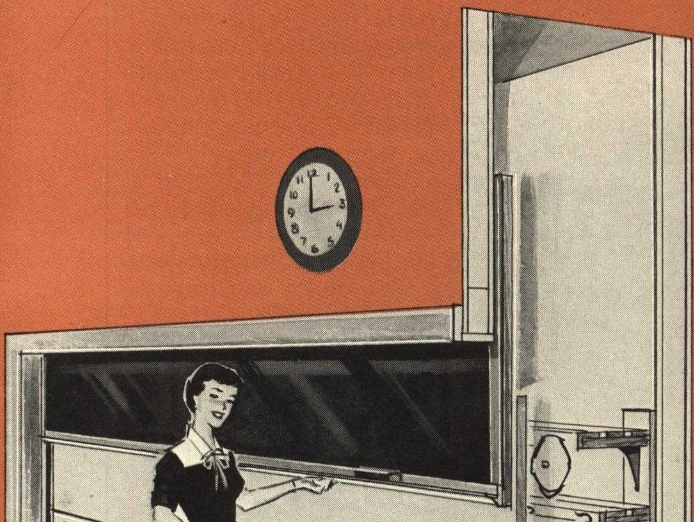
A.I.A. File No. 35-B 4

THE MARK OF QUALITY

BARBER
COLMAN

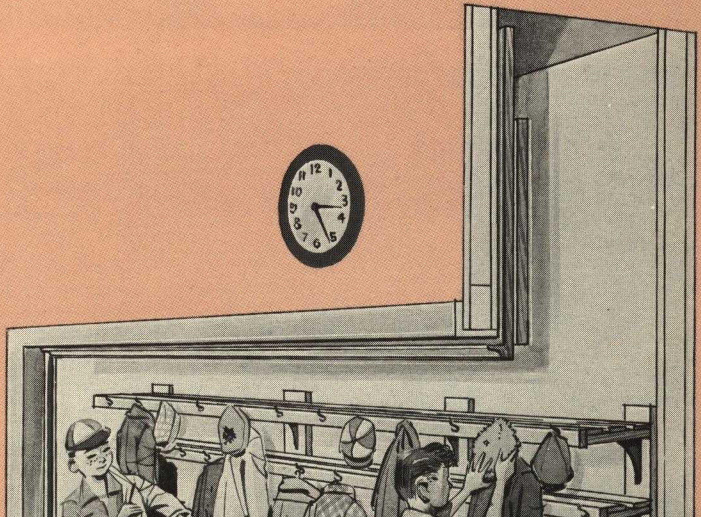
BARBER-COLMAN
WARDROBEdoor

...superior performance with architectural flexibility!



CLOSED ***IT'S A CHALKBOARD***

or tackboard, or regular wood surface.



OPEN ***IT'S A WARDROBE***

with any special storage features you desire.

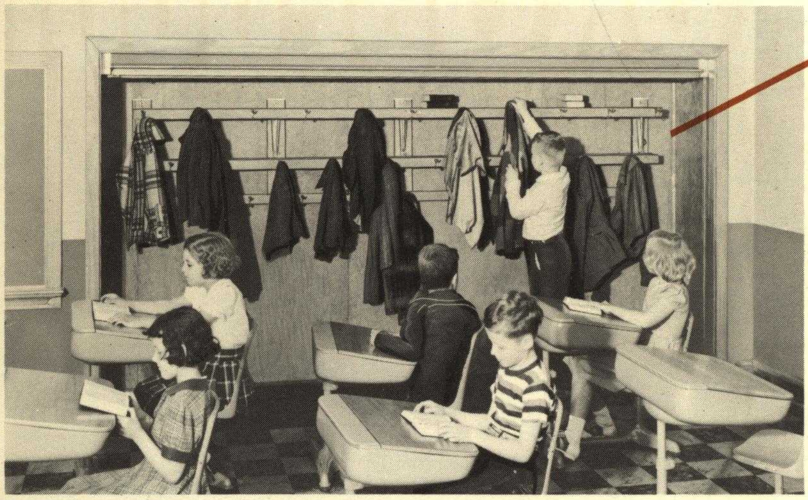
BARBER-COLMAN COMPANY • ROCKFORD, ILLINOIS

THE MARK OF QUALITY

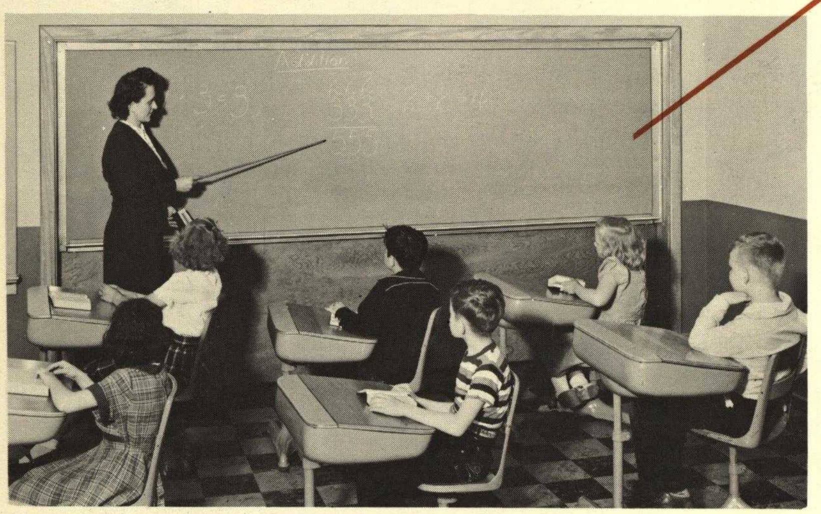
BARBER COLMAN

BARBER-COLMAN
WARDROBEdoor

it's all vertical! DESIGNED FOR FLEXIBLE CLASSROOMS



OPEN . . . . the Barber-Colman WARDROBEdoor allows the pupil plenty of "elbow room" in an opening completely free of pivots, hinges and other hardware. Students here at the St. Paul's Lutheran School, Rockford, Ill., have easy access to bookshelves and coatracks. And teacher has a full-view opening which affords complete control of the "coatroom rush". Door interference with clothing and rubber footwear is eliminated.



CLOSED . . . . the new Barber-Colman WARDROBEdoor offers a wide, unbroken chalkboard complete with chalk rail. Accurately counterbalanced, the WARDROBEdoor runs smoothly and quietly on nylon rollers — it's easy to operate for pupil and teacher alike. Architects Hubbard and Hyland needed no aisle in this classroom because the *all vertical* WARDROBEdoor does not take up aisle space or protrude into the wardrobe interior.

. . . suggested by architects and designed by Barber-Colman engineers, the upward opening WARDROBEdoor has solved the cloakroom problems in school planning with *all vertical* operation.

Saves floor space . . . the WARDROBEdoor opens straight up . . . saves an average 6" of horizontal depth. This space saving means extra room area or lower cost per classroom.

Adds working wall space . . . no wall space is wasted as in the case of non-vertical doors. The wide, unbroken flat surface can be equipped (by others) with chalkboard, tackboard, or a combination.

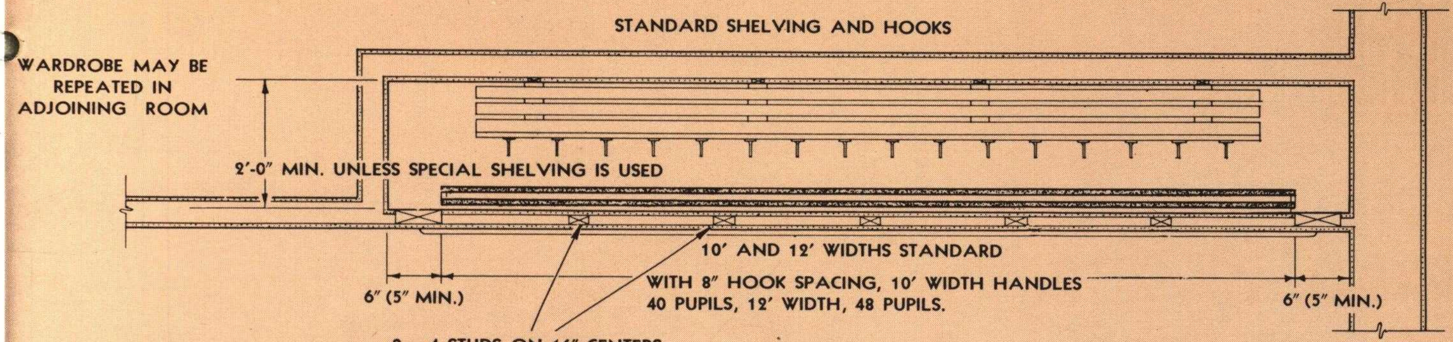
Ventilation . . . the WARDROBEdoor closes to within 4" of the floor, allowing an intake space for air currents. This space is adjustable depending on the ventilation problem.

Construction . . . standard WARDROBEdoor sections are flush with honeycomb core and retempered hardboard facing — results in a lightweight, rigid section with excellent paint holding qualities. Flush sections with birch or red oak veneers are available at extra cost. Hardwood shelving and brass finish coathooks are furnished and installed as standard with the WARDROBEdoor; they can be omitted and special storage arrangements with hangers or cubicles used.

Easy working . . . the *all vertical* WARDROBEdoor glides up smoothly and quietly on nylon rollers in continuous steel tracks. Counterbalancing is by torsion spring, carefully designed to the exact weight of each door for perfect "floating balance." Springs are engineered for durability and safety with a continuous shaft and a special spring lock device. Each section is suspended by two separate airplane type cables with high tensile strength. The bottom half of the door travels at twice the speed of the top so that the two sections clear the opening simultaneously.
Electric operation is available.

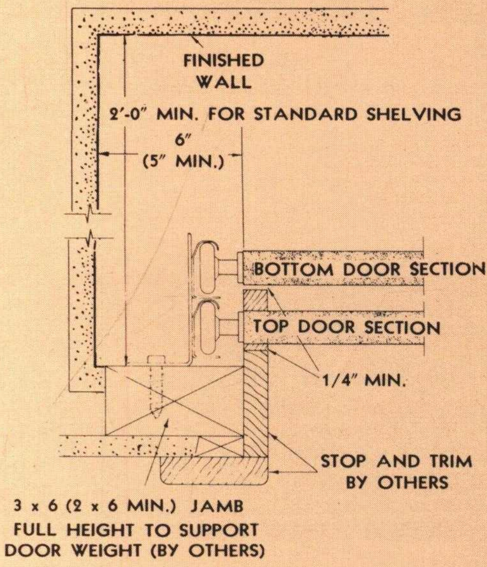
Maintenance . . . the Barber-Colman WARDROBEdoor makes the wardrobe the easiest part of the classroom to clean . . . the floor and corners are absolutely free of pivots, hinges or any hardware. Upkeep and adjustment cease to be problems as students can't swing on the door.

Requirements . . . standard 6' high WARDROBEdoor requires only 9'6" ceiling height and 6" sideroom. Door height may be increased to 6'8" max. or reduced to 5'0" min.; required ceiling height varies with door height. 24" backroom required full height. If chalkboard is used, max. weight is 2.5 pounds per sq. ft., max. thickness 1/4". Standard section thickness 1 3/4". For requirements other than standard, consult factory.


STANDARD SHELVING AND HOOKS
WARDROBE MAY BE REPEATED IN ADJOINING ROOM
2'-0" MIN. UNLESS SPECIAL SHELVING IS USED
10' AND 12' WIDTHS STANDARD
WITH 8" HOOK SPACING, 10' WIDTH HANDLES 40 PUPILS, 12' WIDTH, 48 PUPILS.
6" (5" MIN.)
6" (5" MIN.)
2 x 4 STUDS ON 16" CENTERS REQUIRED EXCEPT FOR MASONRY CONSTRUCTION

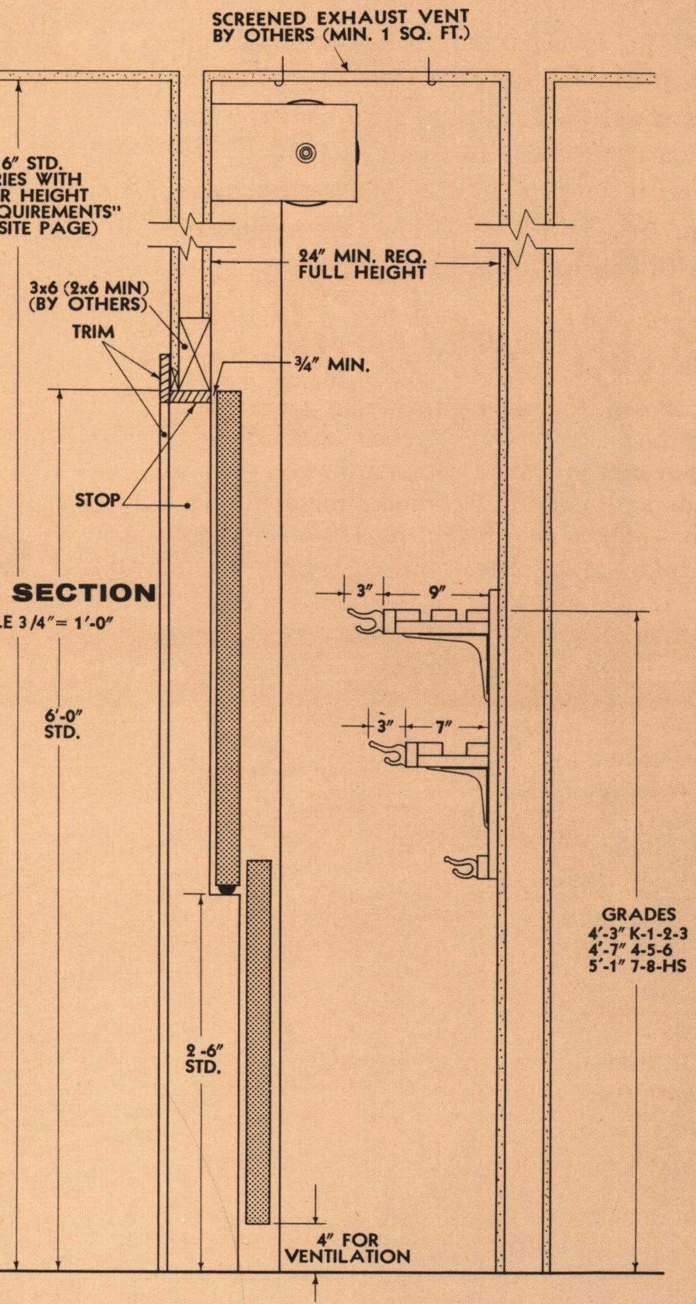
PLAN

SCALE 3/8" = 1'-0"


FINISHED WALL
2'-0" MIN. FOR STANDARD SHELVING
6" (5" MIN.)
BOTTOM DOOR SECTION
TOP DOOR SECTION
1/4" MIN.
STOP AND TRIM BY OTHERS
3 x 6 (2 x 6 MIN.) JAMB FULL HEIGHT TO SUPPORT DOOR WEIGHT (BY OTHERS)

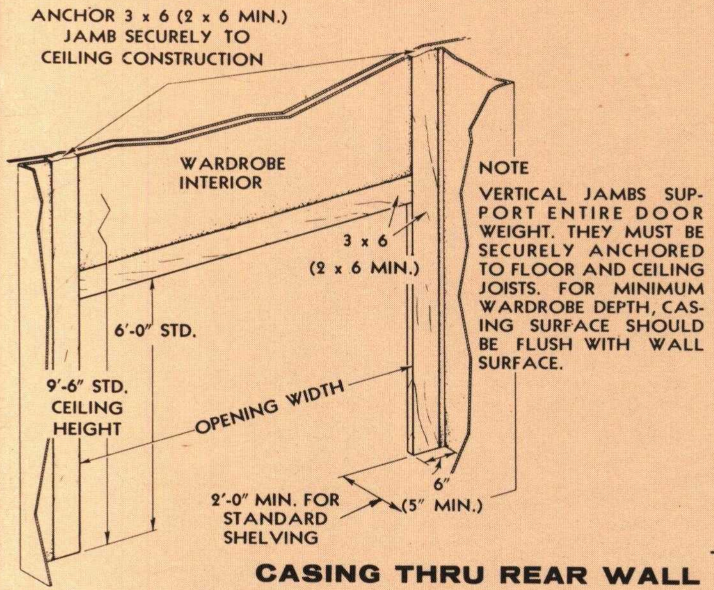
TYPICAL JAMB SECTION

SCALE 2" = 1'-0"


SCREENED EXHAUST VENT BY OTHERS (MIN. 1 SQ. FT.)
9' 6" STD. VARIES WITH DOOR HEIGHT (SEE "REQUIREMENTS" OPPOSITE PAGE)
24" MIN. REQ. FULL HEIGHT
3x6 (2x6 MIN) (BY OTHERS)
TRIM
3/4" MIN.
STOP
3"
9"
3"
7"
6'-0" STD.
2 -6" STD.
GRADES
4'-3" K-1-2-3
4'-7" 4-5-6
5'-1" 7-8-HS
4" FOR VENTILATION

VERTICAL SECTION

SCALE 3/4" = 1'-0"


ANCHOR 3 x 6 (2 x 6 MIN.) JAMB SECURELY TO CEILING CONSTRUCTION
WARDROBE INTERIOR
3 x 6 (2 x 6 MIN.)
6'-0" STD.
9'-6" STD. CEILING HEIGHT
OPENING WIDTH
6" (5" MIN.)
2'-0" MIN. FOR STANDARD SHELVING
NOTE
VERTICAL JAMBS SUPPORT ENTIRE DOOR WEIGHT. THEY MUST BE SECURELY ANCHORED TO FLOOR AND CEILING JOISTS. FOR MINIMUM WARDROBE DEPTH, CASING SURFACE SHOULD BE FLUSH WITH WALL SURFACE.

CASING THRU REAR WALL

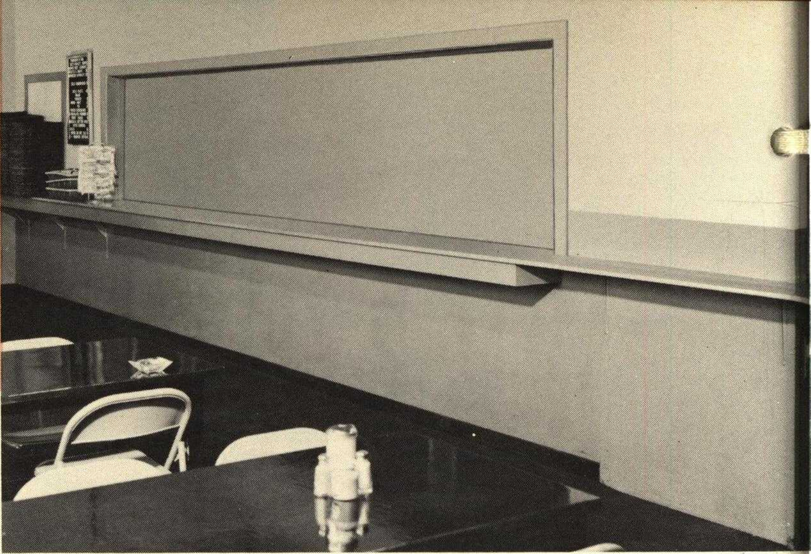
NO SCALE

SPECIFICATIONS — All wardrobes shown on the plans shall be equipped with two piece vertically operated doors so designed that the lower section moves at approximately twice the speed of the upper section to arrive at the fully open position simultaneously, to minimize required headroom. Doors shall be spring counterbalanced, equipped with a positive safety device to hold door if required, and mounted on nylon rollers running in continuous steel tracks. Doors shall be Barber-Colman WARDROBEdoors. Chalkboard or tackboard by others.

OVERdoor Division of BARBER-COLMAN COMPANY

BARBER
COLMAN

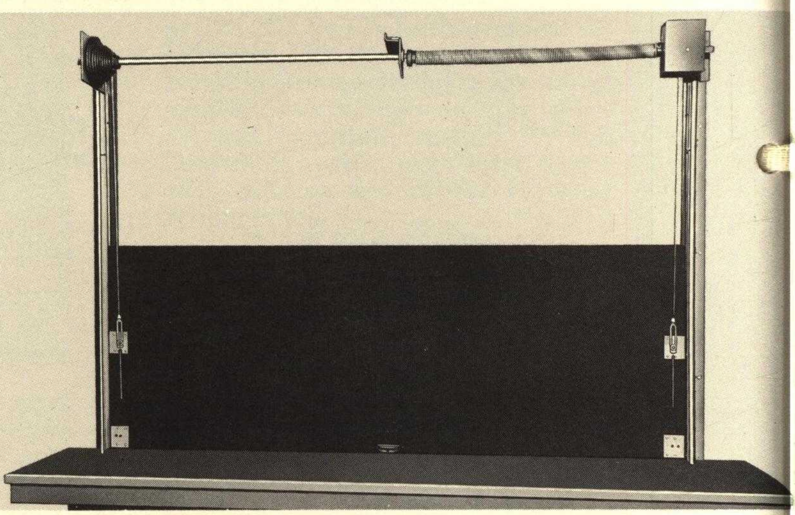
COUNTERdoor



The Barber-Colman COUNTERdoor is a low cost all vertical, spring counterbalanced closure designed primarily for lunchroom and cafeteria serving counters. In design, operation, and construction it is similar to the WARDROBEdoor, however, it consists of only one vertical rising section. Standard flush sections are honeycomb core with hardboard facings.

it's all vertical!

When closed the door provides a good sound barrier between serving kitchen and adjoining dining or meeting areas. Standard sizes — up to 16′ wide and 4′ high. Headroom required above counter — twice door height plus ¼″. For additional information consult our representative.



BARBER-COLMAN SERVICE AND REPRESENTATIVES...

Factory Branch Office Warehouses conveniently located at:

BUFFALO
CHICAGO
CLEVELAND
DETROIT
ROCKFORD
DES MOINES
FRAMINGHAM
MINNEAPOLIS
PITTSBURGH

ALABAMA
Montgomery—The Morton Sales Co. Inc.
CALIFORNIA
Los Angeles—Barcol OVERdoors of LA.
CONNECTICUT
West Hartford—Bldrs. Hdwe. Inc.
DELAWARE
Wilmington—Jandy, Inc.
FLORIDA
Jacksonville—Bldrs. Products Co.
Miami—Barcol OVERdoors of Miami
Tallahassee—Simpson-McCord Co.
GEORGIA
Atlanta—Industrial Equipment Co.
IDAHO
Boise—Wholesalers, Inc.
ILLINOIS
Chicago—Barber-Colman Co.
Decatur—Barcol OVERdoors of Decatur
Moline—Bldrs. Sales & Serv. Co.
Peoria—Russell E. Kauffman
Rockford—Barber-Colman Co.
INDIANA
Ft. Wayne—Roethele Bldg. Matls. Inc.
South Bend—Barber-Colman
OVERdoors of South Bend
IOWA
Des Moines—Barber-Colman Co.
Dubuque—Barcol OVERdoors of Dubuque
KANSAS
Topeka & Wichita—Bubb & Thomson, Inc.
KENTUCKY
Louisville—Barcol OVERdoors of Louisville
MARYLAND
Baltimore—Jesse J. Hamp, Inc.

MASSACHUSETTS
Boston (W. Newton)—William-Davies Co.
Framingham—Barber-Colman Co.
Greenfield—Harry S. Warren
Worcester—J. R. Richards Co.
MICHIGAN
Bay City (Saginaw)—Laurence Smith
Detroit—Barber-Colman Co.
Grand Rapids—Barcol OVERdoors of Grand Rapids
Kalamazoo—Barcol OVERdoors of Kalamazoo
Saginaw (Bay City)
MINNESOTA
Duluth—Barcol OVERdoors of Duluth
Minneapolis—Barber-Colman Co.
MISSOURI
Columbia—Barcol OVERdoors of Central Mo.
St. Louis—Barcol OVERdoors of St. Louis, Inc.
MONTANA
Billings—Billings Sash & Door Co.
Butte—Montana School Equip. Co.
NEBRASKA
Omaha—Porter-Trustin Co.
NEW MEXICO
Albuquerque—Sandberg Sales Co.
Roswell—Bldrs. Block & Stone Co. Inc.
NEW YORK
Buffalo—Barber-Colman Co.
Floral Park—Eugene Constantin
Poughkeepsie—Barcol OVERdoors of Poughkeepsie
Rochester—Myron W. Greene
Syracuse—B. R. Johnson & Son
Tarrytown—Chas. Margotta & Co.
NORTH CAROLINA
Charlotte—Maxson-Betts Co.
NORTH DAKOTA
Fargo (Minneapolis)—Barber-Colman Co.

OHIO
Cincinnati—Barcol OVERdoors of Cincinnati
Cleveland—Barber-Colman Co.
Columbus—Tri State Supply Co.
Youngstown—Briggs-Jones, Inc.
OREGON
Portland—Pella Sales Co.
PENNSYLVANIA
Philadelphia—Herbert G. Pitts
Pittsburgh—Barber-Colman Co.
RHODE ISLAND
Providence (Centerdale)—Chapman-King Co.
SOUTH DAKOTA
Aberdeen—Dakota Sash & Door Co.
TENNESSEE
Knoxville—Standard Glass Co. Inc.
TEXAS
Lubbock—Sterling Bldg. Matls.
WASHINGTON
Seattle—Barcol OVERdoors of Seattle
Spokane—Spokane Sash & Door Co.
WISCONSIN
Green Bay—Northern Metal & Roofing Co.
LaCrosse—Barcol OVERdoors of LaCrosse
Madison—Paul R. Treichel Co.
Milwaukee—J. F. Cook Co.
Oshkosh—Barcol OVERdoors of Oshkosh
Sheboygan—Barcol OVERdoors of Sheboygan
CANADA
Calgary—A. B. Cushing Mills, Ltd.
Edmonton—Barcol OVERdoors of Edmonton
Vancouver—Top-Flite Overhead Door Co.
Winnipeg—Floline Co. of Canada
NOVA SCOTIA
Halifax—David Macnab

OVERdoor Division of
BARBER-COLMAN COMPANY
ROCKFORD, ILLINOIS, U. S. A.

F 4644-13

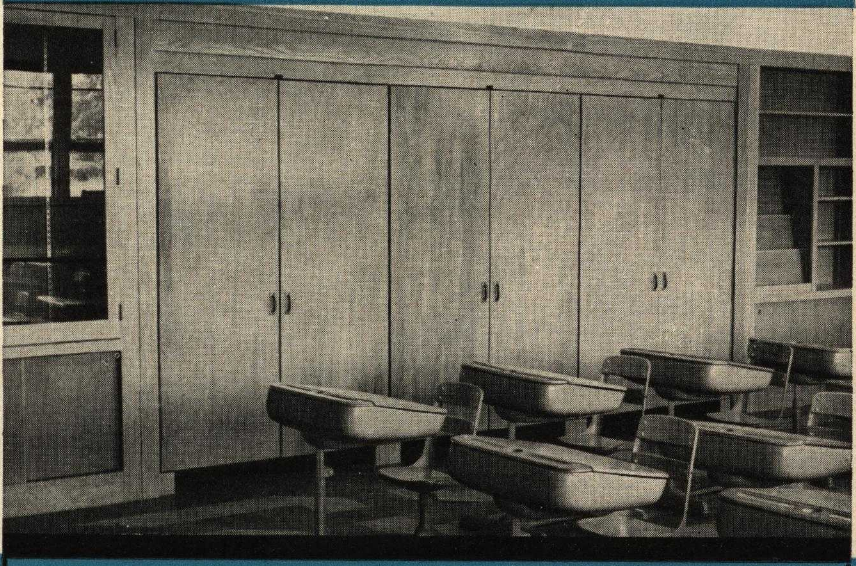
Printed in U.S.A.

23d
Ca

Evans

WARDROBE HARDWARE

Vanishing DOOR WARDROBES



CARNAHAN
HARDWOOD VENEERED DOORS

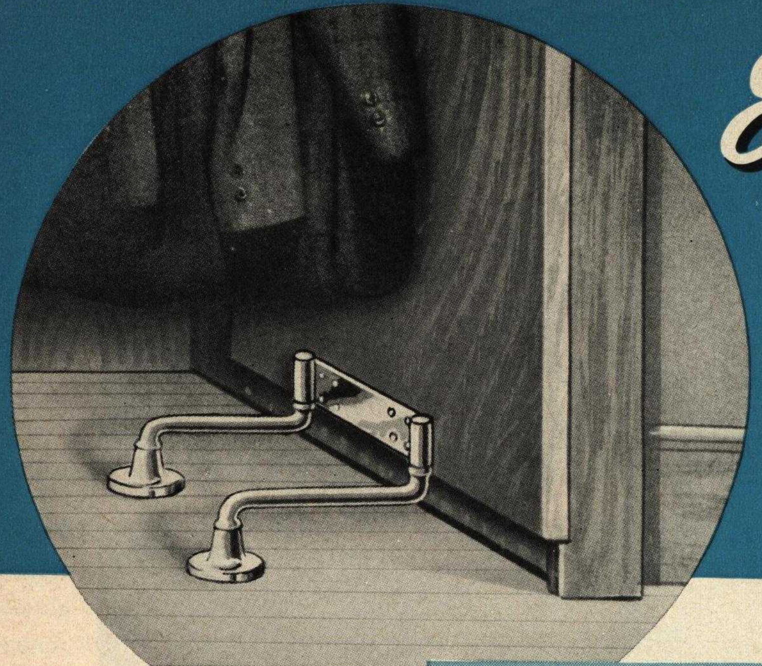
Quality Craftsmanship
AWI
ARCHITECTURAL WOODWORK INSTITUTE

for . . .
schools · churches · hospitals
office buildings

CARNAHAN MANUFACTURING COMPANY, INC.
LOOGOOTEE · INDIANA

Evans HINGES

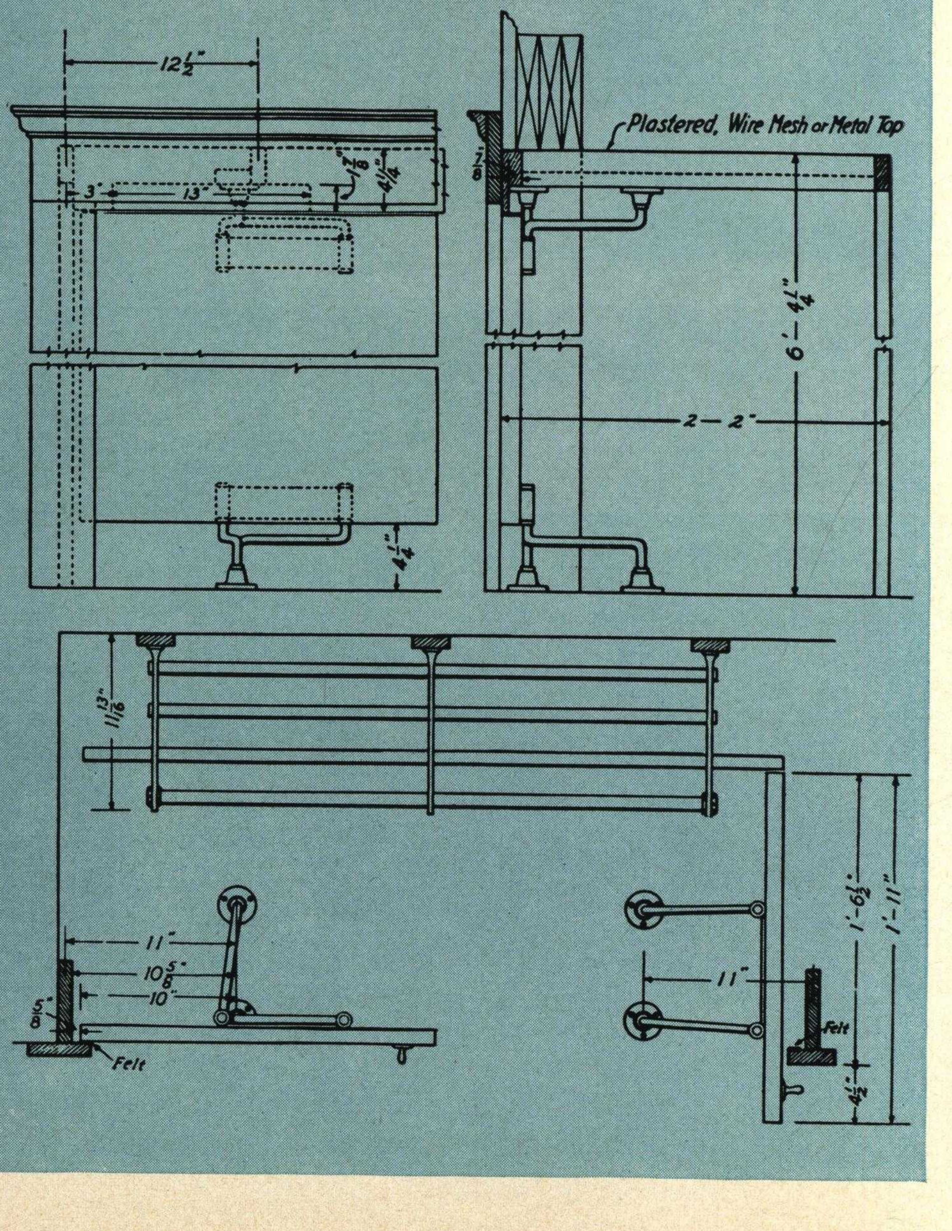
Architects in the United States and Canada have been specifying Evans Vanishing Door Wardrobe Hinges for over 40 years. This hardware is easily installed and maintained; is economical in original cost and needs no adjustments over a long period of time. It is designed and manufactured by a company having over 50 years of practical experience in the manufacture of complete millwork, cabinets, wardrobes and doors to architect's specifications. The standard coat and hat rack consists of steel brackets, 1 metal hanger rod and 7 wood rods. Garment hangers can be furnished with either removable or non-removable hooks.



FLOOR TYPE CB-7

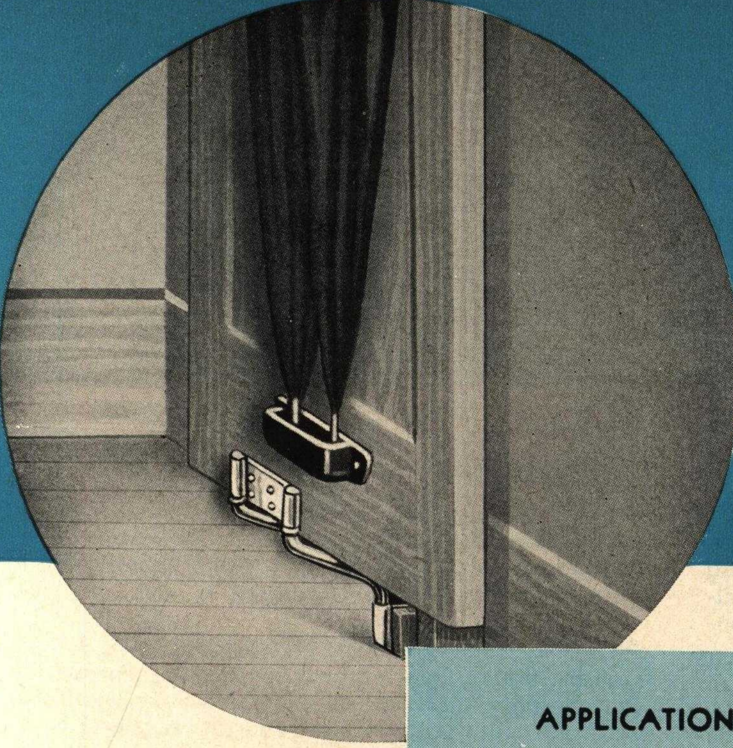
Floor Type CB-7 hinges are designed for individually operated, floor mounted, receding wardrobe doors. Doors can be set with a floor clearance up to 4¼″. The CB-7 hinge swings the door, when opened, back into the wardrobe 18½″, thus leaving but 4½″ of the door projecting past the trim on 2′0″ doors, which is necessary for door pulls. Wider doors will have correspondingly greater projections.

APPLICATION OF TYPE CB-7 (FLOOR TYPE) HINGE



Evans

WARDROBE HARDWARE



SPECIFICATIONS

Note: Words or phrases in parentheses are selective.

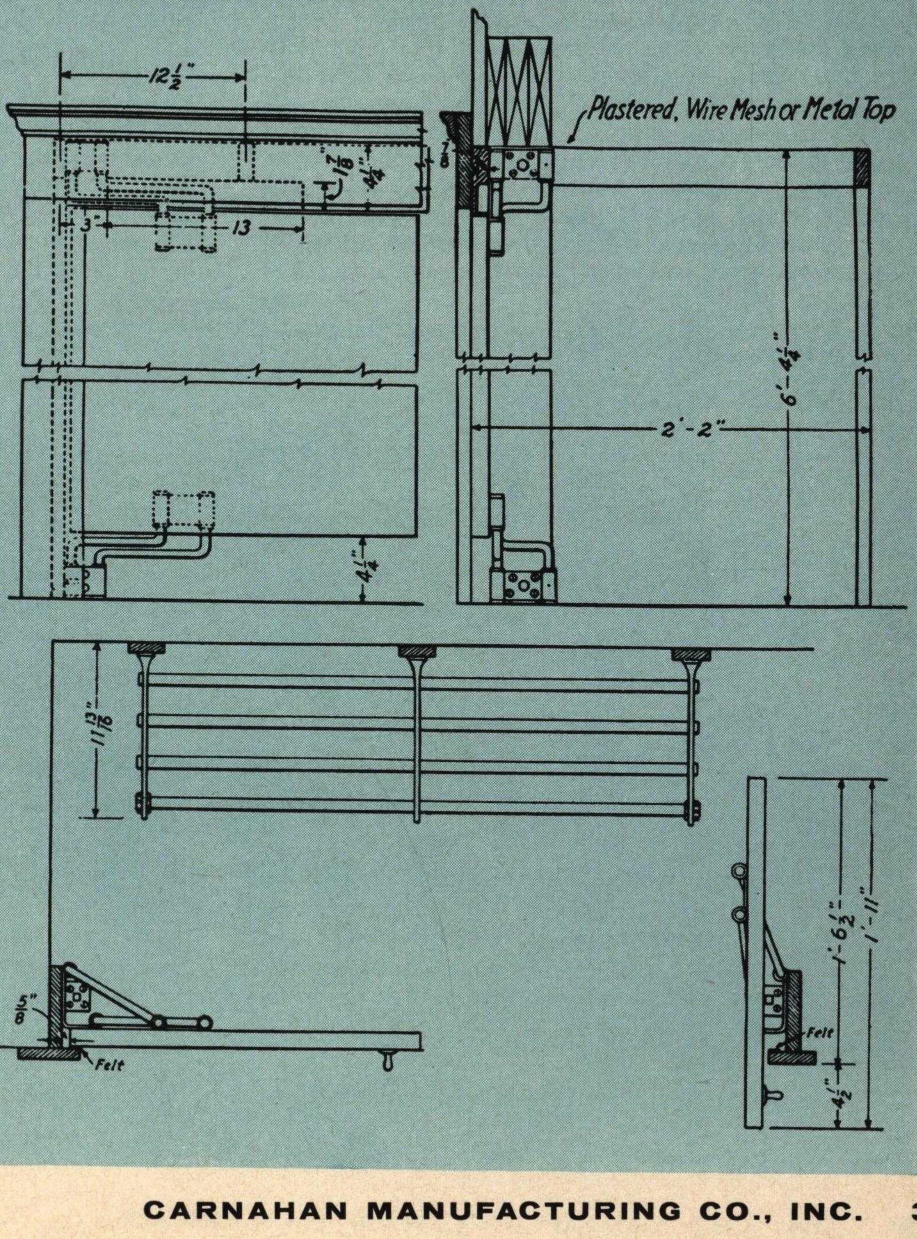
Wardrobe hinges shall be Evans Vanishing Door Wardrobe Hinges (Type CB-7) (Type W), dull black finish, complete with screws, felt strip-type door bumper and steel stop for top of doors, as manufactured by Carnahan Manufacturing Company, Inc., Loogootee 1, Indiana.

Coat and hat racks shall be Evans Sanitary Racks (3'0" long for 4'0" wardrobe sections) (4'0" long for 5'0" wardrobe sections) consisting of 3 steel brackets with bolts, 1 metal hanger rod and 7 wood rods. Garment hangers shall be 15" wood hangers with (open removable) (closed non-removable) hooks. Eighteen garment hangers required for 4'0" wardrobe sections, twenty-four for 5'0" sections.

JAMB TYPE W

Jamb Type W hinges are designed for individually operated, jamb mounted, receding wardrobe doors. Doors can be set with a floor clearance of 4¼" MINIMUM up to any height desired. This hinge swings the door, when opened, back into the wardrobe 18½", thus leaving but 4½" of the door projecting past the trim on 2'0" doors, which is necessary for door pulls. Wider doors will have correspondingly greater projections.

APPLICATION OF TYPE W (JAMB TYPE) HINGE



Evans

VANISHING DOOR WARDROBES

Architects everywhere specify EVANS wardrobes, hinges and equipment. The thousands of installations throughout the United States and Canada testify to the practicability of EVANS wardrobes.

DESCRIPTION

ventilation

Ventilation is ordinarily provided by setting the doors up off the floor so that the air from the room is drawn into the wardrobes under the doors, passes upward through the wardrobes and through the vent mesh ceiling into the space above the wardrobes which is connected to the vent stacks.

simplicity

Simplicity was the predominant idea in designing the hinges; hence a hinge consisting of double pivoted arms, with no tracks, guides, rollers, or other intricate mechanism that might cause the doors to stick or bind, or to require repairs or adjustments from time to time.

There is no adjustment provided for the hinges, as once they are properly installed (which is easily accomplished) there is no way for them to get out of adjustment.

Each door is opened independently of the others and with such quietness and ease that simultaneous operation of all doors from a master door, through the use of complicated rods and levers, is unnecessary.

arrangement

Wardrobes illustrated in this catalog are all standard 12′0″ wardrobes consisting of three 4′0″ units; however, any number of any size units may be arranged in a single wardrobe.

standardized construction

Construction of the wardrobes has been standardized so that the same space is required whether the wardrobes are made with wood backs and ends or for plaster backs and ends, and whether the "Floor" or "Jamb" type hinges are used.

vanishing door hinges

Vanishing Door Hinges, Racks and Garment Hangers can be furnished separately.

Vanishing Door Hinges are made in two types, Floor Type CB-7 which is secured to the floor and the ceiling, and the Jamb Type W which is secured to the jamb.

All hinges are substantially made of high grade steel in dull black finish only.

ADVANTAGES

1. **it is a space saver**
   Requires only 30% of space needed for a cloakroom. Doors swing back into wardrobe and do not interfere with use of aisles.
2. **it is simple**
   Every part of the Evans Vanishing Door Wardrobe has been planned for simple operation, easy, silent opening and closing.
3. **it is practical**
   The Evans Vanishing Door Wardrobe is made to set flush with wall, with or without mullions between pairs of doors. Each door opens independently.
4. **it is trouble free**
   No hardware like the Evans Hinge. Gives trouble free operation for the life of the building. No tracks, rollers, or other intricate parts.
5. **it is low in cost**
   The amazing simplicity of the Evans Wardrobe, with all woodwork cut to size and no complicated hardware, results in a surprisingly low price.
6. **it is easy to install**
   Delivered, knock-down cut to size, with an ample number of sizes to choose from, the Evans Vanishing Door Wardrobe is quickly, easily installed.
7. **it is designed right**
   Even such details as provision for ventilation to dry wet or damp clothing are included. Thousands of successful installations attest Evans' merits.

Evans

WARDROBES

EVANS VANISHING DOOR wardrobes combine the three features that are generally considered all important in school or public building equipment; simple, practical, economical. EVANS hinges or equipment can be purchased separately.

doors

Doors are 1⅜″ thick made for openings 6′-0″ high (the doors setting 4¼″ above the floor unless otherwise specified). Flush doors are Carnahan Hollow Core flush door made with special rails for application of EVANS WARDROBE hinges. Panel doors can be furnished to match the type of doors used in the building.

racks and garment hangers

Racks and garment hangers are standard arrangement for the pupils' units. The racks for a double-door unit consist of three metal brackets, each provided with four holes at the top and four at the bottom to receive rods 13/16″ in diameter. The lower front rod is metal and the other seven rods are wood. The racks for a single-door unit require but two brackets. Brackets are finished dull black. The garment hangers are manufactured especially for this purpose and are substantially made of hard wood, finished with wax, and provided with a hook that holds these securely on the rod, yet permits of easy removal. The number of hangers furnished for the various size units are: 4′0″ unit—18; 2′0″ unit—9; 5′0″ unit—24; and 2′6″ unit—12.

shelves and coat hooks

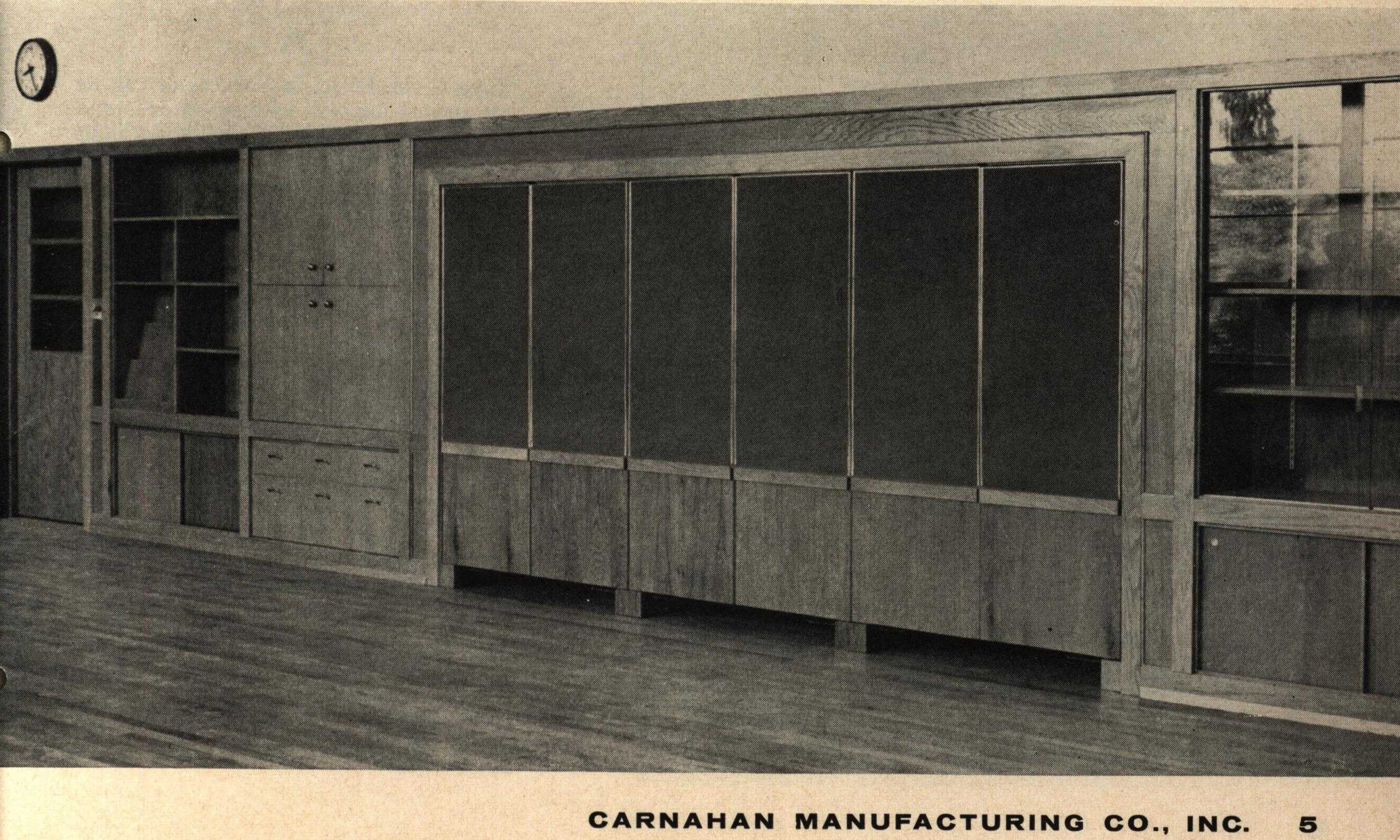
Shelves and coat hooks can be furnished instead of racks and garment hangers at the same price. This arrangement consists of a 12″ top shelf and a 10″ bottom shelf, each supported by three brackets for a double door unit. A hook strip is provided for each of these shelves and also one to set below the bottom shelf. Sixteen two-prong, dull black finish hooks are furnished for a 4′0″ unit and a proportional number for other units.

umbrella racks

Umbrella racks as shown on the backs of the doors in illustration on page 2, are furnished as extras. The umbrella racks are made with a heavy rail and a brass drip pan.

blackboards

It is recommended that "non-continuous" blackboards be planted on the doors with a mould around all four edges. Wood chalk trough and wood blackboard moulding can be supplied at extra charge. Note, we do not furnish blackboard or tack board.

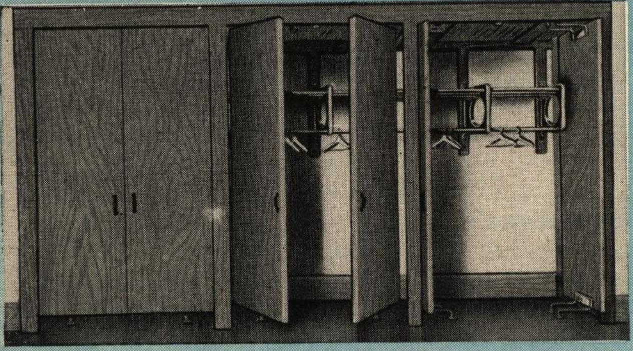


Evans

VANISHING DOOR WARDROBES

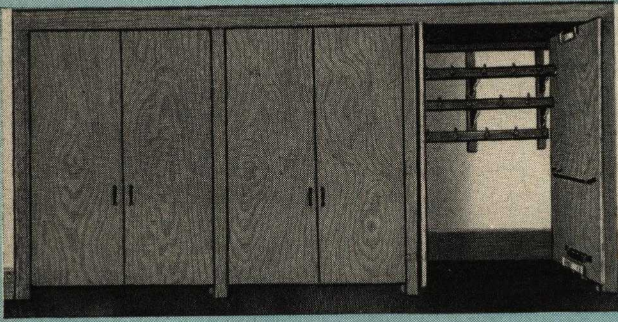
Evans Vanishing Door Wardrobes are adaptable to any special conditions of the building or to the requirements of the school. These can be furnished in practically any size, used in connection with teachers' closets, bookcases, storage closets, etc. The sizes most generally specified are in multiples of 4′-0″ and the Type P is the most widely used. Either the Jamb Type W Evans Wardrobe Hinge or the Floor Type CB-7 can be used.

TYPE "P" WITH FLUSH DOORS



Type P wardrobe is made to set in recess flush with wall, for plaster back, ends and ceiling, and can be furnished with EVANS Floor Type CB-7 hinges illustrated, or Jamb Type hinge W shown on page 3. Wardrobes can be in any multiple of 4′0″ sections.

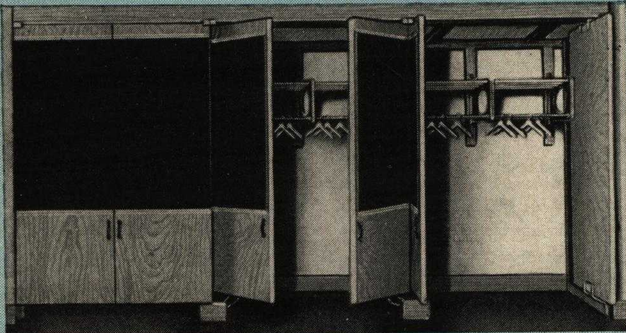
TYPE "C" WARDROBE



Type C can be set in a recess or can be set against the wall with wood ends and top; or can be furnished with divisions and back if required.

Wood shelves, back strips and hooks, or the regular rod racks can be furnished.

TYPE "B" WARDROBE



Type B wardrobe is made for continuous doors without dividing mullion.

These can be equipped with Jamb Type W hinge as illustrated or Floor Type hinge CB-7.

When CB-7 Floor Type hinges are used plinths are unnecessary.

We do not furnish blackboards.

Note: Wood panel doors can be furnished on any of the above types of wardrobes upon request.

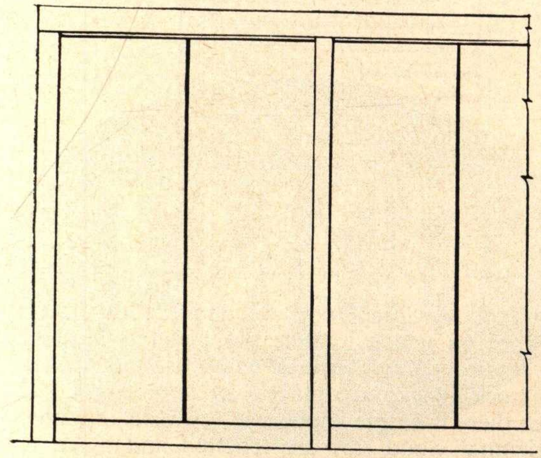
Evans

WARDROBES

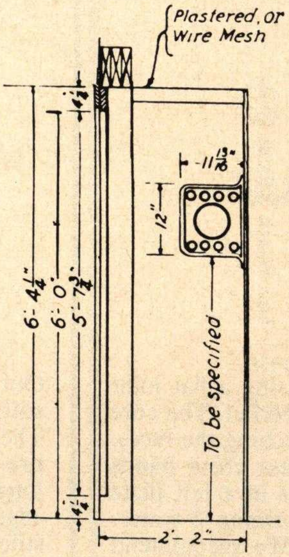
AVAILABILITY

Evans Vanishing Door Wardrobes are available from lumber dealers, school specialty representatives and direct from factory and sales office of Carnahan Manufacturing Company, Inc., Loogootee 1, Indiana.

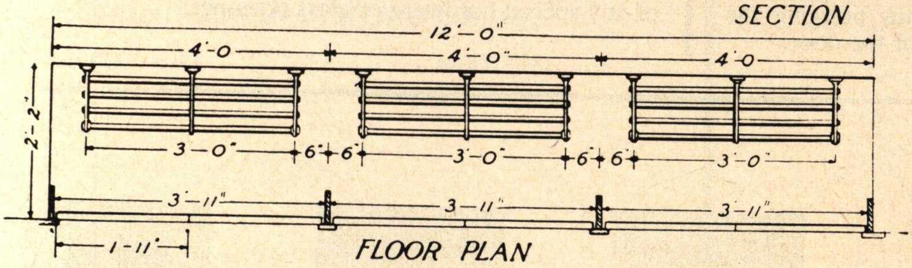
DETAILS



ELEVATION

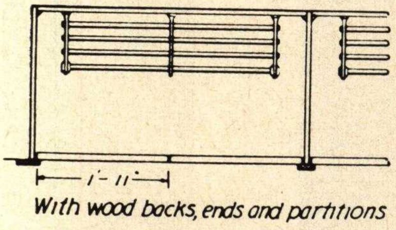


SECTION

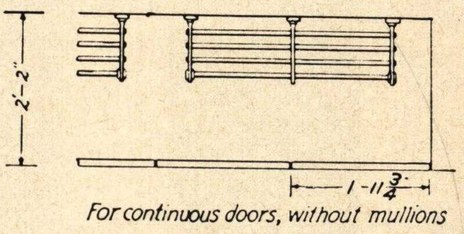


FLOOR PLAN

For plaster backs, ends and ceilings - without partitions



With wood backs, ends and partitions



For continuous doors, without mullions

SPECIFICATIONS

general

Wardrobes as shown on drawings shall be Evans Vanishing Door Wardrobes as manufactured by the Carnahan Manufacturing Co., Inc., Loogootee, Indiana. Wardrobes shall be complete with all panels, casings, frames, trim, doors, hardware and accessories.

wardrobes

Wardrobes shall be Type _____ made to set (in recess flush with walls) (against wall with exposed tops and ends) with all exposed parts to be of_____ (species of wood). Ends and backs shall be (wood) plaster, (with) (without) partitions. Mullions (shall) (shall not) be placed between pairs of doors.

hardware

Hardware shall consist of Evans (Floor Type CB-7) (Jamb Type W) hinges, constructed of steel and finished in dull black.

doors

Doors shall be Carnahan Hollow Core flush type* with special rail construction as manufactured by Carnahan Manufacturing Co., Inc. Doors shall be 6'0" high and 1⅜" thick with face veneers of ________ (species of wood).

accessories

Wardrobes shall be equipped with (racks and garment hangers) (shelves and coat hooks).

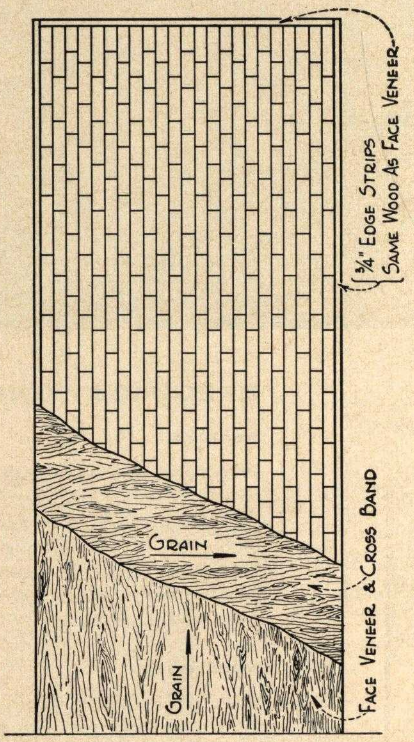
shipment

Wardrobes shall be shipped to the job site knocked down in the white and shall be installed and finished on the job by others.

*Panel doors available upon request.

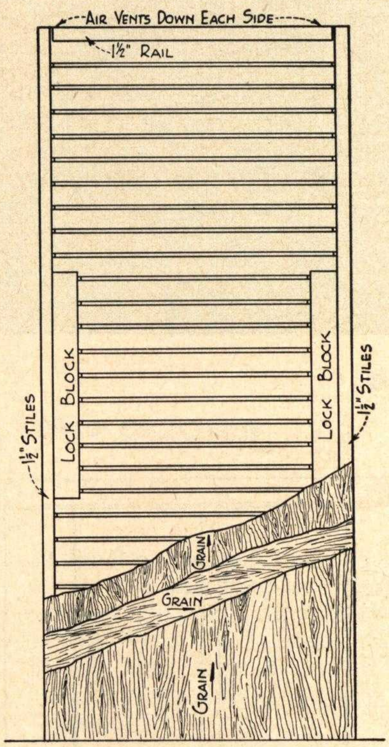
CARNAHAN flush veneer door construction

solid core doors


3/4" Edge Strips
Same Wood As Face Veneer
Grain
Face Veneer & Cross Band
Grain

Solid Core Flush Doors are made by using a flat joint core block construction, thoroughly kiln dried. The core is banded four edges with 3/4″ wood matching the faces. After sanding the core to even thickness cross bands and face veneers are glued to both sides in a hot plate press, using Type 1 Waterproof glue forming 2 waterproof films on each side of the core. We recommend thin face veneers and cross bands, thus bringing the waterproof glue line closer to the face of the door.

hollow core doors


Air Vents Down Each Side
1½" Rail
1½" Stiles
Lock Block
Lock Block
1½" Stiles
Grain
Grain
Grain

Our Flush Hollow Core Doors are made with a rigid softwood core on which a three ply panel is applied. The outer frame is 1½″ finished width around the entire door. Lock blocks are placed on both edges 27″ long so that there is ample anchorage for locks on either edge. Horizontal wood ribs are tenoned and glued to stiles. Additional blocking may be added to take care of any special hardware or glass openings.

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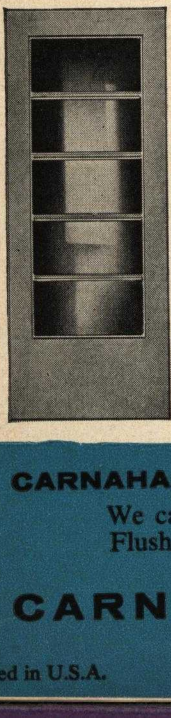
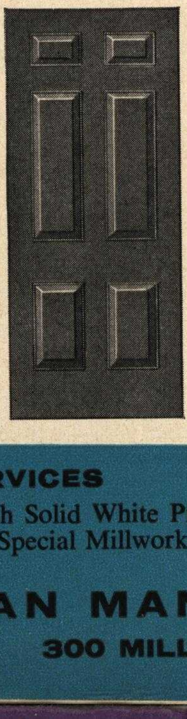
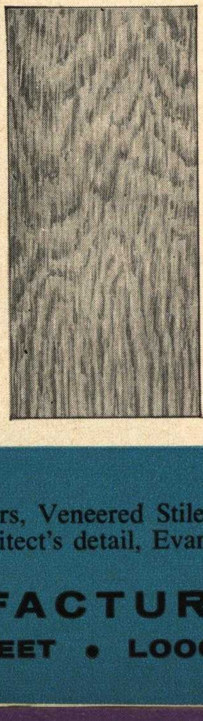
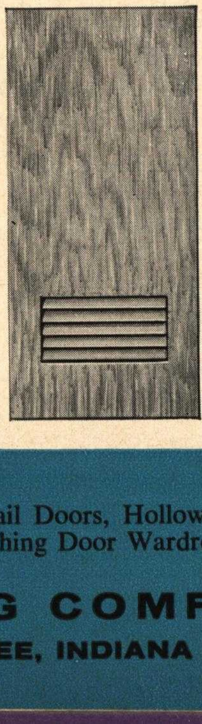
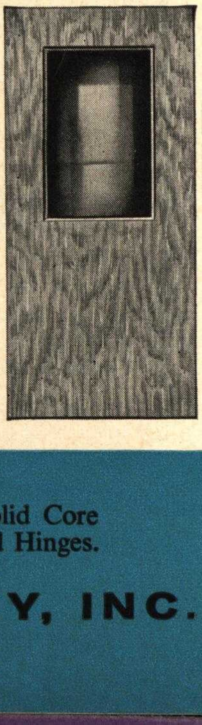
typical door styles









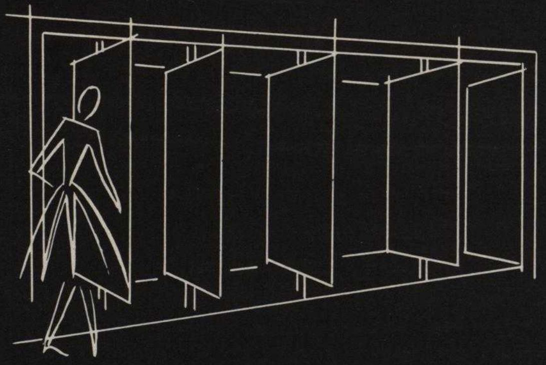


CARNAHAN SERVICES

We can furnish Solid White Pine Doors, Veneered Stile and Rail Doors, Hollow and Solid Core Flush Doors, Special Millwork to architect's detail, Evans Vanishing Door Wardrobes and Hinges.

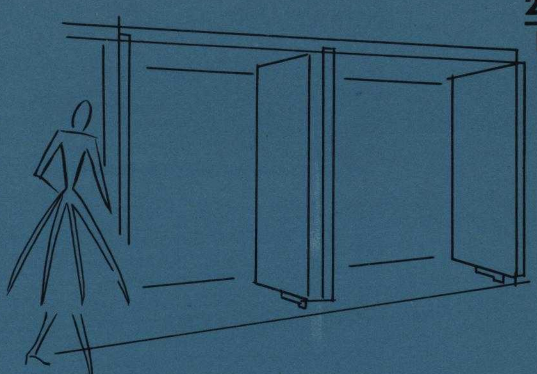
CARNAHAN MANUFACTURING COMPANY, INC.
300 MILL STREET • LOOGOOTEE, INDIANA

Printed in U.S.A.



PIVOT

multiple operation



RECEDING

multiple or individual operation

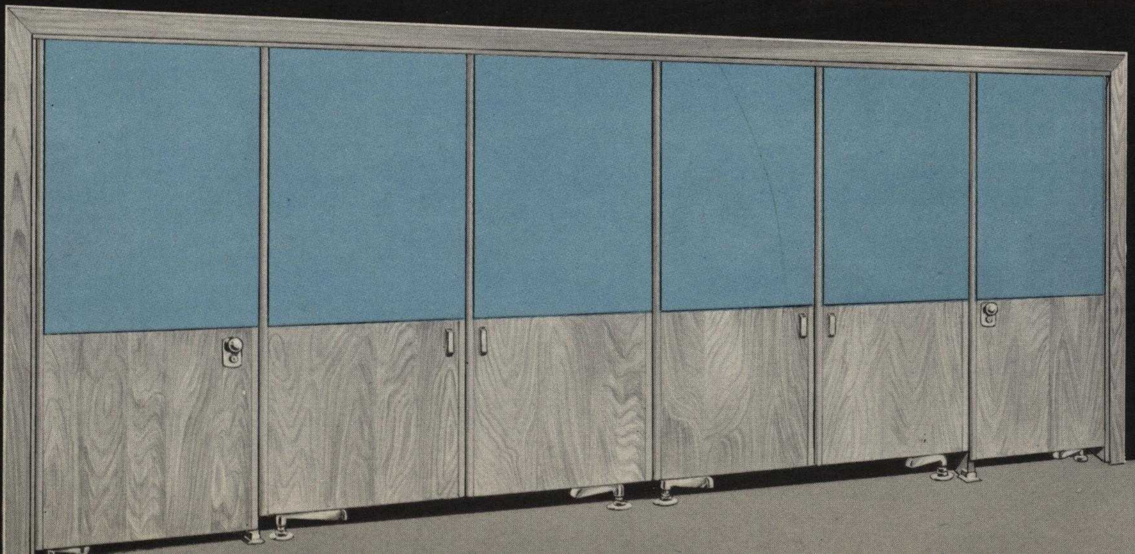
SINCE
EMCO
1932

EQUIPMENT MANUFACTURING CO., INC.
KANSAS CITY, MISSOURI

classroom wardrobes

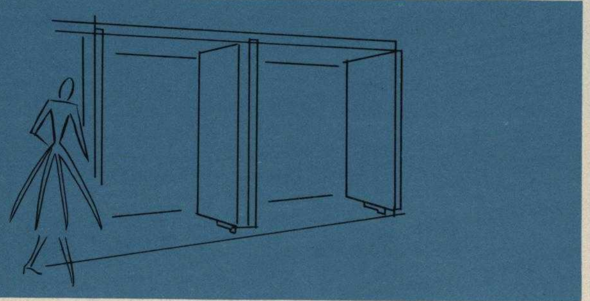
The *safe* receding door wardrobe in multiple or individual door operation

SAF-T-DOR



SINCE
EMCO
1932

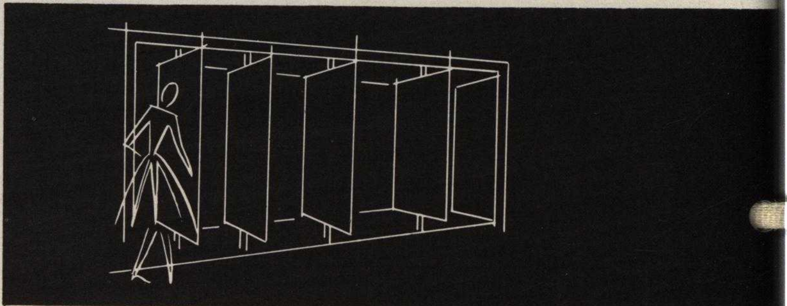
THE IMPORTANCE OF EMCO DESIGN—An EMCO wardrobe system provides a safe, well-ventilated, sanitary and convenient method of storing children's wraps under the supervision of the teacher. This system is the result of many years study of wardrobe needs and performance. Nothing takes the place of an EMCO wardrobe for wrap storage. They have proved themselves in many thousands of schools to be not only the best system but also the most economical method. EMCO wardrobes are not expensive—they will last the life of the school. EMCO wardrobes are designed with ideas of safety and sanitation foremost, but they are also space savers—an important factor in both remodeling and planning new buildings. Both Receder and Pivot models available.



RECEDER WARDROBE—EMCO is a true receder—not just a folding door. Doors open in opposite directions giving the width of two doors for passage in and out to the wraps. Over three-fourths of the door recedes back into the recess leaving more free usable cube in the classroom. Both individual (Model 400) and multiple (Model 100) operating doors available.

HARDWARE—offset arm type. Both lateral and vertical adjustments provided to compensate for settling that might occur in lintel or floor. Shaft connecting upper and lower arms is of cold rolled steel. Upper arm and interior assembly of certified malleable iron finished in dead black, brown or aluminum lacquer (color optional). Lower arm and assembly of solid cast bronze finished to match building hardware. The weight of door is carried by pivot arm assembly which is, in turn, transferred to a ball bearing floor plate at floor.

DOORS—thickness 1⅜″ or 1¾″—any width between 2′0″ and 3′0″—solid core *standard* unless otherwise specified. Any veneer desired. (All models EMCO wardrobes.)

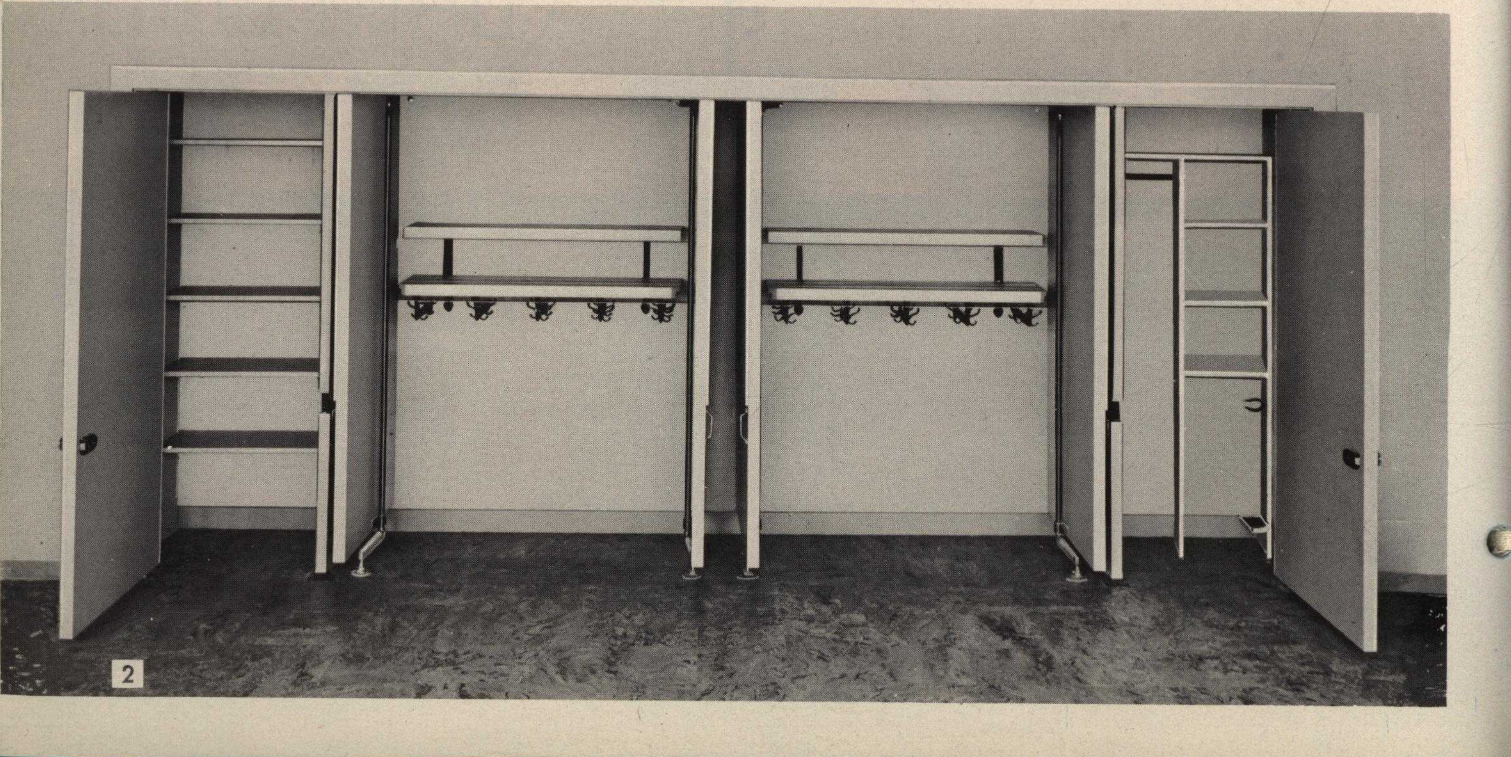


PIVOT WARDROBE—Doors open all in one direction with half of door protruding into room. Multiple operation only with doors latching in both opened and closed positions. Lower in cost than receder models.

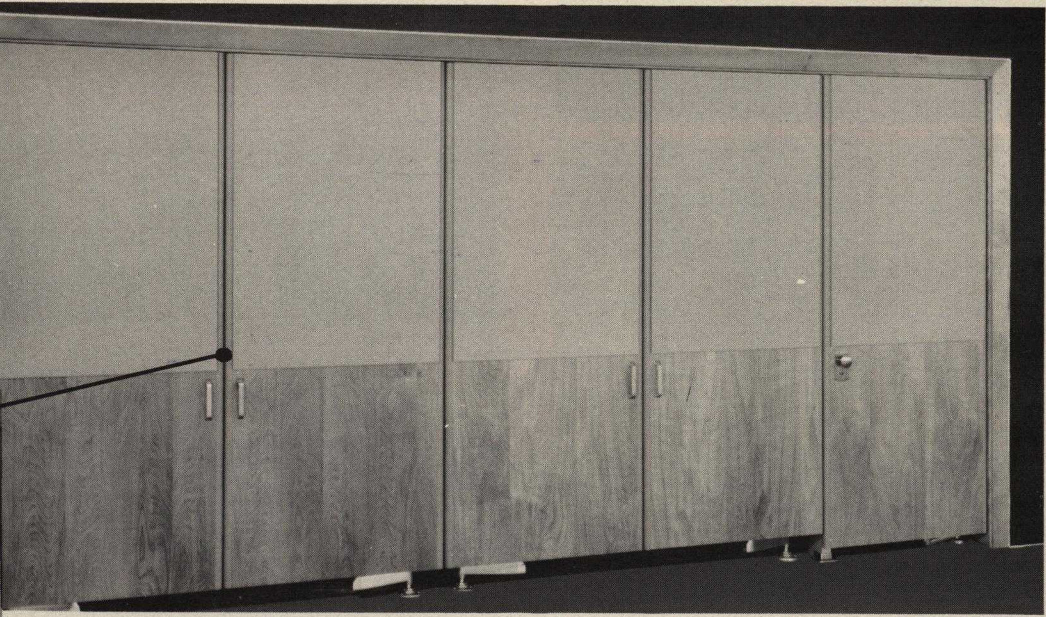
HARDWARE is built to same high specifications as for receder models with same colors and finishes available. Door works as own connecting shaft between upper and lower pivots. All operating hardware is of solid cast bronze. Vertical and lateral adjustments provided to maintain door alignment.

PUPIL CAPACITY—8 pupils per door in cold climates, 10 per door in warmer climates suggested; however EMCO will accommodate as many hooks as any wardrobe.

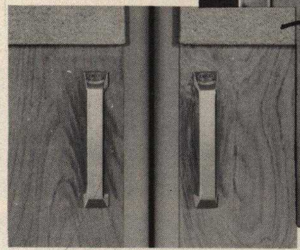
CLOSETS – Teacher, Supply, Book Cases – advantageous price wise to add to wardrobe, and will present a continuous surface without dividing mullions, and door may be hung to recede or with pivot or butt hinges.



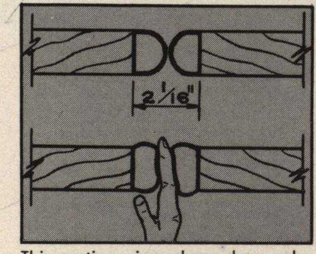
NEW SAF-T-DOR WARDROBE



Pictured is Model 400 Single operating receder and teacher closet—all with Saf-T-Dor application.



Rubber molding is firmly mounted on door edges. Neutral finish blends with door.



This section view shows how rubber moldings cushion hands and fingers against injury if caught between doors.

NOW DOUBLE SAFE WARDROBE DOORS

Rubber Door Moldings Safeguard Children's Fingers and Hands Completely. Now there's *double* door safety in EMCO wardrobes. They open safely—can't pinch fingers in opening . . . and they close safely—with the new Saf-T-Dor *Rounded Rubber Molding* on each door closing edge.

EMCO is now super safe in every way—smoothly finished woods, rubber cushioned edges, no dangling overhead weights, no obstacles in the recess—and each door on its own hardware prevents bumping of door against door to pinch fingers, etc.

So play it safe with EMCO. Specify EMCO Saf-T-Dor Wardrobes when you build or improve school rooms . . . *insist on wardrobes built by the safety pioneer in the field* . . . and you'll get quality wardrobes installed by factory trained experts with the protection features that are priceless.

TO SPECIFY SAF-T-DOR

Select model wardrobe desired by referring to pages showing descriptions and details as listed below, add the letter "R" to model number (i.e. 400R), then refer to specifications on back cover and add to specifications for model selected the following: "Doors to be EMCO SAF-T-DOR with special extruded rounded Koroseal astragals to exactly fit edges of doors"

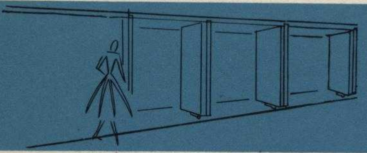
SAF-T-DOR is optional on all model EMCO wardrobes at slight extra cost. To make model selection refer to following pages this catalog.

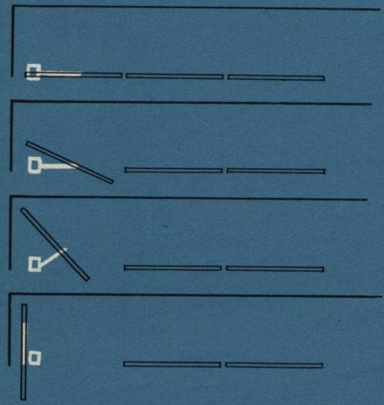
Model 400 (Single Operating Receder Door) Page 4 & 5
Model 100 (Multiple Operating Receder Door) Page 4 & 6
Model 200 (Multiple Operating Pivot Door) Page 4 & 7

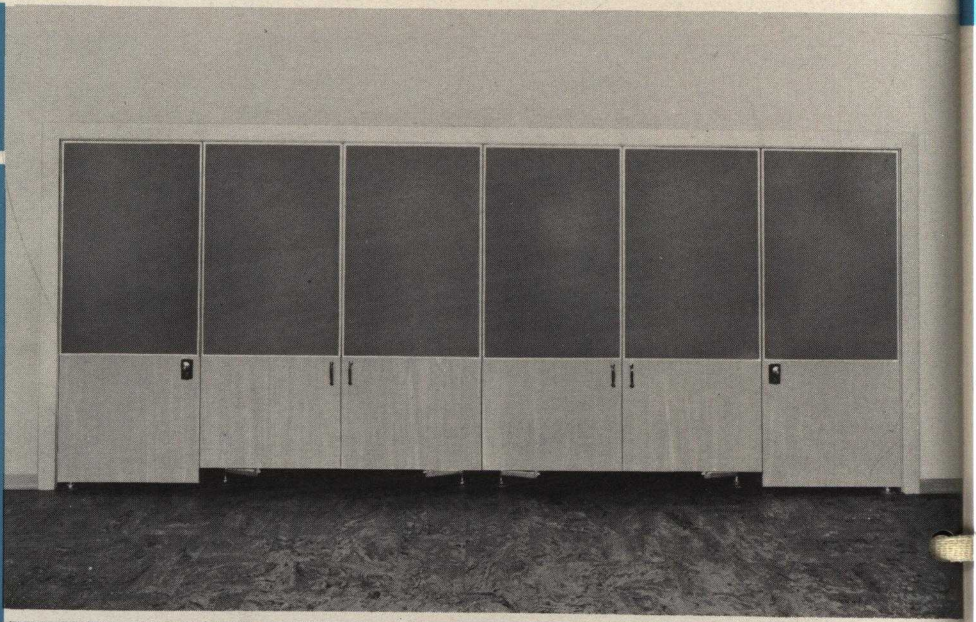
SAF-T-DOR
OPTIONAL ON ALL MODELS
EMCO WARDROBES

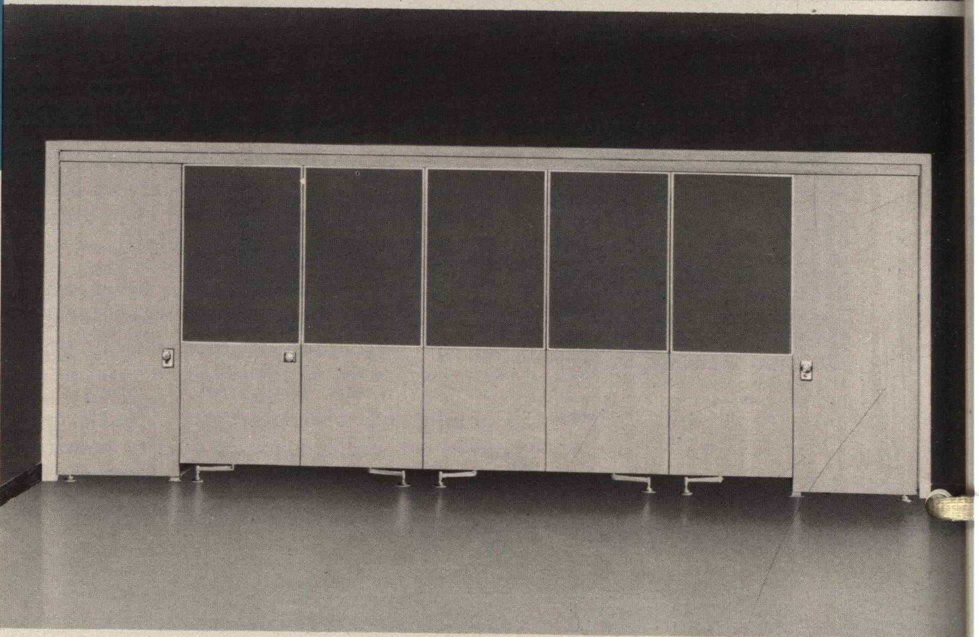
SAF-T-DOR

IN CLASSROOM WARDROBES — IT ALWAYS PAYS TO SPECIFY — THEN INSIST ON EMCO





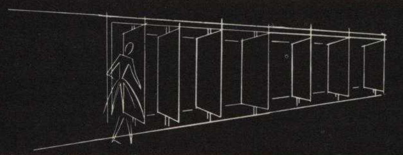


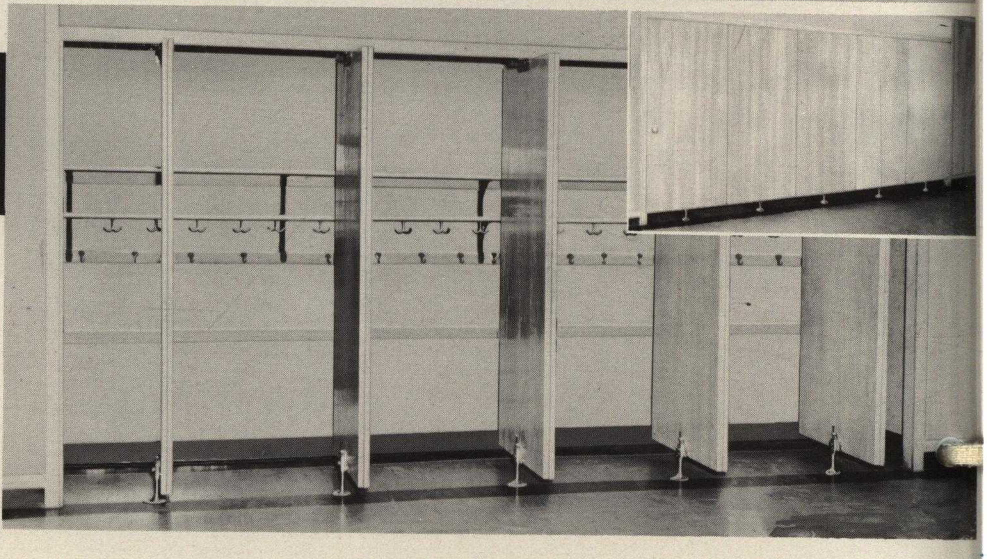


RECEDING

Single Operating (Model 400)—Doors operate individually, as shown above, on an offset pivot which turns door and recedes it into recess. Door immediately adjacent swings in opposite direction giving width of two doors for entrance to wraps. Doors latch both in opened and closed positions. This model pictured at top of this page and bottom of Page 2. (Details Page 5—Specifications back cover)

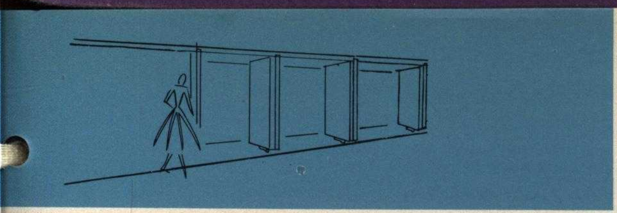
Multiple Operating (Model 100)—Same as above except all doors operate simultaneously when first door is opened. Pictured at center right and at bottom of Page 2. (Details Page 6—Specifications back cover)





PIVOT

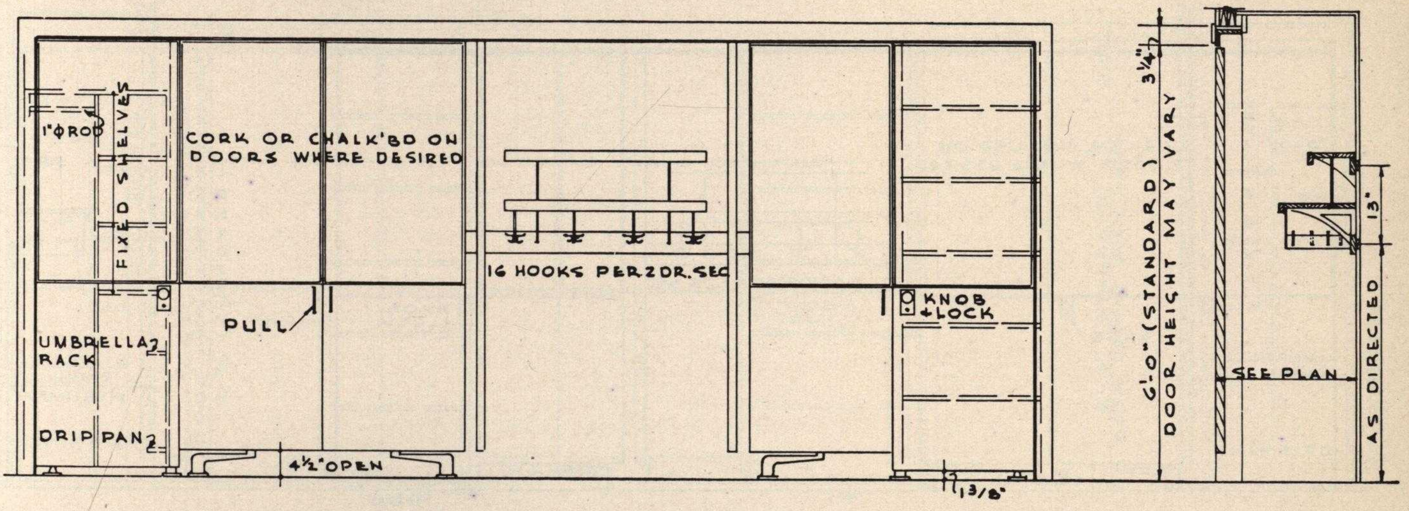
Multiple Operating Only (Model 200)—All doors open simultaneously when first door is opened. Each door pivoted in center with all doors opening in same direction. One half of door recedes into recess—other half protrudes into room. Positive latch in both opened and closed positions to avoid accidental closure of doors. Pictured at right. (Details Page 7—Specifications back cover)



RECEDING

MODEL 400 SPACEMASTER

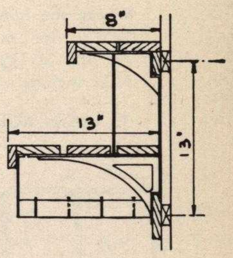
INDIVIDUAL DOOR OPERATION


1"Ø ROD
FIXED SHELVES
CORK OR CHALK'BD ON DOORS WHERE DESIRED
16 HOOKS PER 2 DR. SEC
PULL
UMBRELLA RACK
DRIP PAN
4½" OPEN
KNOB + LOCK
1 3/8"
3¼"
6'-0" (STANDARD) DOOR HEIGHT MAY VARY
SEE PLAN
13"
AS DIRECTED

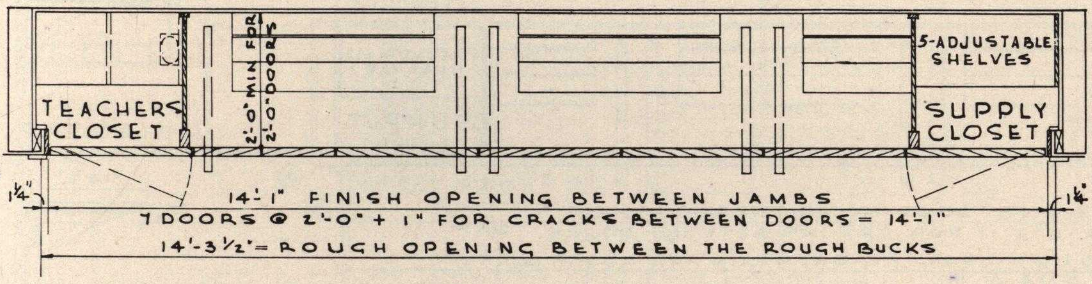
HOW TO FIGURE DIMENSION OF FINISH OPENING MODEL 400 (INDIVIDUAL OPERATION)

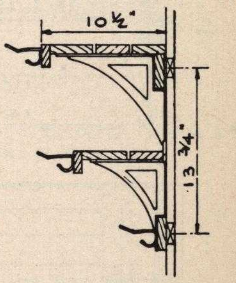
Multiply the total number of doors by the door width (from 24" to 36" as desired). Add ⅛" for the crack between each door and at each jamb.

To obtain **ROUGH OPENING** between the rough bucks, add 2½" to the finish opening dimension. (See example below.)

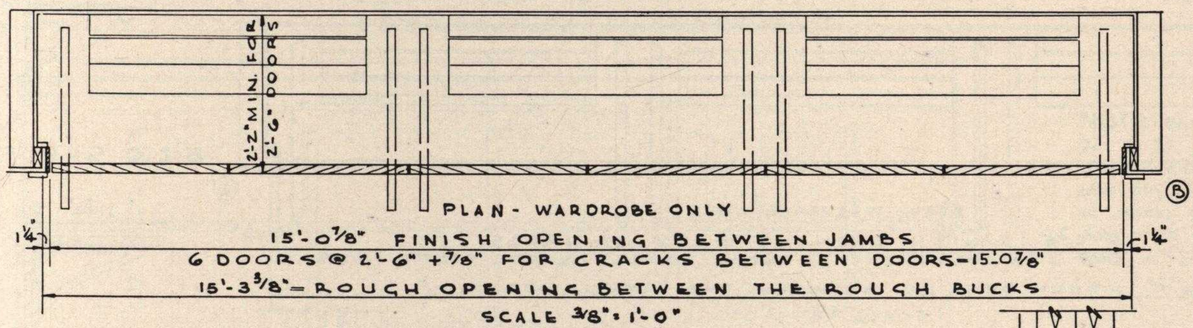


H-3 SHELF


TEACHERS CLOSET
2'-0" MIN FOR 2'-0" DOORS
5-ADJUSTABLE SHELVES
SUPPLY CLOSET
A
1¼"
14'-1" FINISH OPENING BETWEEN JAMBS
7 DOORS @ 2'-0" + 1" FOR CRACKS BETWEEN DOORS = 14'-1"
14'-3½" = ROUGH OPENING BETWEEN THE ROUGH BUCKS

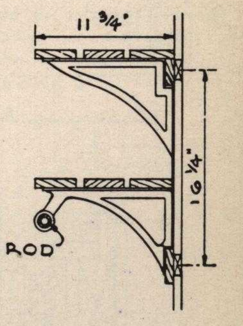


B-210 SHELF

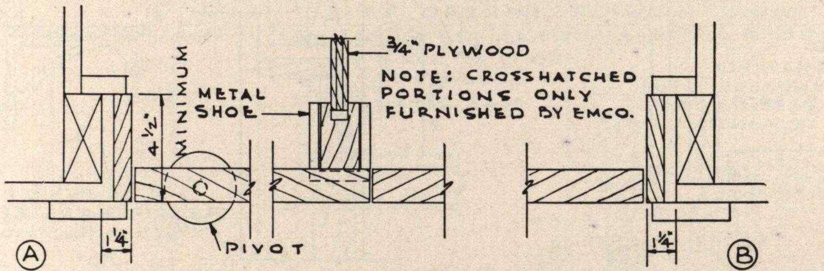

2'-2" MIN. FOR 2'-6" DOORS
B
1¼"
15'-0⅞" FINISH OPENING BETWEEN JAMBS
6 DOORS @ 2'-6" + ⅞" FOR CRACKS BETWEEN DOORS - 15'-0⅞"
15'-3⅜" = ROUGH OPENING BETWEEN THE ROUGH BUCKS

PLAN - WARDROBE ONLY

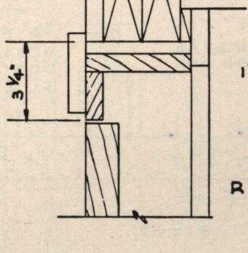
SCALE 3/8" = 1'-0"


11 3/4"
16 1/4"
1"Ø ROD

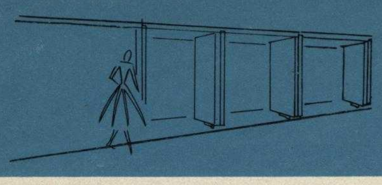
HC-2 SHELF
REQUIRES A 2'-6" RECESS
SCALE 3/4" = 1'-0"


3/4" PLYWOOD
NOTE: CROSSHATCHED PORTIONS ONLY FURNISHED BY EMCO.
METAL SHOE
MINIMUM 4½"
PIVOT
1¼"
A
B
1¼"

PLAN AT JAMBS SCALE 1½" = 1'-0"



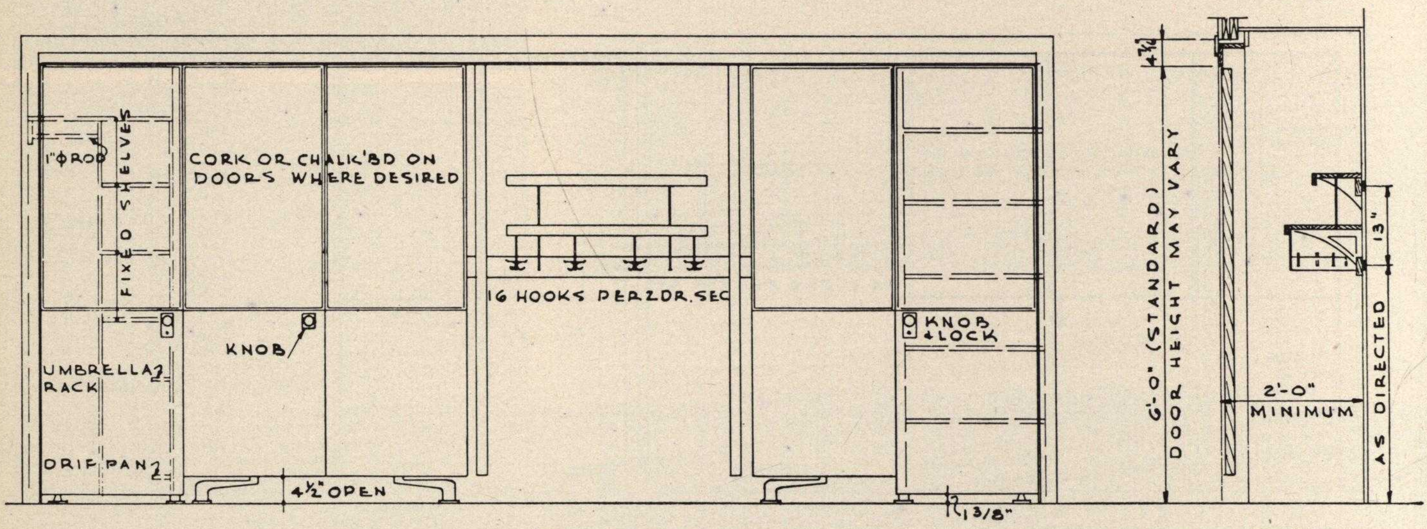
HEAD SECTION



RECEDING

MODEL 100 SPACEMASTER

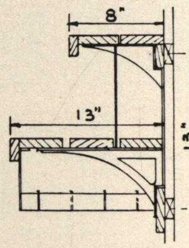
MULTIPLE DOOR OPERATION


1"φ ROD
FIXED SHELVES
CORK OR CHALK'BD ON DOORS WHERE DESIRED
16 HOOKS PER 2 DR. SEC
KNOB
UMBRELLA RACK
DRIP PAN
4½" OPEN
KNOB + LOCK
1 3/8"
4½"
6'-0" (STANDARD) DOOR HEIGHT MAY VARY
2'-0" MINIMUM
13"
AS DIRECTED

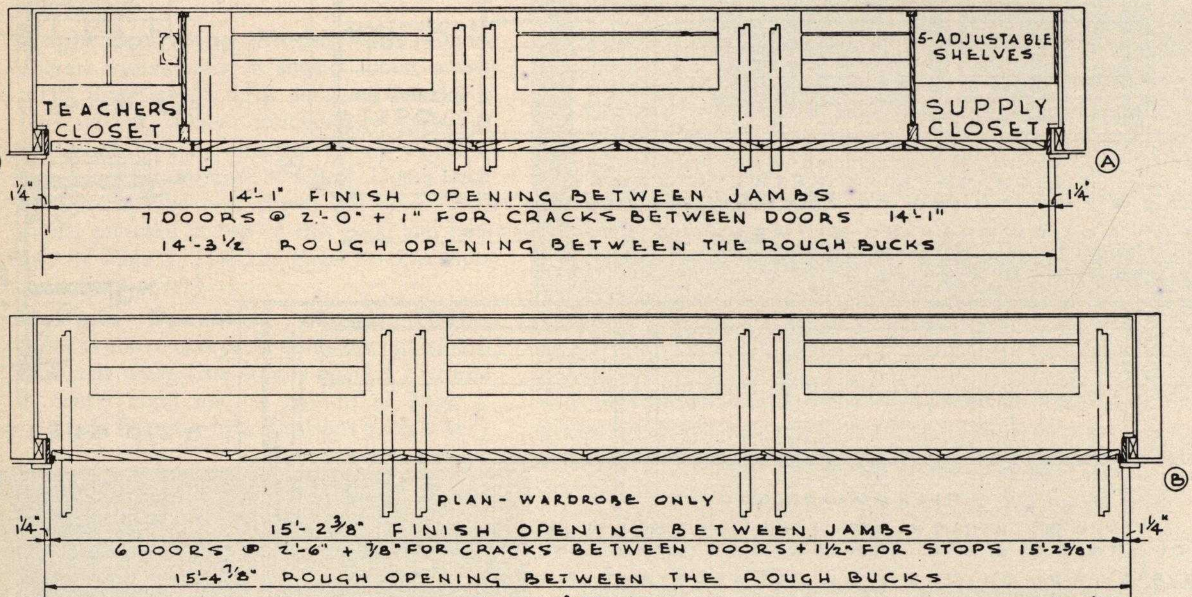
HOW TO FIGURE DIMENSION OF FINISH OPENING MODEL 100 (MULTIPLE OPERATION)

Where the number of doors used are to be an even number, multiply the total number of doors by the door widths (from 24" to 36" as desired), add 1/8" for crack between each door and at each jamb. Then add 3/4" for stop at each jamb, or total of 1½". Where the number of doors used will be an uneven number add only 3/4" for stop instead of 1½" DO NOT include stops where closets occur.

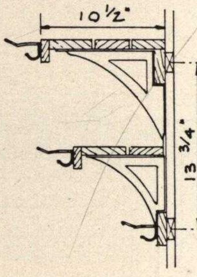
To obtain **ROUGH OPENING** between the rough bucks, add 2½" to the finish opening dimension. (See example below.)



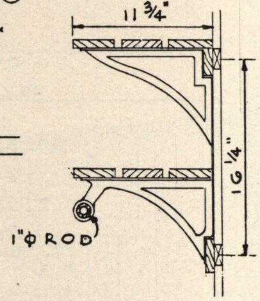
H-3 SHELF


5-ADJUSTABLE SHELVES
TEACHERS CLOSET
SUPPLY CLOSET
A
A
1¼"
1¼"
14'-1" FINISH OPENING BETWEEN JAMBS
7 DOORS @ 2'-0" + 1" FOR CRACKS BETWEEN DOORS 14'-1"
14'-3½ ROUGH OPENING BETWEEN THE ROUGH BUCKS
B
B
PLAN - WARDROBE ONLY
1¼"
1¼"
15'-2 3/8" FINISH OPENING BETWEEN JAMBS
6 DOORS @ 2'-6" + 7/8" FOR CRACKS BETWEEN DOORS + 1½" FOR STOPS 15'-2 3/8"
15'-4 7/8" ROUGH OPENING BETWEEN THE ROUGH BUCKS

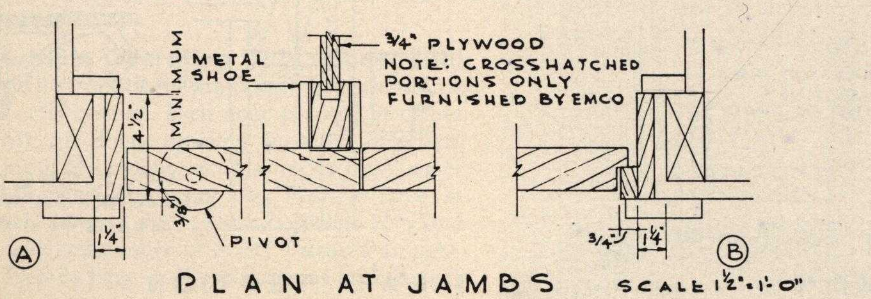
SCALE 3/8" = 1'-0"



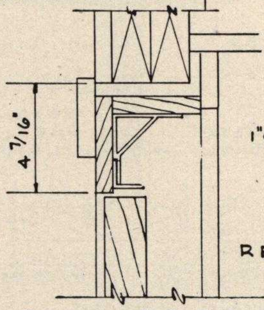
B-210 SHELF


11 3/4"
16 ¼"
1"φ ROD

HC-2 SHELF
REQUIRES A 2'6" RECESS
SCALE 3/4" = 1'-0"

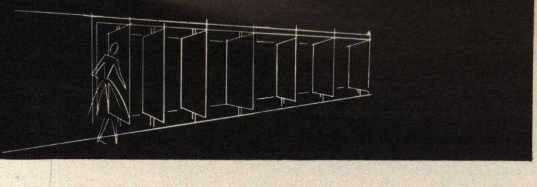

MINIMUM
METAL SHOE
4½"
3/8"
PIVOT
1¼"
A
3/4" PLYWOOD
NOTE: CROSSHATCHED PORTIONS ONLY FURNISHED BY EMCO
3/4"
1¼"
B

PLAN AT JAMBS SCALE 1½" = 1'-0"



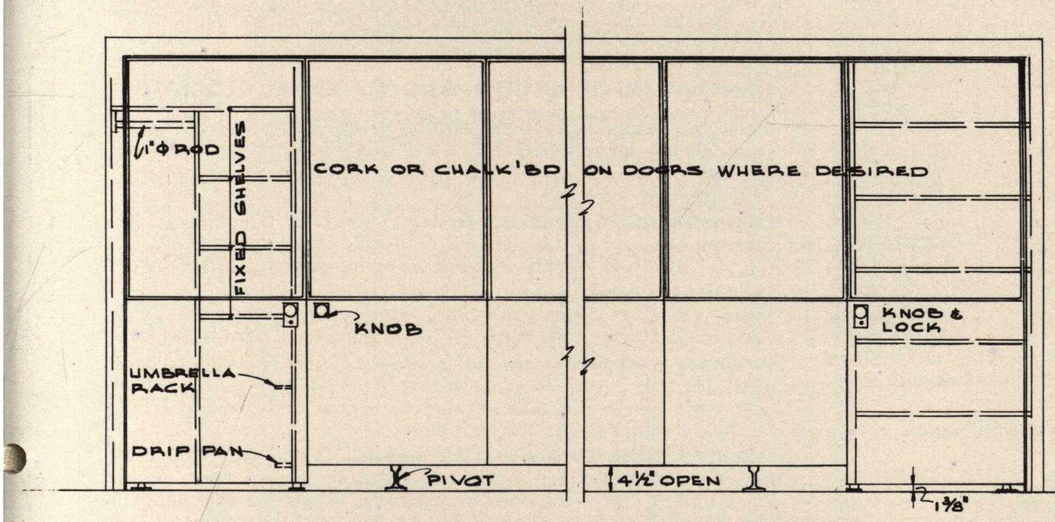
HEAD SECTION

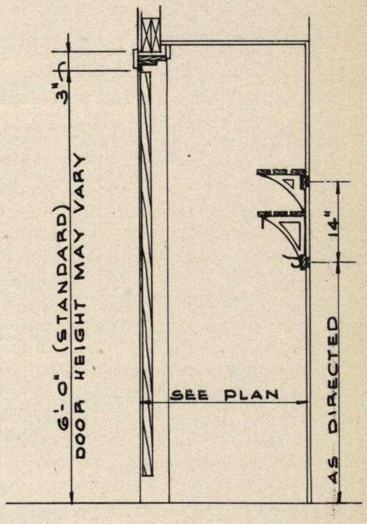
FOR SPECIFICATIONS SEE BACK COVER



MODEL 200

MULTIPLE DOOR OPERATION

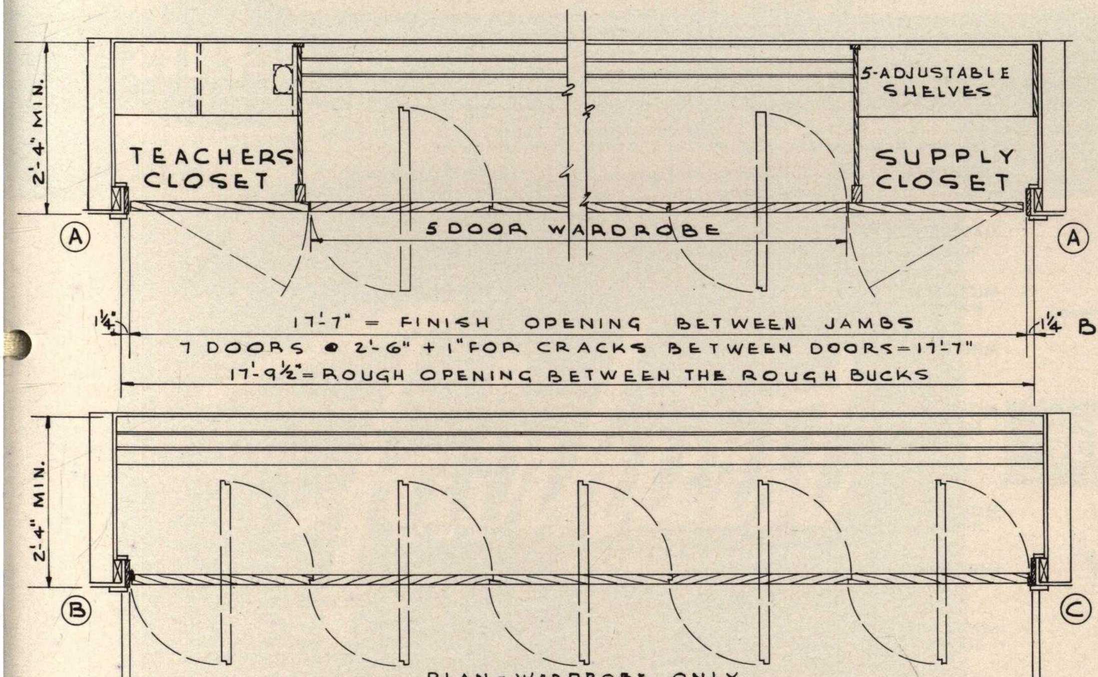

1"Φ ROD
FIXED SHELVES
CORK OR CHALK'BD ON DOORS WHERE DESIRED
KNOB
KNOB & LOCK
UMBRELLA RACK
DRIP PAN
PIVOT
4½" OPEN
1⅜"

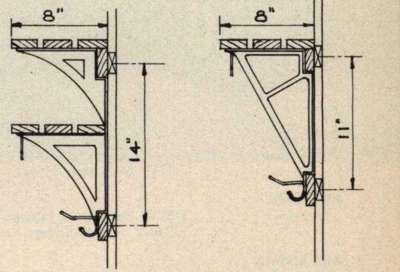

3"
6'-0" (STANDARD) DOOR HEIGHT MAY VARY
14"
SEE PLAN
AS DIRECTED

HOW TO FIGURE DIMENSION OF FINISH OPENING

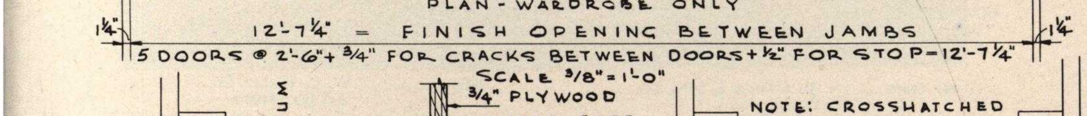
For Model 200 Center Pivot use door width (from 24" to 36") multiplied by number of doors, add ⅛" for the crack between each door and at each jamb. Also add ½" for stop (right side only). DO NOT include stop where closets occur.

For **ROUGH OPENING** between rough bucks add 2½" to finish opening.


2'-4" MIN.
5-ADJUSTABLE SHELVES
TEACHERS CLOSET
SUPPLY CLOSET
5 DOOR WARDROBE
A
A
1¼"
17'-7" = FINISH OPENING BETWEEN JAMBS
1¼"
7 DOORS @ 2'-6" + 1" FOR CRACKS BETWEEN DOORS = 17'-7"
17'-9½" = ROUGH OPENING BETWEEN THE ROUGH BUCKS



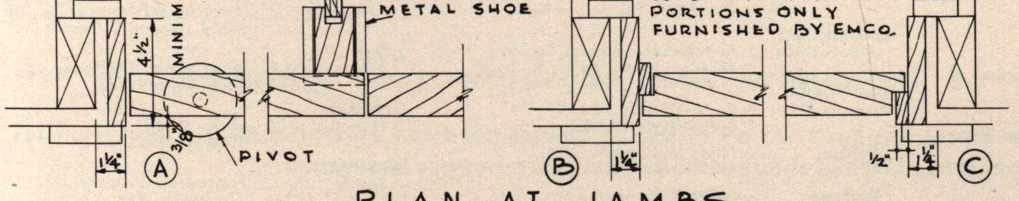
B-208 SHELF B-108 SHELF
SCALE ¾" 1'-0"


2'-4" MIN.
B
C
1¼"
12'-7¼" = FINISH OPENING BETWEEN JAMBS
1¼"
5 DOORS @ 2'-6" + ¾" FOR CRACKS BETWEEN DOORS + ½" FOR STOP = 12'-7¼"

PLAN - WARDROBE ONLY

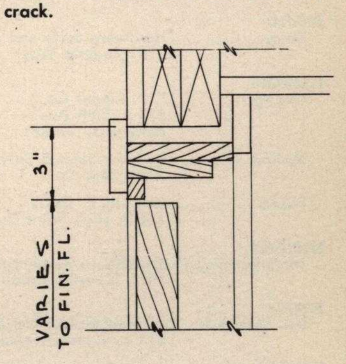
SCALE ⅜" = 1'-0"

NOTE: Door size may vary from 24" to 36" to fit any size recess. Number of doors used per set may also vary. Add or subtract doors at center, adding or subtracting door width plus or minus ⅛" for crack.


MINIMUM
4½"
⅜"
1¼"
A
PIVOT
¾" PLYWOOD
METAL SHOE
NOTE: CROSSHATCHED PORTIONS ONLY FURNISHED BY EMCO.
B
1¼"
½"
1¼"
C

PLAN AT JAMBS

SCALE 1½" 1'-0"


3"
VARIES TO FIN. FL.

HEAD SECTION

FOR SPECIFICATIONS SEE BACK COVER

SPECIFICATIONS

RECEDER—MODEL 400 (Individual Operation)

MODEL 100 (Multiple Operation)

The classroom wardrobes where indicated in the plans shall be EMCO Spacemaster Model 400 individually operated, (Design details page 5) or Model 100 multiple operated, (Design details page 6), (architect to designate model desired) with doors latching in both the opened and closed position as manufactured by the Equipment Manufacturing Company, Inc., Kansas City, Missouri; the doors to open in opposite directions and mounted on rigid offset pivots extending from the floor to the top of the wardrobe. Hardware to incorporate both lateral and vertical adjustments for door alignment. Doors must not be hinged together; each door to operate on its own hardware.

Doors shall be . . . (specify veneer, slate, cork, etc., by referring to General Information and Optional Equipment opposite column) and furnished by wardrobe manufacturer. The wardrobe jambs, shelves, and coat hooks to be furnished and installed by the wardrobe manufacturer. The finished recess, rough bucks, grounds, vent grills, finish trim and painting to be furnished and installed by others.

Teacher Closet, Supply Closet, and/or Book Case to be a part of the wardrobe contract, and this manufacturer to supply doors, hardware, dividing partitions, shelving, hanger rod, and umbrella racks. Doors to be hung with pivot hinges and to be in continuous line with wardrobe doors with no mullions or casings dividing.

Installation to be by manufacturer or his authorized agents and to have written guarantee for period of one year.

PIVOT—MODEL 200 (Multiple Operation)

The classroom wardrobes, where indicated on the plans, shall be EMCO pivot type Model 200 as manufactured by the Equipment Manufacturing Company, Inc., Kansas City, Missouri. The doors to operate in multiple and be equipped with a latching device that will hold them securely in either open or closed position.

Doors shall be . . . (specify kind of door and optional equipment, slate, cork, etc., by referring to General Information and Optional Equipment Schedule, see below) and furnished by wardrobe manufacturer. The wardrobe jambs, and single shelf (or double shelf) including coat hooks are to be furnished and installed by the wardrobe manufacturer. The finished recesses, rough bucks, grounds, vent grilles, finish trim and painting to be furnished and installed by others.

Installation to be by manufacturer or his authorized agents and to have written guarantee for period of one year.

GENERAL INFORMATION AND OPTIONAL EQUIPMENT

DOOR CONSTRUCTION—1⅜″ or 1¾″ flush type in any veneer desired. Doors manufactured by one of the largest mills, and carry standard guarantee. Solid core suggested, but grid core construction available if desired.

CHALKBOARDS—(Optional all models.) Doors to be equipped with composition board in color desired, or natural slate. Slate mounted on coil springs. Chalk troughs included. (Specify wood or aluminum.)

TACKBOARDS—(Optional all models.) Genuine cork to be applied to upper portion of doors and molded with either aluminum mold or wood mold matching the doors. ¼″ cork only. State color desired.

UMBRELLA RACKS—(Optional all models.) Umbrella racks and cast metal drip pan in each two-door section. Rack can fold against wall or door when not in use. State if wanted on door or in rear of recess. (Standard equipment in teacher's closet.)

TEACHER'S CLOSETS—(Optional all models.) Doors and wood divisions to be furnished and installed by wardrobe manufacturer, including hardware, keyed lock, shelf arrangement, hanger rod and umbrella rack.

BOOK CASES AND/OR SUPPLY CASES—(Optional all models.) Doors and dividing partitions to be furnished and installed by wardrobe manufacturer, including hardware, keyed lock and five adjustable shelves.

KEY LOCKS—(Optional for wardrobe models 100-200 and closets on all models.) All wardrobes may use keyed lock, with master key furnished for wardrobes, teacher's closet, supply closet and book case.

SINCE
EMCO
1932

EQUIPMENT MANUFACTURING CO., INC.
1400 Spruce Street, Kansas City 27, Missouri, Telephone HU. 3-9200

AGENTS

IN CANADA—Boileau-Fergusson, Ltd., 381a College Street, Toronto, Canada
LaLiberte & Wilcox, Inc., 5890 Monkland Avenue, Montreal, Canada

ALABAMA
Mobile..................Shearer and Rayford
157½ St. Louis Street

ARIZONA
Phoenix..................PBSW Supply & Equip. Co.
530 W. Washington

ARKANSAS
Little Rock..................Arkansas Builders Supply Company
1118 W. Markham

CALIFORNIA
Alhambra..................O. P. Grani
P. O. Box 121

COLORADO
Denver..................Paul R. Spencer Co., Inc.
4201 Brighton Boulevard

FLORIDA
Tampa..................T. E. Jacobson
P. O. Box 8006

GEORGIA
Atlanta..................John F. Revell
3996 Chamblee-Dunwoody Rd.
Chamblee, Georgia

IDAHO
Boise..................Hardware Sales and Service
1901 Federal Way

ILLINOIS
Chicago..................I. P. Rieger Co.
537 S. 25th Ave.
Bellwood, Illinois

Moline..................Builders Sales & Service Co.
202—34th St.

Peoria..................Howard E. Davis
449 E. High Point Drive

INDIANA
Indianapolis..................Stackhouse Building Specialties
1314 W. Washington

IOWA
Des Moines..................Allied Construction Services, Inc.
412 E. Grand Avenue

KANSAS
Topeka..................Home Office
1400 Spruce—K. C., Mo.

Wichita..................Chester L. Anderson Co., Inc.
700 So. Emporia

KENTUCKY
Louisville..................H. K. Grinstead
633 So. Fifth St.

LOUISIANA..................W. C. Hixson Co. of Louisiana, Inc.
205 No. Austin
Dallas, Texas

MASSACHUSETTS
Boston..................Lambert-Sawyer Co.
Little Building

MICHIGAN
Detroit..................John L. Mitchell Co.
120 Madison Avenue

MINNESOTA
St. Paul..................Haldeman-Homme, Inc.
2580 University Ave.

MISSOURI
Kansas City..................Home Office
1400 Spruce

St. Louis..................Golterman & Sabo, Inc.
5027 Columbia Ave.

MONTANA
Billings..................Stroup Hardware Co., Inc.
2816-20 Minnesota Ave.

NEBRASKA
Omaha..................Earl S. Lewis & Company, Inc.
708 W. O. W. Building

NEW ENGLAND
States..................Lambert-Sawyer Co.
Little Building—Boston

NEW JERSEY
Upper State..................Valco Sales, Inc.
370—7th Avenue
New York City, N. Y.

Lower State..................A. M. Masters & Sons, Inc.
P. O. Box 155
Pen Argyl, Pa.

NEW MEXICO
Albuquerque..................Architectural Products Co., Inc.
2224 San Mateo, N. E.

NEW YORK
Albany..................A. M. O'Reilly
8 Woodlawn Avenue

Buffalo..................James M. Hawkins Corp.
448 Franklin

Rochester..................James M. Hawkins Corp.
116 Humboldt Avenue

New York City....Valco Sales, Inc.
370—7th Ave.

Syracuse..................Frank Page, Distributor
13 Glyndon Avenue
Cortland, New York

NORTH CAROLINA
Greensboro..................Beaman's, Inc.
1060 Battleground Ave.

OHIO
Cincinnati..................Fred M. Cole
1726 Young St.

Cleveland..................The Fielding Wales Co.
1836 Euclid

Columbus..................Fred M. Cole
545 North High Street

Toledo..................Adam Loos Co.
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OKLAHOMA
Oklahoma City.....Scovil & Sublett
20 N. E. 27th St.

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Portland..................Mercer Steel Co., Inc.
2555 N. W. Nicolai

PENNSYLVANIA
Philadelphia..................A. M. Masters & Sons, Inc.
4 North 11th Street

Pittsburgh..................Building Specialties Co.
Century Building

SOUTH DAKOTA
Sioux Falls..................Builders Supply Co.
113 No. Main Avenue

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Nashville..................Vernon S. Tupper Co.
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Dallas..................W. C. Hixson Co.
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El Paso..................Architectural Products Co., Inc.
506 E. Yandell Boulevard

UTAH
Salt Lake City......ZCMI School Equipment
1665 Bennett Road

VIRGINIA
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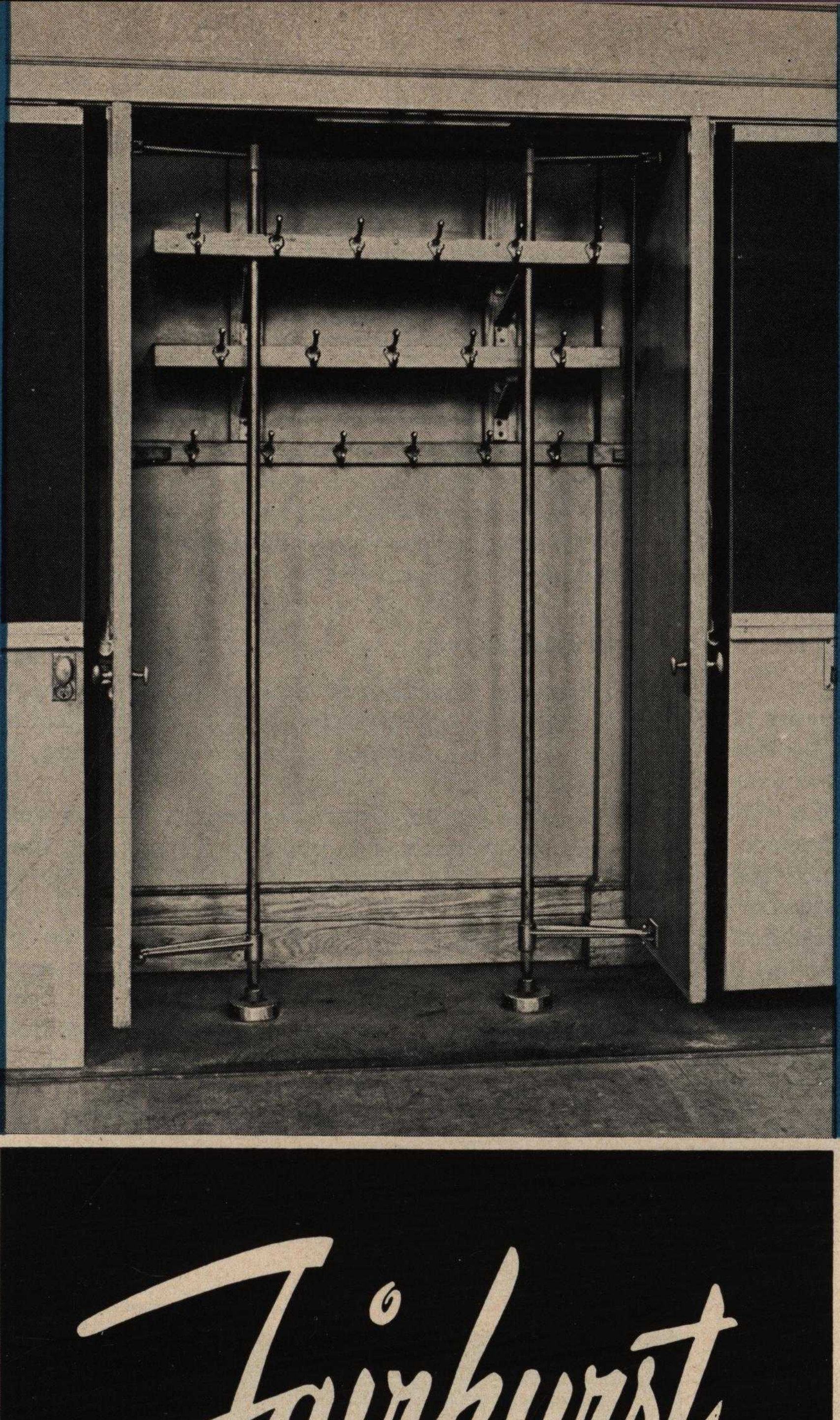
1074 W. 38th St.

WASHINGTON
Seattle..................Foster-Bray Company, Inc.
174 Denny Way

WEST VIRGINIA
Charleston..................B. Preiser Co., Inc.
P. O. Box 6118

WISCONSIN
Milwaukee..................Milwaukee Equipment Co.
4221 N. 35th Street.

Printed in U.S.A.



single or
dual operating

flush construction

no obstructions

pivotal doors

Fairhurst

TRADEMARK

school wardrobes

the disappearing door wardrobe was originated by John T. Fairhurst

Fairhurst type F.A.W. hardware has been proved by test to be the strongest wardrobe hardware made. Each arm will support a live load of 400 pounds without springing

JOHN T. FAIRHURST CO., INC.

Fairhurst school wardrobes

The Fairhurst (patented) school wardrobe is an efficient, practical unit specifically designed to occupy less space and at the same time to provide more storage than any other type of wardrobe. Each four-foot unit accommodates 15 pupils.

types

All Fairhurst wardrobe units are made in two types: the dual and the single. In the dual type, most popular with school authorities, the doors of each section are interconnected so that the opening and closing of the right-hand door automatically operates the left-hand door simultaneously. In the single type, the doors operate individually.

construction

Each unit is 2' 0" deep, the width varying to meet specific requirements. In open position, the doors are completely out of the way at the ends of each compartment. The doors pivot by means of a shaft connecting the ceiling and floor of the wardrobe to which are connected two pivot arms which carry the door. Due to the design of this unit, no floor guides or tracks are necessary to steady the door. When hardware is installed, it is seldom necessary to adjust it. Adjustments can be made, however, in case of settling floors or other construction difficulties, without removing the doors.

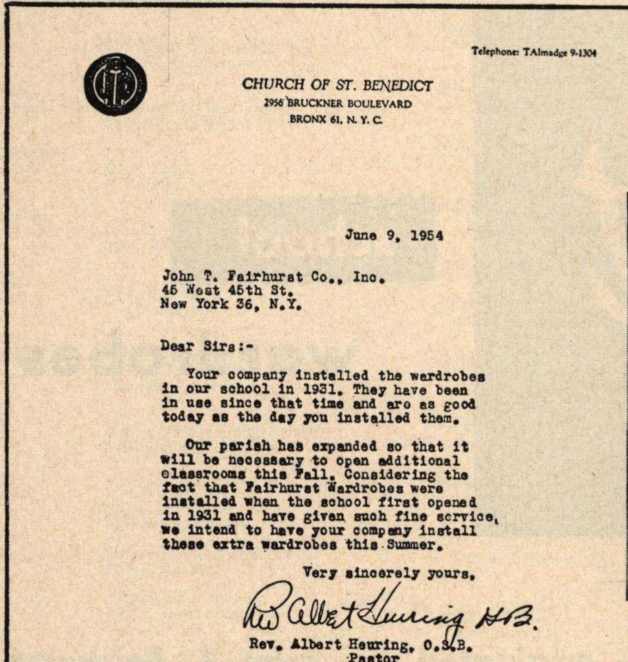
No pilasters or divisions are necessary between sections. The doors may present an appearance of panels or a continuous blackboard may be installed on the face of the doors, with chalk rails. When blackboards are installed on the face of the doors, a latch is provided to keep them rigid and steady when closed.

advantages

The upright from floor to ceiling is behind the upper hook rail and slightly in front of the lower, so that no obstruction is presented in entering or leaving the wardrobe.

A 3-section Fairhurst wardrobe permits the accommodation of garments of 45 pupils in a space 2' 0" deep and 12' 0" wide, materially reducing the cubage of the building.

Regardless of the type installed, dual or single, the doors never extend more than 8" into the aisle space when opening or closing. The open doors do not project more than 1½" beyond the face of the wardrobe if standard recess dimensions are conformed to.



Telephone: TAlmadge 9-1304

CHURCH OF ST. BENEDICT
2956 BRUCKNER BOULEVARD
BRONX 61, N. Y. C.

June 9, 1954

John T. Fairhurst Co., Inc.
45 West 45th St.
New York 36, N.Y.

Dear Sirs:-

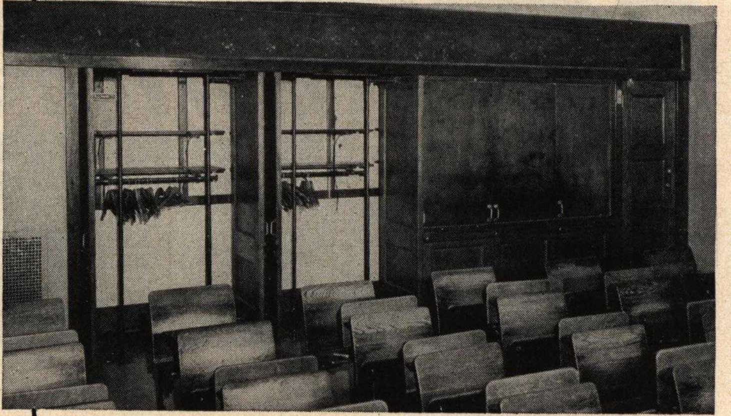
Your company installed the wardrobes in our school in 1931. They have been in use since that time and are as good today as the day you installed them.

Our parish has expanded so that it will be necessary to open additional classrooms this Fall. Considering the fact that Fairhurst Wardrobes were installed when the school first opened in 1931 and have given such fine service, we intend to have your company install these extra wardrobes this Summer.

Very sincerely yours,

Rev Albert Heuring O.S.B.

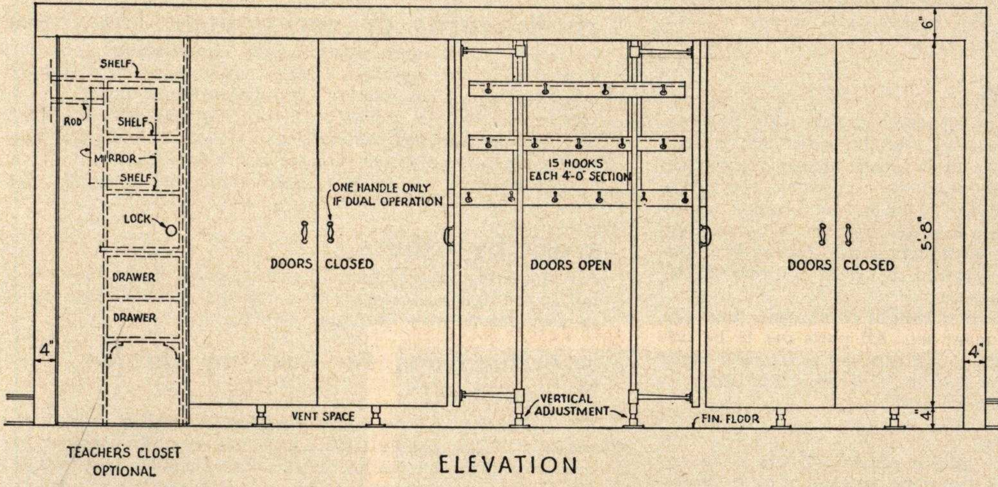
Rev. Albert Heuring, O.S.B.
Pastor



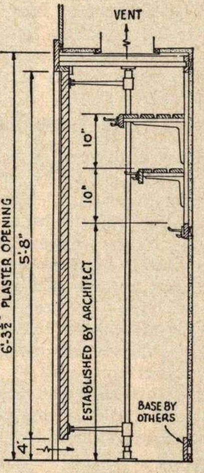
26 years of constant service

Fairhurst Wardrobe installed in 1931 at St. Benedict's School, Bronx, N. Y. There are 24 Fairhurst Wardrobes in this school.
Gustave Steinback, architect.

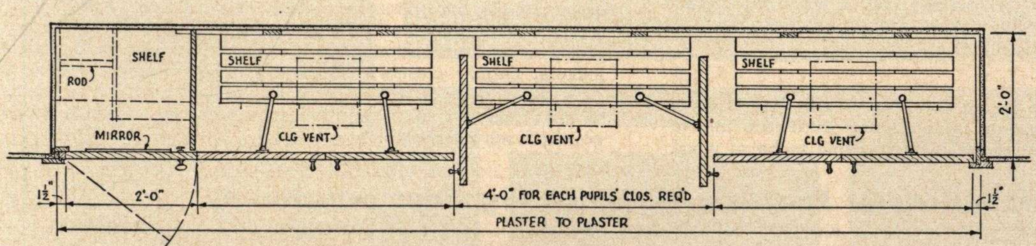
STANDARD DETAILS
FAIRHURST DISAPPEARING DOOR WARDROBE


SHELF
ROD
SHELF
MIRROR
SHELF
LOCK
DRAWER
DRAWER
4"
ONE HANDLE ONLY IF DUAL OPERATION
DOORS CLOSED
15 HOOKS EACH 4'-0" SECTION
DOORS OPEN
DOORS CLOSED
6"
5'-8"
4"
4"
VENT SPACE
VERTICAL ADJUSTMENT
FIN. FLOOR
TEACHER'S CLOSET OPTIONAL

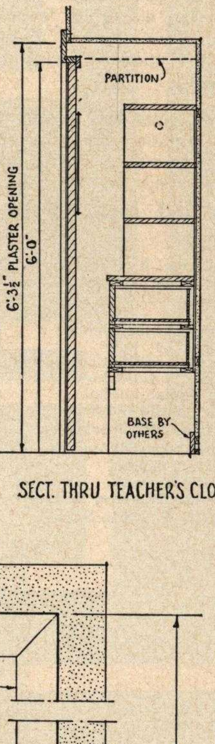
ELEVATION


VENT
10"
10"
6'-3½" PLASTER OPENING
5'-8"
ESTABLISHED BY ARCHITECT
BASE BY OTHERS
4"

SECT. THRU PUPILS' CLOSET


SHELF
ROD
SHELF
SHELF
SHELF
MIRROR
CLG VENT
CLG VENT
CLG VENT
2'-0"
1½"
2'-0"
4'-0" FOR EACH PUPILS' CLOS. REQ'D
1½"
PLASTER TO PLASTER

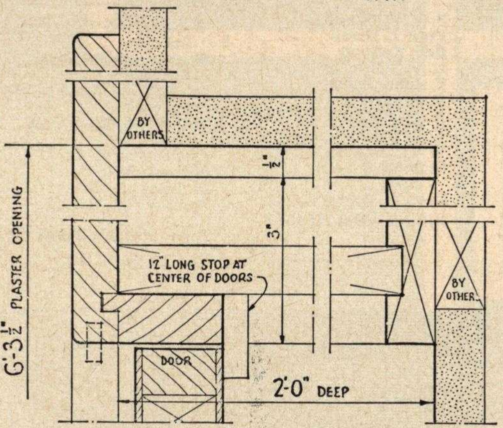
PLAN


PARTITION
6'-3½" PLASTER OPENING
6'-0"
BASE BY OTHERS

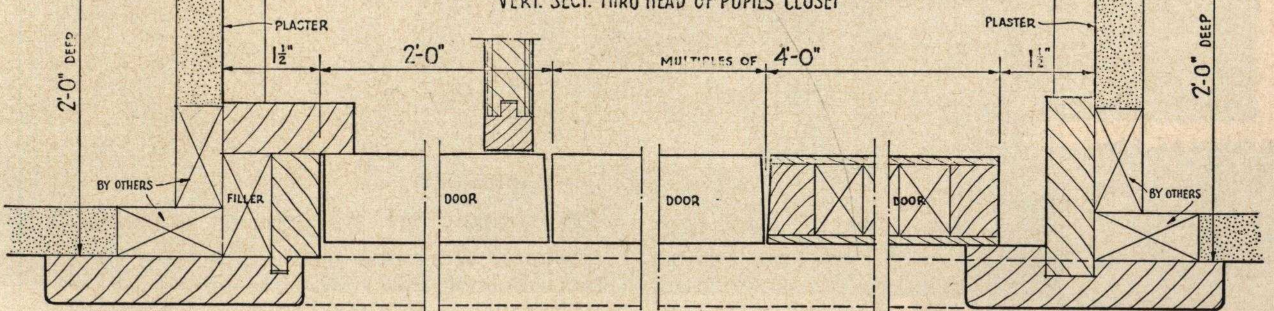
SECT. THRU TEACHER'S CLOSET

SCALE FOR ELEVATION, PLAN & SECTIONS

SCALE FOR DETAILS


BY OTHERS
½"
3"
6'-3½" PLASTER OPENING
12" LONG STOP AT CENTER OF DOORS
BY OTHER
DOOR
2'-0" DEEP

VERT. SECT. THRU HEAD OF PUPILS' CLOSET


2'-0" DEEP
PLASTER
1½"
2'-0"
MULTIPLES OF 4'-0"
1½"
PLASTER
2'-0" DEEP
BY OTHERS
FILLER
DOOR
DOOR
DOOR
BY OTHERS

PLAN SECTION THRU TEACHER'S CLOSET JAMB
SUBSTITUTE PUPILS' CLOSET JAMB IF TEACHER'S CLOSET IS OMITTED

PLAN SECTION THRU PUPILS CLOSET JAMB

Fairhurst
TRADEMARK

school wardrobes . . . specifications

type

Wardrobes are to be type F.A.W. as manufactured by John T. Fairhurst Company, Inc., New York 36, New York. All wardrobes to be installed by the manufacturer and fully guaranteed as to material and operation. This contractor is hereby notified that this construction is specified to set a standard quality for this item.

operating hardware

Operating hardware to consist of a vertical hollow tube, pivoting on a cone bearing on upright steel stud threaded into a cast iron adjustable shoe. The stud is to fit into a bronze bushing inside of the upright tube. Cold rolled steel channels are to be provided at the top to guide doors to the proper position inside of wardrobe. Malleable cast iron lateral arms are to be secured at top and bottom of a vertical shaft attached to bronze brackets with ¼" pins. Brackets to be screwed to inside of doors allowing the arms to pivot to proper position.

Operating hardware must support a weight of not less than 400 lbs. without springing or permanent set. All parts are to be adjustable vertically and horizontally. All exposed or finished hardware is to be standard polished bronze. Operating hardware to be standard black enamel finish.

doors

Doors to be 1⅜" or 1¾" thick (specify veneer). Doors to be veneered on built-up cores with best quality waterproof glue. Doors must not project more than 1½" from the face of the wardrobe when the wardrobe is open, if recesses are of standard dimensions. Each door is to operate independently, and to latch in both the open and closed positions.

jambs

Wood jambs and casings to be as detailed. Wardrobes to have head frames with cross supports for operating hardware and to be continuous around plaster backs and ends and to be of wood as specified and detailed.

interiors

Interior equipment of wardrobe shall include standard hat and coat rack, coathooks with single prong hooks and hook strips.

dual operation (optional)

Wardrobes are to be equipped with mechanism for dual operation if specified.

chalkboards or corkboards (optional)

Doors for pupils' units shall include chalkboards or corkboards with framing as specified. Doors equipped with chalkboard to have spring latches assuring a rigid writing surface.

Teachers closets to consist of interior cabinets with two drawers, two shelves between divisions and one hat shelf extending full width of closet; also one hanger rod indicated.

Supply closets to have six adjustable shelves faced with type of wood as specified.

work by others

All plastering, rough bucks, headers, grounds, baseboards, flooring inside the recess shall be furnished and installed by others in accordance with Fairhurst details.

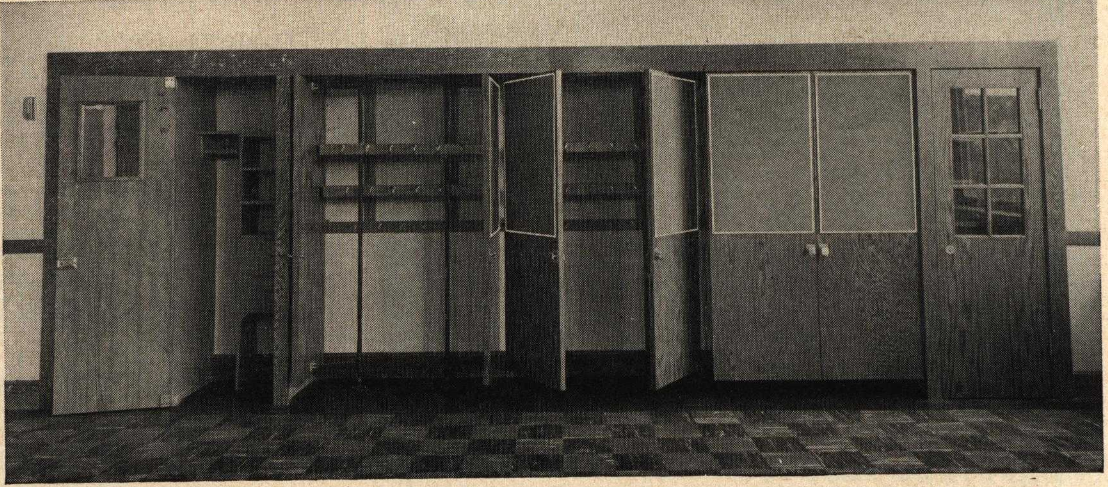
specifications for locking device if required

All wardrobes to have a gang lock set in such manner that each series of doors can be locked with one key. The master locking hardware to be on the left hand door or next to teacher's locker. This lock must operate in such a manner that if master door is locked when any door is left open, the door or doors will lock automatically into place by closing said door or doors. Teacher's locker doors and other cabinet doors to operate on offset bronze pivots at top and bottom. Provide pin cylinder locks for teacher's lockers, supply closets and book cabinets; three keys to each lock. Each door of wardrobe to be equipped with a spring latch to hold doors in rigid position when closed. Handles to be of polished solid bronze.

Details for type F.C.W. sent on request.

partial list of installations of Fairhurst disappearing door wardrobes

building	location	architect
Mt. Carmel R.C. School	Springfield, Mass.	Anthony J. DePace
Consolidated School	Southbury, Conn.	Brown & Von Beren
Northside School	East Williston, L.I., N.Y.	F. P. Wiedersum
Samuel Staples School	Easton, Conn.	Fred J. Dixon
P. S. No. 64	New York, N. Y.	Eric Kebbon
Robert Morris School	Elizabeth, N. J.	L. V. Pohlman
St. Anne's School	Warren Pt., N. J.	T. John Folks
North Parish School	Greenfield, Mass.	V. A. Frid
Cedar Knolls School	Morris Co., N. J.	A. N. Starin
Center School Addition	Litchfield, Conn.	E. F. Sibley
St. Elizabeth School	Bronx, N. Y.	W. J. Boegel
St. John's School	Beacon, N. Y.	Starrett & Van Vleck
Riverside-Harrison School	Cincinnati, Ohio	Hunt & Allan
Marshfield Grade School	Marshfield, Conn.	Kilham, Hopkins & Greeley
Our Lady of Sorrows School	South Orange, N. J.	Fanning & Shaw
South Huntington School	South Huntington, L.I., N.Y.	Wm. I. LaFon II
Wickshire & Searington Schools	No. Hempstead, L.I., N.Y.	L. E. Jallade
Hockanum Elementary School	Hartford, Conn.	Whaples & Brewer
St. Andrew the Apostle School	Clifton, N. J.	Neil J. Convery
Mill Rd. & Greenvale Schools	Eastchester, N. Y.	Eggers & Higgins
Capuchino H. S. #3	San Bruno, Calif.	Masten & Hurd
Milburn School	Baldwin, L.I., N.Y.	E. A. Schmidlin
St. Joseph's School	Roselle, N. J.	Robert J. Reiley
Sacandaga School	Scotia, N. Y.	Sargent, Webster, Cranshaw & Foley
American Air Filter Co.	Louisville, Ky.	The Austin Co.



Mt. Carmel R.C. School
Bronx, N. Y.
A. J. DePace, Architect

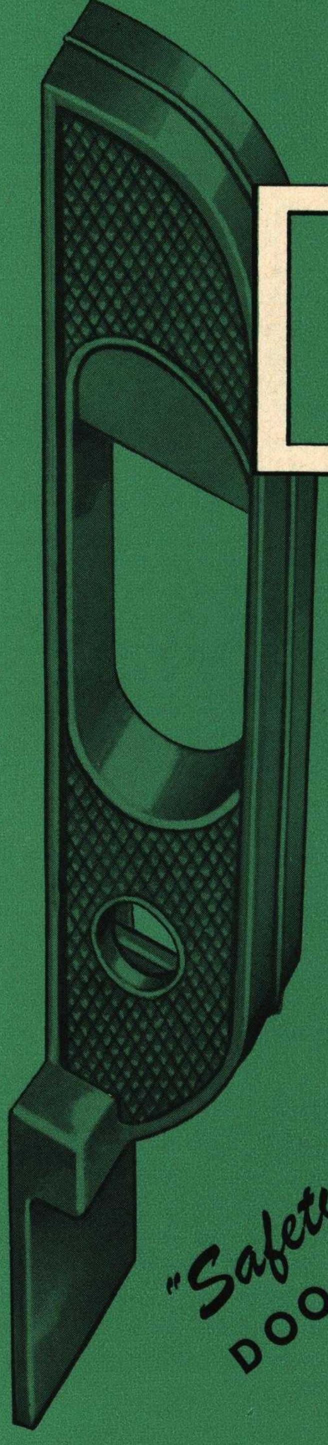
John T. Fairhurst Company, Inc.

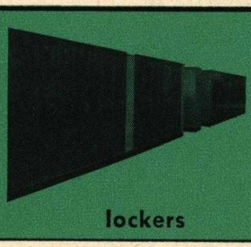
45 W. 45 Street
New York 36, N.Y.

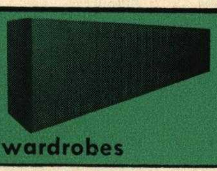
Telephone: COlumbus 5-8595

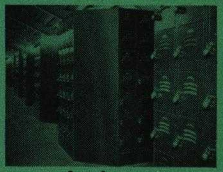
23d
In

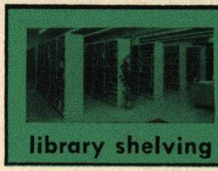
INTERIOR STEEL EQUIPMENT

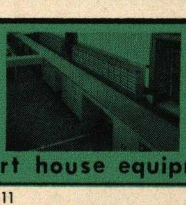

"Safety Guard"
DOOR HANDLE


lockers
Page 2


wardrobes
Page 6 & 8


gym lockers
Page 4


library shelving
Page 10


court house equipment
Page 11

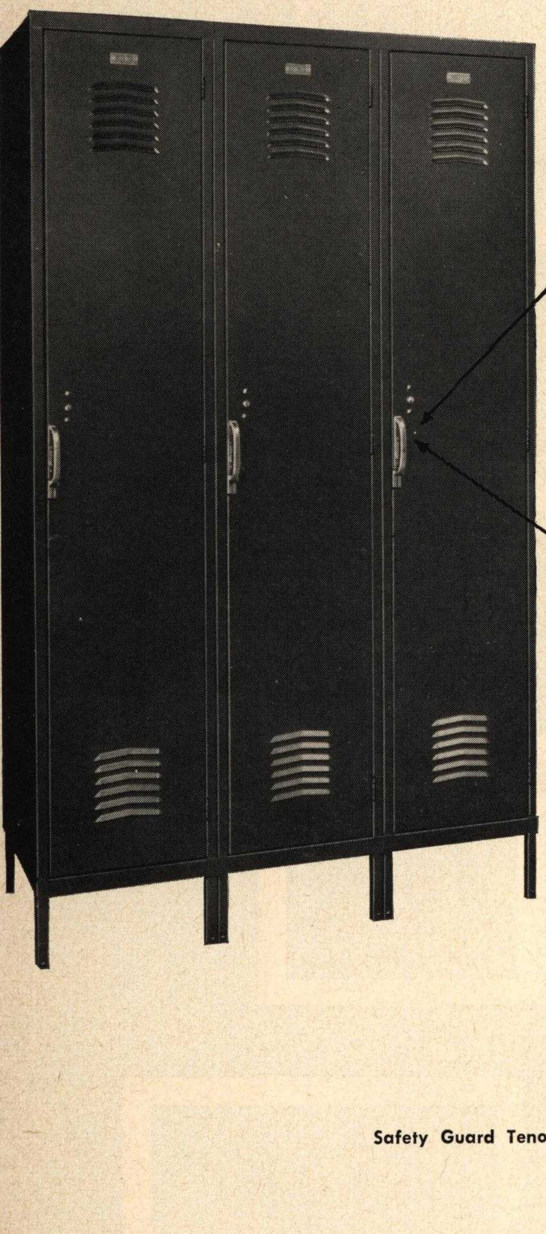
miscellaneous
Page 12

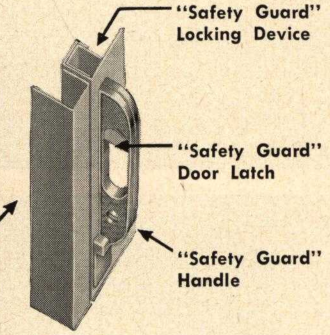
**The Interior
Steel Equipment Company**

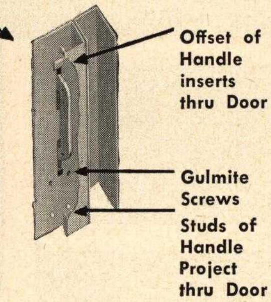
lockers

WITH EXCLUSIVE FEATURES THAT PROTECT!

Interior Steel lockers lead in value of structural and operating requirements. Designed and built to withstand hard and rough usage, and to give long, continuous satisfaction. A comparison of all lockers will convince you of the outstanding points of superiority found only in Interior Steel lockers. The list of consumers of Interior Steel lockers includes the most prominent educational and industrial institutions. Our engineering and estimating facilities are offered to architects and school boards for information and assistance in preparing plans, layouts, and specifications on installations of locker equipment.






Offset of Handle inserts thru Door
Gulmite Screws
Studs of Handle Project thru Door

"Safety Guard" handles

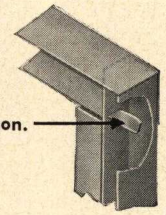
The "Safety Guard," door handle is used exclusively on Interior Steel lockers. This stationary handle has 5 points of contact with a 16 gauge door, giving maximum protection from kicking, hammering and other abusive damage. The "Safety Guard," door handle as illustrated, is offset and inserts through the door for rigid fastening with gulmite screws and reinforcing studs. The handle with integral padlock attachment completely encloses and protects the operating door latch. The locking device is entirely enclosed in a steel box formation of the door to prevent lock tampering and add structural strength.

body construction

The body of Interior Steel lockers are 24 gauge with flush ends and bottoms. Tops and bottoms are flanged all four sides with fronts formed to fit snug inside of the frame cross channels and are bolted to the center of channel giving double strength. Backs and ends are flanged on both sides to give double thickness of metal at corners. Hat shelf is flanged on all sides with channel formation at front and is full depth. Clothes hooks are cadmium plated with ball points and are attached with two bolts. Rear legs of lockers are adjustable with front legs having adjustable feet.

doors

Interior Steel locker doors are 16 gauge steel flanged at top and bottom with channel formation at hinge side. The locking side of the door is formed into a box formation. This feature adds maximum strength to the front flange of the door and encloses the locking device. Doors are constructed so that they are flexible and may be sprung and distorted without taking any permanent set. Doors and frames are factory assembled.



door frames

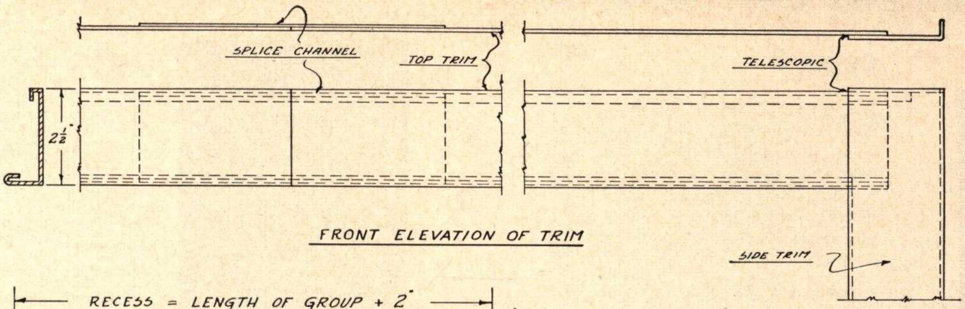
Door frame members are formed into channel shapes from 16 gauge full pickled steel. Corners are tenoned and electrically welded, making a solid and rigid one piece structure, free from weave and twist and preventing doors from binding, regardless of the position of the locker. Sides of the frames are bolted to locker body on 9" centers, and at the center of tops and bottoms. This added feature of strength provides a solid and rigid construction. No exposed bolt or rivet heads on front of frame or locker.

hinges

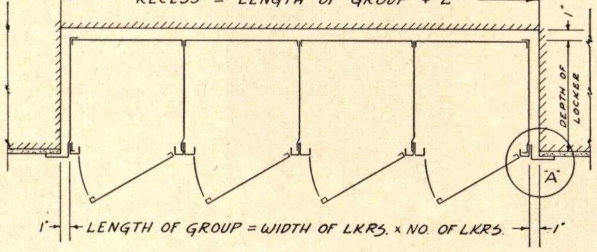
Interior Steel lockers have semi-concealed five knuckle tight pin hinges, positively eliminating sagging doors. Proof of this statement is the fact that this type hinge has been standard in all building hardware for years. Hinges are mortised into door frame and welded. Hinges are bolted into the inside channel formation of doors with two bolts.

Interior's "SEALTEX" Phosphate Coating

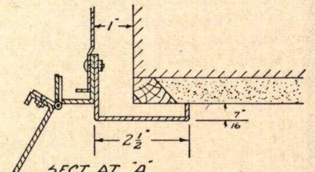
Pre-paint conditioning is Interior Steel's key to everlasting beautiful finishes. A carefully controlled undercoating of insoluble metallic phosphates prior to the applied baked on enamel finish, on Interior's complete line of equipment; stops rust and corrosion —improves paint bond; resists cracking and chipping —keeps new look longer.


SPLICE CHANNEL
TOP TRIM
TELESCOPIC
2½"
SIDE TRIM

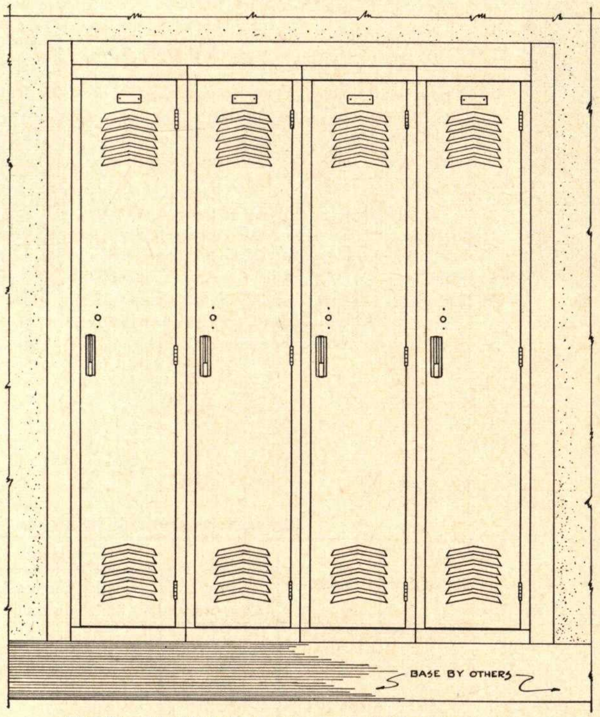
FRONT ELEVATION OF TRIM


RECESS = LENGTH OF GROUP + 2"
1"
DEPTH OF LOCKER
"A"
1" LENGTH OF GROUP = WIDTH OF LKRS. x NO. OF LKRS. 1"

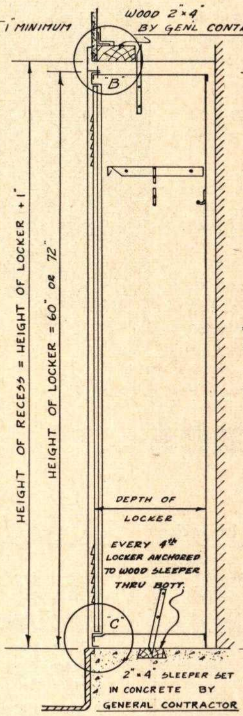
SECTION THRU RECESS



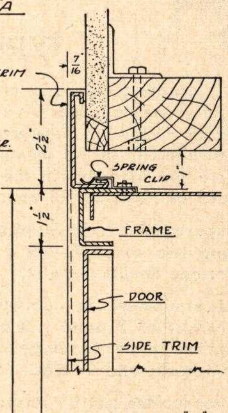
SECT. AT "A"


BASE BY OTHERS

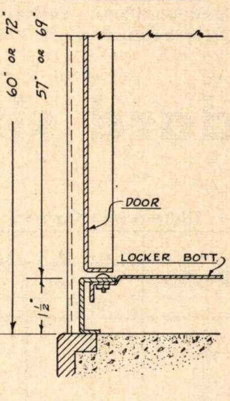
FRONT ELEVATION OF 4-12×12×60 RECESS LOCKERS


1" MINIMUM
WOOD 2"×4" BY GENL CONTR.
"B"
HEIGHT OF RECESS = HEIGHT OF LOCKER +1"
HEIGHT OF LOCKER = 60" OR 72"
DEPTH OF LOCKER
EVERY 4th LOCKER ANCHORED TO WOOD SLEEPER THRU BOTT.
"C"
2"×4" SLEEPER SET IN CONCRETE BY GENERAL CONTRACTOR

VERT. SECTION

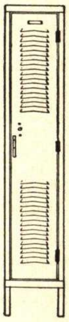

TOP TRIM
7/16"
2½"
SPRING CLIP
1"
1½"
FRAME
DOOR
SIDE TRIM

SECTION AT "B"


60" OR 72"
57" OR 69"
DOOR
LOCKER BOTT.
1½"

SECT. AT "C"

optional ventilation



STANDARD LOUVER "S" DOOR

60"—6 Louvers at top and bottom

72"—6 Louvers at top and bottom

FULL LOUVER "S" DOOR

60"—18 Louvers at top and bottom

72"—24 Louvers at top and bottom

STANDARD LOUVERS "D" DOOR

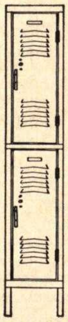
30"—3 Louvers at top and bottom

36" & 42"—6 Louvers at top and bottom

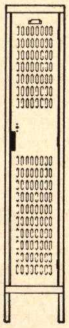
FULL LOUVERS "D" DOOR

30"—6 Louvers at top and bottom

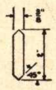
36" & 42"—6 Louvers at top and 12 at bottom



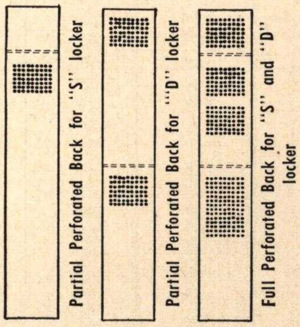
standard louvre



air flow



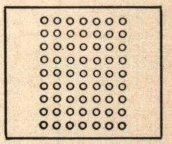
Detail of Diamond End Air Flow Slots.



Partial Perforated Back for "S" locker

Partial Perforated Back for "D" locker

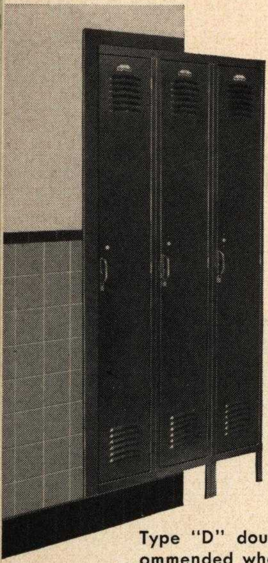
Full Perforated Back for "S" and "D" locker



Top—Bottom or Shelf Perforation, each group of perforations consist of 63 holes 7/16" in diameter on 1" centers

standard body part perforations

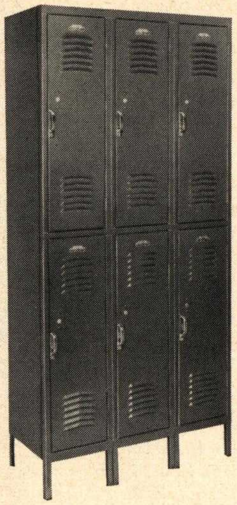
types and sizes



type S

The Type "S" single tier locker is the most popular style for every requirement, providing ample individual full length storage. Standard equipment for single tier lockers consist of 3 point locking device, number plate, padlock attachment, hat shelf, coat hooks and 6" legs.

Lockers may be obtained with closed bases and sloping tops, or recessed in walls with finishing strips. Various types of locks may be applied.



type D

Type "D" double tier lockers are recommended where floor space is limited and a large number of people are to be accommodated. In this manner two people are provided for, in the same floor space as required for one.

Each compartment is considered as one locker and two compartments are required for one double tier unit.

Standard equipment for double tier lockers consist of 2 point locking device, number plate, padlock attachment, coat hooks and 6" legs.

Double tier lockers can be recessed or supplied with closed base, slope top shelves and partitions. Various types of locks may be used.

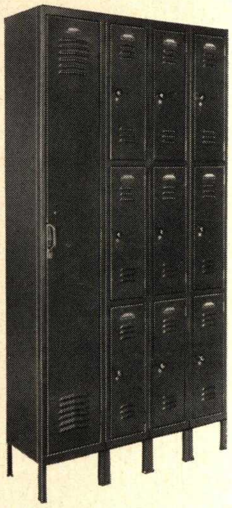
type B

Type "B" box lockers are particularly desirable for the storage of books, small articles, gym suits, bowling balls, shoes, etc., in classrooms, gymnasiums, and bowling alleys.

Each compartment is considered as one locker and 3, 4, 5 or 6, compartments are required for one box locker unit.

Standard equipment consists of one point locking device, number plates, and padlock attachment.

Box lockers can be recessed or supplied with closed bases, slope tops, and various types of locks.



type G

Type "G" gymnasium lockers are arranged by grouping a single tier locker, type "S" with any number of double tier, Type "D", or multiple tier, Type "B" lockers.

This method provides a private compartment for gym suit storage, while the large locker is shared by several persons at different times for street clothes storage, while in the gymnasium. Padlocks are recommended for each gym locker opening.

standard sizes

type S

Dimensions Overall In Inches

Width	Depth	Height		
		Without Legs	With Legs	With Legs & Slope Tops
9"	12"	60"	66"	70"
9"	15"	60"	66"	71"
9"	18"	60"	66"	72"
12"	12"	60"	66"	70"
12"	15"	60"	66"	71"
12"	18"	60"	66"	72"
12"	21"	60"	66"	73"
15"	15"	60"	66"	71"
15"	18"	60"	66"	72"
15"	21"	60"	66"	73"
18"	18"	60"	66"	72"
18"	21"	60"	66"	73"
18"	24"	60"	66"	74"
24"*	18"	60"	66"	72"
24"*	21"	60"	66"	73"
24"*	24"	60"	66"	74"
9"	12"	72"	78"	82"
9"	15"	72"	78"	83"
9"	18"	72"	78"	84"
12"	12"	72"	78"	82"
12"	15"	72"	78"	83"
12"	18"	72"	78"	84"
12"	21"	72"	78"	85"
15"	15"	72"	78"	83"
15"	18"	72"	78"	84"
15"	21"	72"	78"	85"
18"	18"	72"	78"	84"
18"	21"	72"	78"	85"
18"	24"	72"	78"	86"
24"*	18"	72"	78"	84"
24"*	21"	72"	78"	85"
24"*	24"	72"	78"	86"

*Lockers 24" Wide Have Single Doors As Standard

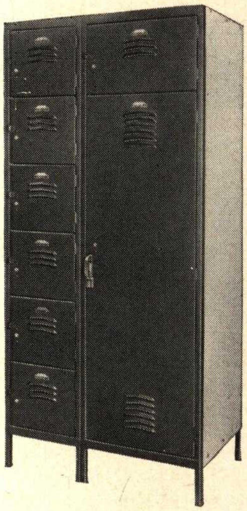
type D

Dimensions Overall In Inches

Width	Depth	Height		
		Per Opening	Height Overall With Legs	With Legs & Slope Tops
9"	12"	30"	66"	70"
9"	15"	30"	66"	71"
9"	18"	30"	66"	72"
12"	12"	30"	66"	70"
12"	15"	30"	66"	71"
12"	18"	30"	66"	72"
9"	12"	36"	78"	82"
9"	15"	36"	78"	83"
9"	18"	36"	78"	84"
12"	12"	36"	78"	82"
12"	15"	36"	78"	83"
12"	18"	36"	78"	84"
15"	15"	36"	78"	83"
15"	18"	36"	78"	84"
12"	12"	42"	90"	94"
12"	15"	42"	90"	95"
12"	18"	42"	90"	96"
15"	15"	42"	90"	95"
15"	18"	42"	90"	96"

type C

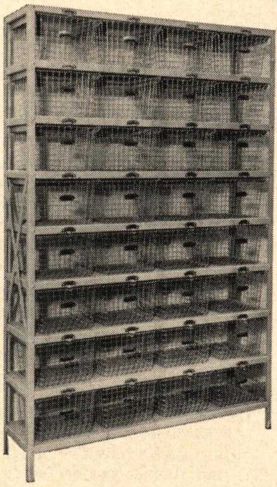
6 Person Lockers	Width	Depth	Height	Overall Size (Height with Legs)
6 Small Compartments	15"	21"	12"	
1 Large Compartment	18"	21"	72"	33" x 21" x 78"
7 Person Lockers				
6 Small Compartments	15"	21"	12"	
1 Small Compartment	21"	21"	12"	36" x 21" x 78"
1 Large Compartment	21"	21"	60"	



type C

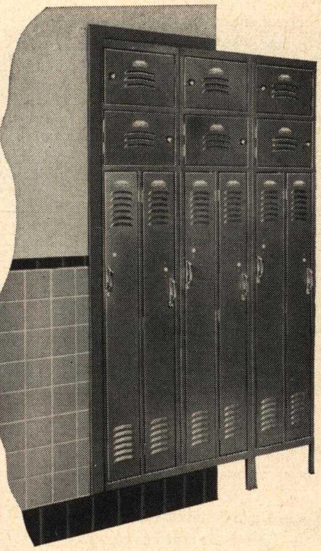
Type "C" combination lockers are designed for group storage. Small private compartments are for hats and small articles. Coats and long wraps are hung in the large compartment, which contains a coat rod.

Lockers are designed for various types of keyed locks with group locking arrangement. The lock of each small compartment is keyed differently, but each key provides access to the coat compartment.



basket racks

Interior Steel Basket Racks are ideally suited for gymnasium or swimming pool. Racks are built of 13 gauge angle uprights, 18 gauge shelves with back flange formed into a basket stop, 20 gauge dividers form individual basket openings. Racks are equipped with sway braces and 6″ legs, with each opening having a number plate and padlock attachment. Closed ends may be added to racks if desired. For complete information request catalog #63.



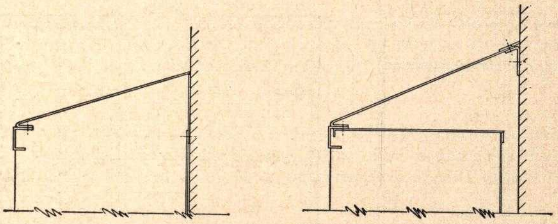
type T

Two Person lockers are used where floor space is at a Premium and individual private lockers are desired.

Lockers consist of two individual small compartments and two coat compartments. Standard equipment consists of padlock attachment and number plate for each compartment. Built in locks may be applied to coat compartment doors. Locking device of coat compartment controls the locking of the hat compartment. No Locks are required for the hat compartment.

INTERIOR STEEL equipment is available in three standard (#28 Gray, #53 Tan, and Olive Green) and five optional (#59 Green, #33 Sea Mist, #34 Gray, #80 Gray and #49 Brown) baked on enamel color finishes.
These beautiful decorator colors will blend in with pratically any color scheme. Color chart sent upon request.

sloping top



Lockers may be furnished with the top sloping toward the front. The degree of slope is sufficient to prevent articles being placed on top of lockers. The height of the slope being ⅓ the depth of the locker.

type B

Dimensions Overall In Inches

Width	Depth	Heights		
		Height per Opening	Height Overall With 6″ Legs	Height Overall w/ 6″ Legs & Slope Top
5 or 6 Tier High				
12″	12″	12″	66″ or 78″	70″ or 82″
12″	15″	12″	66″ or 78″	71″ or 83″
12″	18″	12″	66″ or 78″	72″ or 84″
15″	15″	12″	66″ or 78″	71″ or 83″
15″	18″	12″	66″ or 78″	72″ or 84″
15″	21″	12″	66″ or 78″	73″ or 85″
12″	12″	14⅖″	78″	82″
12″	15″	14⅖″	78″	83″
15″	15″	14⅖″	78″	83″
15″	18″	14⅖″	78″	84″
4 Tier				
12″	12″	15″	66″	70″
12″	15″	15″	66″	71″
12″	18″	15″	66″	72″
15″	15″	15″	66″	71″
15″	18″	15″	66″	72″
3 Tier				
9″	12″	20″	66″	70″
9″	15″	20″	66″	71″
12″	12″	20″	66″	70″
12″	15″	20″	66″	71″
9″	12″	24″	78″	82″
9″	15″	24″	78″	83″
12″	12″	24″	78″	82″
12″	15″	24″	78″	83″

type T

Dimensions Overall In Inches

Width	Depth	Height		
		Without Legs	With Legs	With Legs & Slope Tops
15″*	15″	72″	78″	83″
15″*	18″	72″	78″	84″
15″*	21″	72″	78″	85″

*Hat Compartments are 15″ Wide by 9½″ High.
Coat Compartments are 7½″ Wide by 51″ High.

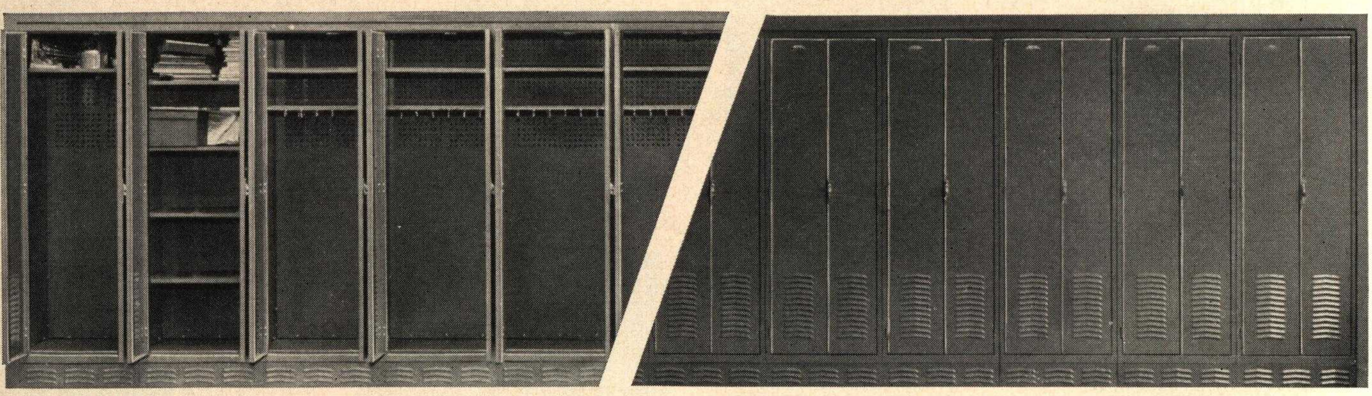
basket racks

Basket Size 9″ W. x 13″ D. x 8″ H.—12″ W. x 13″ D. x 8″ H.

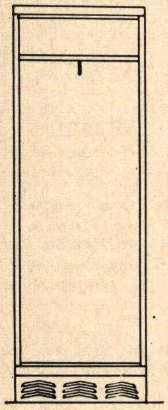
Grouping	Capacity	Width	Height	Width	Height
4 wide x 6 high	24	40″	63″	52″	63″
5 wide x 6 high	30	49½″	63″	64½″	63″
6 wide x 6 high	36	59″	63″		
3 wide x 7 high	21	30½″	72½″	39½″	72½″
4 wide x 7 high	28	40″	72½″	52″	72½″
5 wide x 7 high	35	49½″	72½″	64½″	72½″
6 wide x 7 high	42	59″	72½″		
3 wide x 8 high	24	30½″	82″	39½″	82″
4 wide x 8 high	32	40″	82″	52″	82″
5 wide x 8 high	40	49½″	82″	69½″	82″
6 wide x 8 high	48	59″	82″		

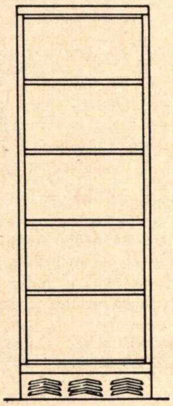
Depth of Racks 13⁵⁄₁₆″

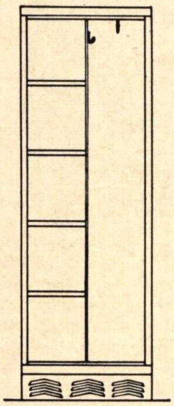
wardrobe lockers see also page 8



wide selection of interior arrangements







A Teacher's Wardrobe. Contains one hat compartment, double prong ceiling hook. Doors equipped with or without built in flat key lock.

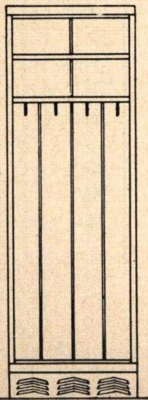
B Bookcase. Contains four shelves adjustable on 2″ centers. Doors equipped with or without built in flat key lock.

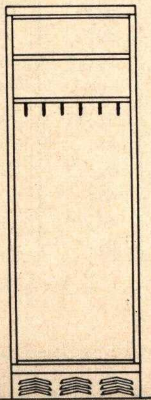
C Combination Bookcase and Wardrobe. May be used as a substitute for types A and B. Contains 4 shelves adjustable on 2″ centers and 1 wall hook and 1 double prong ceiling hook. Doors equipped with or without built in flat key lock.

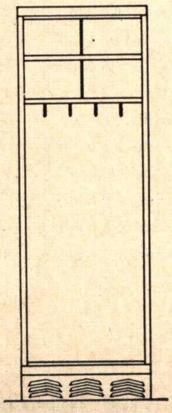
E Wardrobe. Contains 4 individual book and hat compartments and 4 coat compartments with 1 ceiling hook each. Accommodates 4 pupils.

F Wardrobe. Contains 2 full width shelves and 6 ceiling hooks. Accommodates 6 pupils.

G Wardrobe. Contains 4 individual book and hat compartments and 4 ceiling hooks. Accommodates 4 pupils.







Interior Steel Locker Wardrobes are ideal for elementary schools in either corridors or classrooms. Complete supervision of every wardrobe is provided by group lock control.

A group may consist of any desired number of units controlled by a cylinder type lock, in sections usually up to ten units. Types A, B and C have individual locks but may be included in the group control, if desired. By locking the group control, the double doors of each unit which are closed will be locked, and, any doors left open will, upon closing be automatically locked. When the group control is unlocked the doors of any unit may be opened separately. This feature permits independent door operation and reduces theft, from having contents exposed by all doors being open simultaneously.

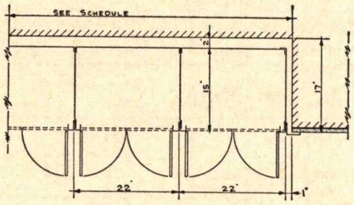
Wardrobe units are 22″ wide, 15″ deep and 61½″ high, above a 4½″ base.

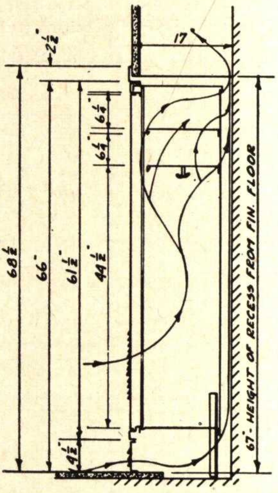
The gauges and construction of wardrobes are similar to lockers with 16 gauge door and frame, 24 gauge body, three point locking device, number plates and equipped as shown in the various types. Doors are louvered at bottom only, with the bases provided with louvers, backs and shelves perforated to admit passage of air current. Wardrobes are available with or without closed base.

Entire group of standard lockers can be locked or unlocked by operating control lever mechanism in masterlocker. This masterlocker can be locked with a built in cylinder type lock.

Group control mechanism can be made inoperative, so that lockers may be locked individually, if desired.

Ideal for corridor, classroom, or locker room installation. Gives teacher absolute control of every locker.





VERT. SECT

	Size of Assembly			Clear Opening of Recess		
No. of Units	Wide	Deep	High	Wide	Deep	High
8	14′8″	15″	66″	14′10″	17″	67″
9	16′6″	15″	66″	16′8″	17″	67″
10	18′4″	15″	66″	18′6″	17″	67″
11	20′2″	15″	66″	20′4″	17″	67″
12	22′0″	15″	66″	22′2″	17″	67″

SUGGESTED LOCKER SPECIFICATIONS

Information Required for Accurate Locker Quotation

1. Total lockers required, based on number of locker openings, regardless of whether single tier, double tier or multiple tier, exceptions are two person and combination lockers.
2. Type of locker and whether with or without legs.
3. Size of locker width, depth and height.
4. Color (See Specs. below).
5. Sequence of Numbering.
6. Number of groups and number of each group.
7. Single or double row groups.
8. Type of locks required.
9. Give floor plan and elevation, if possible.
10. Specify if fillers, recess trim or slope tops are required.

CONSTRUCTION—Built on the unit principle of construction, each having its individual door and frame manufactured in accordance with Federal Specifications AA-L-486 and amendments.

MATERIAL—Material is the best of its respective kind, free from buckle, scale and imperfections. Specially treated to give a high grade enamel finish.

DOOR FRAME—Door frame members are formed into channel shapes from 16 gauge full pickled steel. Corners are tenoned and electrically welded, making a solid and rigid one-piece structure. Frames are punched for attaching to the body on nine inch centers. No exposed bolt or rivet heads on front of frame or locker.

DOOR—Doors are made of 16 gauge patent level, pickled metal furniture steel. Doors are reinforced with angle bend at top and bottom and a channel formation at hinge side. Doors are further reinforced with box formation on locking side. Construction of door prevents springing and closes quietly against rubber cushions. Doors 18" wide and wider have a reinforcing panel.

HINGES—Five knuckle, tight pin hinges having concealed fastenings welded to the door frame and bolted to side flange of door with two bolts. Doors 42" high or less have two hinges and doors over 42" have three hinges.

HANDLE—Operating door latch for locking device is lift type, enclosed in and protected by a stationary handle made of unbreakable alloy, die cast and chromium finish. Handle attached to door with four or more points of contact. Designed to provide, padlock attachment with padlock strike as an integral part of handle.

LOCKING DEVICE—Quiet, positive automatic, by means of a spring actuated locking channel enclosed on four sides, with a box formation on the door engaging with the door jamb opposite hinges. Device is prelocking, permitting self-latching without manipulating door latch. Locking device is tamper-proof, pick-proof and equipped with rubber silencers. Rubber cushions are riveted to lock bar catches on door frame. Single tier lockers have a three joint contact and double tier lockers have a two point contact. Triple tier and multiple tier have one point contact.

LOCKS—All lockers may be furnished with built-in flat key locks, with two keys per lock (grooved key or combination locks can be furnished if desired). Padlocks may be specified.

BODY—Body of locker including tops, bottoms, backs, ends and shelves are made of 24 gauge steel. Sides are flanged to give double thickness of metal at connections. Tops, bottoms and shelves are flanged all four sides with channel formations at front of shelves. Shelves are full depth and bottoms are flush with the frame.

VENTILATION—Single tier, 36" and 42" double tier lockers have six louvers at top and bottom of door. Double tier lockers, 30" and triple tier lockers have three louvers at top and bottom. Lockers less than 20" high have three louvers per door.

LEGS—Front legs are a continuation of the vertical frame members and by means of locker shoes are adjustable to take up unevenness in the floor. Rear legs are adjustable. Legs add 6 inches to the height of lockers.

NUMBER PLATES—All lockers are furnished with aluminum number plates attached to the top of the door. Characters are filled with black enamel. Unless otherwise specified lockers are numbered consecutively from one up.

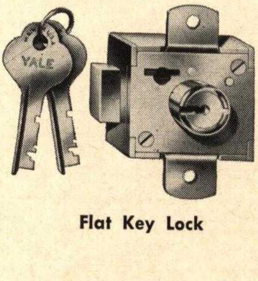
EQUIPMENT—Single tier lockers have one hat-shelf 10" below the top of locker. Hat shelf is omitted in double tier lockers. Double and single tier lockers 12" and less in width have one double prong ceiling hook and three single prong wall hooks. Triple tier lockers 12" and less in width have one wall hook on back and one double prong ceiling hook. Lockers over 12" in width have an additional wall hook on the back. Single tier lockers 18" or more in depth have galvanized coat hanger rod instead of ceiling hook. Hooks are ¼" round steel cadmium plated with ball points and are attached with two bolts.

FINISH — All steel parts are to be thoroughly cleaned, treated with a phosphate solution, dried and then finished with a heavy dip coat of #28 Gray enamel (No. 53 Tan, Olive Green, #59 Green, #33 Sea Mist, #34 Gray, #80 Gray and #49 Brown, enamel may be specified). Locker fronts to have an additional coat of baked enamel sprayed on. Enamel shall be baked on at 300 degrees. Special plain finish can be matched with accuracy.

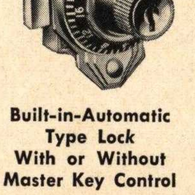
RECESS TOP AND END TRIM—Lockers which require trim are to be placed in recesses provided by the General Building Contractor and the Locker Contractor is to furnish steel recessing strips 2½" wide to cover opening at the ends and across the top of each locker recess opening. Recess strips are 18 gauge, finished to match lockers. Trim to be secured to lockers by means of fastening clips.

Suggested Specification Clause For Work Done By Others:

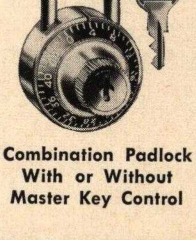
Lockers to be installed in recesses provided as shown on plans. Recesses will be furnished complete, ready for lockers, with wood furring stips furnished and set in place by the General Contractor. Locker Contractor shall anchor lockers and shall provide and attach steel recess finishing strips at ends and across top of all recesses, to form a neat, smooth finish.



Flat Key Lock



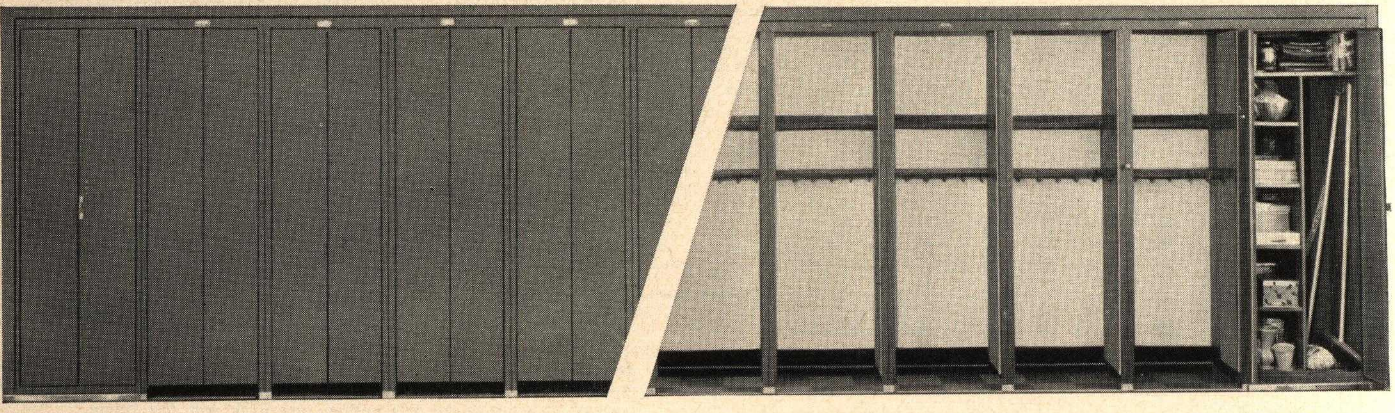
Built-in-Automatic
Type Lock
With or Without
Master Key Control



Combination Padlock
With or Without
Master Key Control

improved classroom wardrobes

with disappearing doors



Interior Steel "Disappearing Door" Pupils Wardrobes offer the practical solution to architects and school officials for an efficient safe and sanitary method of housing the clothing of elementary school pupils.

These wardrobes are designed to afford maximum utility in units 24" wide, to accommodate up to six pupils in each unit.

SAFETY FEATURE—"Disappearing Doors" become dividing partitions between pupils units when doors are in opened position, leaving aisles free of obstruction. The confusion and injury hazard caused by many doors swinging outward is definitely eliminated.

VENTILATION—Ample space is provided for pupils clothing, with 3" opening below doors to permit free circulation of air about garments, either by gravity or by a mechanical system. No closed uprights between units to obstruct this flow of air, when doors are closed.

AUTOMATIC DOOR CLOSING DEVICE—Each pupils wardrobe covered by double doors that are pivoted top and bottom. Doors open individually and are self-closing, by means of ball bearing rollers, operating on pivot hinges fitted with gravity action devices.

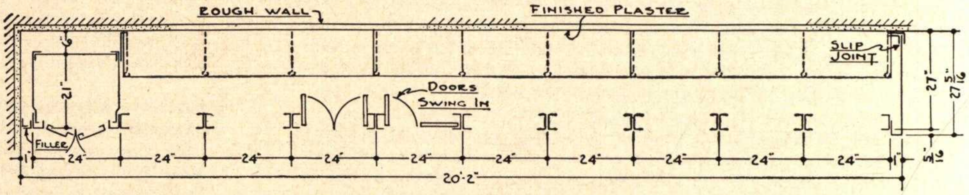
GROUP DOOR CONTROL—When specified, all pupils's units can be equipped with a mechanism, permitting all doors in a group to be held in open position and simultaneously closing all open doors.

MASTER LOCK—If desired the Group Door Control can be equipped with a grooved key locking device to lock all doors in the group.

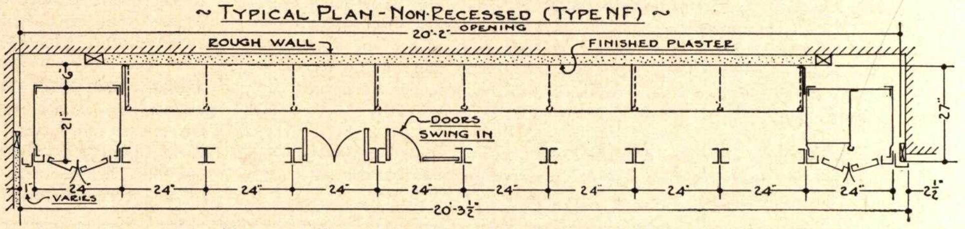
APPEARANCE—Interior Steel Wardrobes will satisfy the demands for a neat, flush cabinet appearance, with no projecting hardware.

~ NOTE ~
LENGTH OF RECESSED OPENING VARIES ACCORDING TO NUMBER OF UNITS USED.

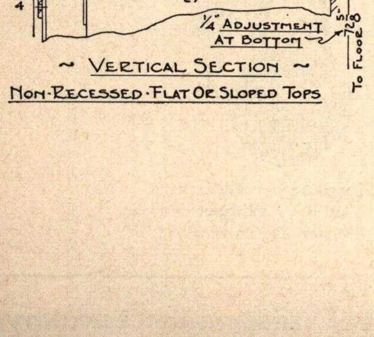
IF SUPPLY CABINET, TEACHERS CLOSET AND BOOKCASE ARE OMITTED, THE ENTIRE RECESS MUST BE PLASTERED.


ROUGH WALL
FINISHED PLASTER
SLIP JOINT
21"
DOORS SWING IN
FILLER
24"
20'-2"
27"
27 5/16"
5/16

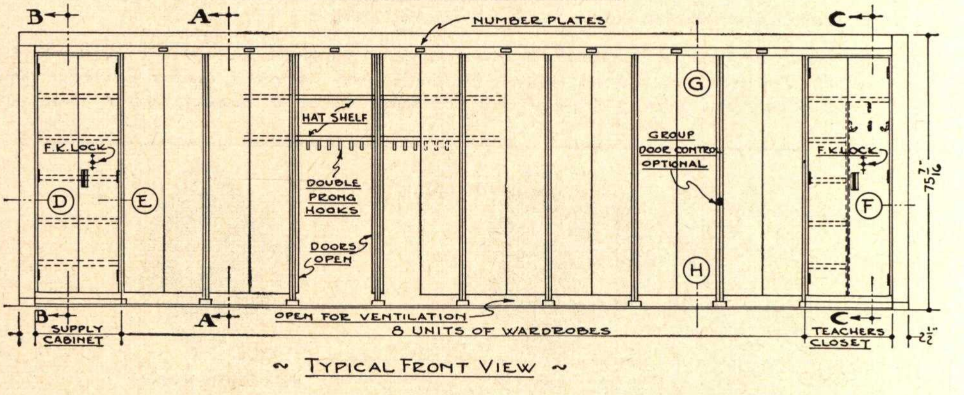
~ TYPICAL PLAN - NON-RECESSED (TYPE NF) ~


20'-2" OPENING
ROUGH WALL
FINISHED PLASTER
21"
DOORS SWING IN
24"
VARIES
20'-3 1/2"
27"
2 1/2"

~ TYPICAL PLAN - RECESSED (TYPE RF) ~


SLOPED TOP
FLAT TOP
14 5/8"
27"
1/4" ADJUSTMENT AT BOTTOM
72 5/8" TO FLOOR

~ VERTICAL SECTION ~
NON-RECESSED - FLAT OR SLOPED TOPS


B
A
C
NUMBER PLATES
G
HAT SHELF
GROUP DOOR CONTROL OPTIONAL
F.K. LOCK
F.K. LOCK
D
E
F
DOUBLE PRONG HOOKS
DOORS OPEN
H
75 7/16"
OPEN FOR VENTILATION
SUPPLY CABINET
8 UNITS OF WARDROBES
TEACHERS CLOSET
2 1/2"

~ TYPICAL FRONT VIEW ~

SUGGESTED SPECIFICATIONS

CONSTRUCTION—Posts shall be two #14 gauge steel channels spotwelded back to back, full height of Wardrobe. Bottoms of posts to be fitted with #16 gauge stainless steel shoes for fastening to floor, through a continuous stainless steel threshold. Top frame assembly to consist of a #12 gauge steel ceiling angle spotwelded to a #16 gauge steel front trim in one integral part, to run full length of units. This assembly to be provided with holes for bolting to posts and fastening to wood or metal header. Ends of recess shall be closed to furnish a neat, finished trim to the entire opening.

DOORS—Each pupils unit to be covered by double doors which disappear into the wardrobes and become dividing partitions when in open position. Wardrobe doors shall be of #20 gauge steel, flush pan type, one inch thick with vertical tube reinforcement at pivots, other vertical edge channeled and flat folded. Doors must be square and free from buckle and must close against rubber bumpers.

HARDWARE—Doors of all pupils wardrobes to be hung to posts by specially designed top and bottom pivot hinges. Bottom pivot hinge swivels on a ball bearing roller with a gravity action that automatically closes doors.

COAT AND HAT ASSEMBLY—For each pupil's wardrobe a hat and coat rack 11" deep shall be provided. The assembly to consist of two #20 gauge steel shelves, spaced 10" apart with #20 gauge beaded partitions between each unit. Underside of lower shelf fitted with six double prong hooks per unit. The entire assembly to be fastened to wall at desired height through stiffening flanges at rear.

TEACHERS CLOSET AND BOOKCASE—Cabinet shall be 24" wide with double doors which swing out. These units are individually operated and have their own back and sides. The doors are equipped with a three point locking device with a flat key lock which operates independently of the pupil's units. Cabinets to consist of one full width shelf, a vertical partition and one side fitted with four adjustable half-shelves, the other compartment with three single prong wall hooks, and one ceiling hook.

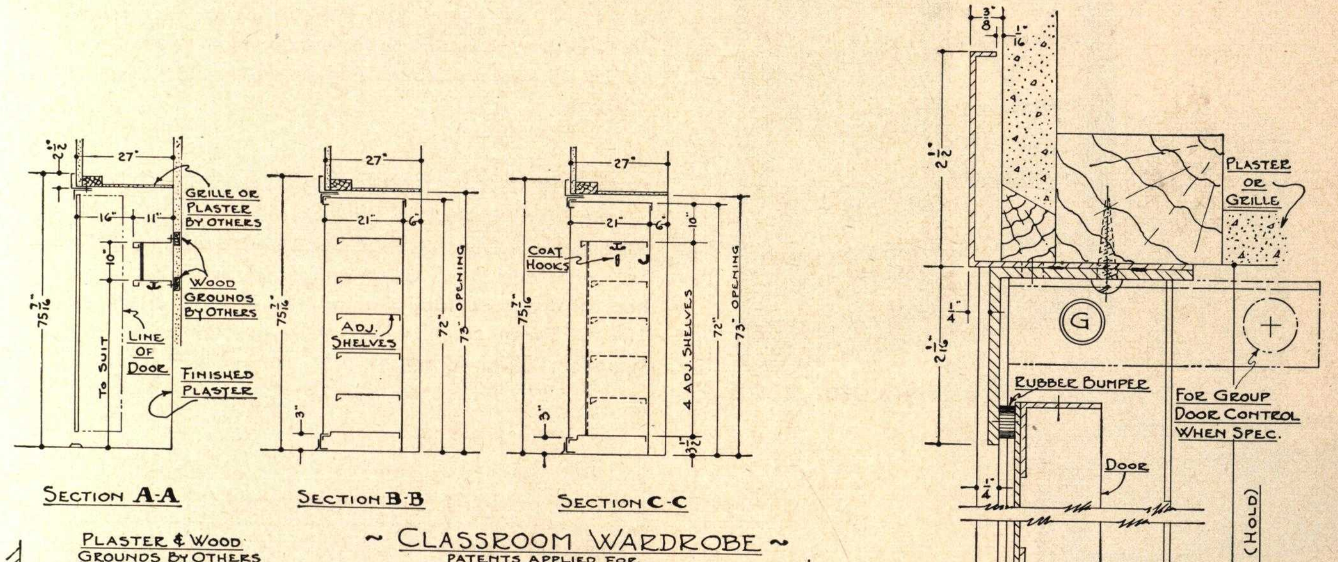
SUPPLY CABINET—To be same size and construction as teachers closet and interchangeable with same. Contains five full width adjustable shelves.

FINISH — All steel parts to be thoroughly cleaned before enameling and to be finished with two coats of mar-proof enamel, baked on at not less than 300 degrees of standard colors known as #53 Tan, #28 Gray and Olive Green or optional colors known, as #59 Green, #33 Sea Mist, #34 Gray, #80 Gray and #49 Brown.

NON-RECESSED TYPE NF (Optional)—Same as recessed type R.F. except that overhead furring or recessed openings are omitted and units supplied with flat tops or sloping tops and with fillers at ends or end panels as required. General Contractor to finish walls and floor.

AUXILIARY EQUIPMENT (When Specified)—The automatic door closing device shall be equipped with a group door control permitting all doors of the pupils units to be held in open position by spring latches at top of door which engage into the group door control rod. This group door control is operated by a release lever located on one wardrobe unit, which automatically releases the spring latches and allows doors to close.

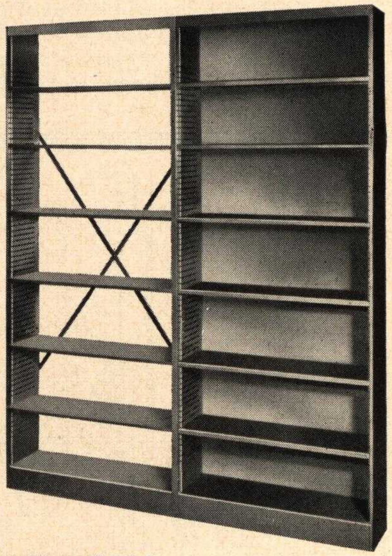
Group door control (if desired) to be furnished with a grooved key locking system to lock all doors controlled by the group release lever.


SECTION A-A
SECTION B-B
SECTION C-C
27"
2½"
16"
11"
10"
7'-7 5/16"
To Suit
Grille or Plaster By Others
Wood Grounds By Others
Line of Door
Finished Plaster
21"
6"
Adj. Shelves
72"
73" Opening
3"
Coat Hooks
4 Adj. Shelves
3½"
Plaster & Wood Grounds By Others
Supply Cabinet
Teachers Closet
By Others
Wardrobe Door
D
E
F
G
H
15/16"
1"
1 3/16"
2½"
Filler Width Varies
Side Trim
Stainless Steel Shoes Plinth And Threshold
Fin. Floor
Screw To Floor
3/8"
1/16"
2½"
4½"
2 1/16"
¼"
Plaster or Grille
Rubber Bumper
For Group Door Control When Spec.
Door
Pivot
For Ventilation 3"
73"
Required Opening - (Hold)

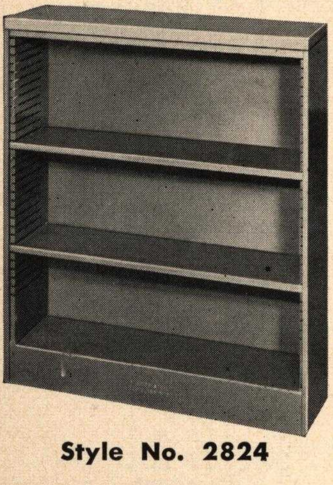
~ CLASSROOM WARDROBE ~
PATENTS APPLIED FOR

library shelving

bookshelf unit



Style No. 2813 Style No. 2802



bookcase unit

Style No. 2824

Interior Steel Bookshelf Units are attractive, yet are practical and well constructed. It will meet your needs, whether for the office, home or library.

Slotted type uprights with slots on one inch centers are used to provide quick adjustment of shelves. Each individual book problem can be met, with a minimum of space being used. Shelves are designed to prevent accidental removal, as they are provided with locking lugs which engage the slots. By raising the front of the shelves slightly it disengages the lock, thus there are no bolts to unfasten when it becomes necessary to rearrange the shelves. With Interior Steel construction, there is no difficulty in removing the end books.

Units are supplied with backs or sway braces. When units are placed back to back a common back or sway brace is used.

When several units are placed side by side, detachable finished end panels should be used on extreme ends only. Connecting pilasters are furnished for use between units. Two single faced finished end panels are required at the extreme end of each double faced stack.

Interior Steel Bookshelf Units are available in two heights either 84" or 90" high. The outside dimensions of Book shelf units are 36" wide by 9½" deep.

shelf descriptions

Interior Steel Bookshelf Units are furnished with six shelves as standard on both 84" and 90" high.

Shelves of 18 gauge are flanged down, back and then up, giving a triple flange for maximum strength and eliminating all raw and sharp edges which might injure hands or books.

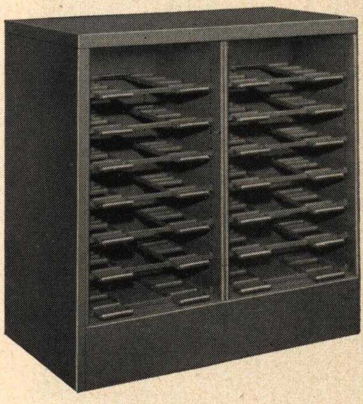
counter high bookshelf unit

Interior Steel Counter High Bookshelf Units are 42" high, 36" wide and 9½" deep with a 9/16" overhang or projection at front of top, making the overall depth of top 10 1/16". These counter high units are electro-welded assemblies. Shipped set-up.

STYLE NO.	DESCRIPTION
2802	Sgl. Faced Unit W/Back, No End Panel 84" High.
2804	Sgl. Faced Unit W/Back, No End Panel 90" High.
2808	Dbl. Faced Unit W/Back, No End Panel 84" High.
2810	Dbl. Faced Unit W/Back, No End Panel 90" High.
2813	Sgl. Faced Unit W/O Back, No End Panel 84" High.
2815	Sgl. Faced Unit W/O Back, No End Panel 90" High.
2819	Dbl. Faced Unit W/O Back, No End Panel 84" High.
2821	Dbl. Faced Unit W/O Back, No End Panel 90" High.
2824	Sgl. Faced Counter High Unit W/Backs and End Panels 42" High
2830	Glass Doors for 84" Unit
2884	End Panels for Single Faced Units 84" High.
2890	End Panels for Single Faced Units 90" High.

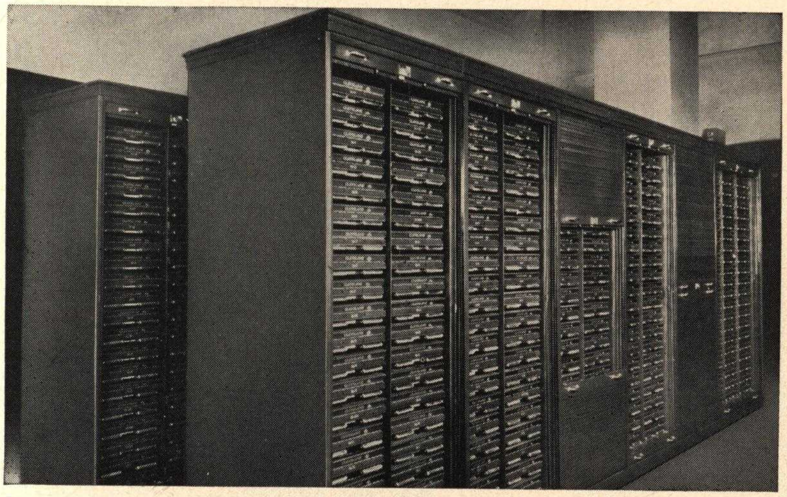
courthouse equipment

Roller Bookshelf Installation

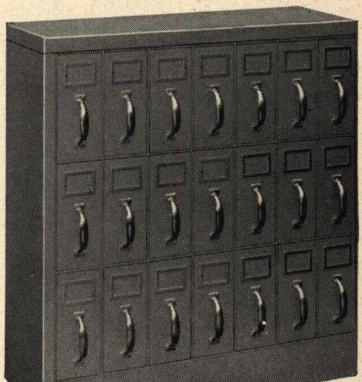


Style No. 2290

Interior Steel Roller Book Shelf Cases are fabricated from heavy furniture grade steel. Large formed beads on the vertical partitions together with rollers on the shelf insures ease of handling and protects books from excessive wear. Each shelf is provided with 8 rollers: Bottom of each unit is provided with a removable dust plate to facilitate cleaning. For complete information on Interior's Roller Book Shelf Cases, request catalog #37.

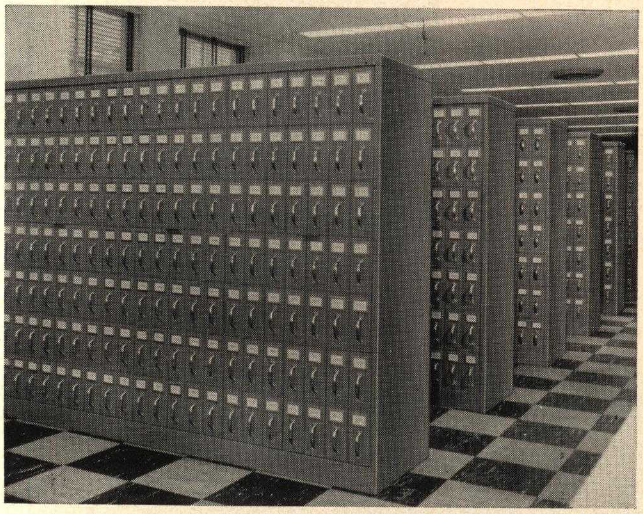


Curtain Case Installation



Style No. 2255

Interior Steel Document Files are of durable construction which will assure many years of trouble free service. All parts are die formed providing interchangeability of drawers. Each drawer is equipped with toggle type compressor. Pulls and label holders are satin finished aluminum. Document Files are shipped set up and can be assembled together so that they present the appearance of a single case. For complete specifications and other complete information request Interior Steel catalog #37.



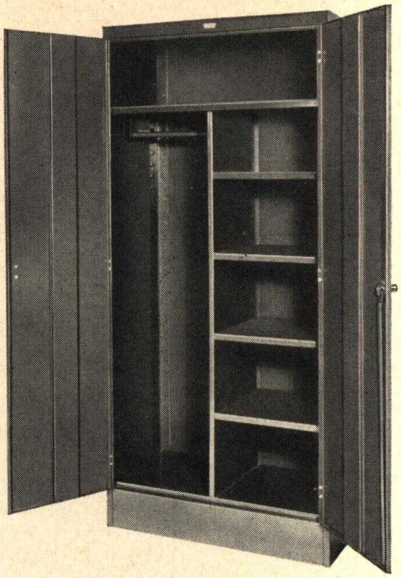
Document File Installation

interior steel equipment

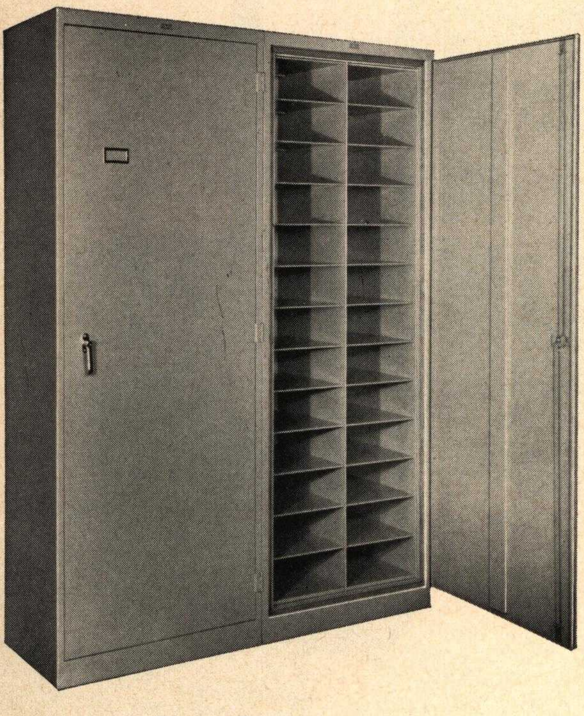
Hospital and Institutional Cabinets

ENGINEERING SERVICE

Interior Steel maintains a staff of engineers with long experience in designing and fabricating of steel equipment. Their services are available, without cost or obligation to architects, builders and owners.



Combination Cupboard and Wardrobes
Request Catalog No. 37



Museum Cases
Herbarium, Speciman Geology etc.,
Request Catalog No. 37

For Court Houses

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- **Storage Cabinets**
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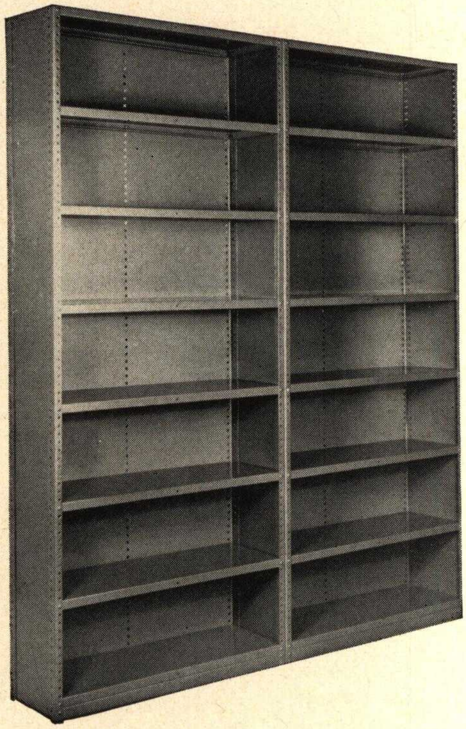


Shelving
Request Catalog No. 100

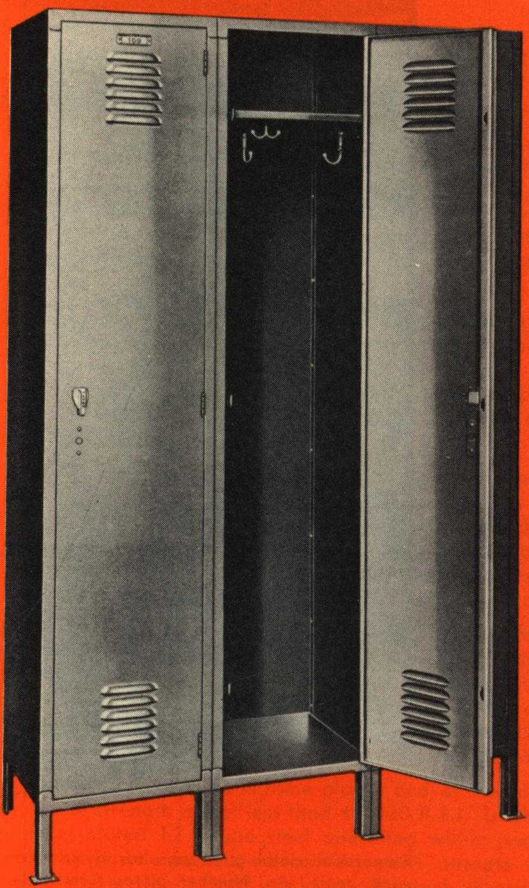
AGENTS & DEALERS IN PRINCIPAL CITIES

THE INTERIOR STEEL
EQUIPMENT COMPANY

2352 East 69th Street
Cleveland 4, Ohio

A.I.A. File No. 35-H-42

LYON® STEEL LOCKERS

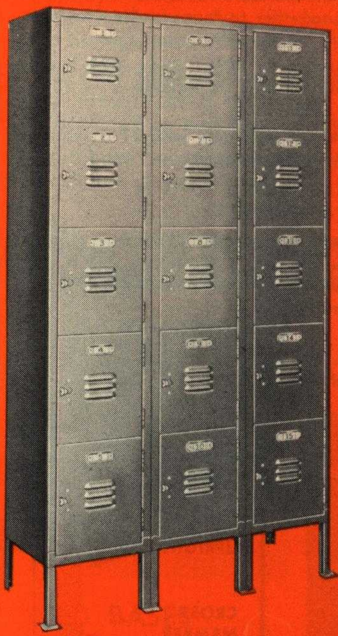


SINGLE TIER LOCKERS

Size Per Locker Opening

Width	Depth	Height	Width	Depth	Height
9″	12″	60″	12″	15″	72″
12″	12″	60″	12″	18″	72″
12″	15″	60″	15″	15″	72″
12″	18″	60″	15″	18″	72″
15″	15″	60″	15″	21″	72″
15″	18″	60″	18″	18″	72″
12″	12″	72″	18″	21″	72″

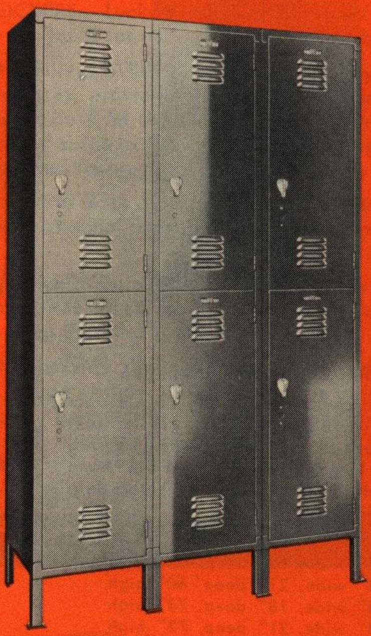
ADD 6″ TO HEIGHT FOR LEGS



MULTIPLE TIER LOCKERS

Size Per Locker Opening

Width	Depth	Height
	3 - High	
9″	12″	20″
9″	12″	24″
12″	12″	24″
	4 - High	
15″	15″	15″
	5 - High	
12″	12″	12″
12″	15″	12″
15″	15″	12″
	6 - High	
12″	12″	12″
12″	15″	12″

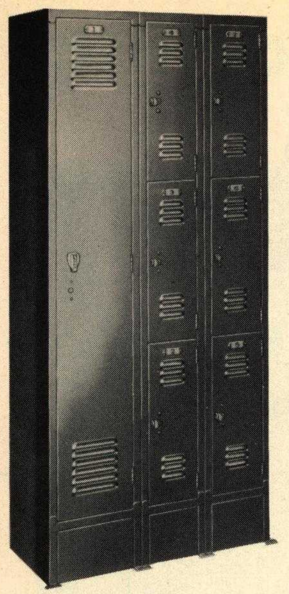


DOUBLE TIER LOCKERS

Size Per Locker Opening

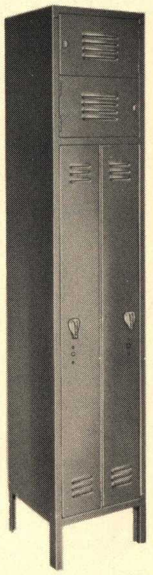
Width	Depth	Height
12″	12″	30″
12″	12″	36″
12″	15″	36″
12″	18″	36″
12″	15″	36″

LYON METAL PRODUCTS, INCORPORATED
GENERAL OFFICES: 935 Montgomery St., Aurora, Ill.
FACTORIES: Aurora, Ill. • York, Pa.



GYMNASIUM LOCKERS

Gymnasium Lockers are made up by combining one single tier locker with multiple tier lockers to obtain required openings. Combinations are made up to meet individual requirements. Illustration shows one single tier locker as it appears combined with two 3-high multiple tier lockers where school has six gym periods. Each student has permanent use of one multiple tier locker for his gym equipment and uses single tier locker only during gym period to store his regular clothes.

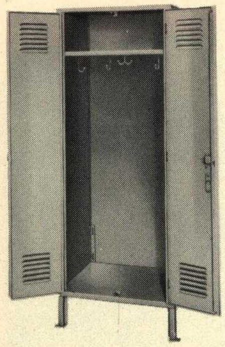


TWO PERSON LOCKERS

Two Person Lockers provide ample private storage for two persons in a space only 15″ wide. Each person has a full length coat compartment with three single prong coat hooks and a wide small compartment above for storage of hats, lunches, books, etc. Large coat compartment doors have finger-tip handles with padlock attachment.

THREE SIZES

15″ wide, 15″ deep, 72″ high—plus 6″ legs
15″ wide, 18″ deep, 72″ high—plus 6″ legs
15″ wide, 21″ deep, 72″ high—plus 6″ legs

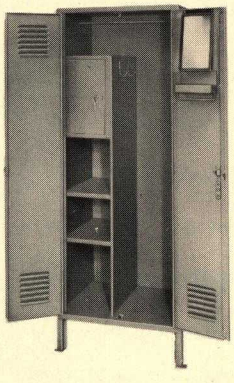


DOUBLE DOOR LOCKERS

General construction of the Double Door Locker is the same as the single tier locker except that it is wider and has two doors. Finger-tip handle is on right hand door which must be opened before left-hand door will open.

FOUR SIZES

24″ wide, 18″ deep, 60″ high
24″ wide, 21″ deep, 60″ high
24″ wide, 18″ deep, 72″ high
24″ wide, 21″ deep, 72″ high
Add 6″ to height for legs

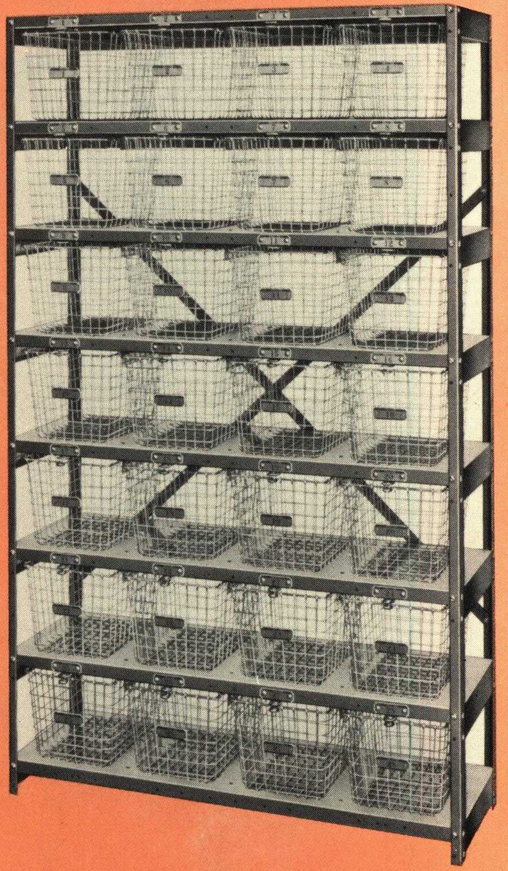


GOLF LOCKERS

The Golf Locker provides each golfer with complete storage facilities. There is ample space for all golf equipment, clothing and miscellaneous items. Lock-up compartment above three shelf openings may be fitted with built-in lock.

24″ wide, 21″ deep, 60″ high
(plus 6″ legs).

BASKET RACKS



Economical clothing storage for gymnasiums, swimming pools, etc. Number plates furnished—one required for each basket and each basket opening in rack. Basket Rack legs punched for attachment of casters where portable racks are required. Racks may be bolted together to form double face unit. Baskets are hot-dip tinned after fabrication.

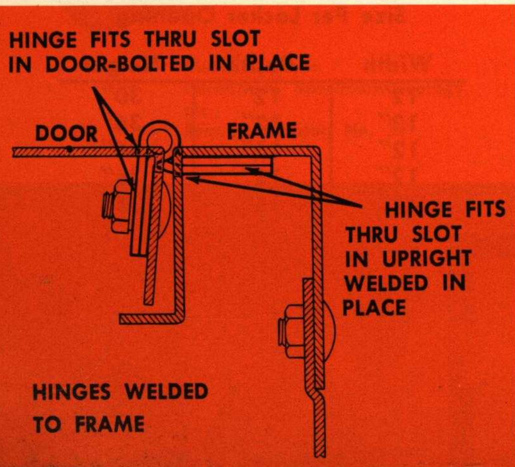
Rack illustrated is 40¼″ wide, 13¼″ deep, 68⅝″ high, equipped with 28 baskets, 9″ x 13″ x 8″, four wide per shelf.

Same rack also available with 21 baskets, 12″ x 13″ x 8″, three wide per shelf.

2 SIZES of BASKETS

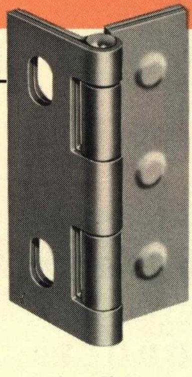
Sturdy, wire baskets, 1″ square mesh. Ends of vertical side wires wrapped around and welded to top rim.

9″ wide, 13″ deep, 8″ high
12″ wide, 13″ deep, 8″ high

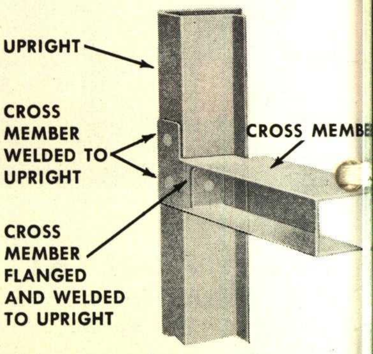

HINGE FITS THRU SLOT IN DOOR-BOLTED IN PLACE
DOOR
FRAME
HINGE FITS THRU SLOT IN UPRIGHT WELDED IN PLACE
HINGES WELDED TO FRAME

Finger-Tip Handle

Pat. No. DES 183,175



Non-Slip, Full Loop Hinges


UPRIGHT
CROSS MEMBER WELDED TO UPRIGHT
CROSS MEMBE
CROSS MEMBER FLANGED AND WELDED TO UPRIGHT

Frame Braced 2-Ways for Rigidity

SUGGESTED LOCKER SPECIFICATIONS

MATERIAL—Steel to be mild annealed, cold rolled, free from any sufarce imperfections.

All bolts to be cadmium plated or subjected to other approved rust-proofing process.

FINISH—Steel parts shall be thorougly cleaned before painting and given a bonding and rust inhibitive phosphate treatment followed by the application of a heavy coat of quality enamel by electrostatic spraying. Enamel shall be baked at 300 degrees minimum and must stand a rigid hammer test without flaking or chipping.

DOOR FRAME—Door frames shall be 16 gauge formed steel channels. Vertical members shall have an additional flange to form a continuous door strike. Corners shall be lapped and projection welded into a rigid assembly to resist strains. Top and bottom cross members shall provide a support for the front edge of the locker top and locker bottom.

DOORS—Doors shall be of one piece 16 gauge steel—on single and double tier both vertical edges formed into channel shaped reinforcements—on multiple tier hinge side formed into channel shaped reinforcement, other three sides flanged at right angle. Top and bottom of single and double tier doors shall be flanged at right angles to the plane of the face of the door.

HINGES—Hinges shall be not less than 2″ high, .050-inch steel, five knuckles, full loop forming a double thickness on each leaf. Hinge shall be set in slot in door and frame and projection welded to frame. Hinge pin shall be spun over at ends to prevent removal. Doors on single tier lockers shall have three (3) hinges and doors on multiple tier lockers shall have two (2) hinges attached to right hand side of door.

LOCKING DEVICE—Doors shall have a locking device engaging the door frame at three (3) points on single tier lockers and at two (2) points on double tier lockers. The device to consist of channel shaped steel operating within the channel reinforcement on the doors. Locking device shall be prelocking so that locking mechanism can be locked in open position—door automatically locking when closed.

HANDLES—Handle shall be chrome plated and of die-cast zinc alloy having tensile strength of not less than 40,000 P.S.I. Latching lift shall be cadmium plated 12 gauge steel operating within and completely protected by handle so that no moving parts operate over outside surface of locker door. Latching lift shall attach directly to locking bar and padlock attachment shall be an integral part of the lift.

DOOR JAMBS—Single tier lockers shall have three (3) door jambs, and double tier lockers two (2) door jambs welded to side of door frames, to engage locking device.

Design and steel gauge of door jambs shall prevent freeing of locking device by prying. Each jamb shall be equipped with soft rubber silencers designed so that they may be readily replaced.

BODY—All body parts shall be #24 gauge steel flanged to give double thickness of metal at back vertical corners.

HAT SHELVES—Single tier lockers shall have one (1) hat shelf located approximately 9″ below top, flanged on sides and back—channel formation on front flange and attached at not less than two points through each side flange. Multiple tier lockers are not furnished with hat shelf.

COAT HOOKS—Single tier lockers shall have three (3) single prong hooks, below hat shelves, in lockers under 15″ wide and four (4) single prong hooks in lockers 15″ wide and over. One (1) double prong ceiling hook attached to hat shelf. Double and triple tier lockers shall have three (3) single prong hooks for lockers under 15″ wide and four (4) single prong hooks for lockers 15″ wide and over and one (1) double prong ceiling hook in each opening. Side hooks and ceiling hooks made of steel rod stock with ball points and rust-proofed. Each hook attached to lockers with two bolts.

VENTILATION—Louvers shall be provided as follows on each type locker door:

Single tier lockers—9″ wide—Six 3½″ louvers at top and bottom.

Single tier lockers—Over 9″ wide—Six 6″ louvers at top and bottom.

Double tier lockers—Four 6″ wide louvers at top and bottom.

Triple tier lockers—Three 3½″ wide louvers at top and bottom.

15″ wide multiple tier—Four 6″ wide louvers per door.

All other multiple tier lockers—Three 3½″ wide louvers per door.

NUMBER PLATES—Aluminum number plates with figures at least ⅜″ high (embossed or etched). All lockers shall have number plates attached near top of doors.

ANCHORING—Lockers where specified shall be properly anchored with proper fittings to assure neat, rigid workmanship.

FREE STANDING LOCKERS—Lockers available with 6″ high legs. Front and end bases available for making closed locker base.

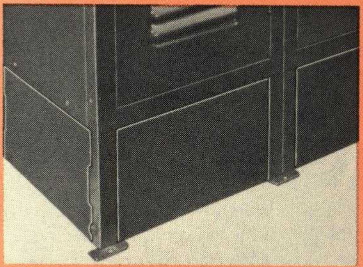
RECESSING AND FINISHING STRIPS—Lyon lockers may be secured for placing in wall recesses, provided by the builder. Finishing strips for recessed lockers shall be #18 U.S.S. gauge steel, with a three inch (3″) wide face. Finishing strips to lap frame of locker approximately ⅛″ and to project beyond face of locker approximately ⅜″.

End finishing strips bolted to sides of locker frame. Top finishing strips attached to lockers with channel formed clips, on approximately 24″ centers.

End and top finishing strips at corners shall be covered with a formed corner cap. All intermediate joints covered with a formed splice cap and clip designed to keep finishing strips in alignment.

WIRE BASKETS—Wire baskets shall be all welded with 16 gauge horizontal wires, 13 gauge vertical wires, top frame reinforced with #6 ga. wire or equal. Tinned after fabrication. Baskets provided with padlock loop and number plate. Size 9″ x 13″ x 8″ or 12″ x 13″ x 8″ with 1″ square mesh. Numbered as directed.

STANDARD FINISHES — LYON GRAY, GREEN OR TAUPE



CLOSED BASES

Closed bases are available to provide attractive, flush-front appearance. Make locker rooms easy to clean. Easily attached without tools.

NUMBER PLATES

Same plates are used on all Lyon Lockers. Fit pre-punched holes. Etched black figures on aluminum plate. 2¾″ wide, 1″ high.

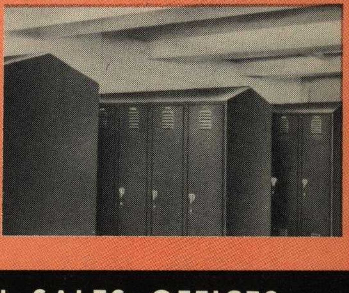
AURORA, ILL
LYON®
YORK, PA
1

LOCKER BENCHES

Rigid, durable and attractive. Seat is selected hardwood with three coats of clear sealer over natural wood finish. Enameled steel pedestal base. Benches are 18″ high, 9½″ wide. Available in lengths from 5′ 10″ to 13′ 10″ in one foot increments. Benches 8′ 10″ and longer have 3 pedestals.

SLOPING TOPS

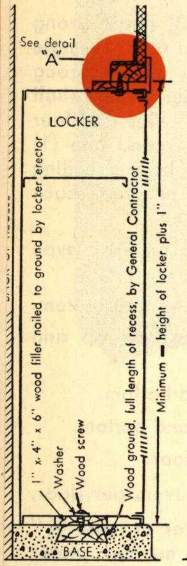
Lockers with sloping tops are easy to clean and will not collect debris. Have full height side sheets with sloping tops. For details see your Lyon salesman.



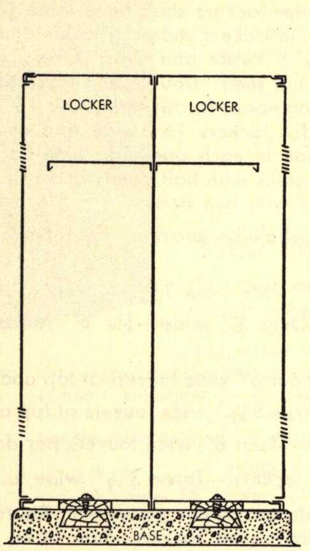
COMPLETE FIELD ENGINEERING SERVICE AVAILABLE AT ALL LYON SALES OFFICES

RECESSING DATA AND ANCHORING DETAILS

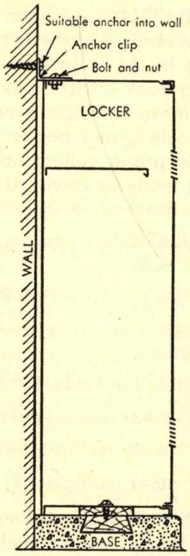
These sketches illustrate a recommended method of recessing Lyon Steel Lockers and anchoring them to base and wall. Recesses and bases are to be provided by the builder, complete and ready to receive lockers, including provision for anchoring of lockers as shown.


See detail "A"
LOCKER
1" x 4" x 6" wood filler nailed to ground by locker erector
Washer
Wood screw
Wood ground, full length of recess, by General Contractor
Minimum — height of locker plus 1"
BASE

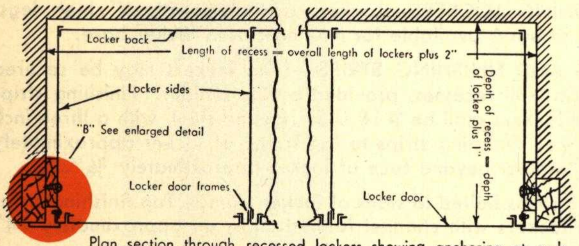
rtical section through locker recess showing recommended thod of recessing.


LOCKER
LOCKER
BASE

Vertical section through double row (back to back type) lockers, anchored to base. Anchor the end lockers and approximately every fifth intermediate locker.


Suitable anchor into wall
Anchor clip
Bolt and nut
LOCKER
WALL
BASE

Vertical section through single row lockers, anchored to base and wall. Anchor end lockers and approximately every fifth intermediate locker.


Locker back
Length of recess — overall length of lockers plus 2"
Depth of recess — depth of locker plus 1"
Locker sides
"B" See enlarged detail
Locker door frames
Locker door

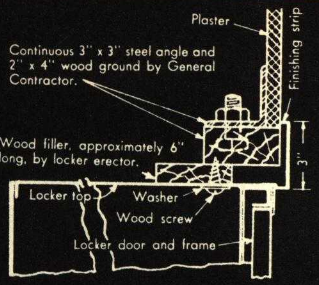
Plan section through recessed lockers showing anchoring at ends of recess and right and left hand end recess finishing strips.

LOCKER RECESSING

Complete details on methods of recessing and recess finishing strips furnished upon application. For information see your Lyon salesman.

DETAIL AT "A"

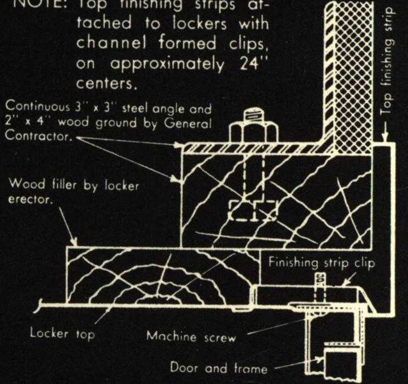
Showing how top of locker is anchored in recess. Approximately every third locker should be anchored.


Plaster
Finishing strip
Continuous 3" x 3" steel angle and 2" x 4" wood ground by General Contractor.
Wood filler, approximately 6" long, by locker erector.
3"
Locker top
Washer
Wood screw
Locker door and frame

NOTE: Top finishing strips attached to lockers with channel formed clips, on approximately 24" centers.

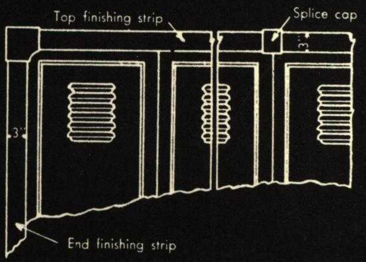
DETAIL AT "A"

Showing how top finishing strip is attached to top of lockers with top finishing strip clips.

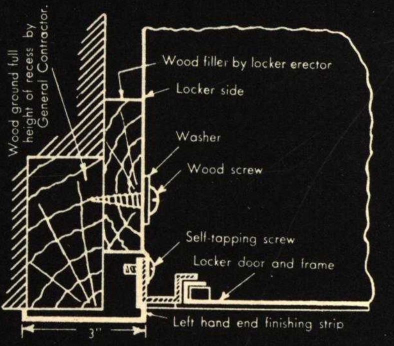

Top finishing strip
Continuous 3" x 3" steel angle and 2" x 4" wood ground by General Contractor.
Wood filler by locker erector.
Finishing strip clip
Locker top
Machine screw
Door and frame

FINISHING STRIPS

Elevation showing joint between end and top finishing strips and splice cap covering joint between two pieces of top finishing strip.


Top finishing strip
Splice cap
3"
3"
End finishing strip

ENLARGED PLANVIEW AT "B"


Wood ground full height of recess by General Contractor.
Wood filler by locker erector
Locker side
Washer
Wood screw
Self-tapping screw
Locker door and frame
Left hand end finishing strip
3"

15 DISTRICT SALES OFFICES LISTED BELOW — BRANCHES IN ALL MAJOR CITIES

Atlanta 3, Georgia
206 Bona Allen Building

Boston 10, Mass.
46-48 Midway Street

Chicago 6, Ill.
300 W. Adams Street
Suite 238

Cincinnati 2, Ohio
503 Building Industries Building

Cleveland 13, Ohio
2012 West 25th Street
Room 407

Dallas 1, Texas
1314 Wood Street
Room 605

Detroit 2, Mich.
209 Curtis Building

Kansas City 11, Mo.
3542 Main Street

Los Angeles 23, Cal.
3650 Union Pacific Ave.

Minneapolis 2, Minn.
711 National Building

New York 6, N. Y.
92 Liberty Street

Philadelphia 7, Pa.
304 City Centre Building
121 North Broad Street

Pittsburgh 12, Pa.
Republic Building
200 East Ohio St., N. S.

Syracuse 2, N. Y.
Larned Bldg.—Room 415
114 South Warren Street

Washington 5, D. C.
825 Woodward Building
15th and H Streets, N. W.

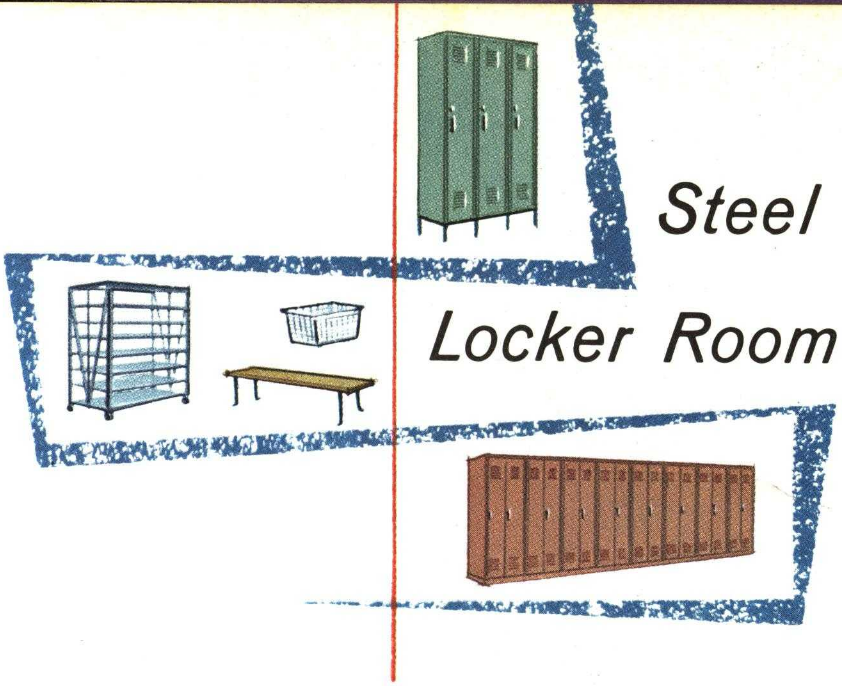
A PARTIAL LIST OF LYON PRODUCTS

- Storage Cabinets
- Filing Cabinets
- Flat Drawer Cabinets
- Drawing Tables
- Sorting Files
- Coat Racks
- Folding Chairs
- Tables
- Desks
- Stools
- Tool Boxes
- Tool Trays
- Hopper Bins
- Parts Cases
- Drawer Units
- Work Benches
- Bench Drawers
- Cabinet Benches
- Hanging Cabinets
- Service Carts
- Tool Stands
- Bar Racks
- Shop Boxes
- Bin Units
- Revolving Bins
- Shelving
- Toolroom Equip.
- Lockers
- Economy Locker Rack
- Service Counters
- Display Equipment
- Wood Working Benches

LYON METAL PRODUCTS, INCORPORATED
GENERAL OFFICES: 935 Montgomery St., Aurora, Ill.
FACTORIES: Aurora, Ill. • York, Pa.

Printed in U.S.A.

23d
Med



Steel Lockers

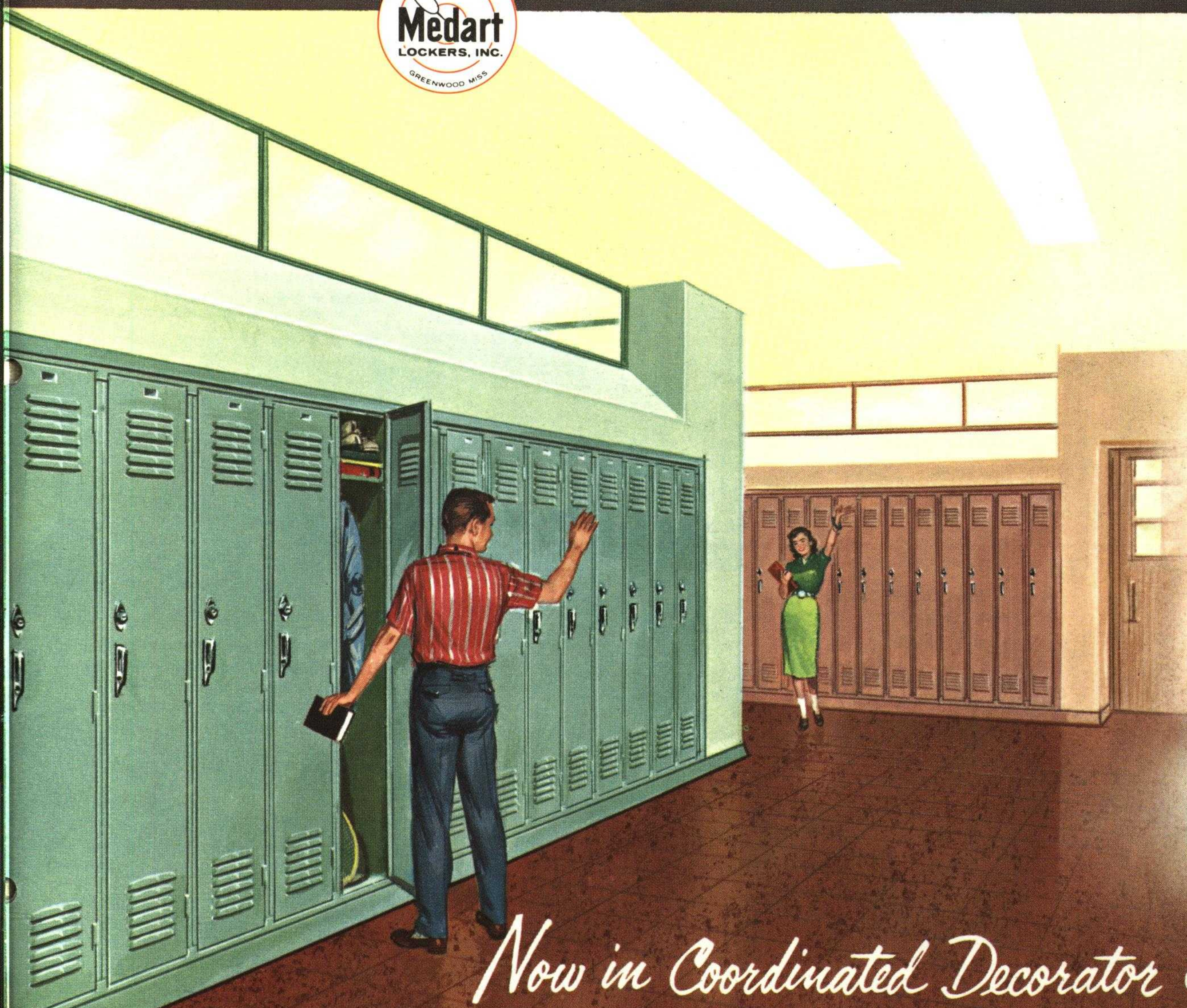
Locker Room Equipment

Steel Wardrobes

Medart Lockers, Inc.

4427 GERALDINE AVE. • ST. LOUIS 15, MO.

ST. LOUIS MO
Medart
LOCKERS, INC.
GREENWOOD MISS



COLONIAL BLUE

DESERT SAND

SURF GREEN

FRENCH GREY

CORAL ROSE

Now in Coordinated Decorator Colors

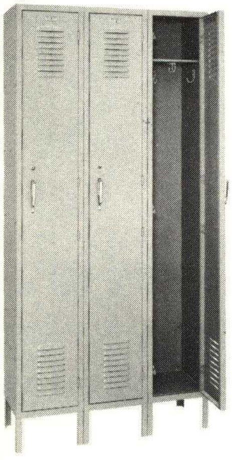
...AT NO EXTRA COST!

Medart *steel lockers . . .*

CHOICE OF SEVEN MEDART STANDARD COLORS AT NO EXTRA COST

Baked-Enamel Finish Electrostatically Applied On Bonderized Steel

All Medart lockers are thoroughly cleaned before painting by a hot-spray washing process and protected with an insoluble phosphate conversion coating (Bonderized) to give maximum corrosion resistance and to provide an excellent base for the finish. Specially formulated enamel is applied by the newest electrostatic method to provide a uniform, drip-free coating which is thoroughly cured in a baking oven to give high abrasion resistance and superior adhesion. School-approved Medart colors are: Colonial Blue, Desert Sand, Surf Green, French Grey, Coral Rose, Medium Grey and Olive Green. Color chart sent on request.



SINGLE-TIER LOCKERS

Three-point locking: 60″ or 72″ height. 6″ legs or closed bases optional. 9″ shelf space at top. 12″ and 15″ deep lockers have one 2-prong shelf hook and 3 single-prong wall hooks. 18″ deep lockers have coat rod and 5 single-prong wall hooks.

STANDARD SIZES

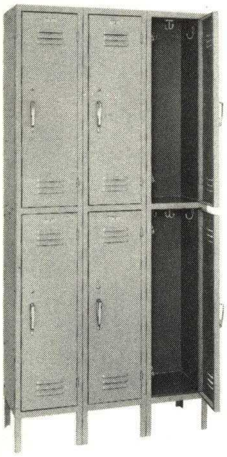
WIDTH	DEPTH	HEIGHT
9″	12″	60″ or 72″
12″	12″	60″ or 72″
12″	15″	60″ or 72″
12″	18″	60″ or 72″
15″	15″	60″ or 72″
15″	18″	60″ or 72″
18″	18″	60″ or 72″
18″	21″	60″ or 72″

BOX LOCKERS

These units provide protection against pilferage often experienced with the use of wire baskets. Ideal for limited storage requirements in gym dressing rooms, bowling alleys, etc. Choice of 4, 5 or 6-tiers to match 60″ or 72″ single-tier units. Padlock hasp serves as door handle.

STANDARD SIZES

WIDTH	DEPTH	HEIGHT	TIERS
12″	12″	15″	4
15″	15″	15″	4
12″	12″	12″	5 or 6
12″	15″	12″	5 or 6
15″	15″	12″	5 or 6
15″	18″	12″	5 or 6

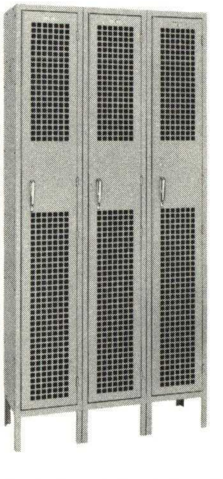


DOUBLE-TIER LOCKERS

60″ or 72″ overall height exclusive of optional 6″ legs or closed bases. Each locker fitted with 3 ball-point single-prong wall hooks, one double-prong ceiling hook. Doors are two-point locking. Shelves can be furnished at extra cost, if desired.

STANDARD SIZES

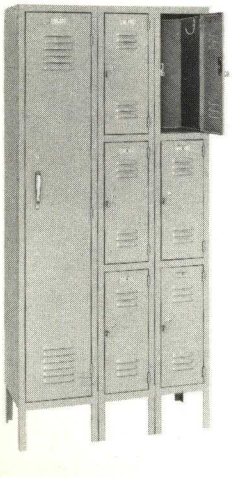
WIDTH	DEPTH	HEIGHT
9″	12″	30″
12″	12″	30″
12″	15″	30″
12″	12″	36″
12″	15″	36″
12″	18″	36″
15″	15″	36″



PERFORATED-DOOR VARSITY LOCKERS

Same design, construction and equipment as standard single and double-tier lockers, except doors have square perforations for maximum ventilation and to facilitate locker inspection. Available in 12″ and 15″ widths only, single or double-tier sizes.

All Medart lockers are available with sloping tops, with 6″ legs or closed metal bases, or without legs for installation on pre-built bases. Attractive metal trim is supplied for recessed installations.

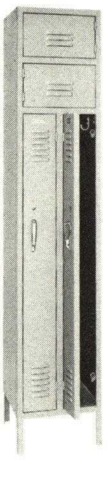


GYMNASIUM COMBINATION LOCKERS

Illustration shows 6 triple-tier gym suit lockers in combination with a single-tier dressing locker. Gym suit lockers are of box locker construction in 3 or 4 tiers to match height of 60″ or 72″ single-tier units. Sturdy padlock hasp serves as door pull.

STANDARD SIZES

WIDTH	DEPTH	HEIGHT	TIERS
9″	12″	18″	4
9″	12″	20″	3
12″	12″	20″	3
9″	12″	24″	3
12″	12″	24″	3
12″	15″	24″	3



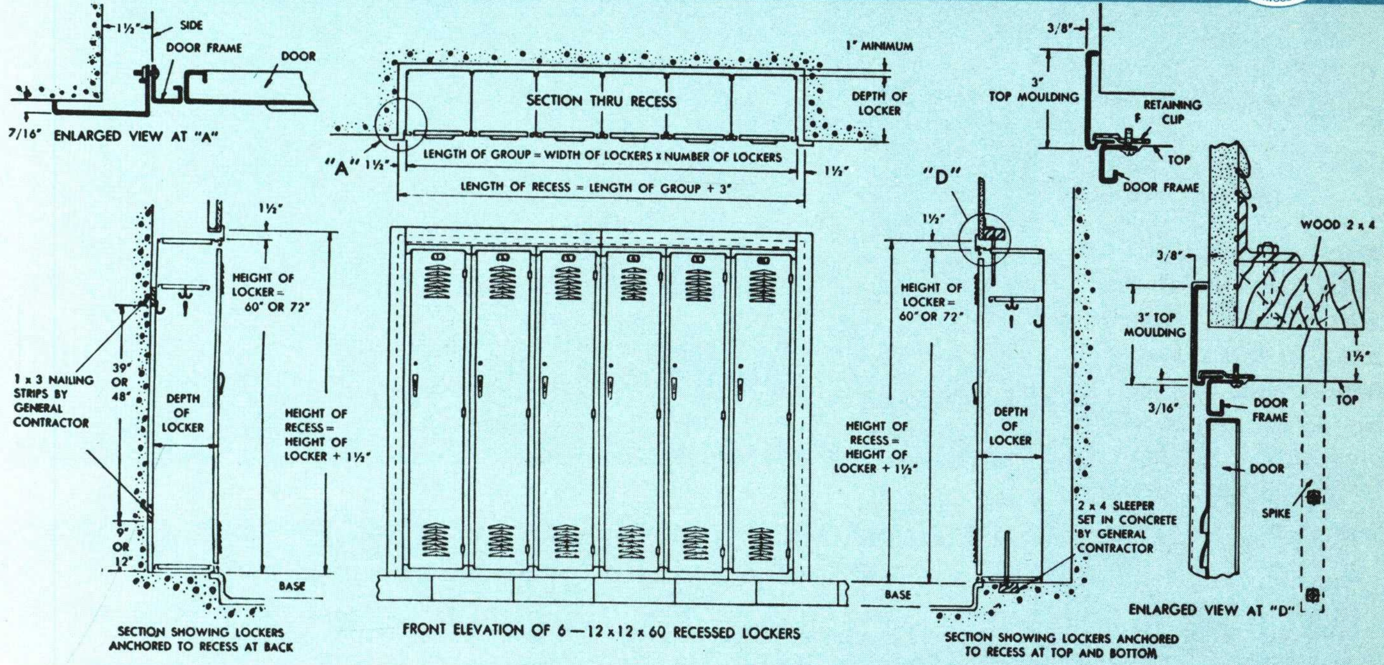
SPACE-SAVING TWO-PERSON LOCKERS

For convenient accommodation of two persons where each may be assigned an individual hat compartment 15″ wide by 9″ high, and an individually locking coat compartment 7½″ wide by 54″ high. Hat compartment latch is controlled from within coat locker. Available in 15″, 18″ and 21″ depths. Height, exclusive of optional legs, is 72″.

Illustrations shown on this page and sizes listed represent only a few of the many sizes and combinations available. We invite you to contact the nearest Medart Locker sales agent or to write direct concerning your individual requirements.

RECESSED LOCKER DETAILS

ST. LOUIS, MO
Medart
LOCKERS, INC.
GREENWOOD, MISS



1½"
SIDE
DOOR FRAME
DOOR
7/16" ENLARGED VIEW AT "A"
SECTION THRU RECESS
1" MINIMUM
DEPTH OF LOCKER
"A" 1½"
LENGTH OF GROUP = WIDTH OF LOCKERS x NUMBER OF LOCKERS
1½"
LENGTH OF RECESS = LENGTH OF GROUP + 3"
3/8"
3" TOP MOULDING
RETAINING CLIP
TOP
DOOR FRAME
"D"
WOOD 2 x 4
3/8"
3" TOP MOULDING
1½"
TOP
3/16"
DOOR FRAME
DOOR
SPIKE
ENLARGED VIEW AT "D"
1½"
HEIGHT OF LOCKER = 60" OR 72"
1 x 3 NAILING STRIPS BY GENERAL CONTRACTOR
39" OR 48"
DEPTH OF LOCKER
HEIGHT OF RECESS = HEIGHT OF LOCKER + 1½"
9" OR 12"
BASE
SECTION SHOWING LOCKERS ANCHORED TO RECESS AT BACK
FRONT ELEVATION OF 6—12 x 12 x 60 RECESSED LOCKERS
1½"
HEIGHT OF LOCKER = 60" OR 72"
HEIGHT OF RECESS = HEIGHT OF LOCKER + 1½"
DEPTH OF LOCKER
2 x 4 SLEEPER SET IN CONCRETE BY GENERAL CONTRACTOR
BASE
SECTION SHOWING LOCKERS ANCHORED TO RECESS AT TOP AND BOTTOM

GENERAL CONSTRUCTION DETAILS for all Medart Lockers . . .

DOORS—Formed from one sheet not less than 16-gauge steel (free from buckle, loose scale, pits and other imperfections). Reinforced by flanging top and bottom edges; side edges channeled to provide proper rigidity and strength.

FRAMES—Made of sheet steel formed channel shape, with return bend having smooth rounded edge to provide additional strength. Uprights and cross members electrically welded together to form a permanent, true, square and rigid frame.

BODY—Backs, sides, shelves, tops and bottoms are made of 24-gauge steel, properly formed to assure rigidity. Bottoms and shelves flanged or otherwise shaped to provide additional strength.

LOCKING DEVICE—Three-point in single-tier; two-point in double-tier lockers. Roller type, positive pre-locking arrangement, concealed in channel-shaped lockrod confined in door channel. Operation of lockrod is rubber silenced.

DOOR HANDLE—Lift type, die cast of high tensile, non-rust alloy with polished chrome finish. Padlock strike is integral part of handle. Concealed padlock hasp.

HINGES—Heavy five-knuckled type of 14-gauge steel with semi-recessed 3/16" diameter fast pin. Hinges securely projection welded to frame and attached to side flange of door with two bolts. Designed for full opening of door without strain or sag. Locker doors 36" high or less have two hinges; 60" high have three hinges; 72" high have four hinges.

LEGS—Front legs are a continuation of channel door frame. Rear legs of 14-gauge angle steel, bolted to sides and backs of lockers. Front and rear legs have adjustable shoes with provision for bolting to floor (lockers can also be furnished without legs).

VENTILATION—All standard locker doors are louvered top and bottom—three louvers top and bottom for 30" and 36" lockers, six louvers top and bottom for 60" lockers, and nine for 72" lockers. Box lockers, three louvers.

FINISH—(See heading on opposite page).

GROUPING—May be arranged in any grouping desired.

HOOKS—Lockers 12" and 15" deep have three single-prong wall hooks and 1 double-prong ceiling hook; lockers 18" or more in depth have 5 single-prong wall hooks. All hooks ball pointed and cadmium plated.

COAT RODS—Standard equipment on all lockers 18" or more in depth. Rod is of 3/8" diameter and bolted to sides of locker by cadmium plated flanges.

SHELVES—Single-tier lockers have one shelf extending the full width and depth of the locker, spaced 9" from top. Shelves have rolled front edge and are bolted to sides. Extra shelves can be furnished at additional cost.

BOTTOMS—Set flush and fit tight to the frame. The front edge has return flange which rests solidly on lower cross member of the frame.

TOPS—All lockers have individual flat tops. Sloping tops or continuous sloping hoods can be supplied at extra cost.

NUMBERING—All lockers are furnished with aluminum numberplates with black numerals. Plates are bolted in place. Unless otherwise specified, lockers are numbred from "one" up.

LOCKS—Any standard key-type or combination locker lock or suitable padlock can be furnished at extra cost.

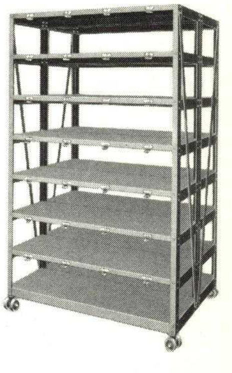
GYM SUIT AND BOX LOCKERS—Frames are channel shape with 1/4" return flange on left-hand upright which acts as continuous door strike. All door edges are flanged with double thickness on locking side for additional strength. Locking catch of 13-gauge steel welded to frame; 16-gauge padlock hasp, to the door. Door and lock catch also designed for built-in lock. Padlock hasp serves as door handle.

LOCKER ROOM EQUIPMENT

WIRE BASKET RACKS

7 baskets high (6'-0") with dividers, number plates and padlocking arrangement. Sections 8 baskets high (6'-9") or 9 baskets high (7'-6") also available. Each section 40" long, 13¾" deep; 4 small or 3 large baskets to each shelf. Sections may be bolted back to back, or end to end. Finished in any of Medart standard colors. Capacity: 13" x 9" x 8" basket—No. 1307 holds 28; No. 1308 holds 32; No. 1309 holds 36. 13" x 12" x 8" basket—No. 1317 holds 21; No. 1318 holds 24; No. 1319 holds 27.

PORTABLE WIRE BASKET TRUCKS ▶

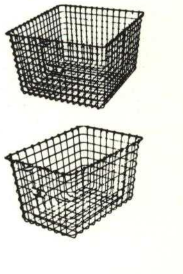


Made of 2 steel sections bolted back to back. Rigidly cross-braced. Anti-friction steel rollers or rubber tired rollers. 7 or 8 baskets high. Capacity: 13" x 9" x 8" basket—No. 1327 holds 56; No. 1328 holds 64. 13" x 12" x 8" basket—No. 1337 holds 42; No. 1338 holds 48.

LOCKER BENCHES

Seat 7½" or 9½" wide; 1⅝" thick. Natural finish. Furnished in lengths as required; max. 16' softwood top; max. 12' hardwood top. Steel pedestals as shown or pipe and flange type 6' apart.

WIRE BASKETS ▶



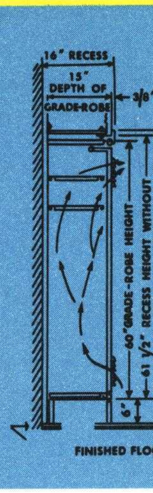
13-gauge vertical and bottom wires; 15-gauge horizontal. 6-gauge top rim with padlock eye. Electrically welded at intersections. Aluminum number plate. Specify finish: Hot-dip tinned after fabrication (HDT), or galvanized, green enamel finish (GWP).

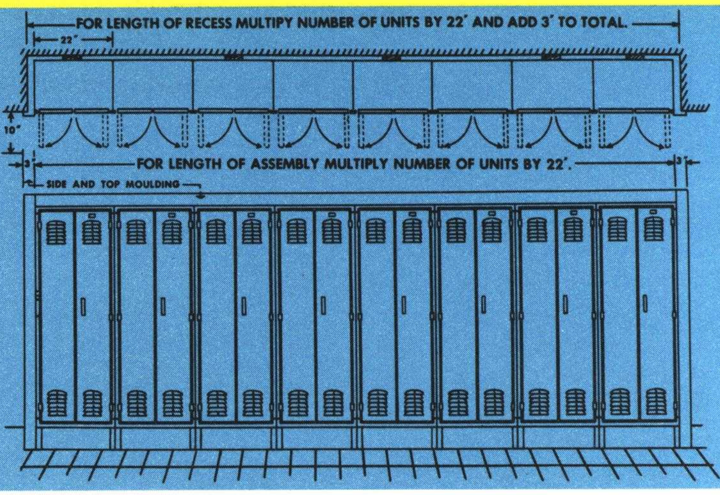
1" MESH: No. 1301—13" x 9" x 8";
No. 1303—13" x 12" x 8".
¾" MESH: No. 1302—13" x 9" x 8";
No. 1304—13" x 12" x 8".

Medart Lockers, Inc.

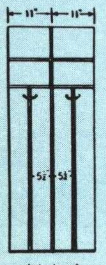
grade-robes

Most practical of all elementary school wardrobes . . . available in the new Medart colors at no extra cost.

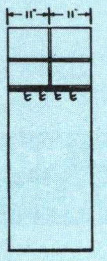



FOR LENGTH OF RECESS MULTIPY NUMBER OF UNITS BY 22" AND ADD 3" TO TOTAL.
22"
10"
3"
FOR LENGTH OF ASSEMBLY MULTIPLY NUMBER OF UNITS BY 22".
3"
SIDE AND TOP MOULDING

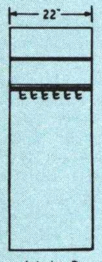
INTERIOR ARRANGEMENTS



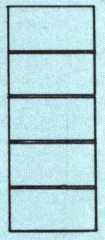
Interior A



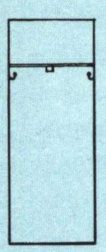
Interior C



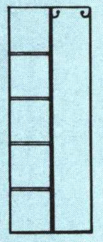
Interior D



Bookcase



Teacher's Wardrobe



Combination Bookcase and Teacher's Wardrobe

FOR PUPILS

Accommodate 4 to 6 children. Interior "A" for 4 pupils has 4 fixed partitions, 4 spaces for hats and books. Coat hooks are single-prong type. Interior "C" for 4 pupils has same 4 hat spaces, 4 sliding double-prong coat hooks. Interior "D" for 6 pupils has 2 hat shelves; 6 double-prong hooks.

TEACHER UNITS

May be added at either or both ends of pupil units. Bookcase shelves are adjustable. Teacher's wardrobe has hat shelf, coat rod, 2 single-prong coat hooks. Combination unit has adjustable shelves and 2 single-prong hooks.

grade-robes provide more room in less space . . . have automatic group locking control . . .

This arrangement makes possible 1-person control for an entire group of Grade-Robes. The teacher can lock or unlock all doors at the master control with one turn of a single key. Only when the master control is unlocked can each set of Grade-Robe doors be individually opened. Locks or keys that young pupils may lose are entirely eliminated. Classrooms stay neater, cleaner and much more quiet.

POSITIVE PRE-LATCHING . . . Roller-type latching devices at top and bottom are always smooth, positive, yet quiet in action whether doors are slammed or gently closed. When master control is in locked position, doors of individual units can be closed and will lock automatically.

DIMENSION TABLE FOR RECESSED INSTALLATIONS

Number of Grade-Robe units required	2	3	4	5	6	7	8	9	10
Over-all length of assembly	3′8″	5′6″	7′4″	9′2″	11′0″	12′10″	14′8″	16′6″	18′4″
Length of recess required	3′11″	5′9″	7′7″	9′5″	11′3″	13′1″	14′11″	16′9″	18′7″

Construction details for Grade-Robes are generally the same as those for Lockers described on the preceding page.

Dimensions of all Grade-Robe units, pupils or auxiliary types, are identical; 22″ wide, 60″ high, 15″ deep. If recessed, and no built-in base is provided, 6″ legs and removable steel base panels are furnished, bringing the total height to 66″. Front legs are a continuation of the frame, but rear legs are steel angles bolted to sides and backs.

Recessed installation requires only a rough unfinished recess 16″ deep, which allows for ventilation (where required) behind the Grade-Robe units. No plaster, tile, overhead framing or finished flooring are necessary. Attractive molding for top and sides is supplied for all recessed installations. Air circulation through the Grade-Robes adequately provided for through louvers at top and bottom of doors. If Grade-Robe assembly is installed as an integral part of the ventilation system, perforated backs, tops, shelves and bases are available at extra cost. Flat tops are standard, but if sloping tops are desired, they may be specified as an extra at small additional cost.

The sectional view above illustrates recessed Grade-Robe units equipped with legs and steel bases. Grade-Robes installed free-standing (placed against a wall) are similarly equipped. However, legs and steel bases are eliminated on both types if built-in bases (such as terrazzo, concrete or wood) are used. The latter, of course, are not part of the Medart assembly. With built-in bases, the Grade-Robes rest on the bottom frame member. In recessed installations (when built-in bases are not provided), finished flooring should run into recess about 2″ and a strip of finished flooring should also be placed under the rear legs.

MEDART LOCKEROBES with SIMULTANEOUS OPENING MASTER DOOR CONTROL

Similar in construction and offering the same fine features as Grade-Robes. However, with Lockerobes, operation of all doors is in the hands of one person who has absolute control of the simultaneous OPENING AND CLOSING as well as the locking of all doors . . . an exclusive Medart feature!

Right-hand doors are opened or closed by the operation of the right-hand control door; left-hand doors by operation of left-hand control door. Doors open on a 90° angle and the operating mechanism keeps all right doors open until left doors are first closed. A door handle is required only for the right hand control door. Endorsed by many leading architects and school authorities as the ultimate in safety and convenience for elementary school use.

Medart lockers offer the finest design, quality and craftmanship the industry affords. Their serviceability and durability have been proved through years of continuous use. Medart engineers are available for consultation and experienced advice at any time, without obligation. Write for general catalog and name of nearest Medart sales agent.

23d
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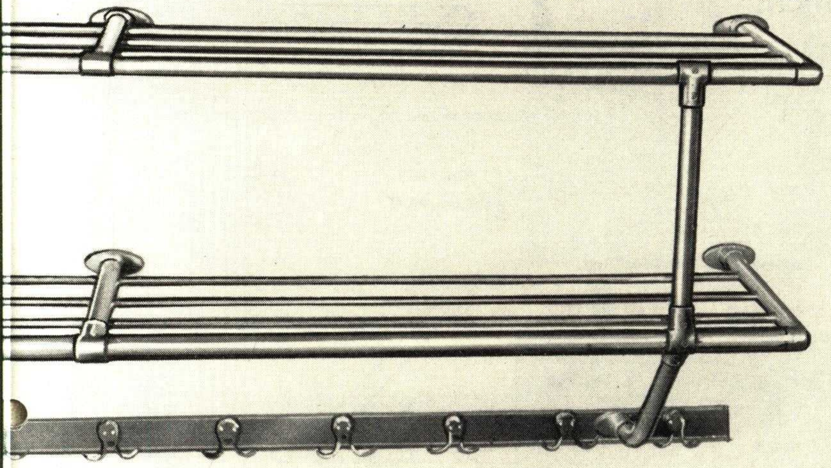
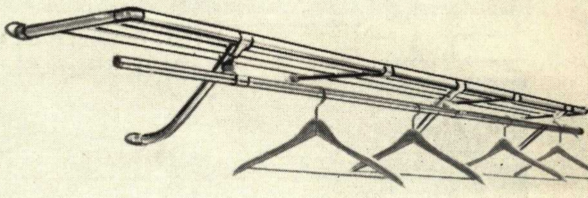
Custom Built by ARNCO

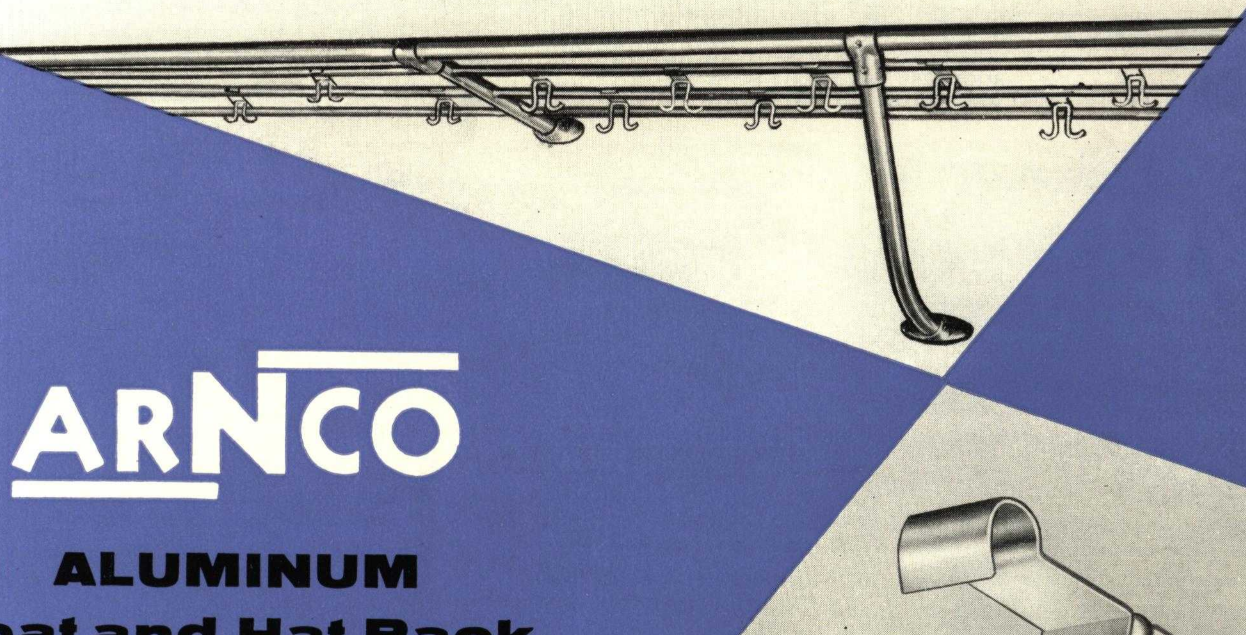


DOUBLE SHELF COAT AND HAT RACK
STYLE #102



ADDITIONAL COAT ROD FOR
STYLES No. 100, 101 & 102

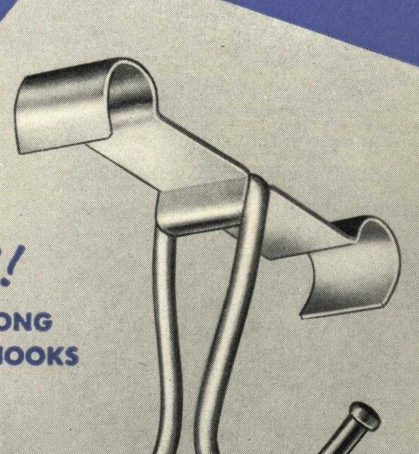
ADJUSTABLE DOUBLE PRONG SNAP-ON HOOKS
TO PROVIDE ADDITIONAL CAPACITY,
OR USED IN PLACE OF HOOK STRIPS



ARNCO

ALUMINUM
Coat and Hat Rack

alumilited aluminum
FOR SCHOOLS, HOSPITALS, INSTITUTIONS



NEW!
DOUBLE PRONG
"SNAP-ON" HOOKS

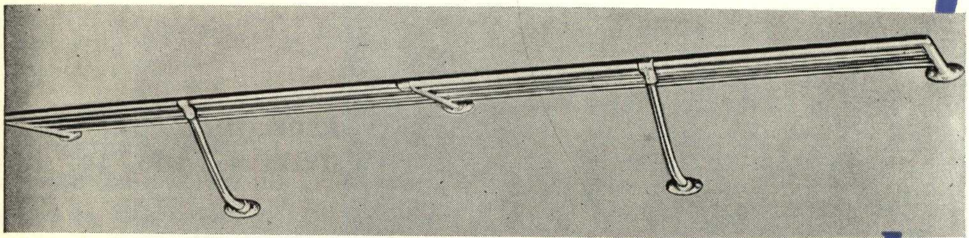
A. R. NELSON CO., INC. 38-35 CRESCENT ST., LONG ISLAND CITY 1, N. Y.

ARNCO

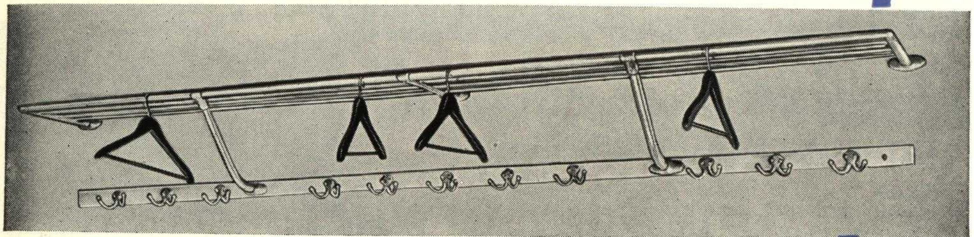
COAT and HAT RACKS

alumilited aluminum

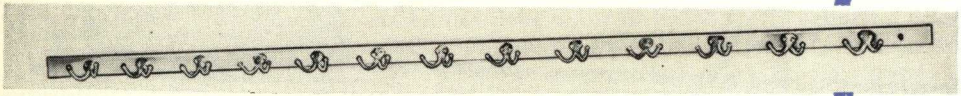
FOR SCHOOLS, HOSPITALS, INSTITUTIONS



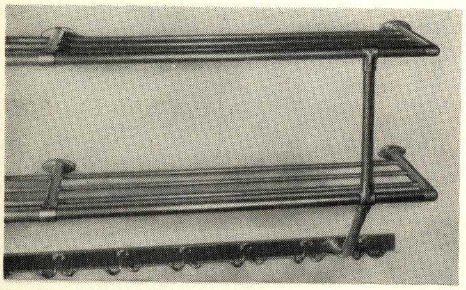
UTILITY SHELF STYLE #100



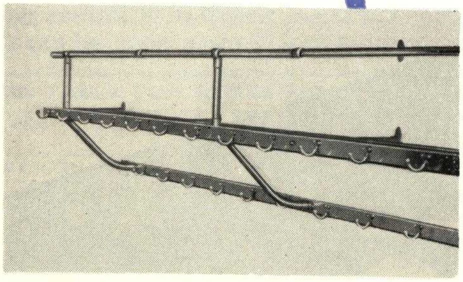
SINGLE SHELF COAT AND HAT RACK STYLE #101



HOOK STRIPS AVAILABLE SEPARATELY
(COAT AND HAT HOOKS FURNISHED IF DESIRED)



DOUBLE SHELF COAT AND HAT RACK STYLE #102



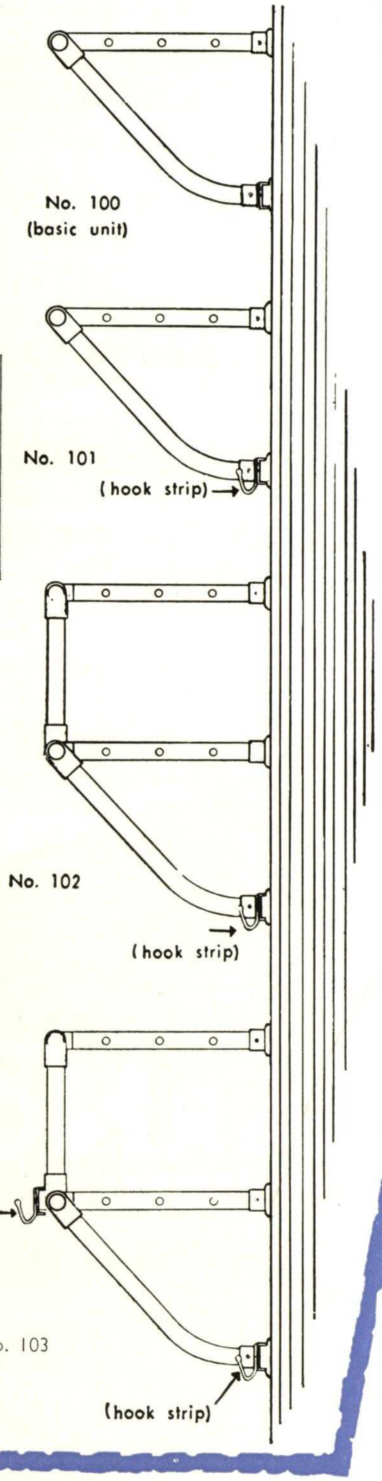
DOUBLE SHELF COAT AND HAT RACK WITH ADDITIONAL HOOK STRIP STYLE #103

The aluminum shelf, coat and hat racks are smartly designed, not only light, strong and rigid, but include sanitary self ventilating features with beauty. Styles No. 101 and No. 102 are equipped with double-prong hooks 6″ on center. Style No. 103 has single prong hooks 9″ on center staggered. An additional coat rod for Styles No. 100, 101 and 102 can be applied when required.

Shelves up to 6′0″ long furnished with two brackets. Over 6′0″ three or more brackets are supplied. Shelves are shipped assembled. Hooks are applied to strips. All fittings drop forged aluminum. The finish of the entire assembly is alumilited and will not darken or peel. Coat hangers are not furnished.

ANY DESIRED LENGTH UP TO 16 FEET

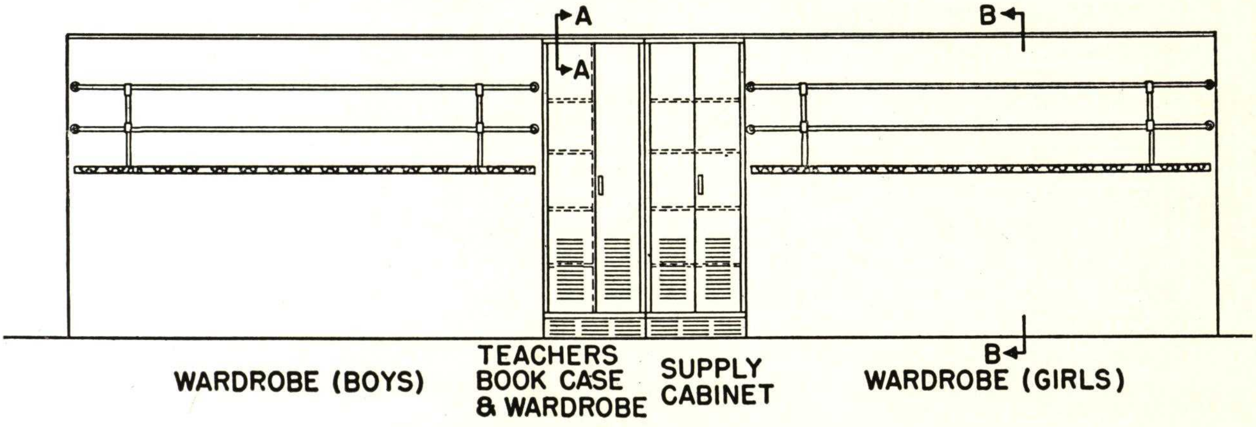
WRITE FOR CUBICLE CIRCULAR FOR DRESSING AND PATIENT ROOM ENCLOSURES.

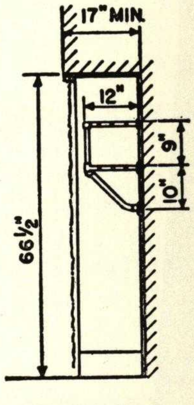


Shelves on Style No. 102 and No. 103, as well as multiple shelves, are spaced 9″ on center.

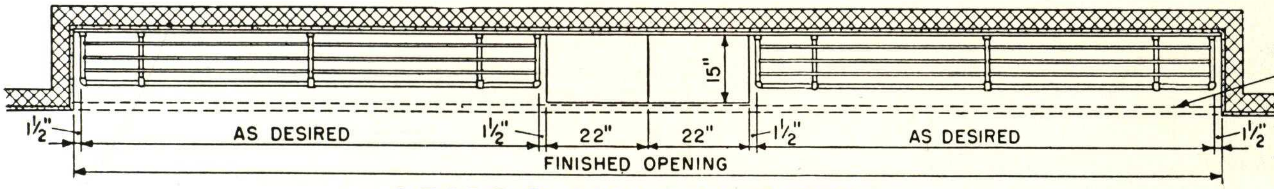
Where shelves are required to fit into prepared recesses or between walls, allow 1½″ at each end for flanges.

CURTAIN CLASSROOM WARDROBES



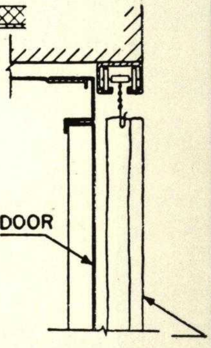


SECT. B-B



ARNCO WARDROBES

Arnco curtain classroom wardrobes offer economical yet efficient wardrobe equipment. Both arrangement and capacity are entirely flexible. Aluminum shelves and hook strips may be divided as shown, for boys on one side, girls on the other, or continuous with cabinets located at ends. Cabinets may be eliminated if desired. Track and curtains are optional but provide an attractive, flame-proof means of screening clothing. Curtains are 4" from floor to provide necessary ventilation.



SECT. A-A

SPECIFICATIONS

general • Wardrobes shall be Arnco curtain classroom wardrobes installed by contractor in recesses as shown on plans. Wardrobes to consist of aluminum coat and hat racks, steel supply cabinet, combination teacher's cabinet, aluminum track with carriers and vinyl coated fiberglas curtains.

coat and hat racks • To be constructed of 1" O.D. x .065 aluminum tubing frame, with forged aluminum fittings, ½" O.D. x .065 intermediate stringers, and 1½" x ½" x ⅛" extruded aluminum channel hook strip having double-prong hooks applied 6" on center.

teacher's closet • Cabinet to consist of 16 ga. door and frame, with three-point locking device and flat key lock; assembled to a 24 ga. body by means of slotless head bolts. Bottom of doors and base to have louvres; backs to be perforated. Cabinet to have center divider, one compartment having wall and ceiling hooks, the other four adjustable shelves. Available also in wood.

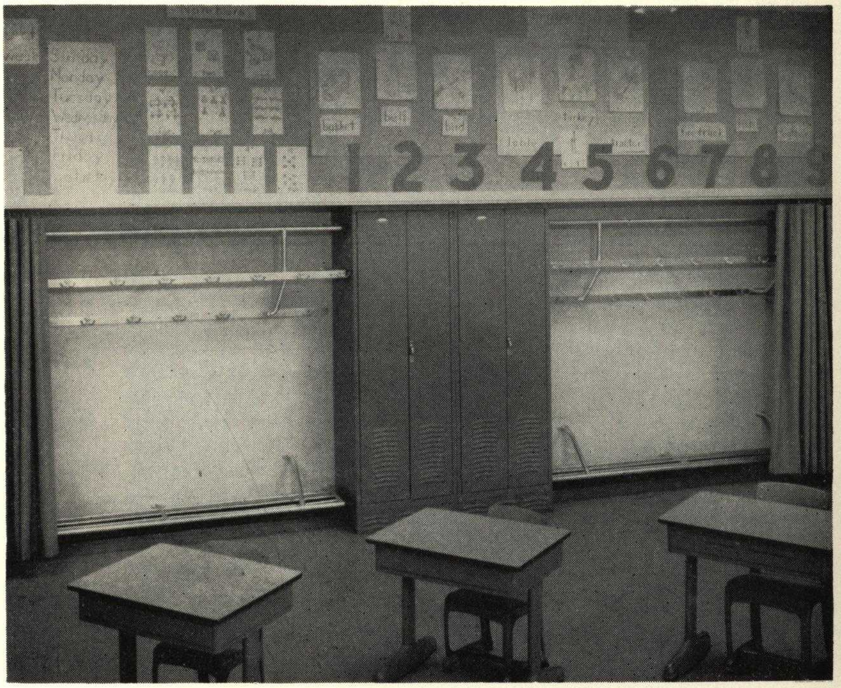
supply cabinets • To be as described above except to have one full width compartment with four adjustable shelves. Available also in wood.

track • To be specially designed extruded aluminum with raceways for two-wheel carriers.

curtains • To be vinyl coated fiberglas, flameproof, mildew proof, color fast, with rustproof grommets approximately 6" on center starting 2" from each end to provide overlap at meeting point. Color of curtains to be standard pastel shade as selected.

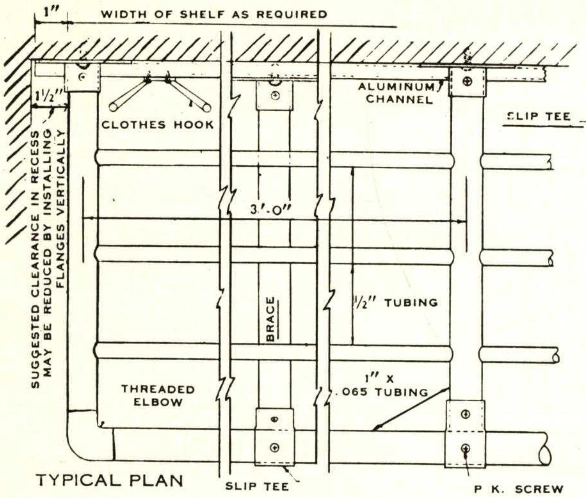
carriers • To consist of specially designed nylon axle and "non-contact" rollers, bead chain and hook; and to operate freely without drag or locking.

finish • All aluminum parts to be alumilited to provide permanent finish. Steel cabinets to have baked enamel finish in standard color as selected.

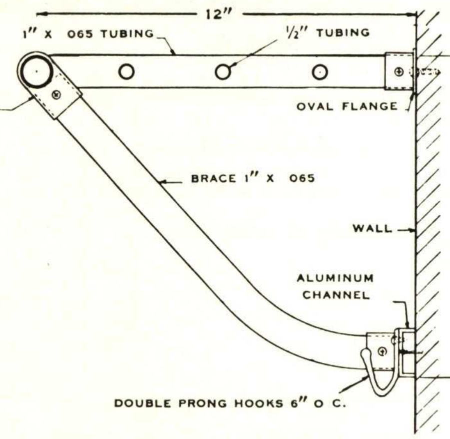


Curtain wardrobe showing optional overshoe rack, inverted style #100 with horizontal braces not more than 2 feet on centers.

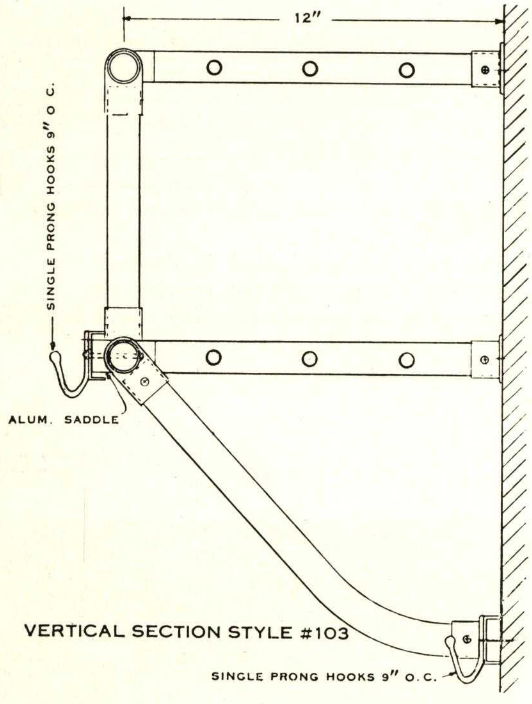
CONSTRUCTION DETAILS OF ALUMINUM COAT & HAT RACKS


1"
WIDTH OF SHELF AS REQUIRED
1½"
SUGGESTED CLEARANCE IN RECESS MAY BE REDUCED BY INSTALLING FLANGES VERTICALLY
CLOTHES HOOK
ALUMINUM CHANNEL
SLIP TEE
3'-0"
BRACE
½" TUBING
THREADED ELBOW
1" x .065 TUBING
SLIP TEE
P. K. SCREW

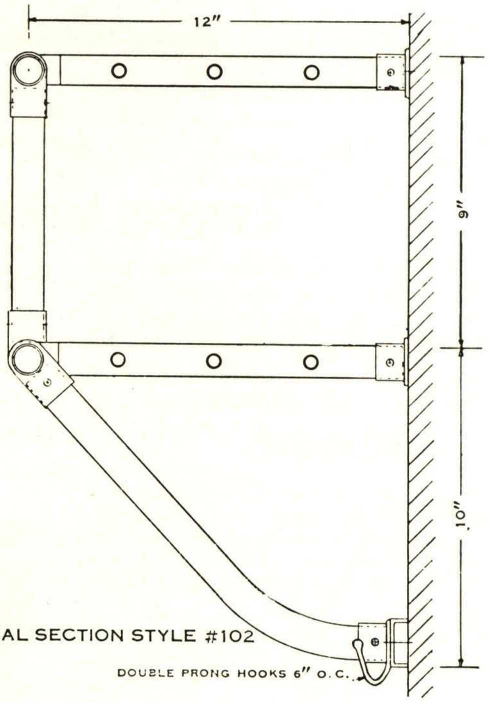
TYPICAL PLAN


12"
1" x .065 TUBING
½" TUBING
SLIP TEE
OVAL FLANGE
BRACE 1" x .065
WALL
10"
ALUMINUM CHANNEL
DOUBLE PRONG HOOKS 6" O C.

VERTICAL SECTION STYLE #101


12"
SINGLE PRONG HOOKS 9" O C.
ALUM. SADDLE
SINGLE PRONG HOOKS 9" O. C.

VERTICAL SECTION STYLE #103


12"
9"
10"
DOUBLE PRONG HOOKS 6" O. C.

VERTICAL SECTION STYLE #102

SPECIFICATIONS

Coat and hat racks to be ARNCO Style #.. as manufactured by A. R. Nelson Co., Inc., Long Island City, N. Y. Shelves to be 12" deep and of length as shown on plan. Shelves over 16'-0" in length to be supplied as two (or more) complete units to suit requirement. Shelves to be constructed of 1" O.D. x .065 6063-T832 aluminum tubular frame with three intermediate stringers of ½" x 0.58, reenforced with steel rod. Front corners to be formed by forged 90° aluminum elbows connecting tubing by means of concealed threads and presenting neat, smooth appearance. Wall fastenings to be concealed through forged oval flanges. Intermediate supports for ½" tubing to be 1" tubing spaced not more than 3'-0" on center. Intermediate supports to be connected to front member by means of forged, aluminum slip tees, and secured with oval head Phillips head screws.

Hook strips to be aluminum channel ½" x 1½" x ½" x ⅛" and to have single or double-prong hooks of durable Tenzaloy secured with screws 6" on center (9" staggered where two hook strips occur).

Hook strips used separately (without hat racks) furnished if desired, with coat and hat type hooks of Tenzaloy.

Brackets for all styles to be of same material as frame, to be secured to shelves with forged slip tees, and to hook strip or wall with oval flanges.

Adjustable double prong snap-on hooks to provide additional capacity, or used in place of hook strips.

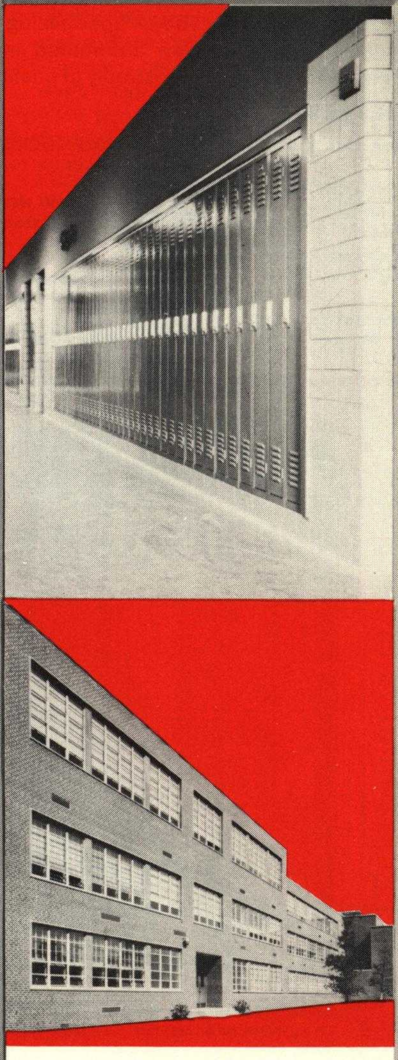
Vertical supports for multiple shelf styles to be 1" tubing connected to lower shelf and bracket with forged four-way aluminum fitting pesenting continuous vertical line.

Optional coat rod, adaptable to styles #100, #101 and #102, to be 1" O.D. x .065 tubing with closed ends and mounted on forged aluminum fittings to shelf brackets.

Finish to be permanent Alumilite over high polish.

ERECTION

Installation is simple and accomplished with ordinary tools. Apply wall flanges with 1/4" toggle bolts or rawl plugs and wood screws, depending on wall construction. Insert tubular parts and secure with Philips head screws (furnished) using #31 drill.



PIMLICO JUNIOR HIGH SCHOOL,
BALTIMORE, MARYLAND
TAYLOR AND FISHER, ARCHITECTS
COGSWELL CONSTRUCTION COMPANY
GENERAL CONTRACTORS

PENCO

LOCKERS •
CABINETS •
SHELVING •
BASKET-RACKS •
BOOK CASE UNITS •

PENCO
LOCKER EQUIPMENT

PENCO'S CREDENTIALS TO ARCHITECTS • ENGINEERS • BUILDERS

Manufacturer of quality metal products since 1869 • Specializing in industrial and institutional storage equipment • National sales and service • New automated multi-million dollar plant using latest improved techniques and processes • Dependable supply of quality steels furnished by parent company

OTHER STANDARD PENCO LOCKERS

DUAL LOCKER: Single-tier type with divider in clothing section.

16-PERSON LOCKER UNIT: Inverted "U" arrangement with external coat-hanging space. Minimum floor space. Individual flat key locks.

7-PERSON LOCKER UNIT: Seven box lockers and one coat locker. Individual flat key locks. All have access to coat locker.

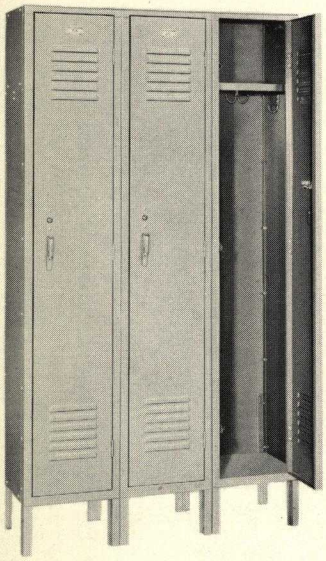
8-PERSON LOCKER UNIT: Eight box-type lockers and two coat lockers. Individual flat key locks, all with access to one coat locker.

GOLF LOCKER: Complete double-doored sportsman's locker for the golfer.

PACKING HOUSE LOCKER: Variation of single-tier locker to meet standards established by Bureau of Animal Industries.

SHIP LOCKERS: Made to U. S. Navy and Maritime Commission standards.

AIR-CONDITIONED LOCKERS: Forced air flow for continuous ventilation.

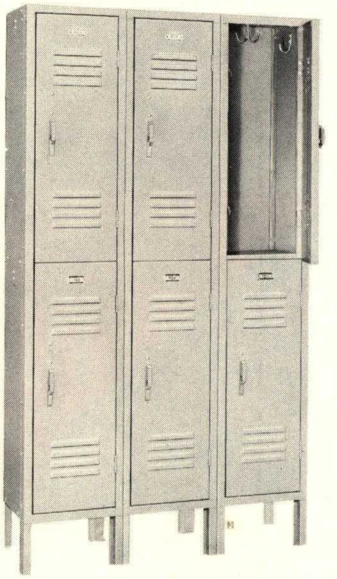


SINGLE TIER LOCKERS

Dimensions over-all in inches

Width	Depth	HEIGHT Flat Top No Legs	HEIGHT Sloping Top with 6'' Legs Front	HEIGHT Sloping Top with 6'' Legs Back	HEIGHT Flat Top with 6'' Legs
9	12	60/72	66/78	70/82	66/78
9	15	↓	↓	71/83	↓
9	18	↓	↓	72/84	↓
12	12	↓	↓	70/82	↓
12	15	↓	↓	71/83	↓
12	18	↓	↓	72/84	↓
12	21	↓	↓	73/85	↓
15	15	↓	↓	71/83	↓
15	18	↓	↓	72/84	↓
15	21	↓	↓	73/85	↓
18	18	↓	↓	72/84	↓
18	21	↓	↓	73/85	↓
18	24	↓	↓	74/86	↓
24	18	↓	↓	72/84	↓
24	21	↓	↓	73/85	↓
24	24	↓	↓	74/86	↓

By choice, the most popular model. Clothes hang full length. Lockers 18" or more in depth have coat rod for hangers—others have ceiling hooks and standard back and side hooks making extra use of space.

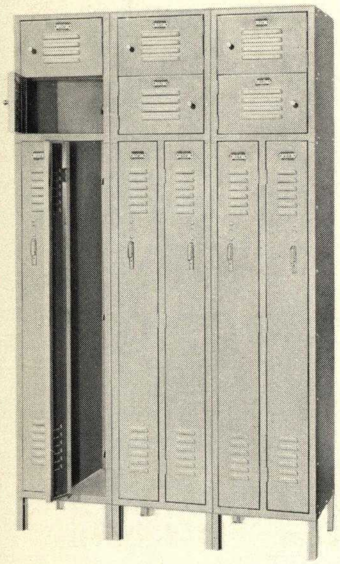


DOUBLE TIER LOCKERS

Dimensions over-all in inches

Width	Depth	Height per Opg.	Height of Double Opg. Sloping Top w/6'' Legs Front	Height of Double Opg. Sloping Top w/6'' Legs Back	Height of Double Opg. Flat Top w/6'' Legs
9	12	30	66	70	66
9	15	↓	↓	71	↓
9	18	↓	↓	72	↓
12	12	↓	↓	70	↓
12	15	↓	↓	71	↓
12	18	↓	↓	72	↓
9	12	36	78	82	78
9	15	↓	↓	83	↓
9	18	↓	↓	84	↓
12	12	↓	↓	82	↓
12	15	↓	↓	83	↓
12	18	↓	↓	84	↓
15	15	↓	↓	83	↓
15	18	↓	↓	84	↓
12	12	42	90	94	90
12	15	↓	↓	95	↓
12	18	↓	↓	96	↓
15	15	↓	↓	95	↓
15	18	↓	↓	96	↓

Where clothes need not hang full length, space-saving individual lockers offer complete privacy. Three single and one double-prong hooks and automatic prelocking device provide ideal arrangement.

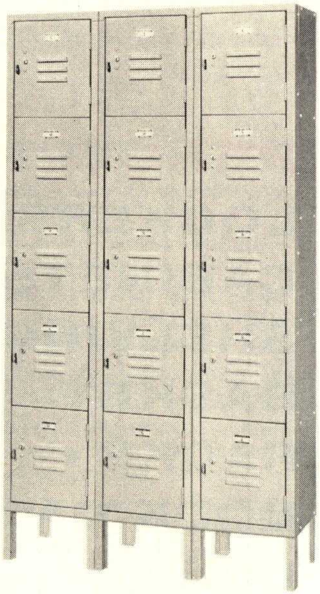


TWO PERSON LOCKER UNIT

Dimensions over-all in inches

Width	Depth	Flat Top No Legs	Height Sloping Top 6'' Legs Front	Height Sloping Top 6'' Legs Back	Flat Top 6'' Legs
15	15	72	78	83	78
15	18	72	78	83	78
15	21	72	78	83	78
18	21	72	78	84	78

Doubles the functional efficiency in the same or less floor space. Each unit composed of interlocking hat and coat lockers. Lower lockers allow coat to hang full length. Automatic prelocking advantage.



MULTIPLE TIER LOCKERS

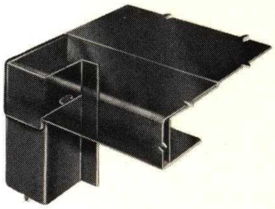
Dimensions over-all in inches

No. of Openings	Width	Depth	Height Per Opg.	Height Sloping Top with 6''legs Front	Height Sloping Top with 6''legs Back	Height Flat Top with 6'' legs
3	9	12	20	66	70	66
3	9	15	20	↓	71	↓
3	9	18	20	↓	72	↓
3	12	12	20	↓	70	↓
3	12	15	20	↓	71	↓
3	12	18	20	↓	72	↓
3	9	12	24	78	82	78
3	9	15	24	↓	83	↓
3	9	18	24	↓	84	↓
3	12	12	24	↓	82	↓
3	12	15	24	↓	83	↓
3	12	18	24	↓	84	↓
4	12	12	15	66	70	66
4	12	15	15	↓	71	↓
4	12	18	15	↓	72	↓
4	15	15	15	↓	71	↓
4	15	18	15	↓	72	↓
4	18	18	15	↓	72	↓
5	12	12	12	66	70	66
5	12	15	12	↓	71	↓
5	12	18	12	↓	72	↓
5	15	15	12	↓	71	↓
5	15	18	12	↓	72	↓
5	18	18	12	↓	72	↓
5	15	15	$14\frac{2}{5}$	78	83	78
5	15	18	$14\frac{2}{5}$	↓	84	↓
5	15	21	$14\frac{2}{5}$	↓	85	↓
6	12	12	12	78	82	78
6	12	15	12	↓	83	↓
6	12	18	12	↓	84	↓
6	15	15	12	↓	83	↓
6	15	18	12	↓	84	↓
6	18	18	12	↓	84	↓

Keeps sports equipment, lunches, books, etc., safe. Specify 3 to 6 units high—any number wide. Can be used in battery with single or double-tier lockers.

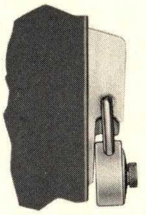
DOOR FRAME

Intermembering of top and sides of frame maintains true rectangular door shape—resists twisting, provides full strength for the life of the unit.



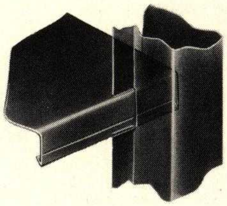
DOOR HANDLE

Internal lifting piece operates latching bar. Fixed handle acts as guard—provides opening for padlock which loops through handle and lifting piece. Handle guards locker finish.



INTERMEDIATE TIER HEAD

Intermediate tier head (horizontal shelf) between multiple-tier locker openings extends through vertical frame members for maximum strength. Single line door joint adds beauty.

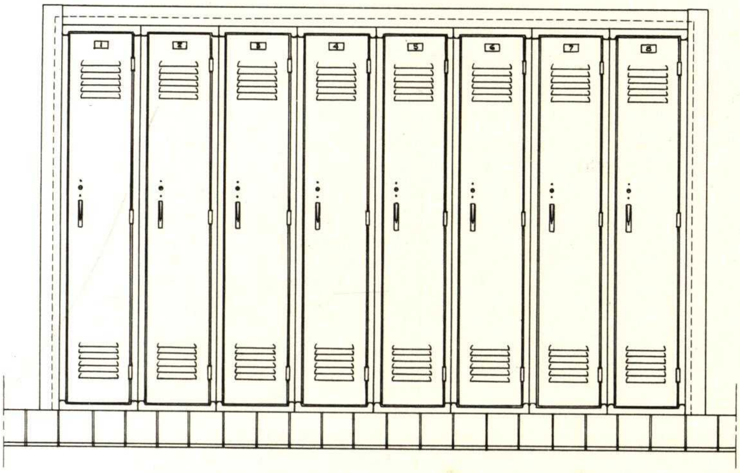


PENCO
PHOSPHATIZED

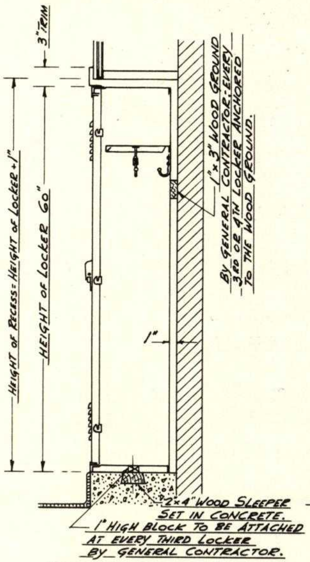
PHOSPHATE UNDERCOAT

Penco's complete pre-enameling phosphating process protects against rust, stops spread of corrosion, grips paint for durable finish.

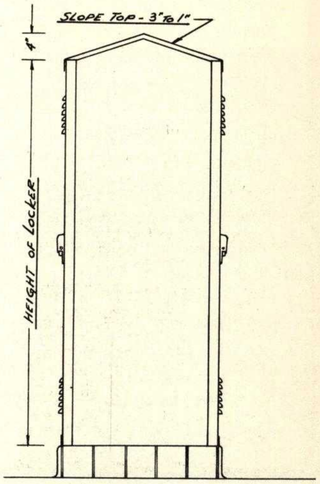
RECESSED LOCKER INSTALLATION



FRONT ELEVATION OF 8 - 12"×12"×60" RECESSED LOCKERS.

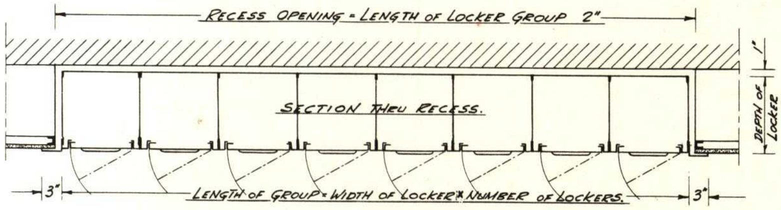

3" TRIM
HEIGHT OF RECESS=HEIGHT OF LOCKER+1"
HEIGHT OF LOCKER 60"
1"×3" WOOD GROUND BY GENERAL CONTRACTOR: EVERY 3RD OR 4TH LOCKER ANCHORED TO THE WOOD GROUND.
1"
2×4" WOOD SLEEPER SET IN CONCRETE.
1" HIGH BLOCK TO BE ATTACHED AT EVERY THIRD LOCKER BY GENERAL CONTRACTOR.

SIDE ELEVATION.

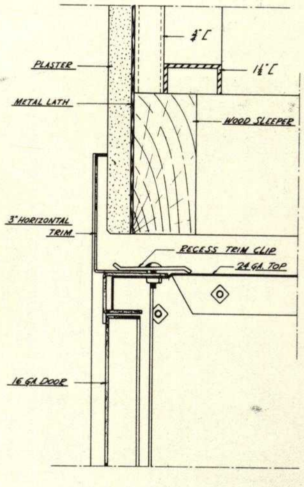

SLOPE TOP - 3" TO 1"
4"
HEIGHT OF LOCKER

DOUBLE ROW OR BACK TO BACK SINGLE TIER WITH COMMON BACK SHOWN.

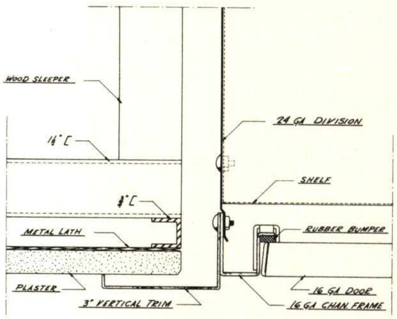
END ELEVATION.


RECESS OPENING = LENGTH OF LOCKER GROUP 2"
SECTION THRU RECESS.
1"
DEPTH OF LOCKER
3"
LENGTH OF GROUP = WIDTH OF LOCKER × NUMBER OF LOCKERS.
3"

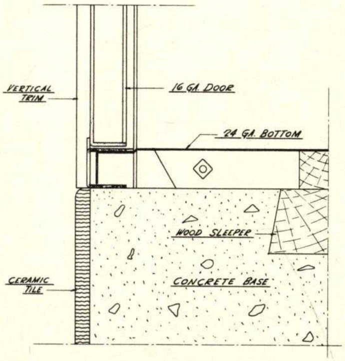
PLAN SECTION.


¾" [
1½" [
PLASTER
METAL LATH
WOOD SLEEPER
3" HORIZONTAL TRIM
RECESS TRIM CLIP
24 GA. TOP
16 GA DOOR

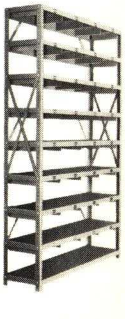
SECTION THROUGH TOP TRIM.

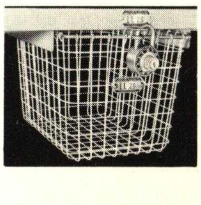

WOOD SLEEPER
1½" [
24 GA DIVISION
SHELF
¾" [
METAL LATH
RUBBER BUMPER
PLASTER
3" VERTICAL TRIM
16 GA DOOR
16 GA CHAN. FRAME

VERTICAL SECTION.


VERTICAL TRIM
16 GA. DOOR
24 GA. BOTTOM
WOOD SLEEPER
CERAMIC TILE
CONCRETE BASE

SECTION THROUGH LOCKER BASE.





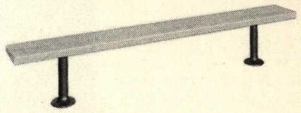
BASKET RACKS

Used single or double faced. Basket openings have number plate and padlock hasp. Uprights 13 ga., shelves and dividers 20 ga. Basket's bottom and vertical wires 13 ga., horizontal wires 15 ga. Hot dipped tin finish. (1″ mesh.)

BASKET RACKS

RACK SIZE 40″ w. 13½″ d.	Baskets 9″ w. x 13″ d. x 8″ h. (4 per shelf)		Baskets 12″ w. x 13″ d. x 8″ h. (3 per shelf)	
	Cat. No.	Capacity	Cat. No.	Capacity
73″ high	1591	28	1581	21
83″ high	1593	32	1583	24
93″ high	1595	36	1585	27

LOCKER ROOM BENCH



Hardwood seat 9½″ wide x 1¼″ thick. Maximum length 12′. Pedestals finished to match lockers. Overall height 18″.

PENCO STEEL LOCKER SPECIFICATIONS

MATERIAL—Locker body parts to be made from mild cold rolled sheet steel free from surface imperfections and capable of taking a high-grade enamel finish.

FINISH—All parts to be thoroughly cleaned before painting and given a bonding and rust resisting phosphate undercoat followed by one coat of high-grade enamel sprayed on by electrostatic method. Enamel to be baked on with the proper temperature-time relationship to insure thorough curing and a tough durable finish. Color to be selected by the architect. Hardware to be cadmium plated.

DOOR FRAME—All door frame members to be not less than 16 gauge formed to a channel shape. Vertical members to have an additional flange to provide a continuous door strike. Intermembering parts to be electrically welded together in a rigid assembly capable of resisting strains.

DOORS—To be of one piece 16 gauge suitably flanged on all four edges to provide adequate strength and stiffness. Single-tier and double-tier locker doors to have channel formation on vertical edges.

LOCKING DEVICE—Doors to have locking device engaging the door frame at three points on single-tier, two points on double-tier, and single point only on multiple-tier lockers. Locking device to be positive automatic type, whereby locker door may be locked when open, then closed without unlocking. Rubber bumpers to be securely attached to door strike and top and bottom of latching bar to provide for quiet operation of door.

Multiple-tier locker doors to have suitable provision for locking by means of padlock or built-in spring bolt lock as required.

VENTILATION—Louvers to be provided at top and bottom of doors in groups of 6 louvers for single-tier, 4 louvers for double-tier, and 3 louvers for triple-tier lockers. Multiple-tier lockers to have one group of 3 louvers at center of door.

DOOR HANDLE—To be a zinc alloy die casting, chromium plated. Handle to have internal lifting piece operated by finger pressure to release locking bar. Padlock eye to be an integral part of handle and to be so located that extension of handle forms a padlock strike to prevent marring face of locker.

NUMBER PLATES—Each locker opening to be supplied with polished aluminum number plate 2¼″ wide x 1″ high, with black etched numerals not less than ⅜″ high. Plates to be attached to front of door with split rivets.

HINGES—.050″ thick full loop tight pin five knuckle hinges 2″ high, projection welded to door frame and bolted to door with two bolts to each hinge. Single-tier locker doors to have 3 hinges. Double-tier and multiple-tier doors to have 2 hinges.

BODY—Locker sides, backs, tops, bottoms, and shelves to be 24 gauge with edges suitably formed to provide a rigid assembly when bolted together. Spacing of bolts in locker body construction not to exceed 9″.

INTERIOR EQUIPMENT—Single-tier lockers to have hat shelf located approximately 9″ below top of locker. Double-tier lockers to be furnished without hat shelf. Single-tier lockers less than 18″ deep to have 3 single-prong wall hooks and one double-prong ceiling hook. Single-tier lockers 18″ or more in depth to have coat hanger rod instead of ceiling hook. Double-tier lockers to have 3 single-prong wall hooks and one double-prong ceiling hook. Hooks to be round tip, cadmium plated, attached with two bolts per hook.

RECESS TRIM—For recessed lockers where shown on drawings or schedules, or specified elsewhere, provide 18 gauge trim to close space between tops and sides of lockers and adjacent walls. Trim to be 3″ wide suitably formed to provide for attachment to lockers and to scribe to wall in concealed manner. All necessary clips, splice plates and hardware to be furnished as required.

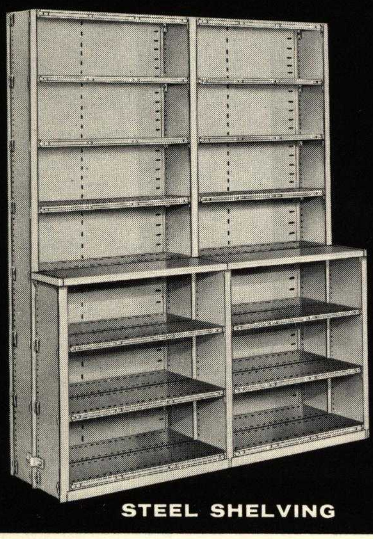
LOCKS

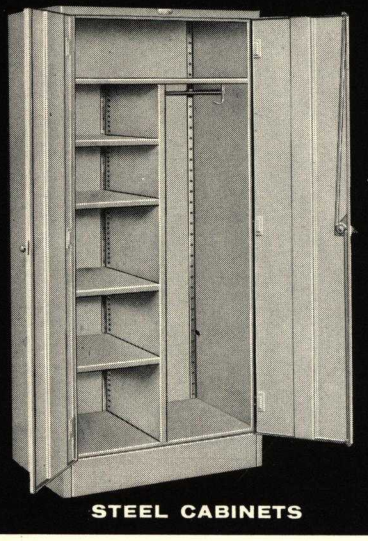
Penco lockers may be equipped with standard master keyed built-in locks, key operated or combination, or with padlocks. Specifications should state type of lock required. Lockers are furnished without locks unless otherwise specified.

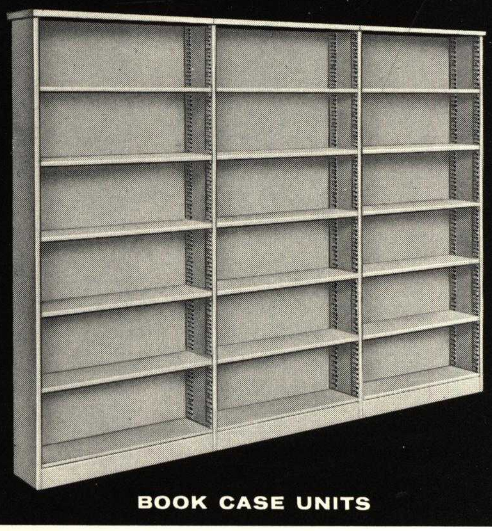
COLOR

For lockers furnished in new school construction, architects may choose from a wide variety of cheerful and attractive colors . . . each a full quality baked enamel finish over Penco's rust-resistant phosphate base. Ask for color chart SF. No obligation.

OTHER PENCO STEEL EQUIPMENT


STEEL SHELVING


STEEL CABINETS


BOOK CASE UNITS

ALAN WOOD STEEL COMPANY
PENCO DIVISION
500 Brower Avenue, Oaks, Penna.
Telephone GLendale 2-2271

5M-9271-559-R

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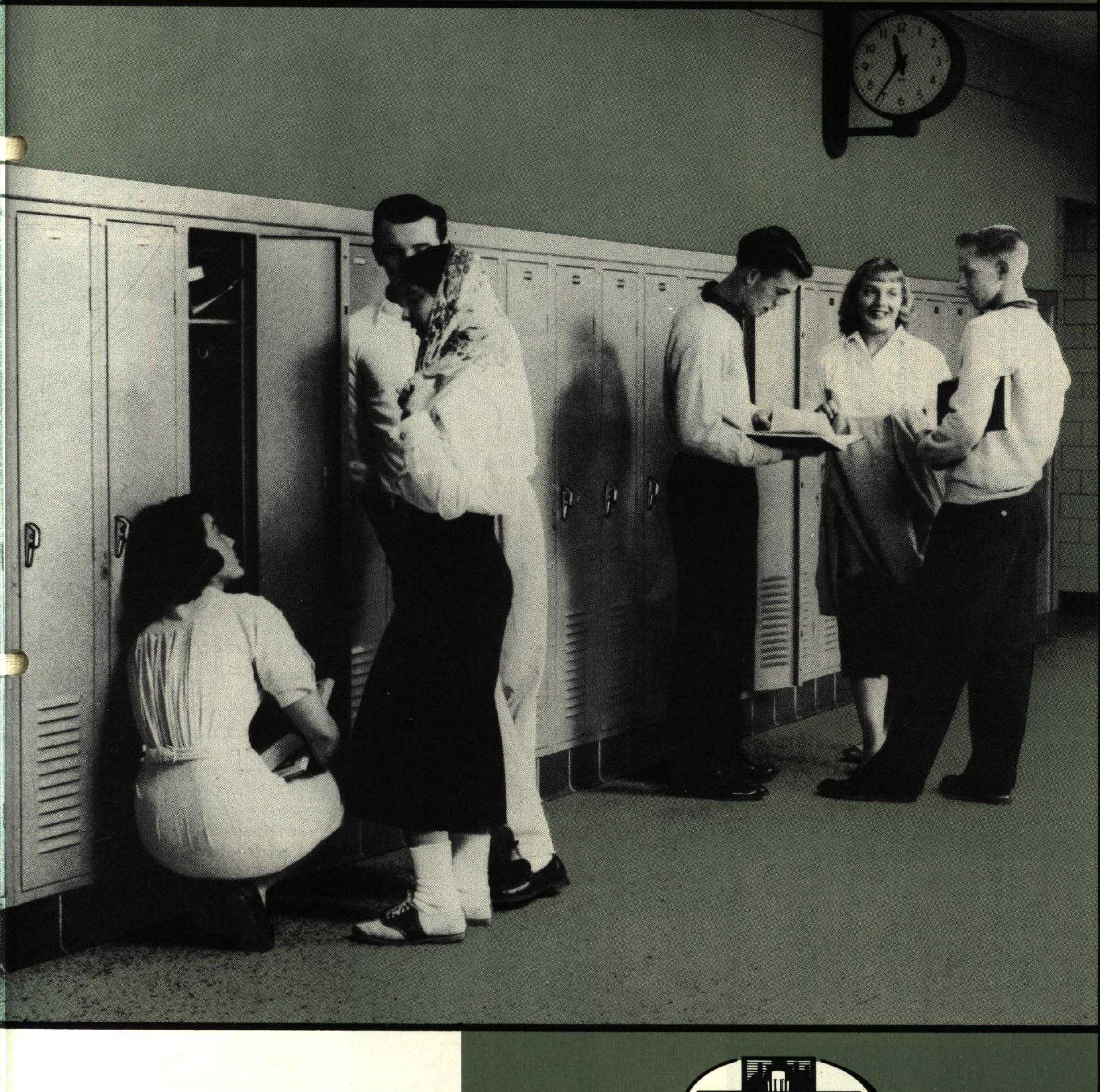
Re

BONDERIZED

REPUBLIC
Steel Lockers
by BERGER



For
Schools
Industry
Gymnasiums
Institutions
Clubs
Stores

REPUBLIC
STEEL

BONDERIZED

REPUBLIC STEEL CORPORATION
Berger Division • Canton 5, Ohio

Republic Steel Lockers by BERGER....

SINGLE TIER LOCKERS—TYPES SS, FS & VLS

Size of Locker			Height Over-all with 6″ Legs		
Width Over-all	Depth Over-all	Height Top to Bottom	Flat Top	Sloping Top Front	Sloping Top Back
9″	12″	60″	66″	66″	72″
9″	15″	60″	66″	66″	73½″
9″	18″	60″	66″	66″	75″
12″	12″	60″	66″	66″	72″
12″	15″	60″	66″	66″	73½″
12″	18″	60″	66″	66″	75″
12″	21″	60″	66″	66″	76½″
15″	15″	60″	66″	66″	73½″
15″	18″	60″	66″	66″	75″
15″	21″	60″	66″	66″	76½″
18″	18″	60″	66″	66″	75″
18″	21″	60″	66″	66″	76½″
18″	24″	60″	66″	66″	78″
*24″	18″	60″	66″	66″	75″
*24″	21″	60″	66″	66″	77½″
*24″	24″	60″	66″	66″	78″
9″	12″	72″	78″	78″	84″
9″	15″	72″	78″	78″	85½″
9″	18″	72″	78″	78″	87″
12″	12″	72″	78″	78″	84″
12″	15″	72″	78″	78″	85½″
12″	18″	72″	78″	78″	87″
12″	21″	72″	78″	78″	88½″
15″	15″	72″	78″	78″	85½″
15″	18″	72″	78″	78″	87″
15″	21″	72″	78″	78″	88½″
18″	18″	72″	78″	78″	87″
18″	21″	72″	78″	78″	88½″
18″	24″	72″	78″	78″	90″
*24″	18″	72″	78″	78″	87″
*24″	21″	72″	78″	78″	88½″
*24″	24″	72″	78″	78″	90″

*Furnished with double doors.

DOUBLE TIER LOCKERS—TYPES SD & FD

Size of Locker			Height Over-all with 6″ Legs		
Width Over-all	Depth Over-all	Height Top to Bottom	Flat Top	Sloping Top Front	Sloping Top Back
9″	12″	30″	66″	66″	72″
9″	15″	30″	66″	66″	73½″
9″	18″	30″	66″	66″	75″
12″	12″	30″	66″	66″	72″
12″	15″	30″	66″	66″	73½″
12″	18″	30″	66″	66″	75″
9″	12″	36″	78″	78″	84″
9″	15″	36″	78″	78″	85½″
9″	18″	36″	78″	78″	87″
12″	12″	36″	78″	78″	84″
12″	15″	36″	78″	78″	85½″
12″	18″	36″	78″	78″	87″
15″	15″	36″	78″	78″	85½″
15″	18″	36″	78″	78″	87″
12″	12″	42″	90″	90″	96″
12″	15″	42″	90″	90″	97½″
12″	18″	42″	90″	90″	99″
15″	15″	42″	90″	90″	97½″
15″	18″	42″	90″	90″	99″

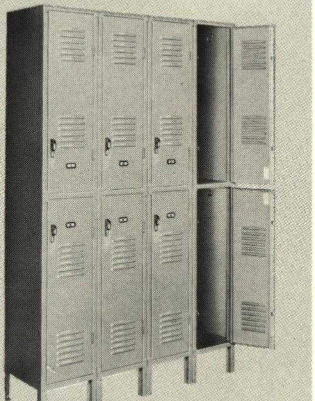
TWO PERSON LOCKERS—TYPE TPL

Size of Locker			Height Over-all with 6″ Legs		
Width Over-all	Depth Over-all	Height Top to Bottom	Flat Top	Sloping Top Front	Sloping Top Back
15″	15″	72″	78″	78″	85½″
15″	18″	72″	78″	78″	87″
15″	21″	72″	78″	78″	88½″
18″	21″	72″	78″	78″	88½″

Type VLS . . . VisuaLocker, Single Tier—Provides good visibility of locker contents, excellent ventilation, and adequate security. VisuaLocker Door can be furnished with any standard type of Republic Steel Locker.

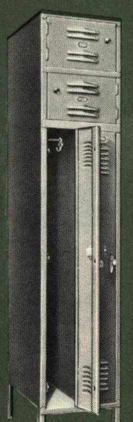
Type SS . . . Single Tier Locker, Standard Louvers—This popular locker has ample height for street-clothes storage, roomy hat shelf, coat hooks, number plate and padlock attachment. May be equipped with padlock, built-in key or combination lock, or "Republic Key Control".

Type FS . . . Single Tier Locker, Full-Louvered Door—Louvers all the way down door provide extra ventilation. Otherwise, identical with Type SS.



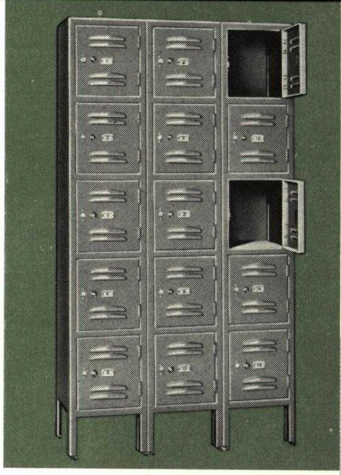
Type SD . . . Double Tier Locker, Standard Louvers—Recommended for locations where locker space is limited. Doubles lockers per square foot when compared with Type SS. Has coat hooks, number plate, padlock attachment. May be equipped with padlock, built-in key or combination lock, or "Republic Key Control".

Type FD . . . Double Tier Locker, Full-Louvered Door — Louvers all the way down doors provide extra ventilation. Otherwise identical with type SD.



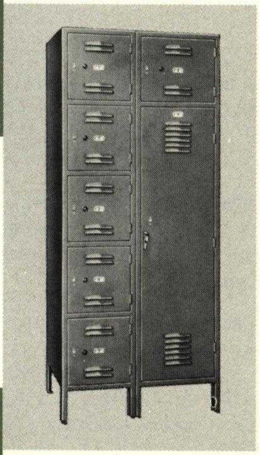
Type TPL . . . Two Person Locker—Private compartments for two persons, in floor area required for one single tier Type SS locker. Large doors lock individually. Lower doors control locking of individual hat compartments. Equipped with either coat-hanger rod or coat hooks.

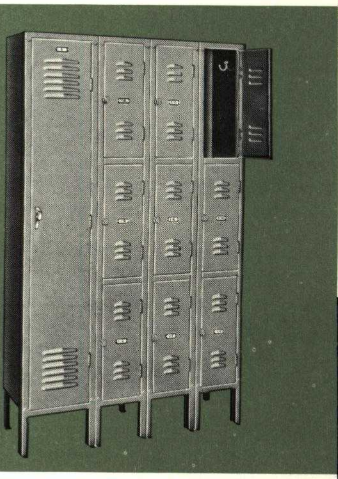
. . Preferred by Architects, Builders, and Owners for 70 Years



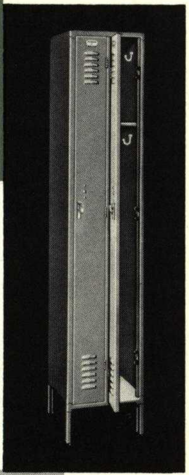
Type S . . . Box Locker—Each locker section contains five storage compartments. Popular in warmer climates where street-clothing storage is seldom needed. Available with padlock clips, built-in flat key lock or combination lock.

Type G . . . Combination Locker—Gives most lockers per square foot. Small compartments for personal belongings. Large compartment for joint use. Two different sizes provide locker space for six or seven persons.

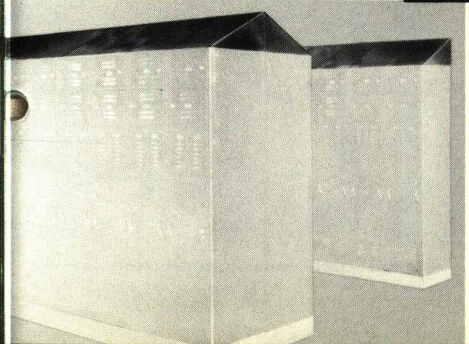




Type GL . . . Gymnasium Locker—One single tier locker and three, six, nine or twelve triple tier lockers. Small locker permanently assigned to each person. Large locker for joint use.



Type DL . . . Duplex Locker—Designed to conserve floor space. Contains two full-length lockers in a 15-inch-wide frame. Each locker is 7½ inches wide.



Sloping Tops . . . help keep locker rooms neat and orderly, are easy to clean, and eliminate clutter of odds and ends stored on tops. Available on all Republic Steel Lockers.

BOX LOCKERS—TYPE S

Size of Locker			Height Over-all with 6″ Legs		
				Sloping Top	
Width Over-all	Depth Over-all	Height Top to Bottom	Flat Top	Front	Back
5 or 6 Tier High					
			5 6	5 6	5 6
12″	12″	12″	66″-78″	66″-78″	72″ -84″
12″	15″	12″	66″-78″	66″-78″	73½″-85½″
12″	18″	12″	66″-78″	66″-78″	75″ -87″
15″	12″	12″	66″-78″	66″-78″	72″ -84″
15″	15″	12″	66″-78″	66″-78″	73½″-85½″
15″	18″	12″	66″-78″	66″-78″	75″ -87″
18″	12″	12″	66″-78″	66″-78″	72″ -84″
18″	18″	12″	66″-78″	66″-78″	75″ -87″
15″	15″	14⅖″	78″	78″	85½″
15″	18″	14⅖″	78″	78″	87″
15″	21″	14⅖″	78″	78″	88½″
4 Tier High					
12″	12″	15″	66″	66″	72″
12″	15″	15″	66″	66″	73½″
12″	18″	15″	66″	66″	75″
15″	12″	15″	66″	66″	72″
15″	15″	15″	66″	66″	73½″
15″	18″	15″	66″	66″	75″
15″	21″	15″	66″	66″	76½″
18″	15″	15″	66″	66″	73½″
18″	18″	15″	66″	66″	75″
3 Tier High					
9″	12″	20″	66″	66″	72″
9″	15″	20″	66″	66″	73½″
9″	18″	20″	66″	66″	75″
12″	12″	20″	66″	66″	72″
12″	15″	20″	66″	66″	73½″
12″	18″	20″	66″	66″	75″
9″	12″	24″	78″	78″	84″
9″	15″	24″	78″	78″	85½″
9″	18″	24″	78″	78″	87″
12″	12″	24″	78″	78″	84″
12″	15″	24″	78″	78″	85½″
12″	18″	24″	78″	78″	87″

COMBINATION LOCKERS—TYPES G AND GL

Size of Locker				Height Over-all with 6″ Legs		
					Sloping Top	
Width Over-all	Depth Over-all	Height Top to Bottom	No. of Compartments	Flat Top	Front	Back
15″	21″	15″	5 Small	78″	78″	88½″
18″	21″	15″	1 Small			
18″	21″	58″	1 Large			
15″	21″	12″	6 Small	78″	78″	88½″
21″	21″	12″	1 Small			
21″	21″	60″	1 Large			

DOUBLE DOOR LOCKERS—TYPE DL

Size of Locker					Height Over-all with 6″ Legs		
						Sloping Top	
Width Over-all		Depth Over-all		Height Top to Bottom	Flat Top	Front	Back
24″	x	18″	x	60″	66″	66″	75″
24″	x	21″	x	60″	66″	66″	76½″
24″	x	18″	x	72″	78″	78″	87″
24″	x	21″	x	72″	78″	78″	88½″
24″	x	24″	x	72″	78″	78″	90″

Standard Finishes—Neutral Green, Gray or Beige Enamel.

Legs are furnished with all lockers for free-standing installations. For recessed installations, lockers are furnished without legs.

Locker Groups to Meet Your Needs—Standard steel lockers may be grouped in various ways to meet your *exact requirements*. Republic's locker planning and engineering service includes recommendation of the right lockers for your needs, and assistance with installation details. Let Republic help solve your locker problems.

SPECIFICATIONS

Republic Steel Lockers

MATERIAL—Doors and door frames shall be made of cold rolled and leveled sheet steel. Other parts shall be made from mild cold rolled steel. All steel to be free from imperfections and capable of taking a high grade enamel finish.

DOORS—Shall be 16 gage steel, adequately flanged. Formations shall consist of two right angles at lock side of door; two right angles at hinge side, and one right angle formation at top and bottom. Triple tier lockers and box lockers shall have one right angle formation on all four sides. All flanges of single tier lockers shall be welded together at corners.

DOOR FRAMES—Shall be not less than 16 gage steel capable of taking high grade finish as balance of locker. All parts to be channel formation securely welded together. On double tier, triple tier and box locker construction a horizontal channel frame member shall be placed between all doors and securely welded to the upright channel frame member.

LOCKING DEVICE—Shall be a positive automatic type locking device of the pre-locking type, on all single tier and double tier lockers, whereby locker may be locked while door is open, then closed without unlocking and without damaging locking mechanism. Rubber silencers shall be provided at each latching lug and at top and bottom of latching bar. The silencers on the latching lugs shall be securely attached with rivets having the heads molded into the rubber. Latching bar shall be of channel formation and tamperproof. Handle shall be of the straight lift type, of unbreakable alloy, chromium plated. Handles shall have padlock attachment so that handle or latching device cannot be operated when padlock is affixed (unless hereinafter specified, locks are not included in these specifications). Handles shall be so designed to provide a padlock strike to prevent padlock marring finish on locker door. There shall be three locking points on single tier lockers, and two locking points on double tier lockers. Triple tier and box lockers shall not have pre-locking device or latching bar or handle.

NOTE: A spring actuated, one point, positive latching device is available when specified for all box lockers 3, 4, 5 and 6 tiers high. For this device the specifications should include the following description: "A spring actuated, one point, positive latching device shall be provided consisting of a latching keeper made of 12 gage steel, properly formed, and welded to the door frame. The latching mechanism shall be silenced with a live rubber silencer. The exposed portion of this mechanism shall have a padlock attachment. (Provision for built-in lock instead of padlock attachment can be made. If both padlock attachment and provision for built-in lock are required specifications should so state.)"

LOCKS—All lockers may be furnished with built-in master keyed flat key (grooved key or combination locks may be specified if desired) locks of standard manufacture with two keys for each lock. (Padlocks, either of flat key type or combination type may be specified.)

HINGES—Shall be at least 2″ wide of the full-loop, tight pin style, to be securely welded to frame and bolted to door with two bolts to each hinge. Locker doors 42″ high and less shall have two hinges. Doors over 42″ high shall have three hinges.

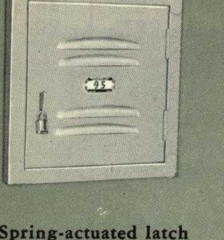
BODY—Body of locker shall be of 24 gage steel with necessary formations to make rigid locker and to insure tight joints between bolts. All bolts and nuts shall be zinc plated.

FINISH—Before enamel is applied, the surface of the steel shall be Bonderized to inhibit corrosion and increase the durability of the applied enamel. All parts shall then be finished with a heavy coat of No. 5 Willow Green enamel (No. 50 gray or No. 9 beige may be specified). Enamel shall be baked-on. Bolts and nuts shall be zinc plated.

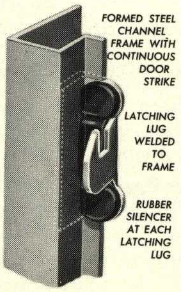
NUMBER PLATES—Each locker shall have a polished aluminum number plate with black background and etched aluminum numerals not less than ½″ high. Plates to be attached with split rivets.

EQUIPMENT—Single tier lockers shall have one hat shelf with rolled front, approximately 9″ below top of locker. Double tier lockers have no hat shelf. All single and double tier lockers shall have one double prong ceiling hook and at least one single prong wall hook on each side and back. All hooks shall have ball points, and shall be made of aluminum. All hooks shall be attached with two bolts.

VENTILATION—Doors shall be louvered at top and bottom for ventilation. Single tier and double tier lockers shall have 6 louvers at top and bottom; triple tier three louvers at top and bottom, and box lockers two louvers at top and bottom of doors.

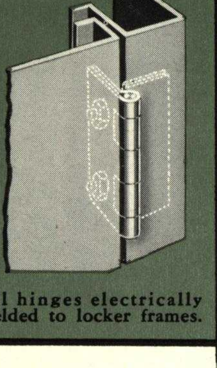


Spring-actuated latch available on box lockers.

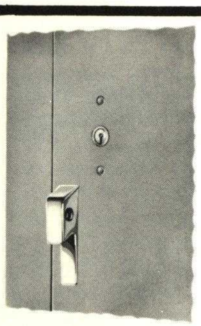

FORMED STEEL CHANNEL FRAME WITH CONTINUOUS DOOR STRIKE
LATCHING LUG WELDED TO FRAME
RUBBER SILENCER AT EACH LATCHING LUG

Sturdy latching lugs have tough, rubber silencers.

Padlock strike keeps lock from marring door finish.



All hinges electrically welded to locker frames.



Sturdy chrome-plated alloy handles.

How To Recess Lockers In Corridor Walls

Lockers are recessed in corridor walls in most new school buildings, so that only the faces of the lockers are visible . . . providing neater appearance, more usable floor space and preventing theft of entire locker.

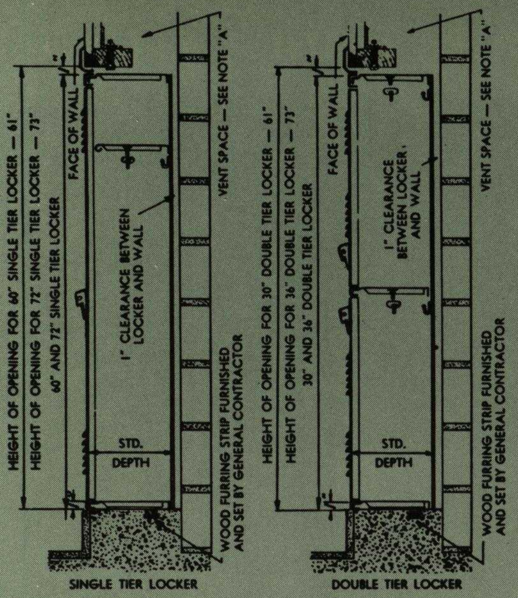
Opening Height for recessed lockers should be at least 1 inch greater than the over-all height of the locker without legs.

Recess Depth is to be 1 inch greater than locker depth.

Recess Width should be 2 inches greater than the over-all width of the total number of lockers in each group up to and including 32 lockers. For example, for six lockers which are 12″ wide by 12″ deep by 60″ high recessed in one group, the opening should be 74″ wide by 13″ deep by 61″ high.

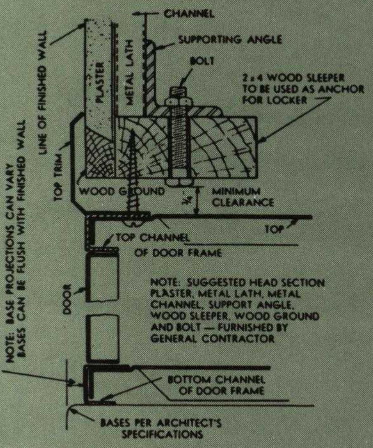
Recess Width — more than 32 lockers — When groups are more than 32 lockers wide, the recess width should be 3 inches greater than the over-all width of the total number of lockers.

Specifications — Metal Top and End Strips — Lockers are to be placed in recesses provided for them, and the locker contractor is to furnish steel recessing strips 3″ wide, to cover the gap at the ends and across the top of each locker section. Recessing strips to be not less than 18-gage finished to match lockers and with joint clips where top strips join, and caps where top and end strips join.


HEIGHT OF OPENING FOR 60" SINGLE TIER LOCKER — 61"
HEIGHT OF OPENING FOR 72" SINGLE TIER LOCKER — 73"
60" AND 72" SINGLE TIER LOCKER
FACE OF WALL
1" CLEARANCE BETWEEN LOCKER AND WALL
VENT SPACE — SEE NOTE "A"
STD. DEPTH
WOOD FURRING STRIP FURNISHED AND SET BY GENERAL CONTRACTOR
SINGLE TIER LOCKER
HEIGHT OF OPENING FOR 30" DOUBLE TIER LOCKER — 61"
HEIGHT OF OPENING FOR 36" DOUBLE TIER LOCKER — 73"
30" AND 36" DOUBLE TIER LOCKER
FACE OF WALL
1" CLEARANCE BETWEEN LOCKER, AND WALL
VENT SPACE — SEE NOTE "A"
STD. DEPTH
WOOD FURRING STRIP FURNISHED AND SET BY GENERAL CONTRACTOR
DOUBLE TIER LOCKER

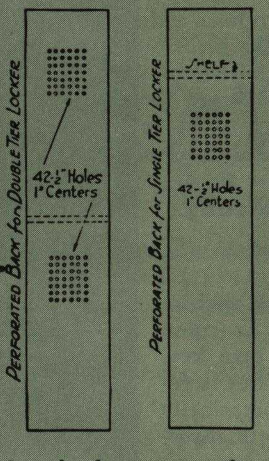
Sections above and at right show details of lockers recessed in walls, including top and side recessing trim.

Note A: When forced ventilation through the lockers is employed, this shows position of ventilating space.

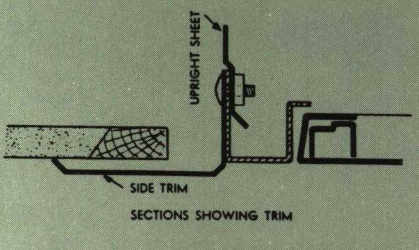

CHANNEL
SUPPORTING ANGLE
BOLT
2 x 4 WOOD SLEEPER TO BE USED AS ANCHOR FOR LOCKER
PLASTER
METAL LATH
LINE OF FINISHED WALL
TOP TRIM
WOOD GROUND
MINIMUM CLEARANCE
¾"
TOP
TOP CHANNEL OF DOOR FRAME
DOOR
NOTE: SUGGESTED HEAD SECTION PLASTER, METAL LATH, METAL CHANNEL, SUPPORT ANGLE, WOOD SLEEPER, WOOD GROUND AND BOLT — FURNISHED BY GENERAL CONTRACTOR
NOTE: BASE PROJECTIONS CAN VARY BASES CAN BE FLUSH WITH FINISHED WALL
BOTTOM CHANNEL OF DOOR FRAME
BASES PER ARCHITECT'S SPECIFICATIONS

Above: Head and base section showing top recessing trim.

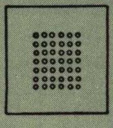
Below: Section showing side recessing trim.


Perforated Back for Double Tier Locker
42-½" Holes 1" Centers
Perforated Back for Single Tier Locker
Shelf
42-½" Holes 1" Centers

Standard group perforation furnished in back, top, bottom or shelf when specified. Consists of 42 holes ½″ in diameter on 1″ centers giving a clear perforated area of 8⅖ square inches. Same number of holes regardless of size of locker.

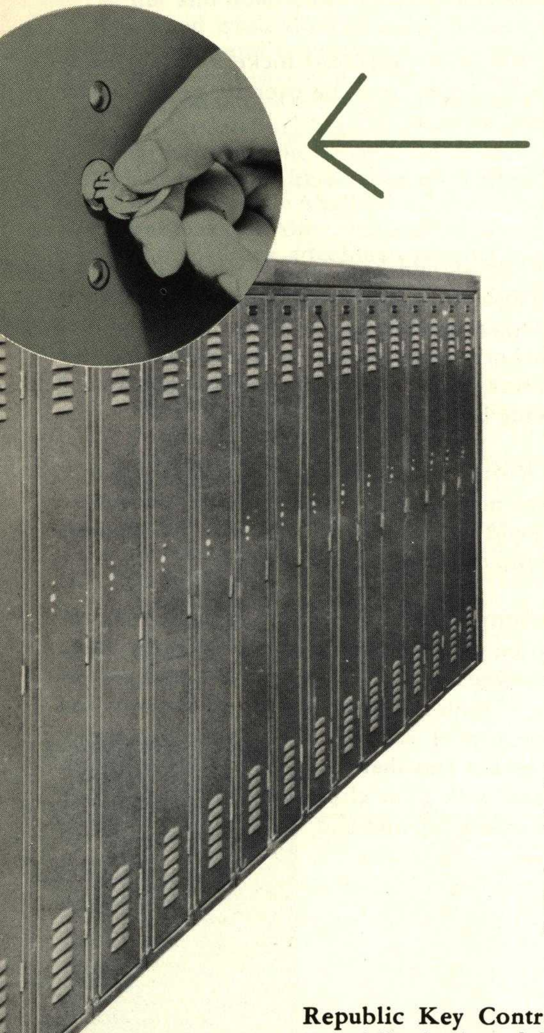

UPRIGHT SHEET
SIDE TRIM

SECTIONS SHOWING TRIM



Top—Bottom or Shelf Perforation

Republic Steel Double-Door Classroom Wardrobes by BERGER...



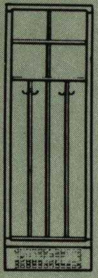
Republic Key Control Door Opens With A Key

. . . Locks Automatically When Closed!

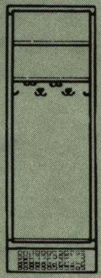
No handle needed on a Republic Key Control Locker. To open door, just insert and turn key. Door pre-locks when key is removed . . . locks automatically when closed. A full-length, three-point latching bar assures positive, pry-proof locking.

- **Provides Neat Flush Fronts** . . . by eliminating projecting handles on long lines of lockers.
- **Assures Full-Time Protection** . . . doors lock automatically when closed . . . no danger of people forgetting to lock them.
- **Eliminates Handle Maintenance** . . . that's both bothersome and costly.

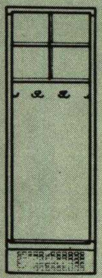
Republic Key Control is available on all Republic single and double tier lockers. Just include the phrase: "Republic Key Control" in your specifications, along with regular locker numbers.



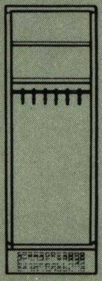
Type "A" Pupil's Wardrobe Unit



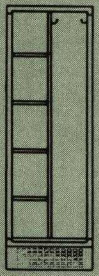
Type "B" Pupil's Wardrobe Unit



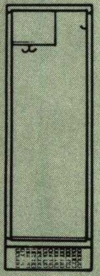
Type "C" Pupil's Wardrobe Unit



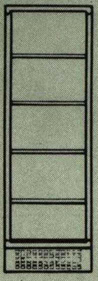
Type "D" Pupil's Wardrobe Unit



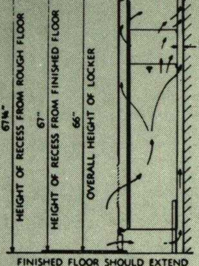
Combination Teacher's Cabinet



Teacher's Wardrobe



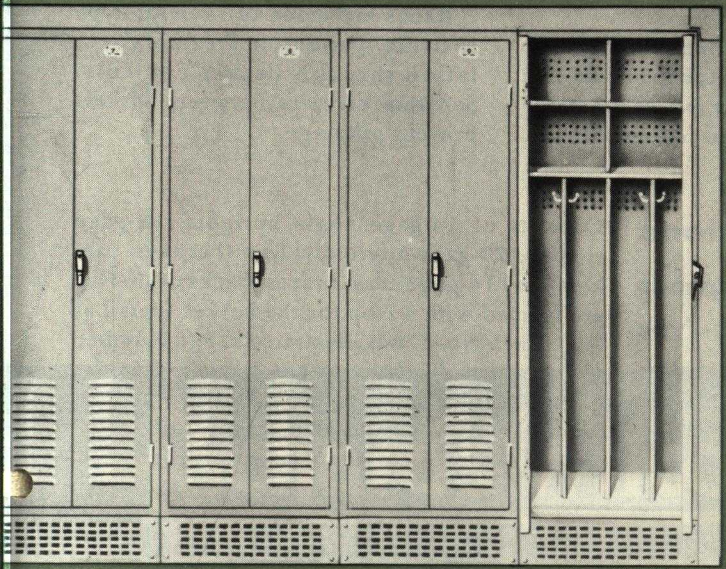
Book Case



17"
1⅜"
67⅝" HEIGHT OF RECESS FROM ROUGH FLOOR
67" HEIGHT OF RECESS FROM FINISHED FLOOR
66" OVERALL HEIGHT OF LOCKER

FINISHED FLOOR SHOULD EXTEND INTO RECESS ABOUT 2"

. . for Elementary Schools



Double-Door Classroom Wardrobes provide ample clothing space, free circulation of air, and teacher control of doors.

A wardrobe installation consists of a series of steel units each 22″ wide by 15″ deep by 66″ high. Any number of units may be erected in one assembly and controlled with one lock. The usual assembly consists of ten units, to accommodate a total of 40 pupils, plus a teacher's cabinet, teacher's wardrobe or bookcase, if desired. Different interior arrangements are shown on lower left page.

Double-Door Wardrobes are ventilated by door louvers. Perforating for forced system of ventilation will be furnished, unless otherwise specified. Grill bases are removable. If ventilation is not forced, doors can be louvered near top and bottom; no other perforated parts are required.

When teachers' wardrobes, cabinets or bookcases are wanted, they are furnished as shown below. Teacher units are the same dimensions as student units.

SPECIFICATIONS • REPUBLIC STEEL CLASSROOM WARDROBES

Furnish and install steel classroom wardrobes as shown on drawings, and of the following specifications. Each pupil's wardrobe, teacher's closet, bookcase, etc., shall be approximately 22″ wide, 15″ deep and 66″ high overall, with interior equipment consisting of (. . . here describe interior arrangement desired). Construction of wardrobes shall be on the unit principle, with all parts interchangeable.

DOORS—Shall be of 16-gage steel adequately flanged, formations consisting of two right angles at sides of door and one right angle at top and bottom. All flanges shall be welded together at corners.

DOOR FRAMES—Shall be 16-gage channels securely welded together.

LOCKING DEVICE—The opening and closing of wardrobe doors shall be individually accomplished. The control of the opening of the doors shall be in the hands of the teacher by means of a group locking device, operated by a control handle on the vertical frame member at the extreme end of the wardrobe assembly. Control handle shall be designed with padlock strike and equipped with padlock attachment (if desired, control mechanism can be equipped with built-in grooved key lock with two keys for each lock). Wardrobe doors shall have three latching points with latching mechanism of pre-locking type so that group locking device can be set with doors open, and doors closed without injury to latching mechanism, doors being automatically locked when closed. Rubber silencers shall be placed at each latching point and at top and bottom of latch bars.

HINGES—Shall be at least 2″ wide, of the full loop, tight pin style, to be securely welded to frame and bolted to doors. Each door shall have three hinges.

BODY—Of wardrobes shall be 24-gage steel with necessary formations for rigidity and tight joints between bolts. Bolts which hold sides to frame member and back flanges shall be spaced not over 9″ on centers. All bolts and nuts shall be zinc plated.

FINISH—Before enamel is applied, the surfaces of the steel shall be Bonderized to inhibit corrosion and increase the durability of the applied enamel. All parts shall then be finished with a heavy coat of No. 5 Willow Green enamel (No. 50 gray or No. 9 beige may be specified). Enamel shall be baked-on. Bolts and nuts shall be zinc plated.

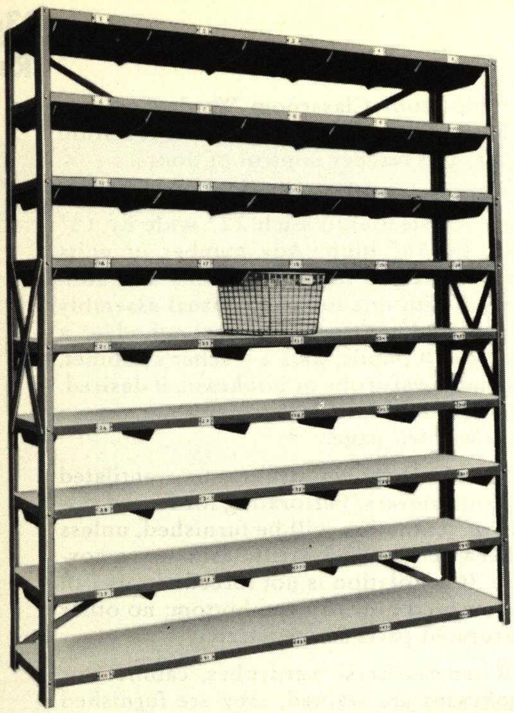
NUMBER PLATES—Each wardrobe shall have a polished aluminum number plate with aluminum background and etched black numerals. Plates to be attached with split rivets.

VENTILATION—Forced ventilation, specify 12 louvers at bottom of door, grill bases—P. W. perforated backs, shelves and tops—T. C. perforated back and top right side only—T. W. perforated hat shelf and top—B. C. not perforated.

INSTALLATION DIMENSIONS—CLASSROOM WARDROBES

No. of wardrobe units	Over-all dimensions of each unit	Over-all dimensions of each assembly	Over-all clear of recessed opening
8	22″W.x15″D.x66″H.	14′ 8″W.x15″D.x66″H.	14′ 10″W.x17″D.x67¾″H.
9	22″W.x15″D.x66″H.	16′ 6″W.x15″D.x66″H.	16′ 8″W.x17″D.x67¾″H.
10	22″W.x15″D.x66″H.	18′ 4″W.x15″D.x66″H.	18′ 6″W.x17″D.x67¾″H.
11	22″W.x15″D.x66″H.	20′ 2″W.x15″D.x66″H.	20′ 4″W.x17″D.x67¾″H.
12	22″W.x15″D.x66″H.	22′ 0″W.x15″D.x66″H.	22′ 2″W.x17″D.x67¾″H.

Add for teacher's wardrobe—1′ 10″ to over-all clear of recessed opening given above.
Add for teacher's cabinet—1′ 10″ to over-all clear of recessed opening given above.
Add for bookcase—1′ 10″ to over-all clear of recessed opening given above.



Republic Basket Racks

The Republic Basket System provides a convenient and economical way to store gymnasium clothing in schools and clubs.

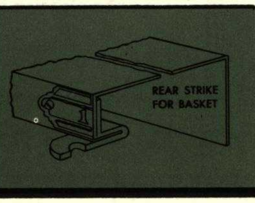
Each person is given a small basket just large enough for gym suit and shoes. Large locker is used for street clothing only when individual is in the gymnasium. Either self-service or attendant service may be used with Republic Basket Systems.

Racks are made of skeleton-type shelving, permitting free air circulation through basket contents. Separate dividers between baskets prevent pilferage.

Specifications

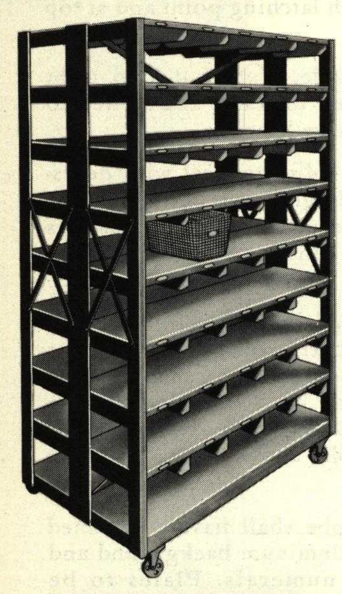
Republic Basket-Rack-Type Shelving

Consists of 14-gage angle uprights, 18-gage shelves, 20-gage angle dividers (between baskets) and 14-gage cross braces. Backs of shelves are formed with a stop for the basket (detail at left). Rack No. 478 is illustrated at left. Number plates and padlock loops are furnished on the face of each shelf. Republic Racks are built in sections which may be placed back to back or end to end to form any desired arrangement.



Rack No.	Size			Basket Capacity			Basket Size		
	Width	Depth	Height	Horiz.	Vert.	Total	Width	Depth	Height
478	63⅝″	13⅜″	77½″	5	8	40	12″	13″	8″
479	58″	13⅜″	77½″	6	8	48	9″	13″	8″
480	48⅝″	13⅜″	77½″	5	8	40	9″	13″	8″
481	51⅜″	13⅜″	77½″	4	8	32	12″	13″	8″

Republic Basket Trucks



Two standard basket rack sections bolted together and mounted on caster base with 3″ wheels, to expedite handling of wire baskets. Cross braced for extra rigidity.

Number Plates and dividers are furnished . . . also padlock loops if desired.

Standard Finishes: Neutral Green, Gray or Beige.

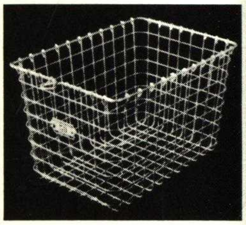
Baskets to fit Republic Racks are made of 16-gage wire, welded at all intersections in 1″ square mesh. Number plates and padlock loops are furnished.

Truck No.	Rack No.	Basket Capacity	Basket Size		
			Width	Depth	Height
646	480 Double Faced	80	9″	13″	8″
636	481 Double Faced	64	12″	13″	8″

Republic Baskets

Reinforced Corners—14-gage steel wire, cadmium plated. 6-gage top frame. Corners reinforced with steel stampings. 1″ square mesh welded at all intersections. Number plates can be riveted below padlock loop.

Non-Reinforced Corners—Bottom and vertical sides made of No. 13 wire; horizontal sides of No. 15. Ends of wires are wrapped around and electrically welded to top rim of No. 6 wire. Hot-dip tinned finish with aluminum number plates.



REPUBLIC STEEL CORPORATION

Berger Division • Canton 5, Ohio

Manufacturers of Steel Cabinets • Lockers • Shelving • Files • Storage Cabinets • Transfer Cases • Bookshelf Units • Special Steel Products • Steel Building Products and Metal Lath

Form No. EL-2057 Rev. 9/59

Printed in U.S.A.

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23d
Ri

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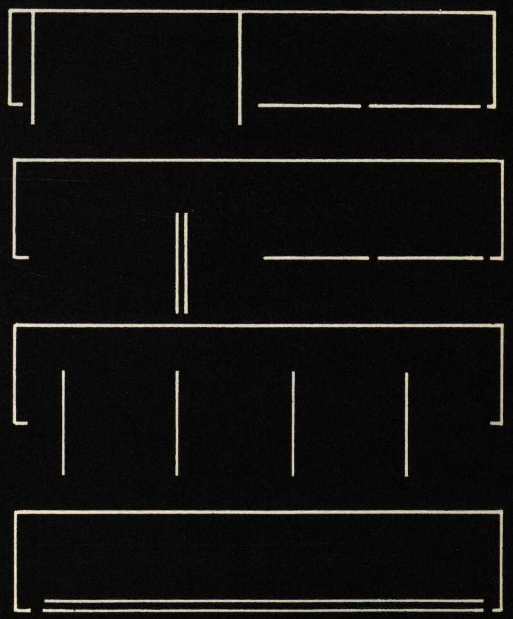
In-a-Wall®

CLASSROOM WARDROBES

steel · wood · aluminum



doors operate individually

doors operate in pairs

multiple operating doors

vertical lift doors

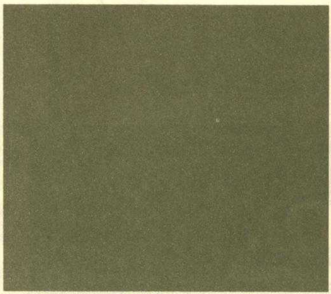
RICHARDS-WILCOX
Manufacturing Company
AURORA, ILLINOIS

R. W.

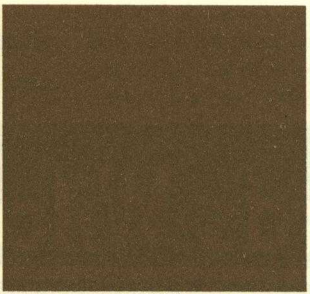
Richards-Wilcox

available in 3 standard colors

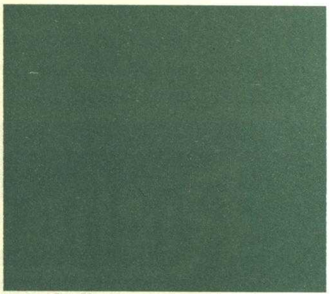
New steel classroom wardrobes can harmonize with surrounding interior decorations. Wardrobes are available in three standard baked enamel colors . . . . mist gray, desert sand and sea shell green. For individual painting on the job a prime coat is furnished. This prime coat (No. 101) is a neutral shade, providing a good base for modern pastel colors. Facilities for factory painting of other colors are also available at slight extra cost.



mist gray (202)



desert sand (303)



sea shell green (404)

785

DOORS OPERATE INDIVIDUALLY

The Richards-Wilcox "In-A-Wall" wardrobe is designed and engineered to give functional beauty, modern color harmony and flexibility of arrangement. A single pupil's wardrobe may be provided with 3, 4, 5, or 6 individually operated doors.

Each door is supported on a single heavy duty, full height ball bearing floor pivot assembly, with 1″ solid steel connecting rod extending from floor to head jamb. Standard operating equipment includes floor pivot assembly, top guide and track, with bow handles.

Since no floor tracks or protruding arms are required, the entire entryway is unobstructed, permitting ready accessibility to the hat and coat racks.

A standard single-door teacher's wardrobe will be furnished whenever required, and is regularly equipped with pivots, locks, handles, and a single shelf with hanger rod. Whenever specified, a bookcase and supply cabinet will be furnished complete with pivots, locks, handles, and five adjustable shelves.

operating hardware The design of the floor pivot assembly permits a simplified adjustment in 6 directions so that the pupils' wardrobe doors can be maintained in perfect alignment. The floor pivot assembly is especially heavy in construction, and designed to successfully withstand abuse and operate smoothly and efficiently.

doors—steel Standard steel doors are constructed of top quality, cold rolled steel, will never warp and are fire and vermin proof. They are flush, insulated, 1 ¾″ thick, 2′6″ wide. Narrower or wider doors will be furnished if specified. Steel construction assures many extra years of lasting beauty, dependable performance and quiet easy operation . . . even under years of harder than average use.

doors—wood Standard equipment includes 1 ¾″ flush solid or hollow core doors 2′6″ wide. Narrower or wider doors will be furnished if specified. Standard doors are available with any wood veneer.

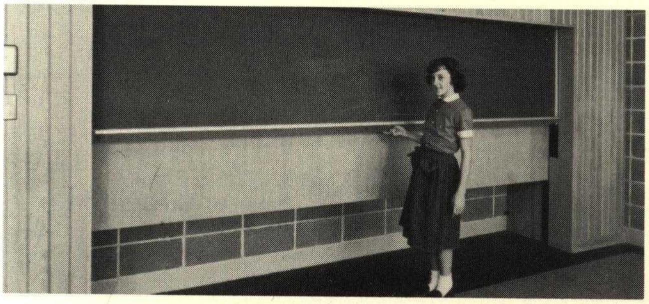
head and jamb Head and side jamb may be of wood or steel to comply with the type of doors used.

hat and coat rack The In-A-Wall wardrobe features a sturdy steel hat and coat rack. Each four foot rack will efficiently accommodate 20 pupils. Racks are painted to match the In-A-Wall units for complete modern color harmony.

chalkboard and corkboard In-A-Wall wardrobes may be equipped with either Cork Bulletin Boards or Chalkboards and Chalk Rails as desired. Corkboard and Chalkboard are available in various sizes and colors . . . for complete color harmony pick a color to complement the wardrobe units and surrounding interior decorations.

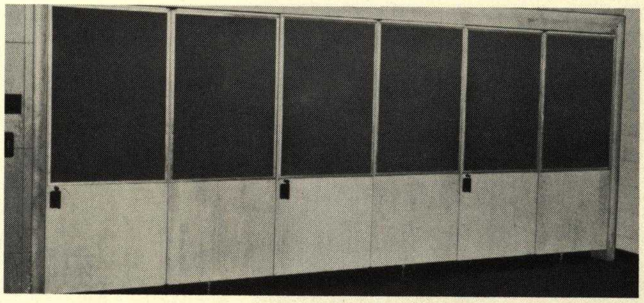
chalkboard

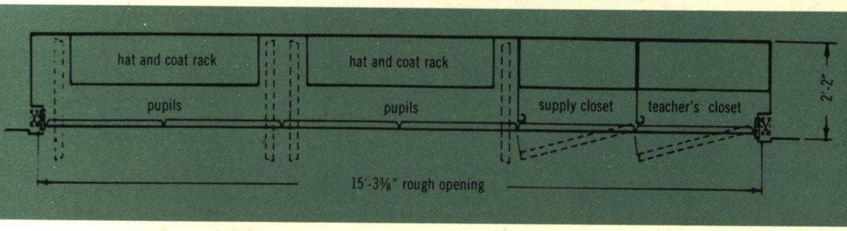
Doors for pupils' unit, supply cabinet, and teacher's closet shall be equipped with chalkboard as specified. Chalkboard shall be complete with aluminum trim and metal chalk-trough, if required. To fully utilize valuable wall area it is recommended that all wardrobe doors be equipped with chalkboards. Chalkboards are usually ¼″ thick, however Richards-Wilcox Wardrobe hardware is designed to accommodate any normal thickness chalkboard.

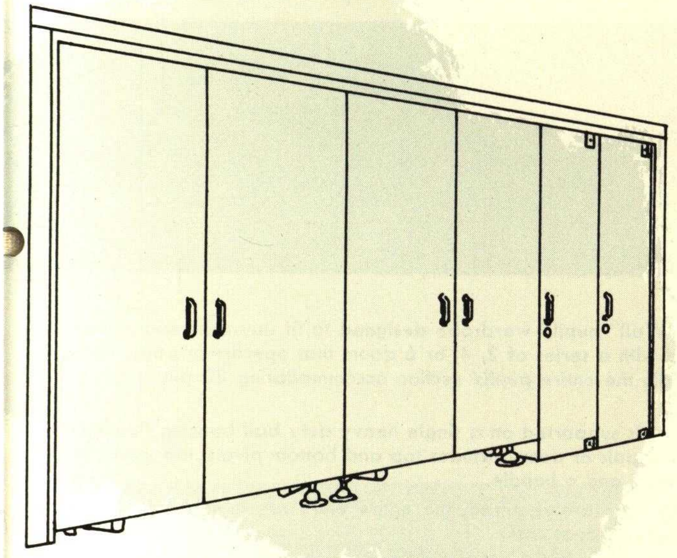


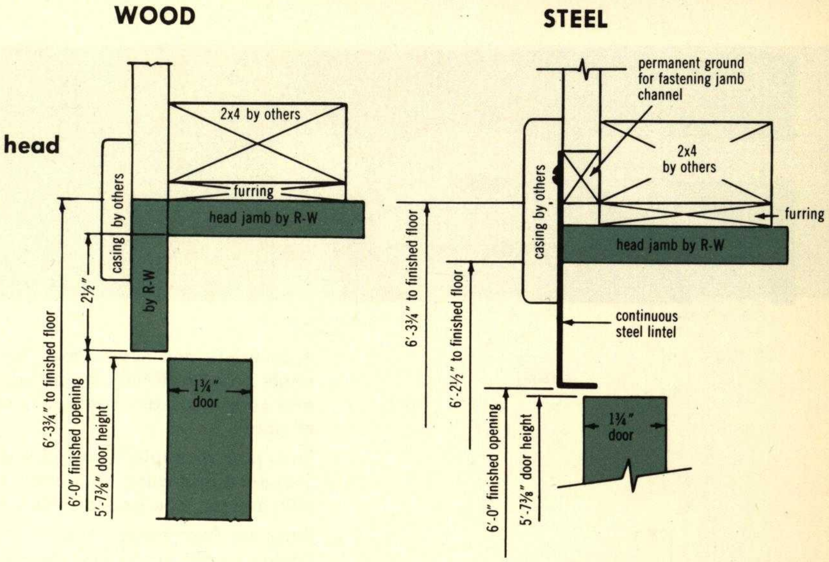
corkboard

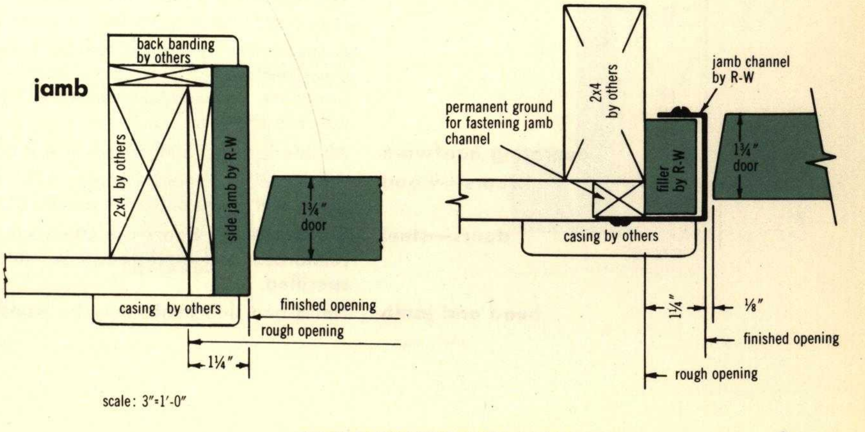
Doors for pupils' units, supply cabinets, and teacher's closet shall be equipped with corkboards as specified. Corkboard shall be complete with aluminum trim as required. To fully utilize valuable wall area it is recommended that all wardrobe doors be equipped with corkboards. Corkboards are usually ¼″ thick, however Richards-Wilcox Wardrobe Hardware is designed to accommodate any normal thickness cork.

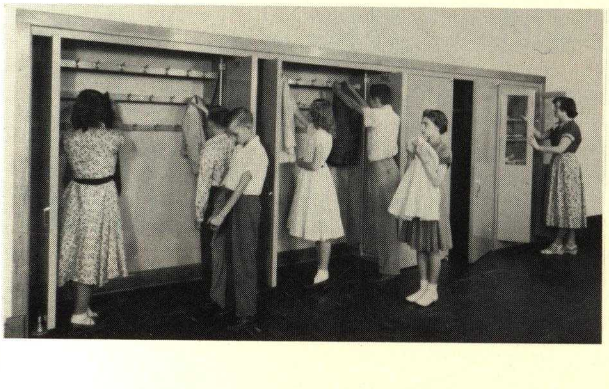



hat and coat rack
hat and coat rack
pupils
pupils
supply closet
teacher's closet
2'-2″
15'-3⅜″ rough opening



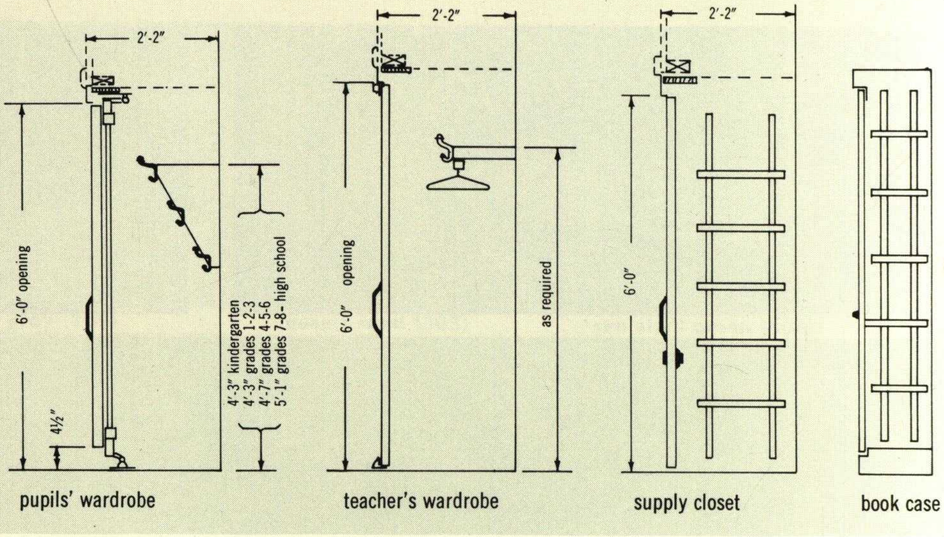

WOOD
STEEL
head
2x4 by others
furring
head jamb by R-W
casing by others
by R-W
2½″
6'-3¾″ to finished floor
6'-0″ finished opening
5'-7⅞″ door height
1¾″ door
permanent ground for fastening jamb channel
2x4 by others
casing by others
furring
head jamb by R-W
6'-3¾″ to finished floor
6'-2½″ to finished floor
continuous steel lintel
6'-0″ finished opening
5'-7⅞″ door height
1¾″ door


jamb
back banding by others
2x4 by others
side jamb by R-W
1¾″ door
casing by others
finished opening
rough opening
1¼″
scale: 3″=1'-0″
2x4 by others
jamb channel by R-W
permanent ground for fastening jamb channel
filler by R-W
1¾″ door
casing by others
1¼″
⅛″
finished opening
rough opening



785 continued

section drawings



781

DOORS OPERATE IN PAIRS

A complete and economical "In-A-Wall" pupils' wardrobe designed to fit any classroom recess. A single wardrobe may be provided with a series of 2, 4, or 6 doors that operate in pairs. The hat and coat racks are continuous across the entire pupils' section accommodating 20 pupils per pair of doors.

Each pair of pupils' wardrobe doors is supported on a single heavy duty ball bearing floor pivot. Standard operating equipment for a pair of doors includes top and bottom pivots, top guide track with hanger, one pair of offset hinges, and a handle.

Since no floor tracks or protruding arms are required, the entire entryway is unobstructed, permitting ready accessibility to the hat and coat racks.

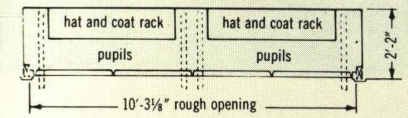
Through this principle of operation the doors fold together allowing chalkboards to face each other thus protecting any written work so it cannot be rubbed off when pupils enter wardrobe.

A standard single-door teacher's wardrobe will be furnished whenever required, and is regularly equipped with pivots, locks, handles and a single shelf with hanger rod. Whenever specified, a bookcase and supply cabinet will be furnished complete with pivots, locks, handles and five adjustable shelves.

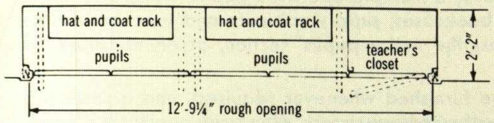
operating hardware	All interior operating hardware is cadmium plated.
doors—wood	Standard equipment includes 1¾" flush solid or hollow core doors 2'6" wide. Narrower or wider doors will be furnished if specified. Standard doors are available with any wood veneer.
doors—steel	Standard steel doors are constructed of top quality, cold rolled steel. They are flush hollow metal, reinforced and insulated, 1¾" thick, 2'6" wide. Narrower or wider doors will be furnished if specified.
head and jamb	Head and side jambs may be wood or steel to comply with doors.

These arrangements of R-W No. 785 Wardrobes offer custom built advantages at production prices. Order or specify by plan number.

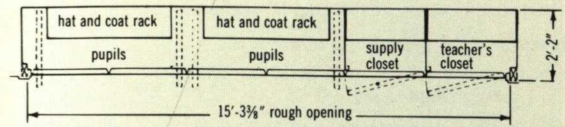
for 40 students


hat and coat rack
hat and coat rack
pupils
pupils
2'-2"
10'-3⅛" rough opening

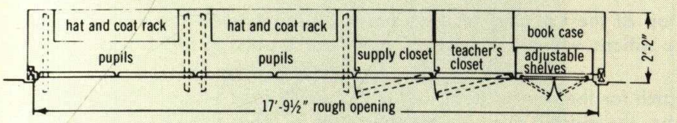
plan 4-A


hat and coat rack
hat and coat rack
pupils
pupils
teacher's closet
2'-2"
12'-9¼" rough opening

plan 4-B

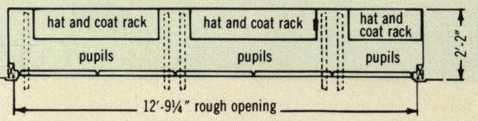

hat and coat rack
hat and coat rack
pupils
pupils
supply closet
teacher's closet
2'-2"
15'-3⅜" rough opening

plan 4-C

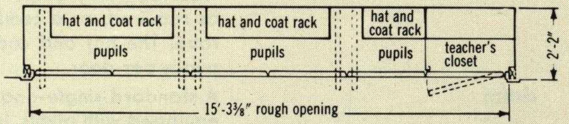

hat and coat rack
hat and coat rack
pupils
pupils
supply closet
teacher's closet
book case
adjustable shelves
2'-2"
17'-9½" rough opening

plan 4-D

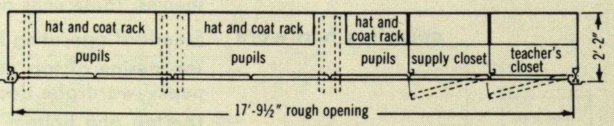
for 50 students


hat and coat rack
hat and coat rack
hat and coat rack
pupils
pupils
pupils
2'-2"
12'-9¼" rough opening

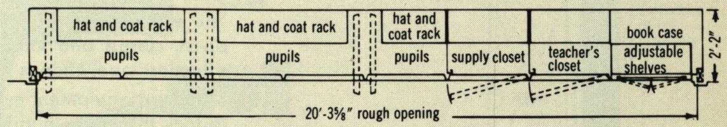
plan 5-A


hat and coat rack
hat and coat rack
hat and coat rack
pupils
pupils
pupils
teacher's closet
2'-2"
15'-3⅜" rough opening

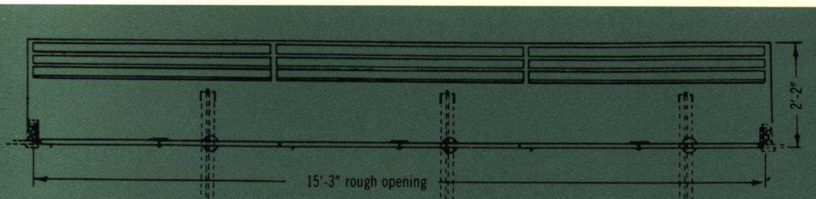
plan 5-B

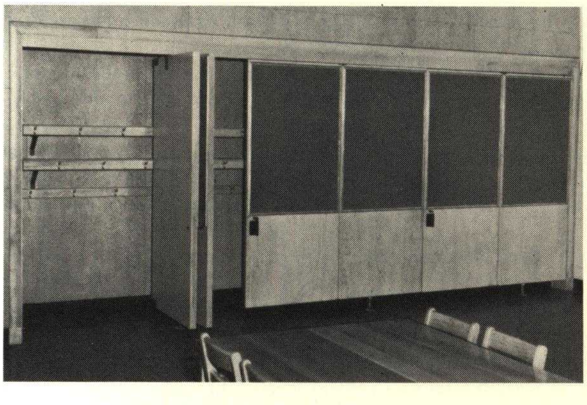

hat and coat rack
hat and coat rack
hat and coat rack
pupils
pupils
pupils
supply closet
teacher's closet
2'-2"
17'-9½" rough opening

plan 5-C

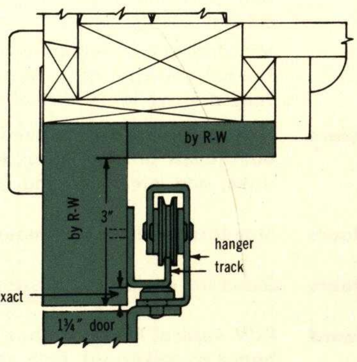

hat and coat rack
hat and coat rack
hat and coat rack
pupils
pupils
pupils
supply closet
teacher's closet
book case
adjustable shelves
2'-2"
20'-3⅝" rough opening

plan 5-D

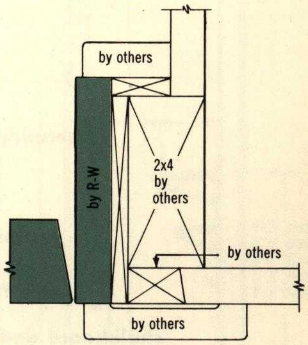

2'-2"
15'-3" rough opening



head


by R-W
by R-W
3"
hanger
track
⅜" exact
1¾" door

jamb


by others
by R-W
2x4 by others
by others
by others

scale: 3"-1'-0"

883

MULTIPLE OPERATING DOORS

A complete and economical "In-a-Wall" wardrobe designed to fit any classroom recess. A single wardrobe may be provided with a series of 3, 4, 5 or 6 multiple operated pupils' wardrobe doors as required, or a combination of pupils' sections, bookcases, supply cabinets and teacher's wardrobe. The hat and coat racks are continuous across the entire pupils' section, accommodating 10 pupils per door.

A standard single-door teacher's wardrobe will be furnished whenever required, and is regularly equipped with pivots, locks, handles and a single shelf with hanger rod. Whenever specified a bookcase and supply cabinet will be furnished complete with pivots, locks, handles and five adjustable shelves. These units are not controlled from the master door of the pupils' section.

operating hardware

Standard operating hardware will be furnished in solid bronze, lacquered.

The design of top and bottom pivots permits a simplified adjustment in all directions so that the pupils' wardrobe doors can be maintained in perfect alignment.

The top and bottom pivot units are especially heavy in construction, and designed to successfully withstand abuse and operate smoothly and efficiently.

The multiple control arm at the top of the opening securely holds all pupils' doors in their correct open, closed and intermediate positions without the use of any floor tracks or top tracks. Silent effortless operation is assured.

Standard equipment includes a latch for the master door, but in those instances where it is desirable to lock the entire pupils' wardrobe, the master door is equipped with a cylinder lock.

doors-wood

Standard equipment includes 1 ¾″ flush solid or hollow core doors 2′6″ wide. Narrower or wider doors will be furnished if specified. Standard doors are available with any wood veneer.

doors-steel

Standard steel doors are constructed of top quality cold rolled steel. They are flush, insulated, 1 ¾″ thick, 2′6″ wide. Narrower or wider doors will be furnished if specified.

head and jamb

Head and side jambs may be of wood or steel to comply with doors.

775

VERTICAL LIFT

The Richards-Wilcox Vertical Lift "In-a-Wall" Wardrobe eliminates the need for wide aisles since the doors slide overhead out of the way. Each door section operates on a system of counterweights. Due to its simplicity through engineering, the No. 775 offers ease of action for both opening and closing.

Wardrobes are available 8′, 10′, or 12′ wide accommodating 32, 40, or 48 pupils respectively. The hat and coat racks with two shelves and three hook strips are continuous across the wardrobe. They are available in steel or wood.

operating hardware

The synchronized two-speed design hardware assures smooth easy operation. The side tracks at both jambs are continuous steel and the guide rollers are nylon. The counterweights, roller chain drive, and interconnecting roller chain hold the doors in perfect alignment and prevent buckling.

aluminum doors

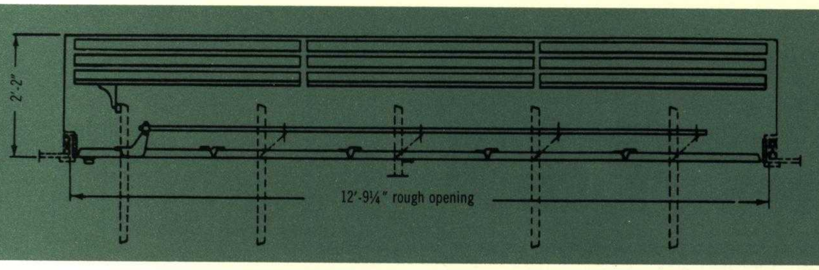
Standard equipment includes 1 ⅜″ or 1 ¾″ flush aluminum doors with honeycomb core.

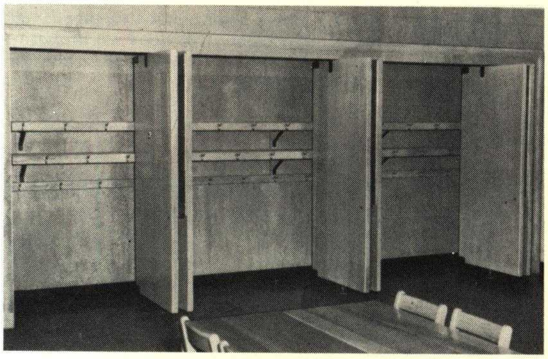
wood doors

Standard equipment includes 1 ⅜″ or 1 ¾″ hollow core design with veneers as specified.

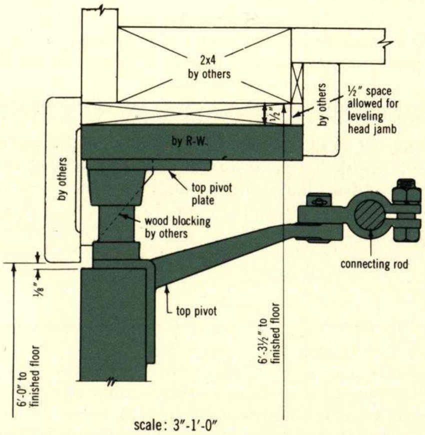
chalkboard and corkboard

R-W vertical lift wardrobes provide wide surfaces that can be used for either a continuous chalkboard or corkboard. Both are available in various colors . . . select a color to complement the surrounding interior decorations.


2'-2"
12'-9¼" rough opening

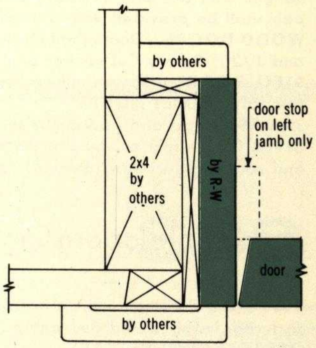


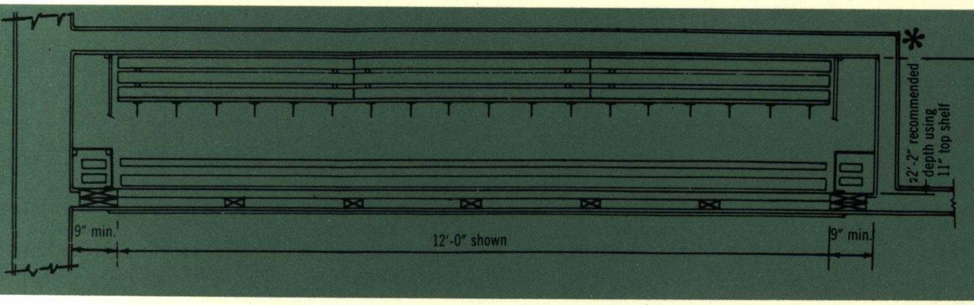
head


2x4 by others
by others
½" space allowed for leveling head jamb
½"
by R-W.
by others
top pivot plate
wood blocking by others
connecting rod
⅛"
top pivot
6'-3½" to finished floor
6'-0" to finished floor

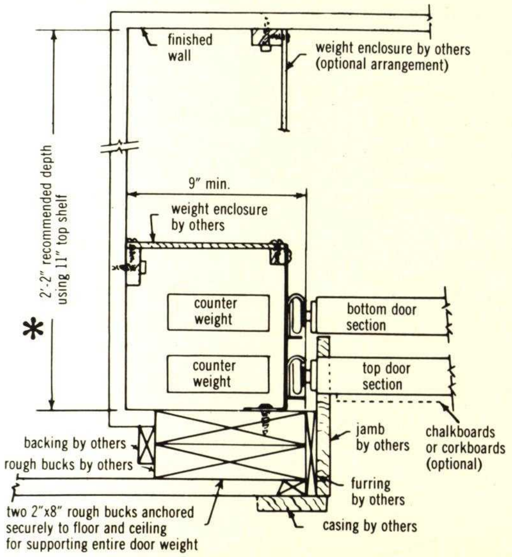
scale: 3"-1'-0"

jamb

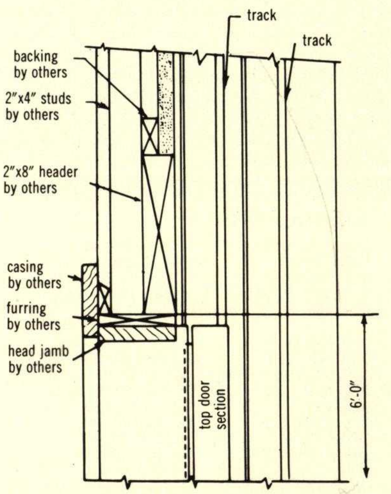

by others
door stop on left jamb only
2x4 by others
by R-W
door
by others


*
2'-2" recommended depth using 11" top shelf
9" min.
12'-0" shown
9" min.

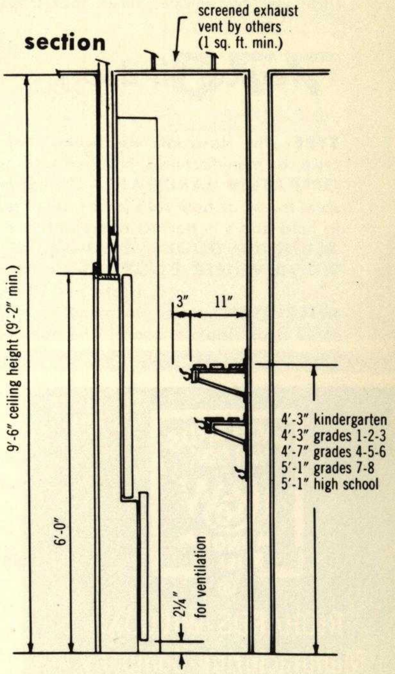
head


finished wall
weight enclosure by others (optional arrangement)
2'-2" recommended depth using 11" top shelf
*
9" min.
weight enclosure by others
counter weight
counter weight
bottom door section
top door section
jamb by others
chalkboards or corkboards (optional)
backing by others
rough bucks by others
furring by others
two 2"x8" rough bucks anchored securely to floor and ceiling for supporting entire door weight
casing by others

jamb


track
track
backing by others
2"x4" studs by others
2"x8" header by others
casing by others
furring by others
head jamb by others
top door section
6'-0"

section


screened exhaust vent by others (1 sq. ft. min.)
9'-6" ceiling height (9'-2" min.)
3"
11"
4'-3" kindergarten
4'-3" grades 1-2-3
4'-7" grades 4-5-6
5'-1" grades 7-8
5'-1" high school
6'-0"
2¼" for ventilation

---

*This dimension can be increased if building space is available, thus providing greater clearance for closing.

SPECIFICATIONS

785 doors operate individually

TYPE—The classroom wardrobes shall be R-W No. 785 "In-a-wall" steel (or wood) Receding Door Type as manufactured, installed and guaranteed by Richards-Wilcox Mfg. Co., Aurora, Ill.

OPERATING HARDWARE—Each pupils' wardrobe door shall operate independently on a single heavy duty pivot-arm of the full adjustment offset unit type extending from the top of the wardrobe to the floor. All weight shall be carried on the floor and the construction of the pivot-arm shall be such as to hold the doors rigid and in perfect alignment. No floor tracks shall be used.

HARDWARE FINISH—All interior operating hardware shall be finished in aluminum enamel.

STEEL DOORS—Doors shall be flush, hollow metal, reinforced and insulated, 1¾" thick, baked enamel finish in standard color as selected.

JAMBS—Head and side jambs and divisions shall be of steel (or wood) as detailed, finished to match doors.

WOOD DOORS—Doors shall be flush, solid vertical core construction, 5-ply, 1¾" thick with 1/12" cross-banding and 1/20" Rotary Cut veneer of .... (state kind of wood).

INTERIORS—Interior equipment for pupils' wardrobe shall include individual 5 foot sectioned standard steel (or wood) hat and coat racks with two shelves, three hook strips and double prong hooks.

781 doors operate in pairs

TYPE—The classroom wardrobes shall be R-W No. 781 "In-a-wall" wood (or steel) as manufactured, installed and guaranteed by Richards-Wilcox Mfg. Co., Aurora, Ill.

OPERATING HARDWARE—The doors shall be hinged together in two-door units to operate as shown. Each pair of doors shall be equipped with an adjustable ball bearing floor pivot, top pivot, top guide track with hanger, and one pair of heavy offset hinges all supplied in cadmium plated finish. The left hand door of each pair shall be provided with a handle. No mullions, divisions, floor tracks or protruding arms shall be used.

WOOD DOORS—Doors shall be flush, solid vertical core construction, 5-ply, 1¾" thick with 1/12" cross-banding and 1/20" Rotary Cut veneer of .... (state kind of wood).

STEEL DOORS—Doors shall be flush, hollow metal, reinforced and insulated, 1¾" thick, baked enamel finish in standard color as selected.

JAMBS—Head and side jambs shall be of wood (or steel) as detailed, finished to match doors.

INTERIORS—Interior equipment for pupils' wardrobe shall include continuous standard R-W wood (or steel) hat and coat racks with two shelves, three hook strips and double prong hooks.

883 multiple operating doors

TYPE—The classroom wardrobes shall be R-W No. 883 "In-a-wall" wood (or steel) multiple operation as manufactured, installed and guaranteed by Richards-Wilcox Mfg. Co., Aurora, Ill.

OPERATING HARDWARE—Each pupils' wardrobe door shall be supported on a single heavy-duty ball-point bearing with vertical and lateral adjustments. The top pivot shall be vertically self-adjusting.

Top and bottom door attachments shall be provided with adjustment features by which all of the doors in the wardrobe can be brought into perfect facial alignment. All top pivots shall be connected by a multiple control bar attached to each of the top pivots in a flexible manner to prevent binding and so arranged that when the master door is open or closed, all other doors will open or close simultaneously. The master door shall be provided with a knob and latch set.

HARDWARE FINISH—All interior operating hardware shall be of solid bronze, lacquered.

WOOD DOORS—Doors shall be flush, solid vertical core construction, 5-ply, 1¾" thick with 1/12" cross-banding and 1/20" Rotary Cut veneer of .... (state kind of wood).

STEEL DOORS—Doors shall be flush, hollow metal, reinforced and insulated, 1¾" thick, baked enamel finish in standard color as selected.

JAMBS—Head and side jambs shall be of wood (or steel) as detailed, finished to match doors.

INTERIORS—Interior equipment for pupils' wardrobe shall include continuous wood (or steel) hat and coat racks with two shelves, three hook strips and double prong hooks.

775 vertical lift doors

TYPE—The classroom wardrobes shall be R-W No. 775 "In-a-wall" aluminum (or wood veneer) vertical lif type, as manufactured, installed and guaranteed by Richards-Wilcox Mfg. Co., Aurora, Ill.

OPERATING HARDWARE—The hardware shall be of synchronized two-speed design provided with continuous steel tracks at both side jambs, silent guide rollers, counterweights, roller drive chain, interconnecting roller chain to hold doors in perfect alignment, and double sprocket assemblies.

ALUMINUM DOORS—Doors shall be 1⅜" or 1¾" flush aluminum design with honeycomb core.

WOOD VENEER DOORS—Doors shall be 1⅜" or 1¾" flush hollow core design with exposed veneer of .... (state kind of wood)

INTERIORS—Interior equipment shall include standard steel (or wood) R-W hat and coat racks with two shelves, three hook strips, brackets, and double prong aluminum hooks.

WORK BY OTHERS

All plastering, rough bucks, headers, grounds, vent grilles, baseboards, back bands, casing and flooring inside the recess shall be furnished and installed by others in accordance with R-W details approved by the architect. For No. 775 Vertical Lift Wardrobes the jambs and weight enclosure panels shall also be furnished and installed by others. (For wood wardrobes—filling, painting and staining shall also be done by others.)

OPTIONAL EQUIPMENT

Chalkboards—Doors for pupils' units, supply cabinets, and teacher's closet shall be equipped with continuous chalkboards, the color to be .... Include chalk trough. (Maximum recommended weight of chalkboard for Vertical Lift Wardrobes is 1.5 pounds per square foot.)

Corkboards—Doors for pupils' units, supply cabinets, and teacher's closet shall be equipped with continuous corkboards, the color to be ....

Umbrella Racks—Include one umbrella rack with drip pan in each 2-door pupils' section and single-door teacher's closet. (Include two umbrella racks with drip pan in each vertical lift pupils' wardrobe).

Teacher's Wardrobe—The recess shall be provided with a single-door teacher's wardrobe complete with pivots, lock, handle, division, shelf, and hanger rod.

Bookcase—The installation shall include a bookcase complete with pivots, lock, handle, division, and five shelves.

Supply Closet—The installation shall include a supply closet complete with pivots, lock, handle, division, and five shelves.

In the interest of progress and improvement these specifications may be changed without notice.

branch offices

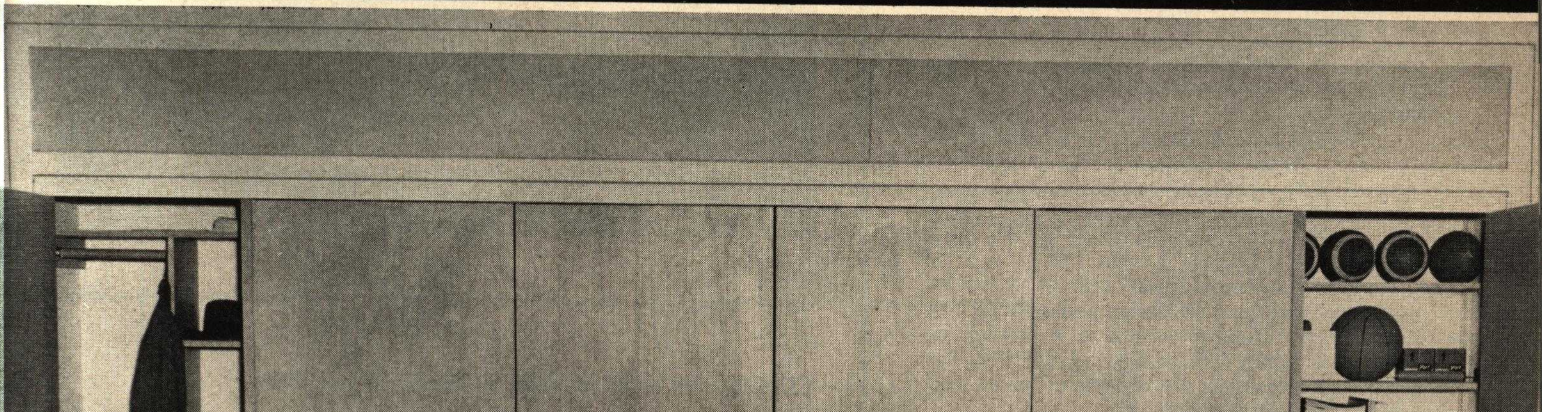
ALBUQUERQUE	11412 Bellaman, N.E.	AX 9-7844
ATLANTA 19	4004 Peachtree Rd., N.E.	CE 3-5401
BOSTON 30	375 Centre St., Jamaica Plain Dist.	JA 2-3420
BUFFALO 25	428 Beach Rd., Cheektowaga 25, N.Y.	PL 6838
CHICAGO 25	6968 W. North Ave.	BE 7-0643
CINCINNATI 2	511 Provident Bank Bldg.	CH 1-3902
CLEVELAND 7	1575 W. 117th St.	AC 6-5626
DALLAS 6	4924 Greenville Ave.	EM 8-5494
DENVER 9	533 E. Ohio Ave.	SH 4-3359
DES MOINES 9	412 Hubbell Bldg.	CH 4-0231
DETROIT 19	19135 W. McNichols Rd.	KE 7-3875
GRAND RAPIDS 2	433 Houseman Bldg.	GL 1-1603
HOUSTON 2	611 M & M Bldg.	FA 3-8662
INDIANAPOLIS 20	5428 N. Keystone Ave.	CL 5-7492
KANSAS CITY 10, MO.	1102 E. 47th St.	VA 1-5001
LOS ANGELES 57	2323 W. Third St.	DU 8-6173
MILWAUKEE 16	4003 W. Capitol Dr.	HI 2-7230
MINNEAPOLIS 3	321 Plymouth Bldg.	FE 5-3813
NASHVILLE	1613 Franklin Ave.	CA 7-1504
NEW ORLEANS 16	2025 Canal St.	MA 0454
NEW YORK 13	105 Reade St.	WO 2-1880
OKLAHOMA CITY 6	1605 N.W. 11th St.	JA 5-1168
PEORIA, ILL.	400 Merle Lane	2-3272
PHILADELPHIA 7	121 N. Broad St.	LO 3-3068
PITTSBURGH 28	448 Washington Rd.	LO 1-1836
PORTLAND 4	320 S.W. Stark St.	CA 3-6473
SAN FRANCISCO 10	850 S. Van Ness Ave.	MI 8-6700
ST. LOUIS 10	5100 Oakland Ave.	OL 2-5567
SEATTLE 9	1160 Fairview, North	MA 2-3650
TAMPA 4	1010 Briarwood Ave.	WE 5-7842
WASHINGTON 5, D.C.	811 Albee Bldg.	DI 7-0985

RICHARDS-WILCOX
Manufacturing Company
AURORA, ILLINOIS

23d
Sc

THESSCO

BUILT-IN CLASSROOM
wardrobes



SCHOOL SUPPLY COMPANY
KANSAS CITY 30, MISSOURI

THESSCO

THESSCO built-in wardrobes and accessories are manufactured by School Supply Company and installed by the manufacturer or his authorized agents thus insuring the user of quality products properly installed for maximum performance and satisfaction. School Supply Company fully guarantees all of its materials and workmanship against any defects for a period of one year.

Advantages

- *Maximum usable classroom space*—can be obtained only from use of built-in wardrobes. Chalkboards and tackboards can be mounted on face of doors.
- *Ventilation of clothing*—Wardrobes are ventilated by means of a continuous flow of warm classroom air introduced from space below wardrobe doors. Air then rises by means of gravity displacement and passes through ceiling grilles into plenum above wardrobes and is carried off by means of roof ventilators.
- *Easily cleaned and maintained*—no bulky floor mountings or unaccessible corners.
- *Each door mounted and operated on its own set of hardware*—offers individual door adjustment and alignment.
- *Lifetime hardware*—Simple rugged design and construction offers a lifetime of trouble-free operation.
- *Factory installed*—All THESSCO wardrobes installed by competent factory representatives.
- *Teacher supervision*—Being located in classrooms, wardrobes are under direct control of the teacher.

Quality Control

Over 25 years experience in the field of classroom wardrobes has gone into the design and manufacture of THESSCO wardrobes resulting in a product of maximum quality of workmanship and materials. All wardrobes and accessories are thoroughly tested and inspected.

Doors

All doors are top quality flush type, manufactured by nationally known door manufacturers furnished by THESSCO. Doors are furnished in either hollow or solid core construction, 1⅜″ or 1¾″ thicknesses, and in any standard facing veneer species or thickness.

Hardware

All exposed operating hardware is of solid cast Amalloy* or bronze, satin finished. Platings and other finishes may be so specified. All concealed hardware is of Amalloy casting. Operating hardware is adjustable both horizontally and vertically for perfect door alignment. Weight of door is carried on a single ball bearing floor pivot support. Special built-in mechanism holds door in either "open" or "closed" position.

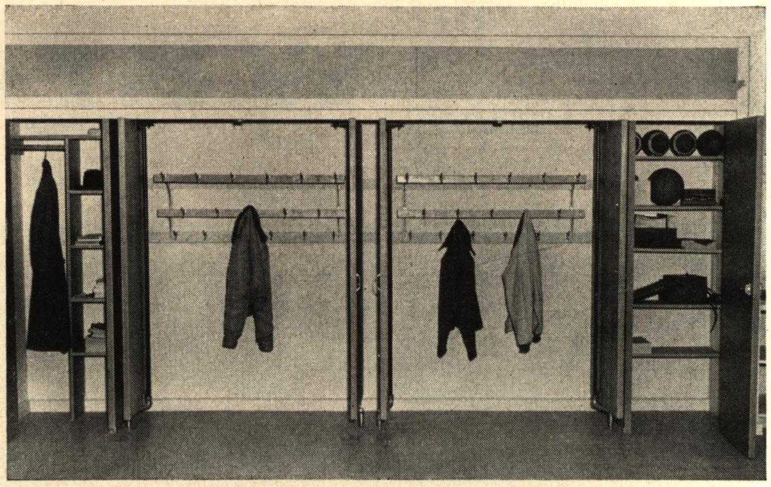
Interior Equipment

Each wardrobe is equipped with two wood shelves and hook strips, supported on cast amalloy shelf brackets. Hook strips contain double-pronged aluminum coat and hat brackets. It is recommended that ceiling of wardrobes contain two or three 12″ x 12″ vent grilles for proper ventilation. See page 4 for optional equipment.

* Amalloy is an aluminum alloy consisting of aluminum, magnesium and titanium, having a tensile strength of 38,000 p.s.i. and possessing high resistance to corrosion and high maintenance of luster without protective coatings.

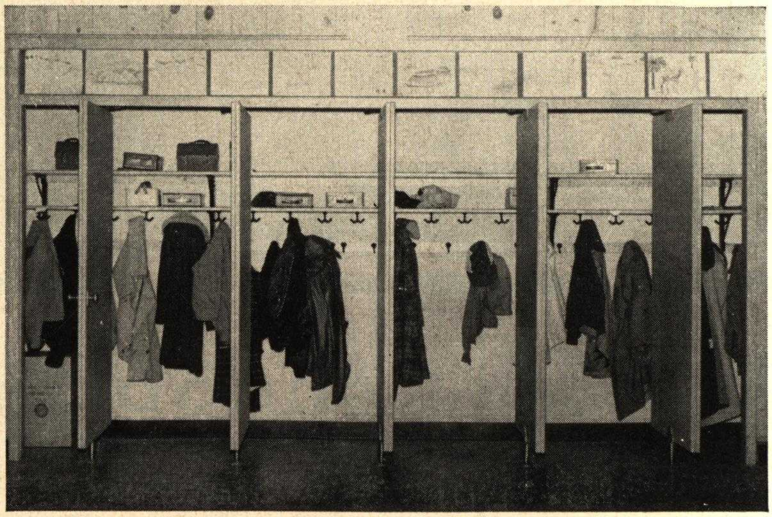
RECEDER WARDROBES Type R22

Individually operated, doors are mounted on top and bottom pivots with guide arms so as to recess doors into the wardrobe when open for minimum obstruction. Pivots designed so that no offset arms or pivot supports extend into wardrobe floor space when door is open. No guide tracks, slides or rollers are used. Head pivots for both top arm and guide arm are incorporated in a single casting attached to head member. Top pivot arm bearing and second guide arm pivot are also incorporated in a single casting attached to top door rail. Top and bottom arms connected with ⅞″ steel rod extending from top to bottom of door. Each door is mounted on its own set of hardware and is individually operated. Any number of doors can be used. Any size doors up to 3′-0″ in width.

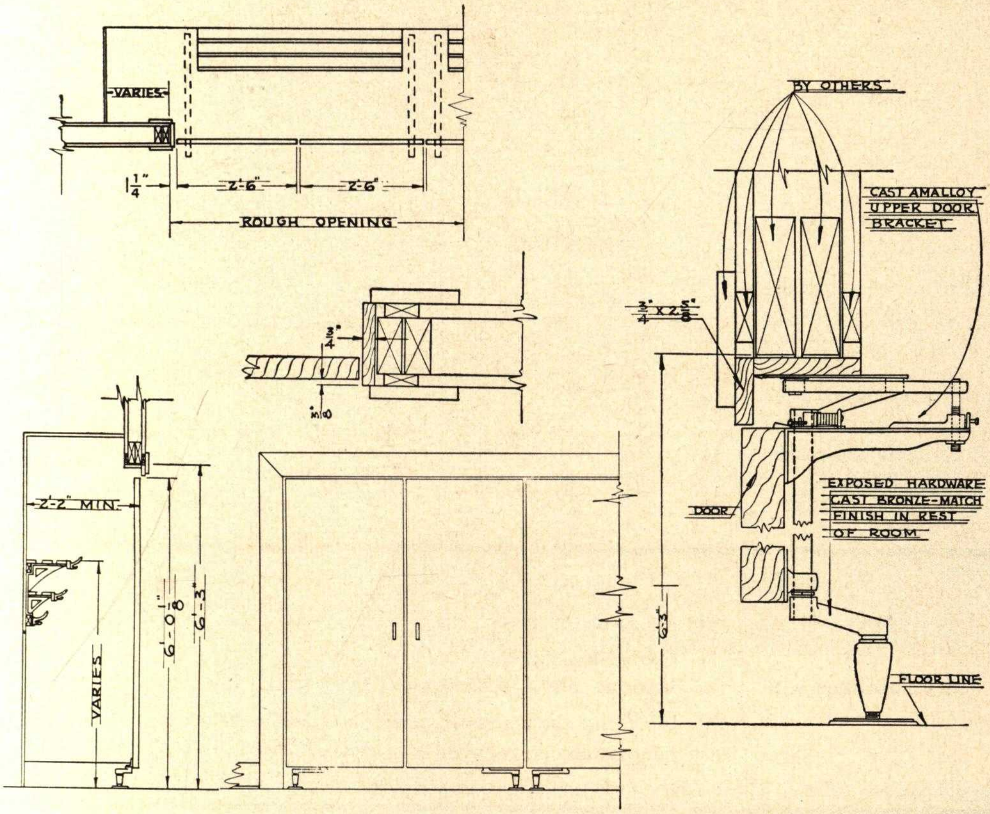


CENTER PIVOT WARDROBES Type CP11

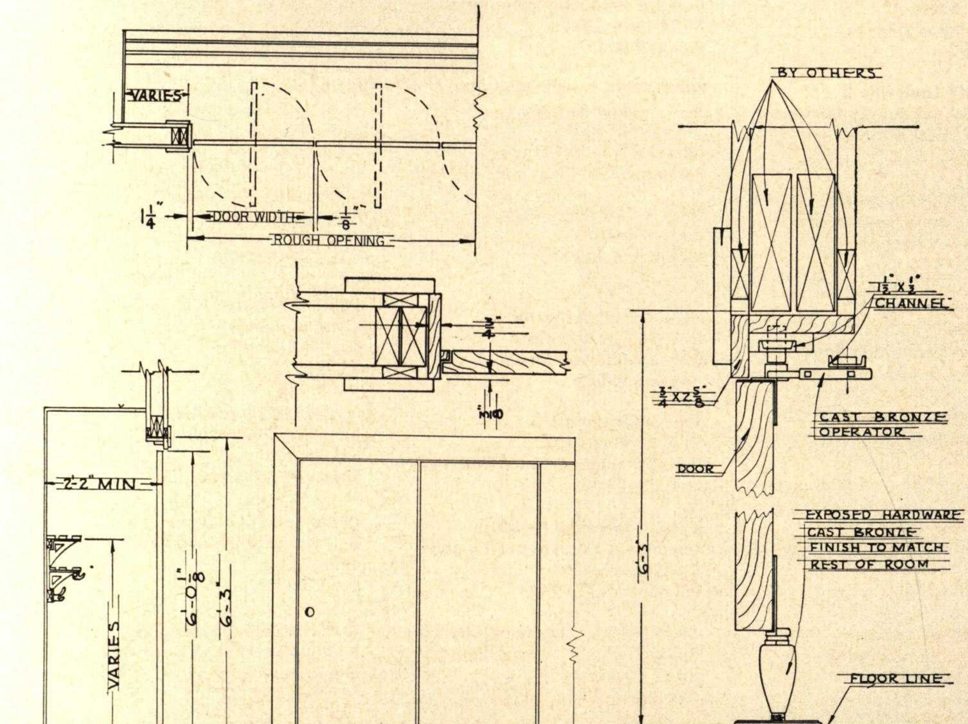
Simultaneously operated, doors are mounted on individual sets of hardware and open and close in unison with master door. Each door is pivot mounted with top pivot and bushings set in factory drilled steel channel extending across entire head of wardrobe. Doors can easily be operated by the smallest child. Any number of doors can be used. Recommended individual door width is 2′6″.



Details


VARIES
1 1/4"
2'-6"
2'-6"
ROUGH OPENING
3/4"
3/8"
2'-2" MIN.
VARIES
6'-0 1/2"
6'-3"
BY OTHERS
CAST AMALLOY UPPER DOOR BRACKET
3/4"x2 5/8"
6'-3"
DOOR
EXPOSED HARDWARE CAST BRONZE-MATCH FINISH IN REST OF ROOM
FLOOR LINE

Details


VARIES
1 1/4"
DOOR WIDTH
1/8"
ROUGH OPENING
3/4"
3/8"
2'-2" MIN
VARIES
6'-0 1/2"
6'-3"
BY OTHERS
1/2"x1/2" CHANNEL
3/4"x2 5/8"
CAST BRONZE OPERATOR
DOOR
EXPOSED HARDWARE CAST BRONZE FINISH TO MATCH REST OF ROOM
6'-3"
FLOOR LINE

Specifications

General—All built-in classroom (wardrobe units/teacher's closets/storage closets) as shown on the Drawings shall be those manufactured by School Supply Company, 4215 Michigan Ave., Kansas City 30, Missouri. Wardrobe units shall be THESSCO Type____, complete with frames, doors, hardware and accessories. Units shall be installed by the wardrobe manufacturer or his authorized agent. All units shall be guaranteed against defective materials and workmanship for a period of one year from the time of installation.

Doors—Wardrobe doors shall be flush panel type, (hollow/solid) core construction, (1⅜"/1¾") thick and____wide. Face veneers shall be of________wood with a total veneer thickness of____ inches.

Frames—Frames, consisting of head and jamb members, shall be constructed of same wood species as heretofore specified for wardrobe door face veneers.

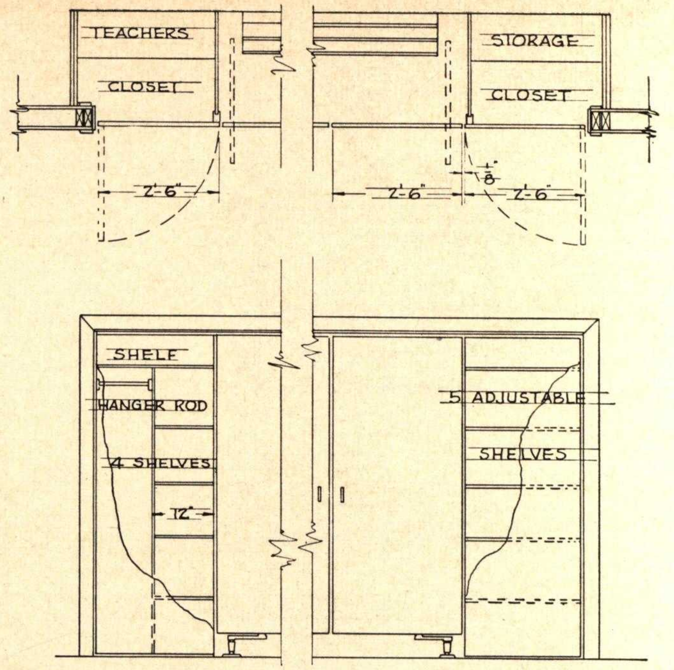
Hardware—All wardrobe units shall be equipped with hardware as required. Exposed hardware shall be solid (Amalloy/cast bronze), satin finished. Concealed hardware shall be of cast Amalloy. Each door shall be mounted on its own set of hardware for proper alignment and adjustment. All hardware shall be installed for proper operation.

Interior Equipment—All wardrobe units shall be equipped with two wood shelves and hook strips, supported on cast Amalloy shelf brackets attached to rear wall of wardrobe. Hook strips shall contain an adequate number of two-pronged coat and hat brackets. All wood members shall be of either Fir or Pine. (For additional available equipment see page 4)

Work Performed by Others—All recesses for wardrobes, including back and end walls, floors and ceilings, rough bucks and lintels, finish trim and painting shall be provided for and performed by others in accordance with detailed drawings and instructions supplied by the wardrobe manufacturer.

TEACHER'S CLOSET AND STORAGE

Can be used with either type of wardrobe. Wood divider provided between wardrobe and closet. Butt hinged doors match wardrobe doors and are hung with no exposed mullion so as to harmonize with wardrobe doors. Available for either right- or left-hand installation.



Specifications

General—same as wardrobe specifications

Doors—same as wardrobe specifications

Frames—same as wardrobe specifications

Hardware—All hardware shall be finished to match wardrobe hardware. Each closet door shall be equipped with 1 pr. butt type hinges, 1 pull, and 1 master-keyed cylinder lock.

Interior Equipment—Teacher's Closets shall be equipped with 5 shelves and 1 hanger rod. Storage Closets shall be equipped with 5 adjustable shelves. (For additional available equipment see p. 4)

OPTIONAL EQUIPMENT

Chalkboards and Cork Tackboards

Mounted on upper portion of wardrobe doors. Furnished with aluminum or wood mould.

Umbrella Racks and Drip Pans

Overshoe Racks

Various Shelf Arrangements

Including shelves with hanger rod and non-removable coat hangers can be supplied if so desired.

REPRESENTATIVES

ARKANSAS Little Rock
Cast Metals Company
8106 Asher Avenue
LO 5-5217

CALIFORNIA San Francisco
Ralph Mills & Company
325 Fifth Street
SUtter 1-1100

DISTRICT OF COLUMBIA
Washington
Steel Products, Incorporated
5122 MacArthur Blvd.
WO 6-7277

GEORGIA Atlanta 3
Gilsteel Distributing Company
319 Walker Street
MUrray 8-0038

ILLINOIS Chicago 20
Interior Steel Products Company
646 West 79th
TRiangle 4-1022

ILLINOIS Peoria 2
Lucas Sales
100 Blk. McArthur Blvd.
3-8547

INDIANA Indianapolis 8
Burns Sales Company
P. O. Box 5023
MElrose 2-3321

IOWA Des Moines
Swanson Sales
2737 Douglas Avenue
CR 9-9793

KENTUCKY Louisville 2
Central School Supply Company
315 - 17 West Main
JU 2-3801

MASSACHUSETTS Boston 16
Robert F. Crane, Incorporated
31 St. James Avenue
LIberty 2-1884

MICHIGAN Detroit 3
B. F. Farnell
435 West Seven Mile Road
TOwnsend 8-9231

MINNESOTA Minneapolis 20
The Hutchinson Company
Box 6590
TUxedo 1-3455

MISSOURI Kansas City
E. H. Fording Company
6434 Baltimore
DElmar 3-4515

MISSOURI St. Louis
Len A. Maune Company
8500 Eager Road
WOodland 2-8100

NEBRASKA Omaha
Builders Products Company
3928 Lake Street
Prospect 2600

NEW YORK Long Island City 1
A. R. Nelson Company,
Incorporated
38 - 35 Crescent Street
EMpire 1-0180

NEW YORK Rennsselaer
Kelly Associates
312 Broadway
5-2531

NEW YORK Rochester 5
Brisco Sales Company
37 - 39 Delevan Street
BAker 5-4085

OHIO Cincinnati 3
Tom Ragouzis Co.
N207 Cincinnati Union Terminal
MAin 1-6150

OHIO Cleveland Heights
Greensteel Chalkboard Company
1925 Lee Road
ERieview 1-1770

OKLAHOMA Oklahoma City 18
Bissell Builders Supply Company
3011 Paseo
JAckson 5-6616

OKLAHOMA Tulsa
Bissell Builders Supply Company
Box 1665
CHerry 2-8204

PENNSYLVANIA Harrisburg
Steel Equipment & Fence Company
3800 Paxton
JOrdan 4-3770

PENNSYLVANIA Mars
Playtime Equipment Corporation
Box 388
NAtional 5-4100

SOUTH CAROLINA Greenville
Building Specialties Sales Company
Box 3337
CE 9-6310

TENNESSEE Nashville
John W. McDougall Co.
41st & Indiana
BRoadway 7-1530

UTAH Salt Lake City 3
Hull Equipment Company
16 K Street
EM 3-9128

WASHINGTON Seattle 3
Builders Specialties Company
Greenwood Avenue at North 36th
MElrose 3-4000

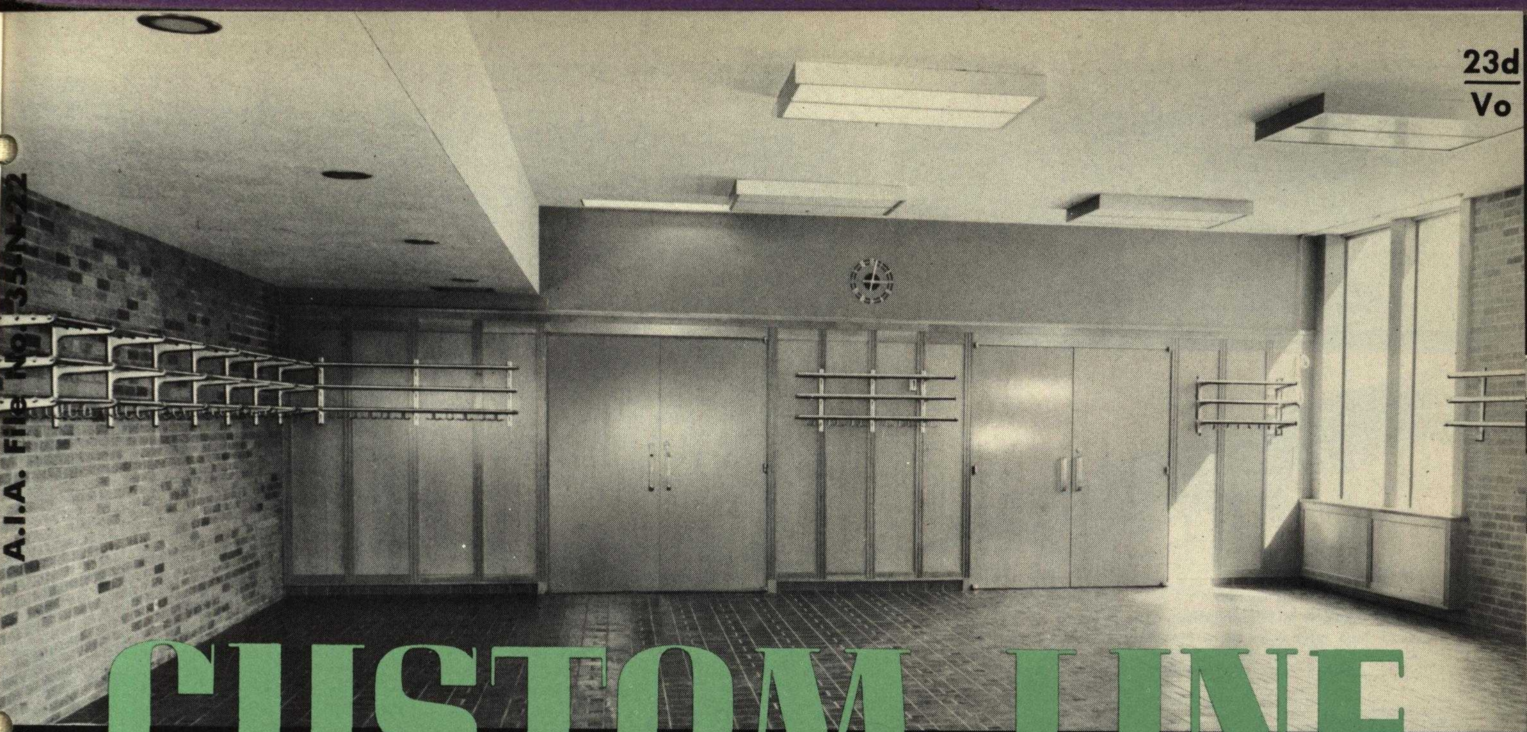
SCHOOL SUPPLY COMPANY

4215 MICHIGAN AVENUE • KANSAS CITY 30, MISSOURI

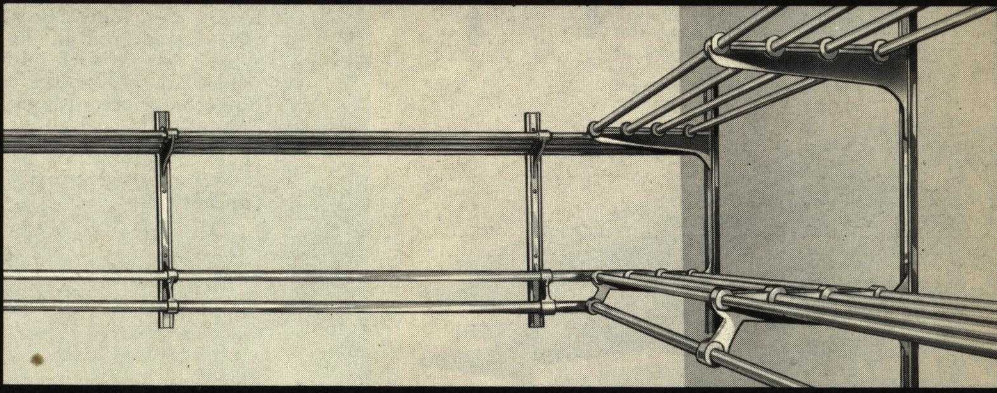
PRINTED IN U.S.A.

23d
Vo

A.I.A. File No. 35-N-22

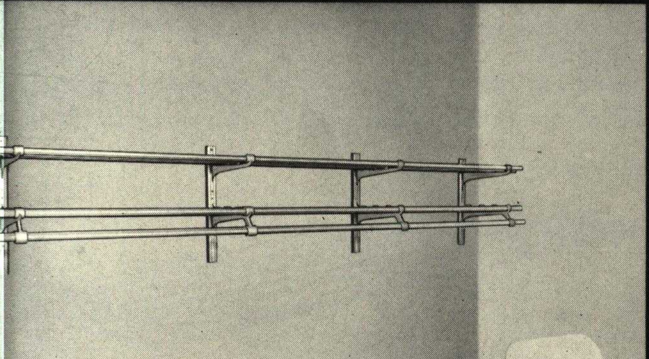


CUSTOM LINE



Aluminum WALL MOUNT

COAT and HAT RACKS



STYLED for SCHOOLS - INSTITUTIONS - MOTELS HOTELS - RESTAURANTS - HOMES and wherever the need calls for CUSTOM QUALITY

UNITS are STRONG - RIGID - CORROSION RESISTANT

ANODIZED ALUMINUM - PERMANENTLY BEAUTIFUL

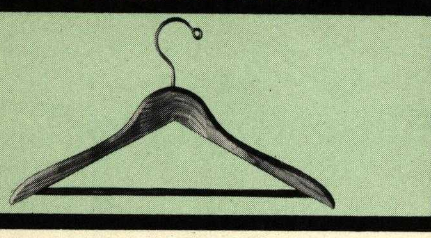
AVAILABLE IN SEVERAL color combinations and TAILORED TO FIT almost any specific application

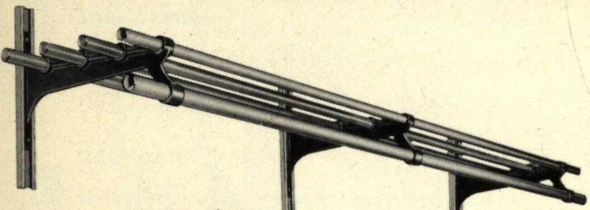
QUICK and EASY TO INSTALL. They complement other furnishings and surroundings.

A.I.A. File No. 35-N-22

MADE ONLY BY **VOGEL-PETERSON COMPANY • ELMHURST, ILLINOIS**

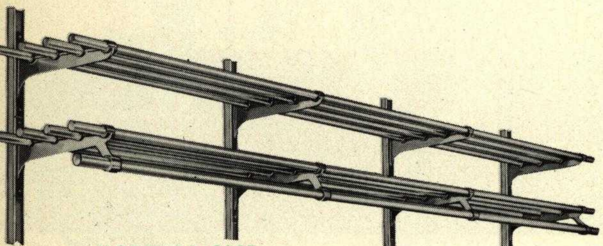
Hanger Style RACKS





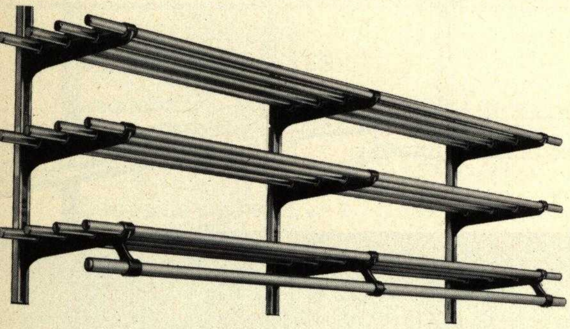
MODEL-AA 200E

Single shelf with hanger bar furnished in any length.



MODEL-AA 202E

Same as Model-AA 200E with one additional hat shelf.



MODEL-AA 203E

Same as models above with three shelves. All Custom-Line racks are tailored to any required length.

VOGEL-PETERSON

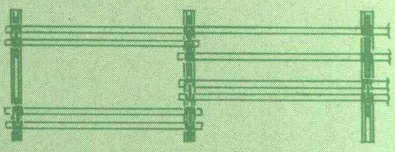
CUSTOM-LINE

Aluminum

WALL MOUNT COAT and HAT RACKS

These beautifully styled anodized heavy duty aluminum wall mount units are what their name "Custom" implies. They are built to your exact length and multiple shelf requirements. Not only are these racks furnished to your exact length requirements, but they meet your exacting need as to height from hook or hanger rail to the floor, as well as spacing between shelves. Easy spacing adjustment is made possible by our unique "E" extruded slide mounts detailed below.

TAILORED TO FIT...



models are furnished in any desired length to fit into recesses, between pilasters and in some cases can be worked across wall irregularities and obstructions. Are available in any combination of multiple shelf units or for two tier garment hanging requirements such as is sometimes needed for band and orchestra coats and jackets or blouses and shirts for home closets. These racks are adaptable to a wide variety of special applications.

Our heavy cast aluminum brackets are normally spaced on centers of from 27 to 38 inches, depending upon the length of the rack and specific usage.

Heavy cast double prong hooks come with Model 300 shelves and are spaced staggered on the 2nd and 4th tubes to allow ample coat space. Where desired such as for clothes closets in homes, hotels, motels, etc., model 200 shelves can be supplied with hooks for the back tube. Hooks do not interfere with garment hangers.

The maximum number of staggered hooks between brackets on the 300 series is determined by the bracket spacing used. With the staggered hook arrangement this will average a little over 2½ hooks or 5 plus coats per foot.

COLORS

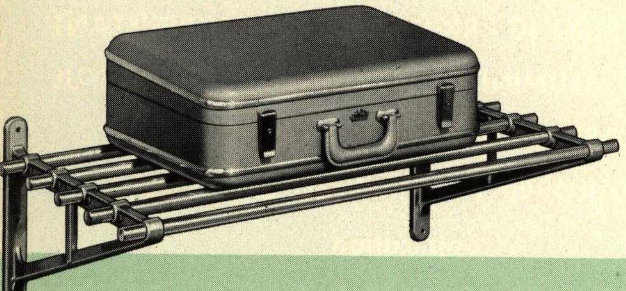
Aluminum Tubing—clear or gold deep etched non-peeling, non-corroding anodized finish.

Aluminum Die-Cast Brackets and Hooks—silver lustre, gold hammertone or black hard non-peeling, non-corroding finish.

Aluminum Extrusion Mountings—Same top quality clear or gold anodized finish as the Aluminum tubing.

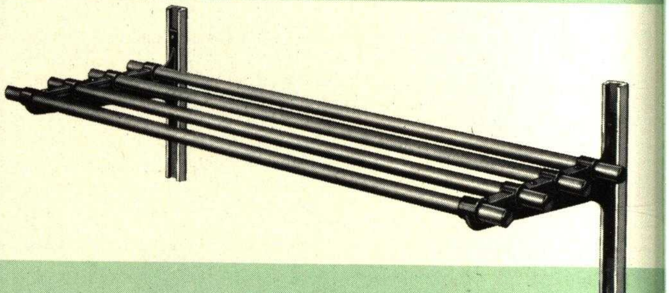
Suggested Color Combinations

1. Clear anodized tubing with silver lustre brackets and hooks.
2. Gold anodized tubing with gold hammertone brackets and hooks.
3. Gold anodized tubing with black brackets and hooks.
4. Extrusion mountings should match the color of tubing selected.



CLR - Luggage Racks

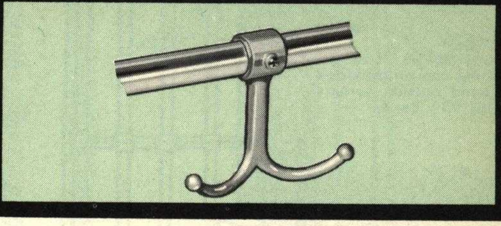
For Hotels, Motel and Dormitory rooms or closets. A full size wall mounted all aluminum luggage rack designed to match other custom-line wardrobe units. These sturdy units with strong cast brackets and capped end heavy gauge tubing are made in standard 24"-30"-36 and 42" lengths, or to your exact needs. They are a full 20" in depth and are made to withstand extremely heavy loads.

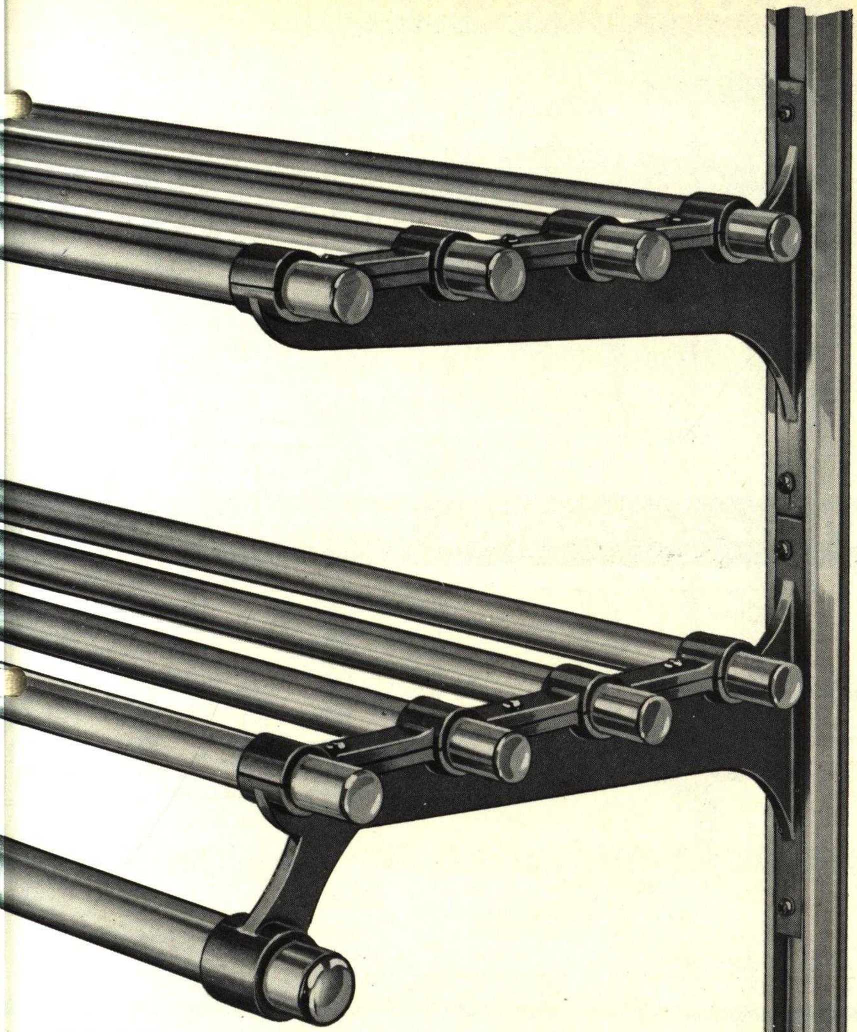


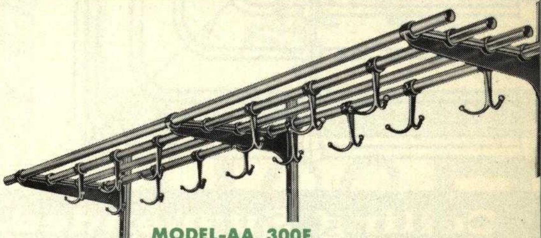
General Utility Shelf AA 100E

Matching all-purpose shelf can be used as added hat shelf to increase capacity of other units.—as a general purpose shelf for closets or storage. Mounted 6" off floor makes an excellent boot and shoe shelf. In short lengths makes an ideal towel rack for Hotels, motels, institutions and homes.

Hook Style RACKS

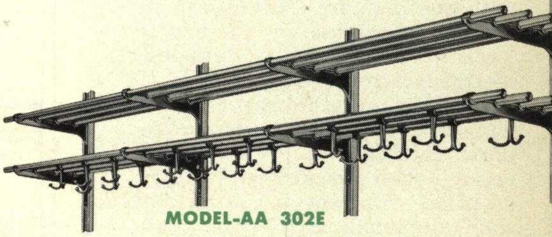






MODEL-AA 300E

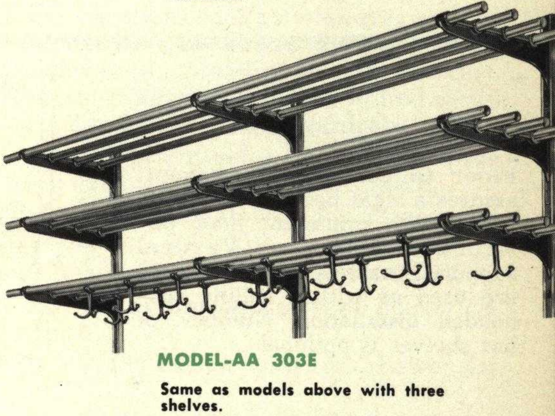
Single shelf unit with double anchor style aluminum coat hooks staggered on 2nd and 4th tube. Furnished in any length.



MODEL-AA 302E

Same as Model-AA 300E with one additional hat shelf.

For appearance and for easier access to hooks, we suggest the staggered hook arrangements illustrated.



MODEL-AA 303E

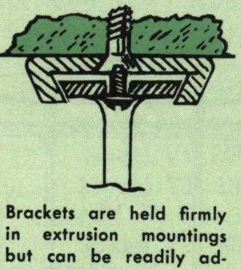
Same as models above with three shelves.

All Custom-Line racks are tailored to any required length.

"E" EXTRUSION MOUNTINGS

Anodized Aluminum extrusion mountings are furnished with all Custom-Line racks. The use of extruded mountings with our racks provide the following advantages.

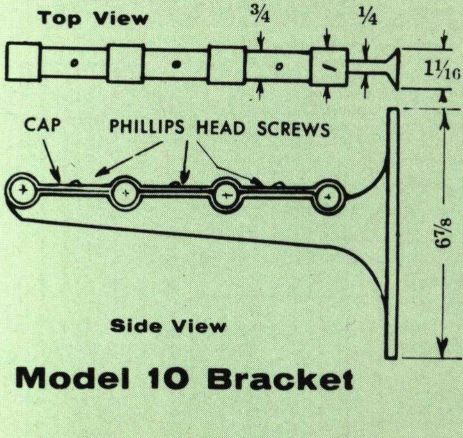
1. Added beauty in multiple shelf units.
2. Ease of adjustment where racks are to be used for growing children and alternate use between children and adults.
3. Perfect alignment of multiple shelf units.
4. Add strength to cast brackets and for firmer wall anchoring.
5. Extrusions available up to 84" in length.



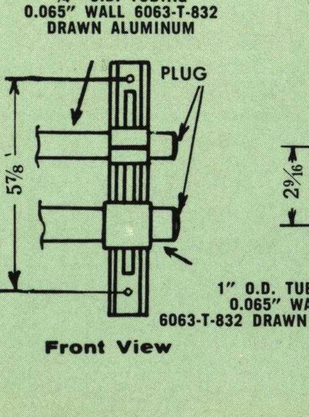
Brackets are held firmly in extrusion mountings but can be readily adjusted vertically to meet any height requirement such as in elementary schools.

Write to us on any special application that you may have.

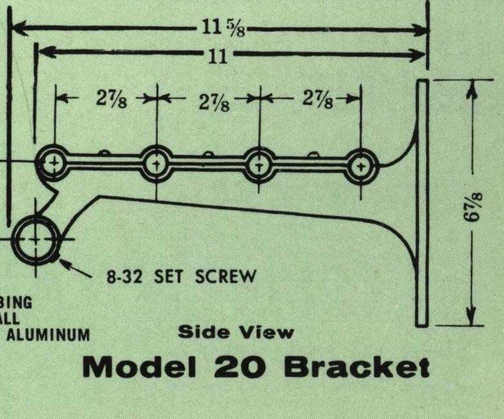
DETAIL of BRACKETS and TUBING


Top View
3/4
1/4
1 1/16
CAP
PHILLIPS HEAD SCREWS
6 7/8
Side View

Model 10 Bracket

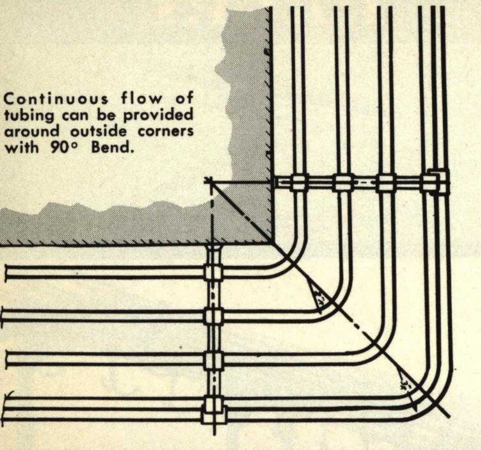

3/4" O.D. TUBING
0.065" WALL 6063-T-832
DRAWN ALUMINUM
PLUG
5 7/8
1" O.D. TUBING
0.065" WALL
6063-T-832 DRAWN ALUMINUM

Front View

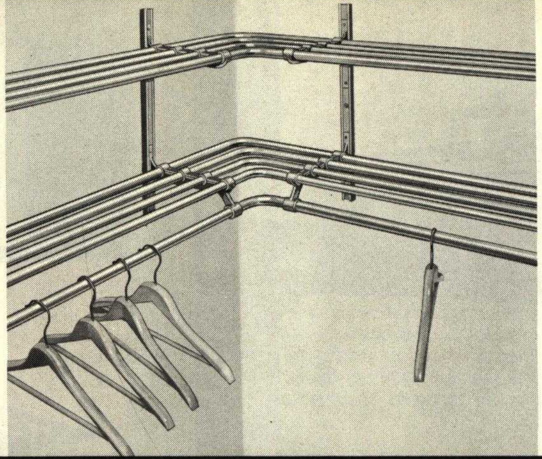

11 5/8
11
2 7/8
2 7/8
2 7/8
2 9/16
6 7/8
8-32 SET SCREW
Side View

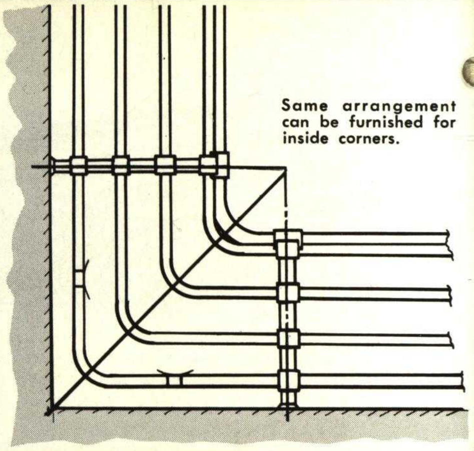
Model 20 Bracket

RIGHT ANGLE CORNER BENDS



Continuous flow of tubing can be provided around outside corners with 90° Bend.

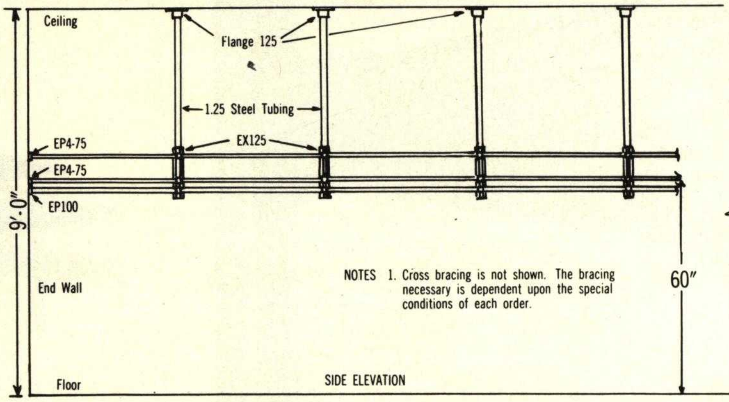




Same arrangement can be furnished for inside corners.

Ceiling Suspended and Floor to Ceiling Installations

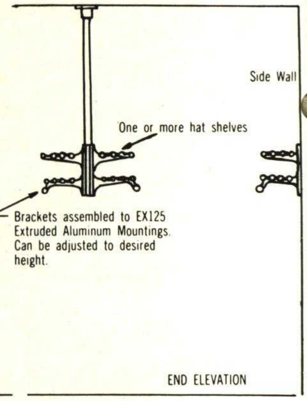
Where desired 200E or 300E series, with one or more shelves, can be ceiling suspended in a back to back arrangement as detailed. Vertical members are 1¼" x 16 gauge round steel tubes with flange #FL125 for ceiling supports. Extruded sections #EX125 receive shelf brackets and can be adjusted vertically for horizontal shelf alignment. END plate castings #EP475 and #EP100 can be used for shelf and hanger rail supports where racks extend to rear wall.



Ceiling
Flange 125
1.25 Steel Tubing
EP4-75
EX125
EP4-75
EP100
9'-0"
60"
End Wall
Floor

NOTES 1. Cross bracing is not shown. The bracing necessary is dependent upon the special conditions of each order.

SIDE ELEVATION

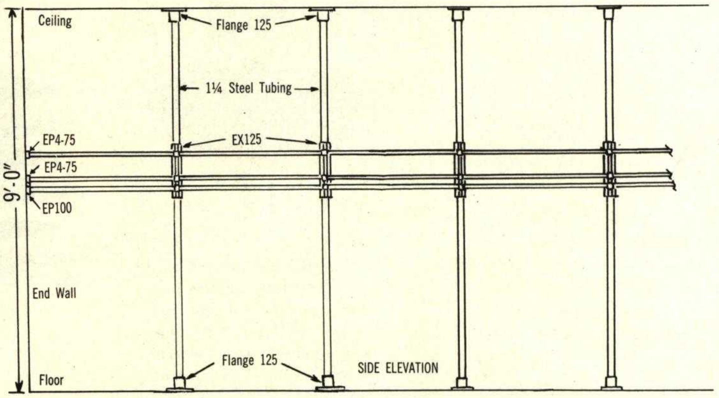


Side Wall
One or more hat shelves

Brackets assembled to EX125 Extruded Aluminum Mountings. Can be adjusted to desired height.

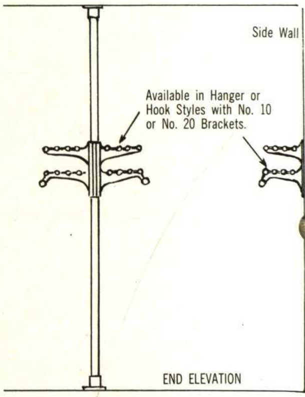
END ELEVATION

Floor to ceiling arrangement assures a rigid permanent installation with minimum floor obstruction. The same Vertical supports, castings and extrusions are used as with a ceiling suspended installation. Number. of hat shelves is optional



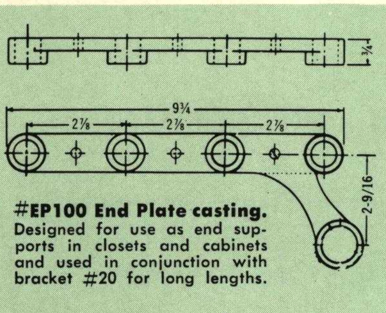
Ceiling
Flange 125
1¼ Steel Tubing
EP4-75
EX125
EP4-75
EP100
9'-0"
End Wall
Flange 125
Floor

SIDE ELEVATION



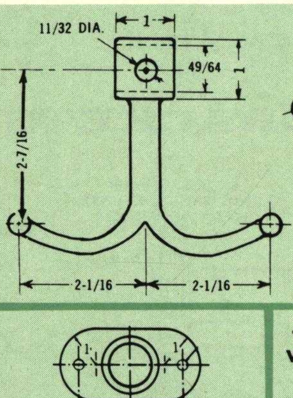
Available in Hanger or Hook Styles with No. 10 or No. 20 Brackets.

END ELEVATION

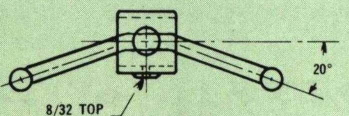


¾
9¼
2⅞
2⅞
2⅞
2-9/16
5/16

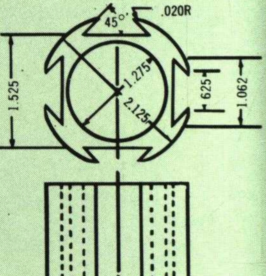
#EP100 End Plate casting. Designed for use as end supports in closets and cabinets and used in conjunction with bracket #20 for long lengths.



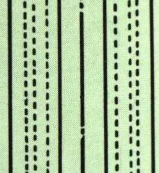
11/32 DIA.
1
49/64
1
2-7/16
2-1/16
2-1/16



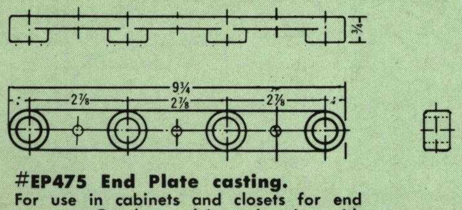
Double Anchor Type Die Cast Aluminum Coat Hook Designed for durability — capacity and smart appearance. Used on alternate rails they can be staggered to provide max. coat capacity.



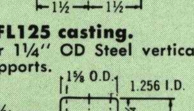
45°
.020R
1.525
1.275
2.125
.625
1.062



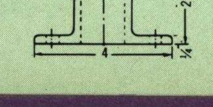
#EX125. Extruded aluminum shelf bracket support for use with 1¼" OD Round Vertical uprights.



#EP475 End Plate casting. For use in cabinets and closets for end supports. Can be used in conjunction with bracket #10 for lengths requiring intermediate support.

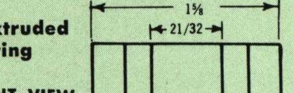


#FL125 casting. For 1¼" OD Steel vertical supports.



1⅜ O.D.
1.256 I.D.
3/16
¾
2½
4
¼

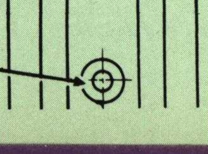
TOP VIEW



1-1/16
3/16
7/16

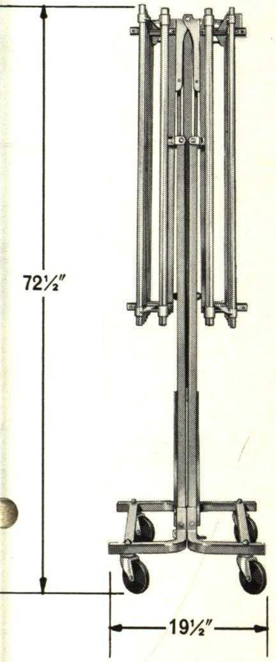
"E" Extruded Mounting

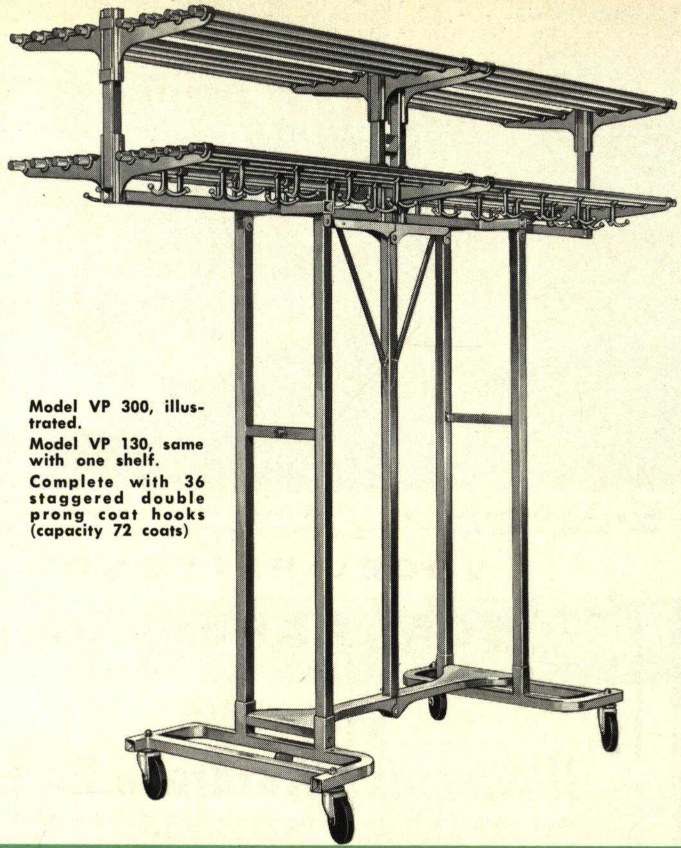
FRONT VIEW



9/32" DIA. COUNTER SUNK HOLE TO 11/32" DIA.

All models fold into compact portable and storable units. Ten Veeps that can handle 720 coats can be stored away into a floor space of only 4 ft. x 8 ft.

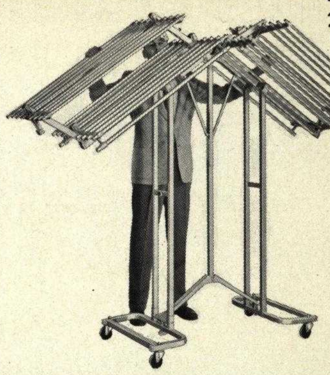




Model VP 300, illustrated.

Model VP 130, same with one shelf.

Complete with 36 staggered double prong coat hooks (capacity 72 coats)

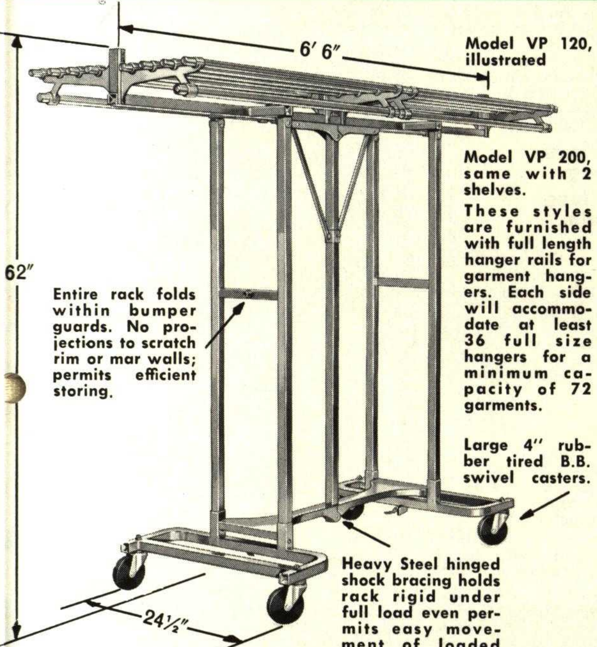


VOGEL-PETERSON

Veep®

Quick Folding

PORTABLE
Coat and Hat Racks



Model VP 120, illustrated

Model VP 200, same with 2 shelves.

These styles are furnished with full length hanger rails for garment hangers. Each side will accommodate at least 36 full size hangers for a minimum capacity of 72 garments.

Entire rack folds within bumper guards. No projections to scratch rim or mar walls; permits efficient storing.

Large 4″ rubber tired B.B. swivel casters.

Heavy Steel hinged shock bracing holds rack rigid under full load even permits easy movement of loaded racks.

Here is the complete answer to the ever changing wraps problem, Veep folding coat and hat racks that go wherever needed on large 4″ rubber tired casters . . . pass through ordinary doorways, ride ordinary elevators as readily as a service cart. Engineered and self-balanced so cleverly that they unfold easily with one movement into a big capacity, rigid wardrobe rack.

Strongly built bases of plated square tubular steel support wide hat shelves of smart closed end anodized aluminum tubing.

Four types: Model VP 120 with hanger bars for 72 garment hangers and one shelf for hats.

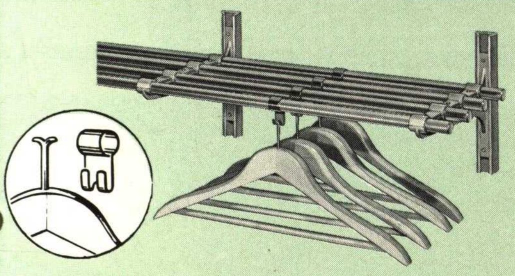
Model VP 200 same as above with two shelves for hats.

Model VP 130 with cast aluminum anchor coat hooks, capacity 72. One shelf for hats.

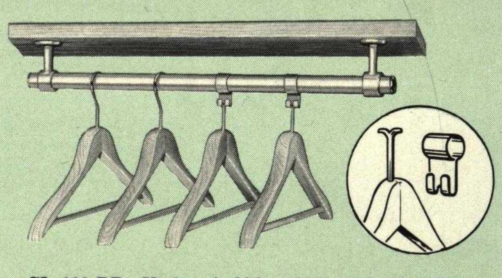
Model VP 300 same as VP 130 except with two shelves for hats.

One man can set up a Veep Folding Wardrobe Rack in 3 seconds. These racks are so carefully balanced that unfolding and snap-locking them rigid ready for use requires only raising ones arms in an upward sweep.

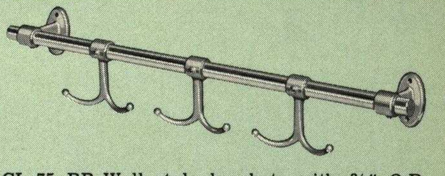
CLOSET ACCESSORIES



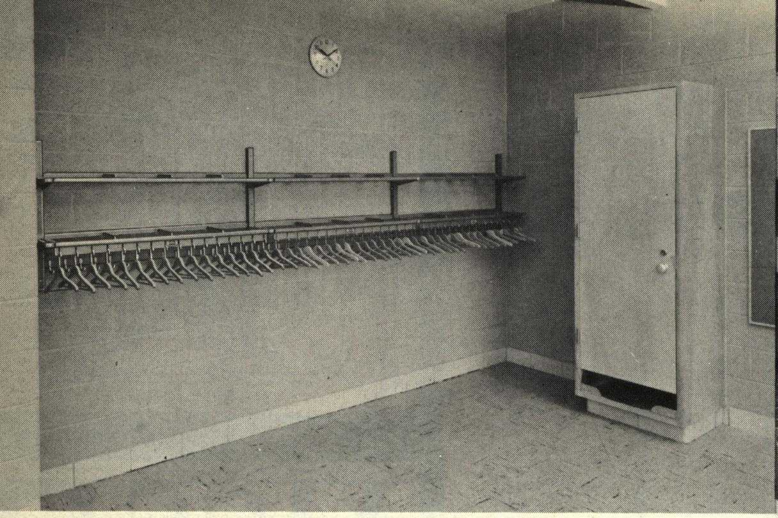
Illustrated is the use of Y75 receptacles and Y18P. (Parallel to Wall) garment hangers on AA100E Utility Shelf. This arrangement ideal for shallow closets or where hangers should not extend beyond face of hat shelf. For added groups of 4 garment hangers receptacles are spaced approx. 24″ O.C.



CL-100 BR—Under shelf brackets with 1″ O.D. anodized aluminum tubing comes in any length required with brackets properly spaced to assure maximum rigidity. Illustrated with 2 WS18 conventional hangers (left) and 2 Y18X special hangers with Y receptacles (right). Y style hangers can be used only with Y receptacles reducing hanger loss to minimum.

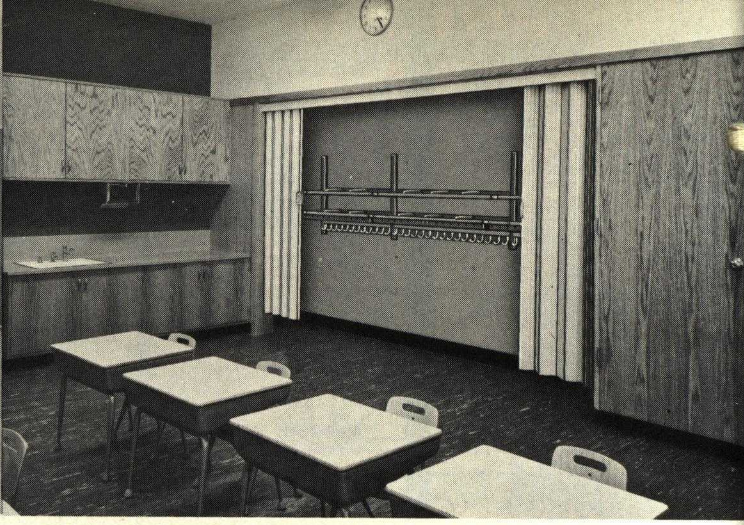


CL-75 BR-Wall style brackets with ¾″ O.D. Anodized Aluminum tubing are furnished any length with sufficient number of brackets for maximum support. Illustrated as wall hook strip using Anchor Type Cast Aluminum hooks. Illustrated below CL-75 BR utility rod can be used as towel bar—hand rail, etc.



Waterford Eelementary School
Waterford, Michigan

George D. Mason, Architect
Wm. Shunck, School Supt.

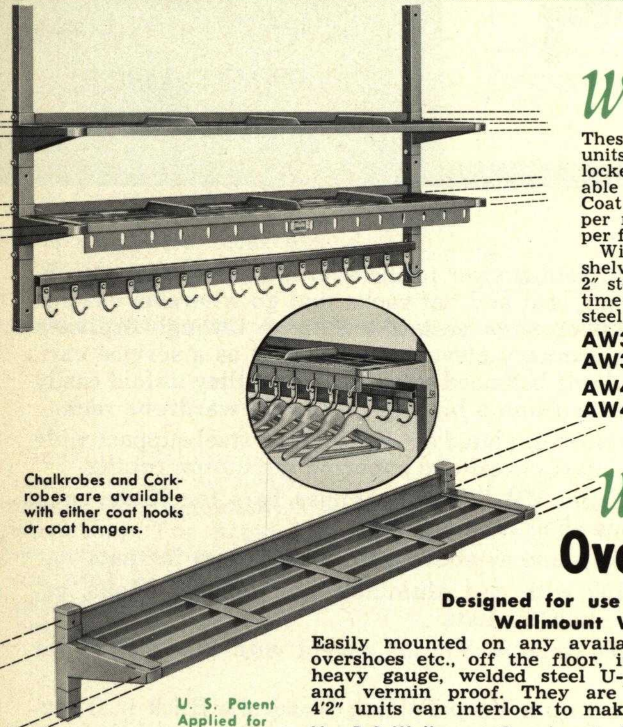


Minnewashta Elementary School
Excelsior, Minnesota

Thorshov & Cerny,
Minneapolis, Architect
Wm. O. Nilsen, School Supt.

VOGEL-PETERSON CO.

Schooline® *Wallmounts* – COAT, HAT and OVERSHOE RACKS



Chalkrobes and Cork-robes are available with either coat hooks or coat hangers.

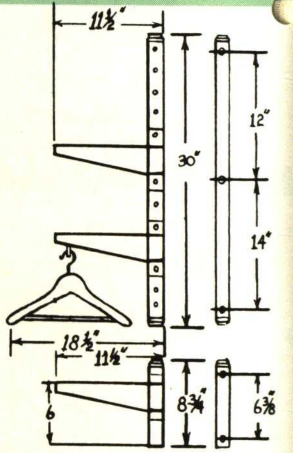
U. S. Patent Applied for
* VOGEL-PETERSON TRADE MARK

Adjustable *Wallmount** Wardrobe Racks

These efficient coat and hat racks come in 3′-2″ and 4′-2″ length units which mount directly on any wall, independently or interlocked to make continuous racks of any length—fit in any available space. They have large capacity. AWHR Models hold 3 or 4 Coat Hangers per running foot—AWHK Models hold 5 or 6 Hooks per running foot. Specify desired capacity of hangers or hooks per foot.

With supporting columns permanently attached to the wall, the shelves are adjustable for height from floor, or distance apart, in 2″ steps over a 30″ range. Hench shelves can be adjusted at any time to serve any age group. Strongly welded of heavy gauge steel they will stand up under years of hard use.

AW3HR (HANGER STYLE) — 3′-2″ long.
AW3HK (HOOK STYLE) — 3′-2″ long.
AW4HR (HANGER STYLE) — 4′-2″ long.
AW4HK (HOOK STYLE) — 4′-2″ long.

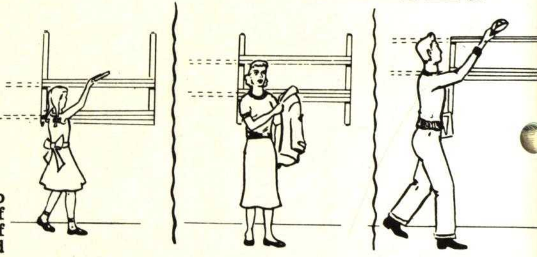


*Wallmount** Overshoe Racks

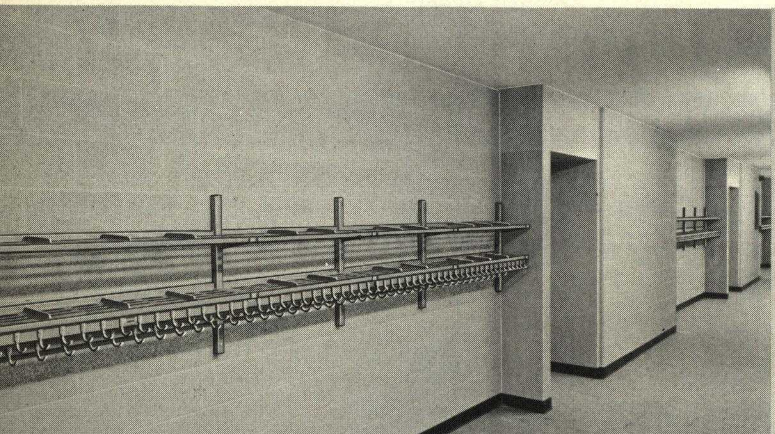
Designed for use in combination with Wallmount Wardrobe Racks.

Easily mounted on any available wall these sturdy racks keep overshoes etc., off the floor, in a safe orderly manner. Built of heavy gauge, welded steel U-forms they are strong, fire proof and vermin proof. They are so designed that basic 3′2″ and 4′2″ units can interlock to make a continuous rack of any length.

No. B-3 Wallmount Overshoe Rack is 3′2″ long.
No. B-4 Wallmount Overshoe Rack is 4′2″ long.

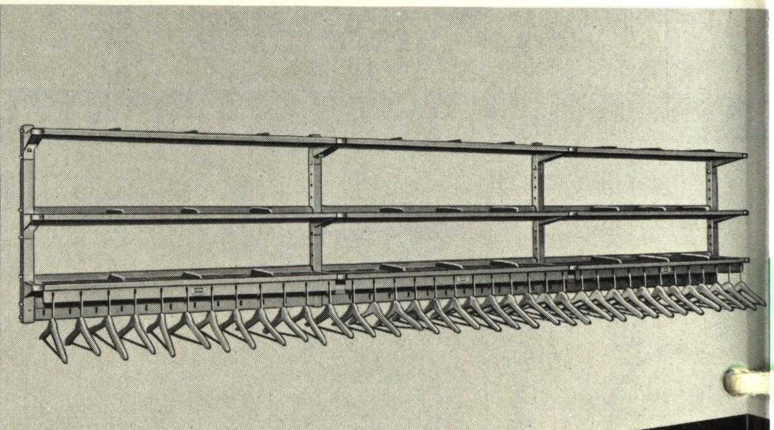


Shelves are adjustable for height to fit every age group without detaching from wall.



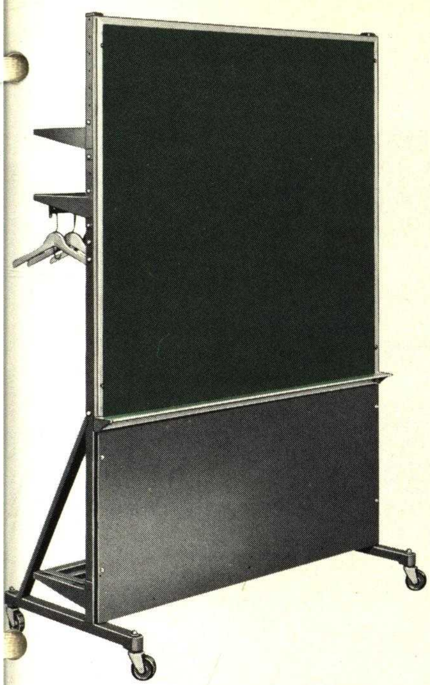
Douglas School Addition
Garden City, Michigan

Walter T. Anicka, Architect
Edwin O'Leary, School Supt.



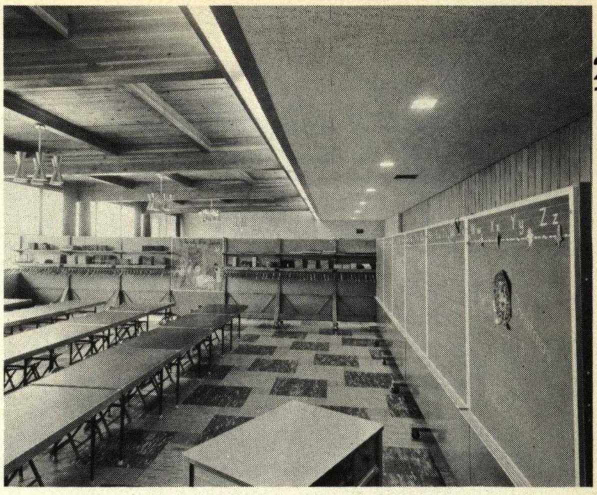
Eastgate Elementary School
Bellevue, Washington

Naramore, Bain, Brady
& Johanson, Seattle,
Architects
George V. Brain, School Supt.



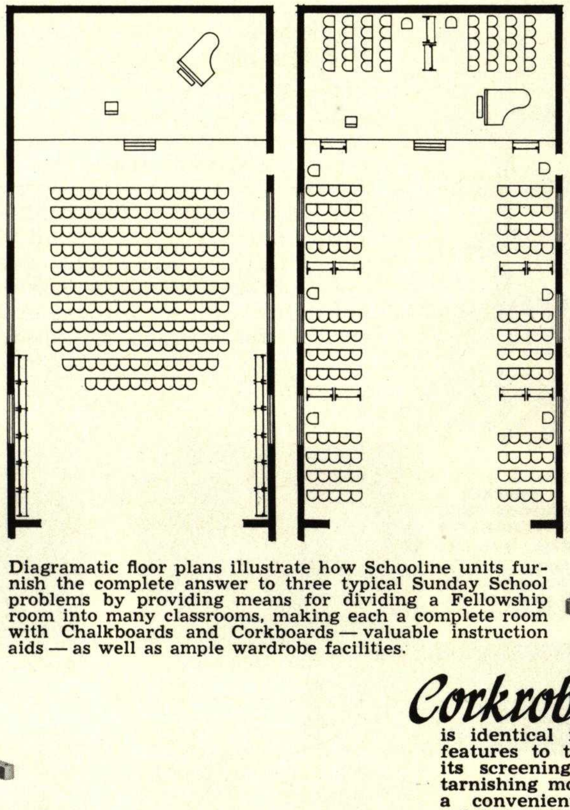
Paneled Units double as "Movable Walls"

All Schooline Chalkrobes and Corkrobes come drilled to receive base enclosure panels which can come as original equipment or added at any time. With panels installed, these units provide not only wardrobe facilities but movable wall units that extend from above the floor to a height of 6'4". They permit complete flexibility in dividing rooms, for screening out distractions or for adapting temporary space for classroom needs. See illustration, right, where Chalkrobes and Corkrobes have formed two separated rooms and provided an entry corridor.

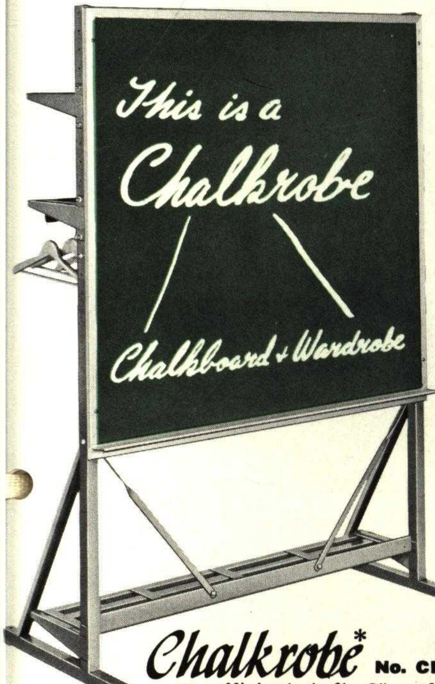


Our Lady, Star of the Sea, Church School, Detroit, Michigan

Robert L. Svoboda, Archt.
Rev. Ralph Barton, Pastor



Diagramatic floor plans illustrate how Schooline units furnish the complete answer to three typical Sunday School problems by providing means for dividing a Fellowship room into many classrooms, making each a complete room with Chalkboards and Corkboards — valuable instruction aids — as well as ample wardrobe facilities.

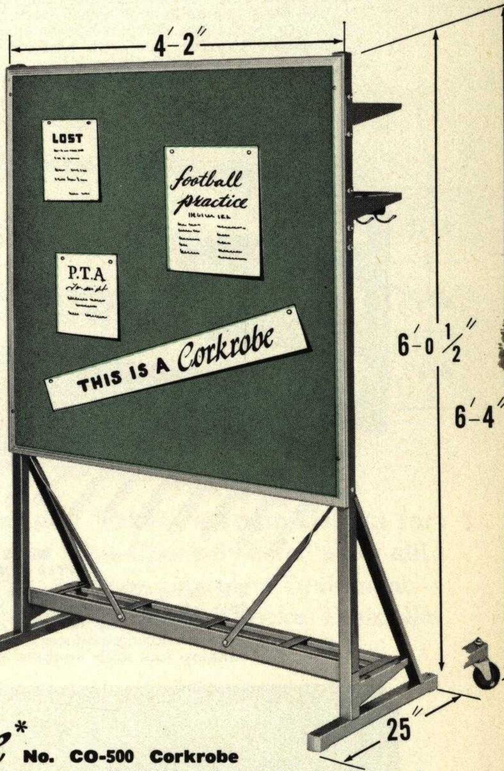


*Chalkrobe** (illustrated left) No. CH-400 Chalkrobe

an efficient 4 ft. 2" welded steel wardrobe rack unit that permits absolute flexibility in school design. It has large capacity, goes anywhere, can be used singly or in groups and provides a movable chalkboard.

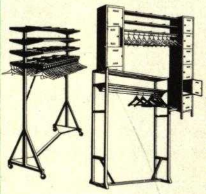
Hat shelves with coat rails are adjustable for height to accommodate different age groups. They provide pupils with a ventilated shelf space, a coat hook or coat hanger and an off-the-floor rack for overshoes. They come on glides, on ballbearing casters or can be anchored to the floor. Built for lifetime service of heavy gauge welded steel, they are permanently beautiful in modern Desert Sage baked enamel.

Chalkrobes are backed with quality chalkboards—are dual purpose units.



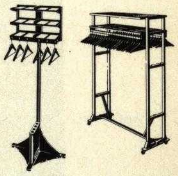
*Corkrobe** No. CO-500 Corkrobe

is identical in frame, adjustable shelves, capacity and features to the **Chalkrobe** described above, except that its screening back is a cork board. Framed in non-tarnishing moulding this 4'-2" x 4'-0" cork board provides a convenient surface for mounting maps, pictures, exhibits and announcements, etc. Not only as a compact efficient wardrobe but as a flexible teaching tool these units adapt themselves to any floor plan.



WRITE for CATALOG

Showing and describing a complete line of especially suited wardrobe equipment for holding, storing and drying athletic gear, band uniforms, choir robes —racks for school cafeterias, PTA meeting rooms and auditoriums . . . Locker racks and Office Valet units for the school offices.



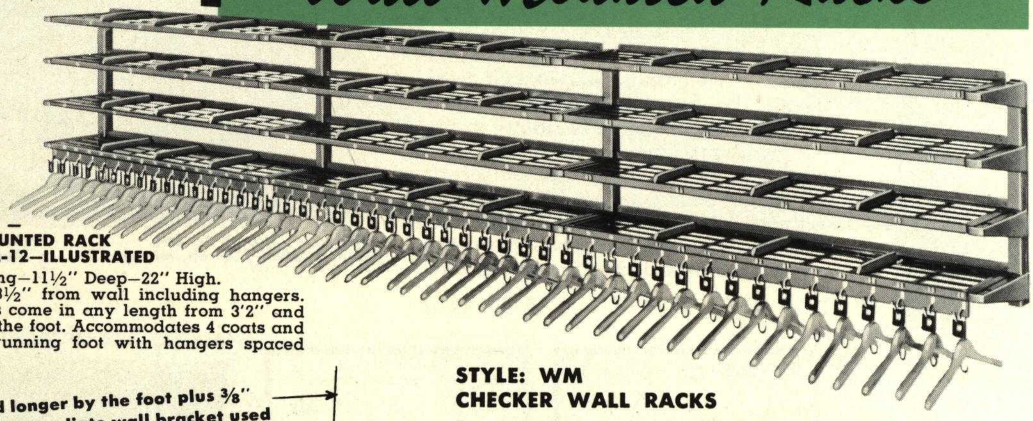
*Schooline** Wardrobe Equipment is manufactured by

VOGEL-PETERSON COMPANY • ELMHURST, ILLINOIS

See the following pages illustrating our Checker coat and hat rack equipment, both hanger and hook styles, for checkrooms and coat rooms.

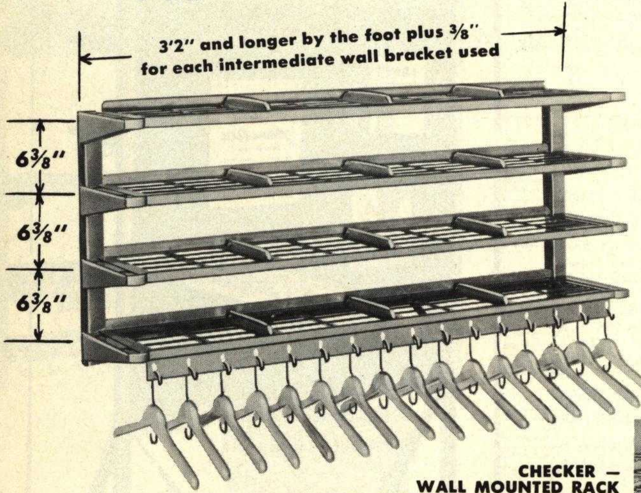
Checker®

Wall Mounted Racks



CHECKER — WALL MOUNTED RACK STYLE WM-12—ILLUSTRATED

12'2¾" Long—11½" Deep—22" High. Extends 18½" from wall including hangers. WM Series come in any length from 3'2" and longer by the foot. Accommodates 4 coats and hats per running foot with hangers spaced 3" o. c.

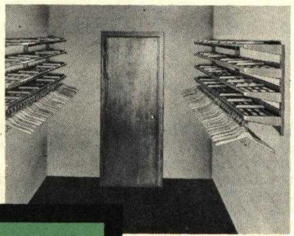

3'2" and longer by the foot plus ⅜" for each intermediate wall bracket used
6⅜"
6⅜"
6⅜"

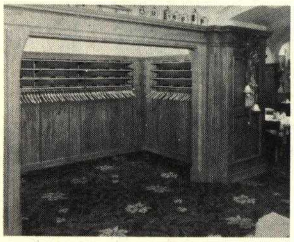
CHECKER — WALL MOUNTED RACK STYLE WM-4—ILLUSTRATED

4'2" Long—11½" Deep—22" High. Extends 18½" from wall including hangers. WM Series come in any length 3'2" and longer by the foot. Accommodates 4 coats and hats per running foot with hangers spaced 3" o. c.

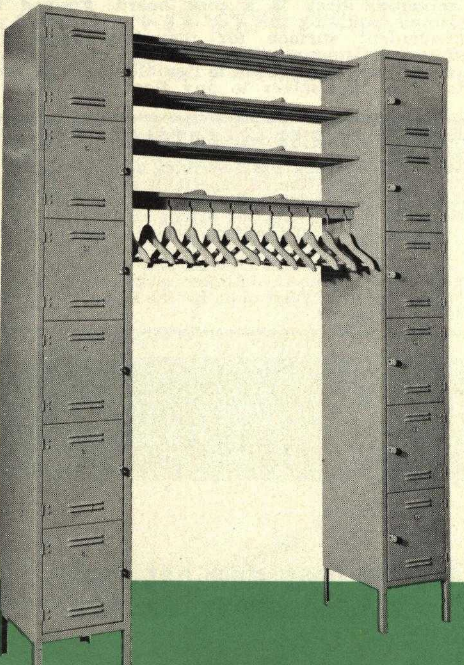
STYLE: WM
CHECKER WALL RACKS

These efficient coat and hat units mount rigidly on walls, accommodate 4 persons per running foot providing for each his individual (numbered) ventilated hat space and coat hanger. Come in any length by the foot, fit in anywhere. Hat shelves extend only 11½ inches from wall. Can be mounted at any height—to accommodate different age groups. Ideal for school cloak rooms, etc. Give cabinet wardrobes and closets check room efficiency. Available with or without numbers. Lifetime welded steel construction, finished in baked enamel.





Locker Racks



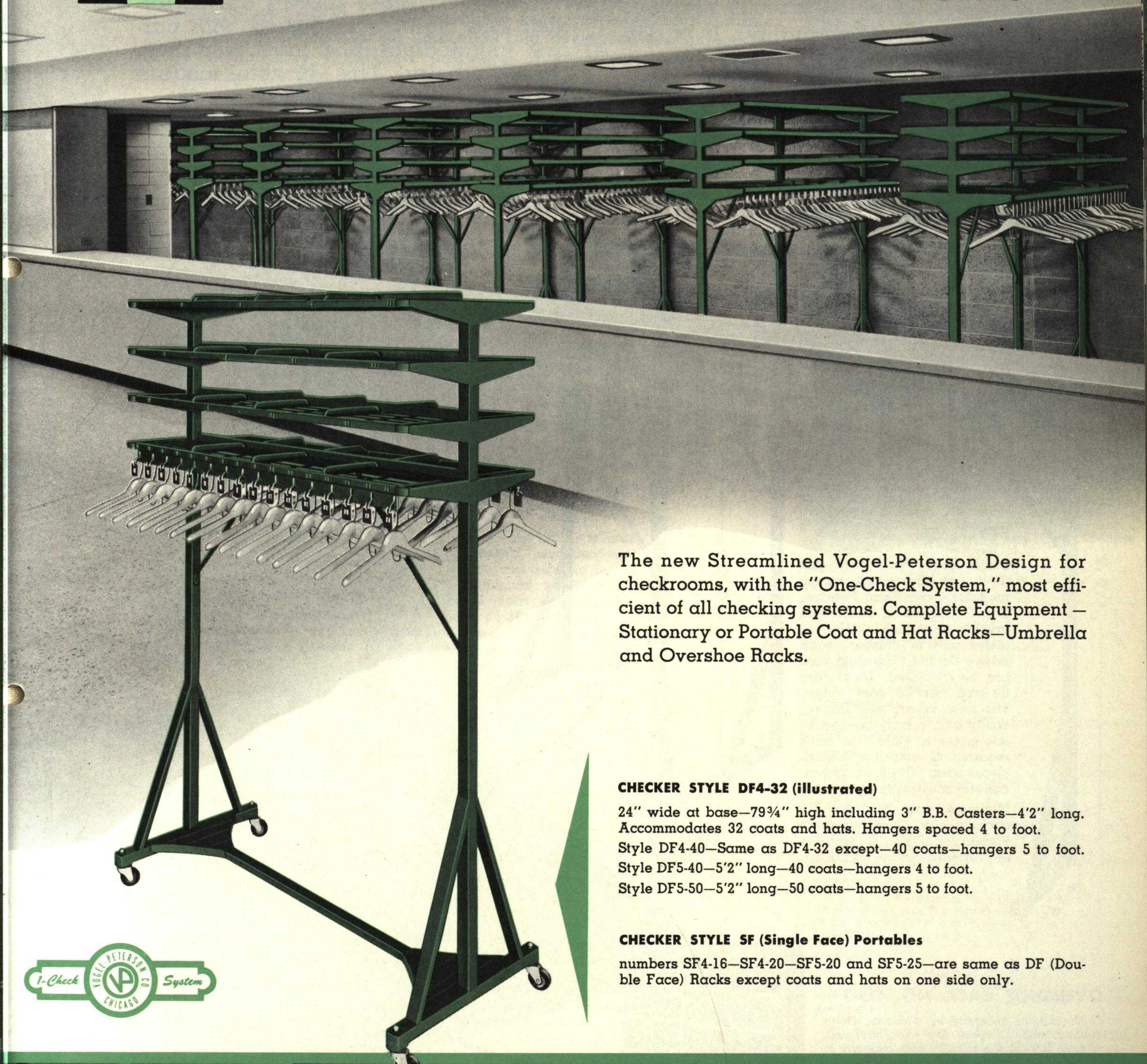
NO. LR-3B LOCKER RACKS

Combine the best features of both lockers and wardrobe racks. Keep clothing dry, aired and "in press." Accommodate 12 people in 5'0"x15" floorspace. Height 6'7½". Provide each with ventilated hat space, coat hanger and 12"x12"x15" Lock Box (6 to each pedestal). Doors open left and right have "stay shut" hasp. (Built-in flat master keyed locks available.) Keep wet clothing away from lunches, drawing instruments, micrometers and such personal effects. Improve health and morale.

Durable steel construction, baked-on enamel finish—green, brown or gray. Leg adjustments compensate for irregularities in floor. Portable and space saving, can be installed near point of work to end locker-room evils.

Checker® Coat Room Equipment
Manufactured only by VOGEL-PETERSON CO.

Checker® COAT and HAT RACKS



The new Streamlined Vogel-Peterson Design for checkrooms, with the "One-Check System," most efficient of all checking systems. Complete Equipment — Stationary or Portable Coat and Hat Racks—Umbrella and Overshoe Racks.

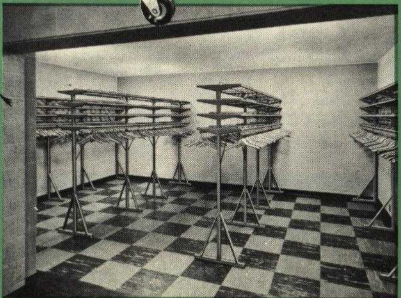
CHECKER STYLE DF4-32 (illustrated)

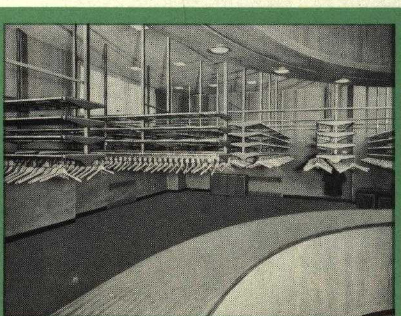
24" wide at base—79¾" high including 3" B.B. Casters—4'2" long. Accommodates 32 coats and hats. Hangers spaced 4 to foot.
Style DF4-40—Same as DF4-32 except—40 coats—hangers 5 to foot.
Style DF5-40—5'2" long—40 coats—hangers 4 to foot.
Style DF5-50—5'2" long—50 coats—hangers 5 to foot.

CHECKER STYLE SF (Single Face) Portables

numbers SF4-16—SF4-20—SF5-20 and SF5-25—are same as DF (Double Face) Racks except coats and hats on one side only.

1-Check VOGEL-PETERSON CO CHICAGO VP System





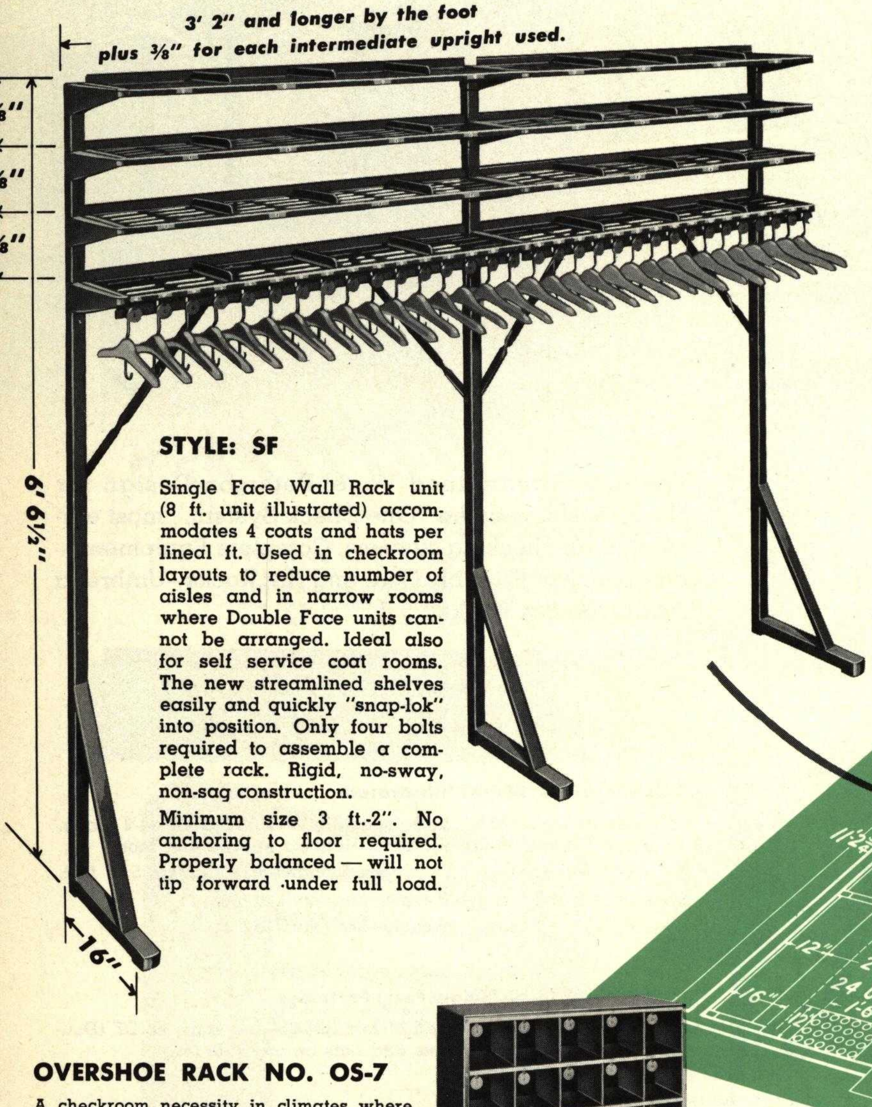
Checker®

Trade-Mark Registered—U. S. Pat. Off.

COAT and HAT RACKS

Vogel-Peterson checkroom equipment is the finest available, correctly designed and unequalled in quality. It is constructed of electrically welded heavy gauge steel, with square tubular posts. Available in standard units 3, 4 and 5 ft. long that interlock to make any length. Vogel-Peterson High Relief, "Dust Free" Hat Shelves. These shelves are perforated and multiple embossed with narrow longitudinal ribs that keep hats clean and dry. This durable, modern shelving is built for lifetime service.

The hanger rail shelves will support at least 100 lbs. per running foot.


3' 2" and longer by the foot
plus 3/8" for each intermediate upright used.
6' 6½"
16"

STYLE: SF

Single Face Wall Rack unit (8 ft. unit illustrated) accommodates 4 coats and hats per lineal ft. Used in checkroom layouts to reduce number of aisles and in narrow rooms where Double Face units cannot be arranged. Ideal also for self service coat rooms. The new streamlined shelves easily and quickly "snap-lok" into position. Only four bolts required to assemble a complete rack. Rigid, no-sway, non-sag construction.

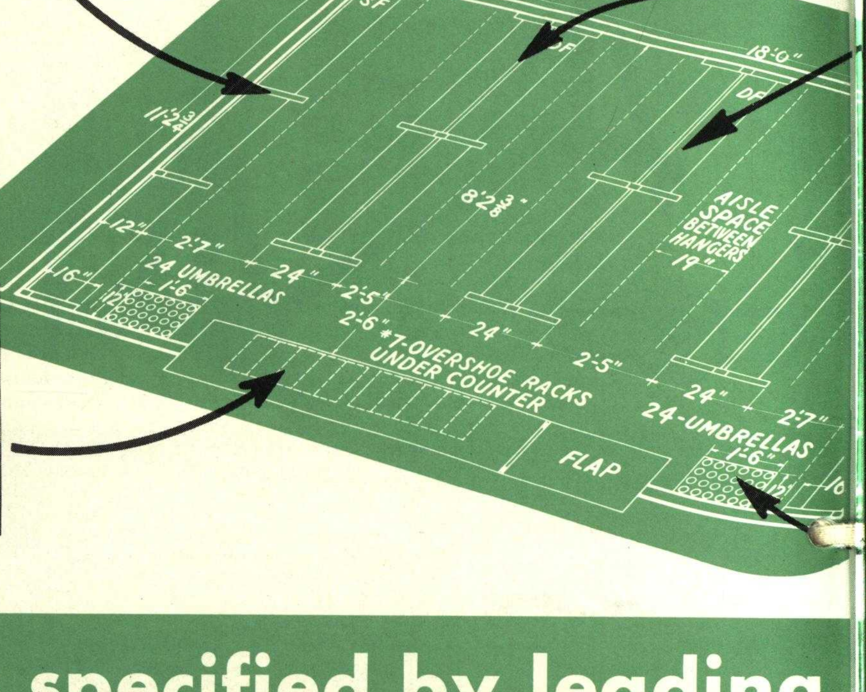
Minimum size 3 ft.-2". No anchoring to floor required. Properly balanced — will not tip forward under full load.

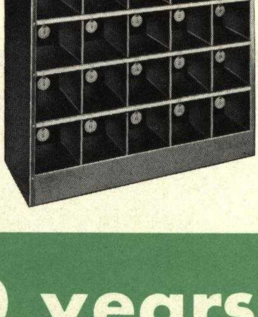
Planning an Efficient Checkroom

Recommended factor ¾ sq. ft. per hanger capacity. This will permit a complete checking service for coats and hats — umbrella and overshoe requirements.
Minimum ceiling height—7 ft.
Standard spacing of coat hangers is on 3" centers (4 to the lineal ft.). Capacity can be increased 25% by spacing hangers 2½" on center (5 to the ft.). Layout service is offered to architects and building owners without charge.
Send

1. Floor Plan (indicate door and window openings, radiators, pipes, etc.)
2. Capacity to be accommodated
3. Type of installation—permanent, portable or combination of permanent and portable.

Avail yourself of our 30 years' experience and practical knowledge of checkroom requirements.





OVERSHOE RACK NO. OS-7

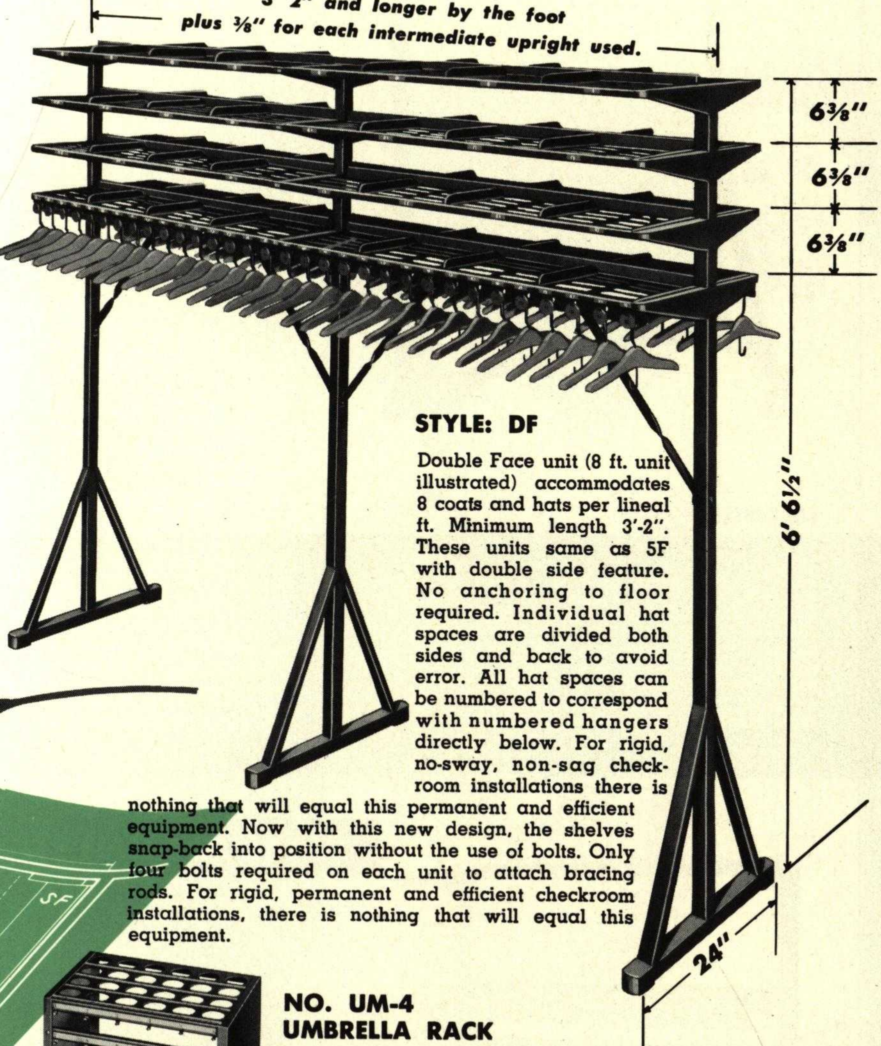
A checkroom necessity in climates where rubbers and galoshes are used. Approximately 20% of the total hanger capacity is usually a sufficient amount. Compartments measure 6" x 6" x 13" deep. These units become an integral part of the 1-check system when used with checkroom coat and hat racks. Furnished in standard size units of 25 capacity 31" wide, 13⅜" deep x 33" high.

For over 30 years specified by leading

SPEED UP CHECKING SERVICE WITH THE *One-Check System*

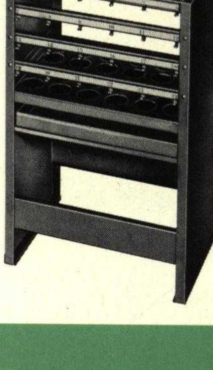
1-Check VOGEL-PETERSON CO. CHICAGO System

With this system a single check identifies all items checked, whether it be one or several. Each coat on a numbered hanger space—each hat in a correspondingly numbered hat space. Canes, umbrellas and overshoes are placed in systematically numbered umbrella or overshoe racks. Cross checks from overshoe and umbrella racks may differ—still are immediately keyed to master guest check. There is no lost time, no errors, confusion, delays nor complaints, because guests need carry only one check, which ends necessity of multiple handling by attendants.


3' 2" and longer by the foot plus 3/8" for each intermediate upright used.
6⅜"
6⅜"
6⅜"
6' 6½"
24"

STYLE: DF

Double Face unit (8 ft. unit illustrated) accommodates 8 coats and hats per lineal ft. Minimum length 3'-2". These units same as 5F with double side feature. No anchoring to floor required. Individual hat spaces are divided both sides and back to avoid error. All hat spaces can be numbered to correspond with numbered hangers directly below. For rigid, no-sway, non-sag checkroom installations there is nothing that will equal this permanent and efficient equipment. Now with this new design, the shelves snap-back into position without the use of bolts. Only four bolts required on each unit to attach bracing rods. For rigid, permanent and efficient checkroom installations, there is nothing that will equal this equipment.



NO. UM-4 UMBRELLA RACK

A very important checkroom accessory which answers the "what to do with wet umbrellas" question. Racks are systematically numbered. Round umbrella dividers are hemmed to give a smooth no-tear edge. Come in standard units of 16 and 24 capacity sizes. Height, 28"; depth, 13"; width, 16 capacity, 12¼"; width, 24 capacity, 17¾". These units also an integral part of "One-check system." Approximately 20% of hanger capacity meet overall requirements.

Specifications and Construction Details

UPRIGHT FRAME

Welded into one rigid unit. Posts 1½" x 1½" 18-gauge welded square tubing. Shelf arms—tapered U-channel 20-gauge punched out to engage 1½" sq. post and welded thereto. Arms ar reinforced with inserted U-Channel—ends cappe with round formed stamping. Hat shelves engag into slots in arms by means of integral self-locking clips.

Bases #16 gauge 1⅝" wide x 1¼" high anc punched out to engage post and welded thereto Box inserts raise base member at extreme enc ¼" from floor. Base ends are capped with rounc formed stamping welded into ends. Diagona brace of one-piece channel #18 gauge weldec post to base.

SHELVES

One-piece design perforated and embossed sheets of 24-gauge steel welded into rigid channel angle and T frame.

Front channel $\frac{9}{16}$" x $\frac{13}{16}$" x $\frac{9}{16}$" x 16 gauge.

Back Angle 1" x ½" x 16 gauge.

Ends are T-shaped 1¼" x ¾" x 16 gauge with two self-locking clips welded under each end.

Narrow longitudinal embossed ribs between perforations hold hats free of dust. Hat dividers embossed 1" high across shelves 12" on center.

Hanger rail is 1¾" flange extension of front channel of lower shelf only. Bottom of flange is hemmed to give smooth edge and reinforce V-punched notches that receive garment hangers.

V-punched notches are on pre-determined-centers.

Sway Braces—$\frac{3}{16}$" x ¾" round edge steel.

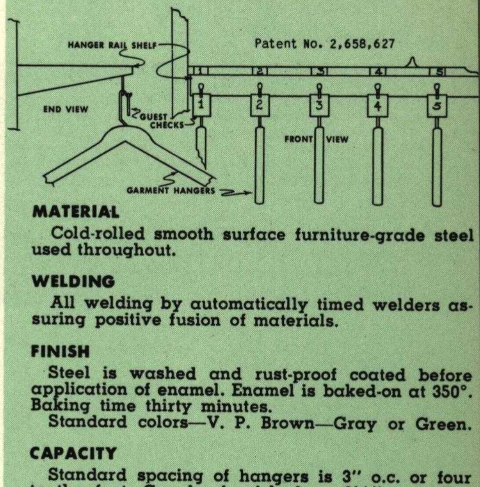
GARMENT HANGERS

Hardwood hangers. No. 10 hard steel rustless wire hook formed to receive guest checks on top (locks hanger on rail preventing knocking off accidentally) and with auxiliary hook beneath shoe bags, umbrellas, etc.

NUMBERING AND CHECKS

Hanger and hat spaces numbered with large clear cut white numerals hot-stamped into clear extruded plastic clips that snap over front shelf channels—furnished only if specified.

Plastic checks 1½" x 1$\frac{11}{16}$" with large clear hot-stamped numbers. Furnished only if specified. Checks furnished in three colors—Black—Gray—Red. Printed with name of user when specified.



MATERIAL

Cold-rolled smooth surface furniture-grade steel used throughout.

WELDING

All welding by automatically timed welders assuring positive fusion of materials.

FINISH

Steel is washed and rust-proof coated before application of enamel. Enamel is baked-on at 350°. Baking time thirty minutes.

Standard colors—V. P. Brown—Gray or Green.

CAPACITY

Standard spacing of hangers is 3" o.c. or four to the foot. Can be furnished on 2½" o.c.—five to the foot — or 4" o.c. — three to the foot — when specified.

CASTERS

3-inch Ball-bearing Swivel Casters.

Furnished only when specified. It is not recommended that casters be used on racks exceeding ten feet in length.

All racks ordered with casters are furnished with bottom bracing and gussets extending between base sections of uprights. (See Page 1.)

NOTE: Wall-mounted units are same construction as shelf portion of rack SF with holes punched through tubing for wall mounting. Screws — toggles or expansion bolts for wall fastening are not furnished.

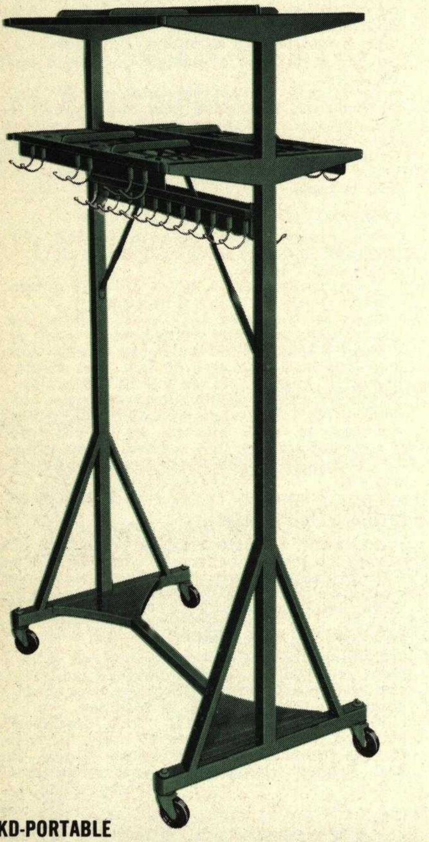
SPECIAL: All units can be ordered with special spacing between shelving or with fewer than four shelves, which is standard.

architects, engineers and furnishers

Checker®

HOOK TYPE
COAT AND HAT RACKS

DOUBLE FACE



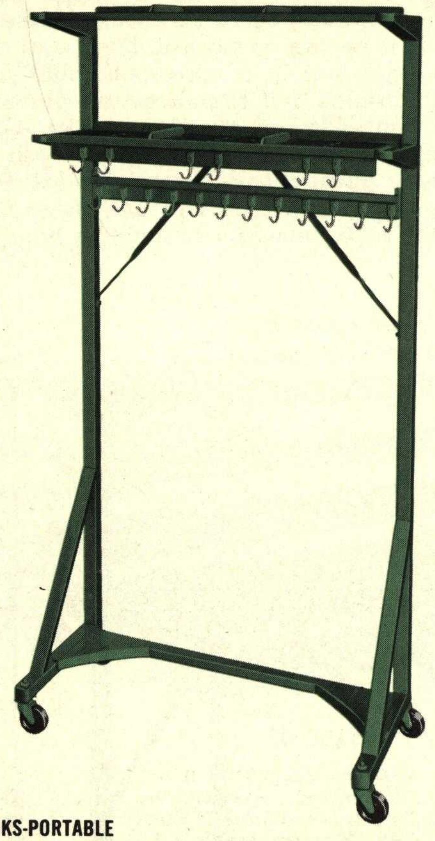
HKD-PORTABLE

These 2-sided (island) racks give maximum capacity for size — accommodate 12 persons per foot of length. Go wherever needed on large 3″ ball-bearing swivel casters. Ideal for private dining rooms, luncheon groups and general use. HKD Portables come in following sizes:

No. HKD-3-36	3′2″ long	76¾″ high	36 coats and hats
No. HKD-4-48	4′2″ long	76¾″ high	48 coats and hats
No. HKD-5-60	5′2″ long	76¾″ high	60 coats and hats

All sizes available without casters or bottom shock bracing for stationary installation.

SINGLE FACE



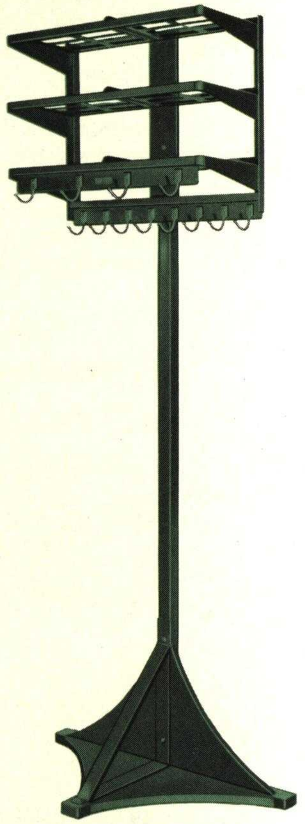
HKS-PORTABLE

These extra capacity racks come on large 3″ ball-bearing swivel casters — stand rigidly and snugly against the wall or roll to any place needed. Have 2 full-length rails with staggered hooks and ample hat space. HKS Portables come in following sizes:

No. HKS-3-18	3′2″ long	76¾″ high	18 coats and hats
No. HKS-4-24	4′2″ long	76¾″ high	24 coats and hats
No. HKS-5-30	5′2″ long	76¾″ high	30 coats and hats

All above sizes available without casters or bottom shock bracing for stationary installations.

SINGLE PEDESTAL



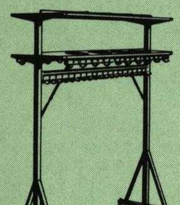
RS-12

Designed especially for restaurant use, this space saving rack will accommodate patrons of from 3 to 6 four-place tables. Use against any wall partition or post. All wraps face out — no reaching around or in back for wraps.

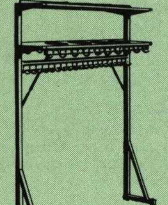
Capacity: 12 coats with ample hat space.

Dimensions: Base 30″ wide, 16″ deep, 76″ high, less than 3½ sq. ft. of floor space. Set on 3 heavy vacuum-cup rubber shoes.

Top Section: 24″ wide — 12″ deep.

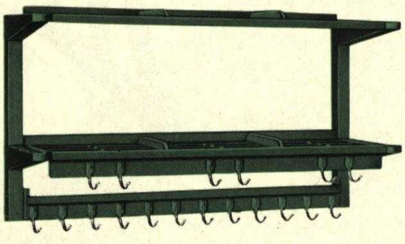


HKD



HKS

Checker Hook Type comes in Single-Face—Double-Face Floor Models—as well as Wall-Mounted units—and in multiple interlocked sections to fit almost any area.



HKW WALL MOUNTS

WALL MOUNTED RACKS

This large-capacity space saving Checker hook style Wall Rack mounts on any available wall space. Extending but 12″ from the wall, each carries two full length rails with staggered hooks and two widely spaced hat shelves. Accommodates 6 patrons per running foot of length.

	Length	Capacity
No. HKW-3	3 ft. 2 in.	18
No. HKW-4	4 ft. 2 in.	24
No. HKW-5	5 ft. 2 in.	30

Combinations of the above units can be interlocked to make a continuous wall rack of any length or desired capacity.

VOGEL-PETERSON COMPANY • ELMHURST, ILLINOIS

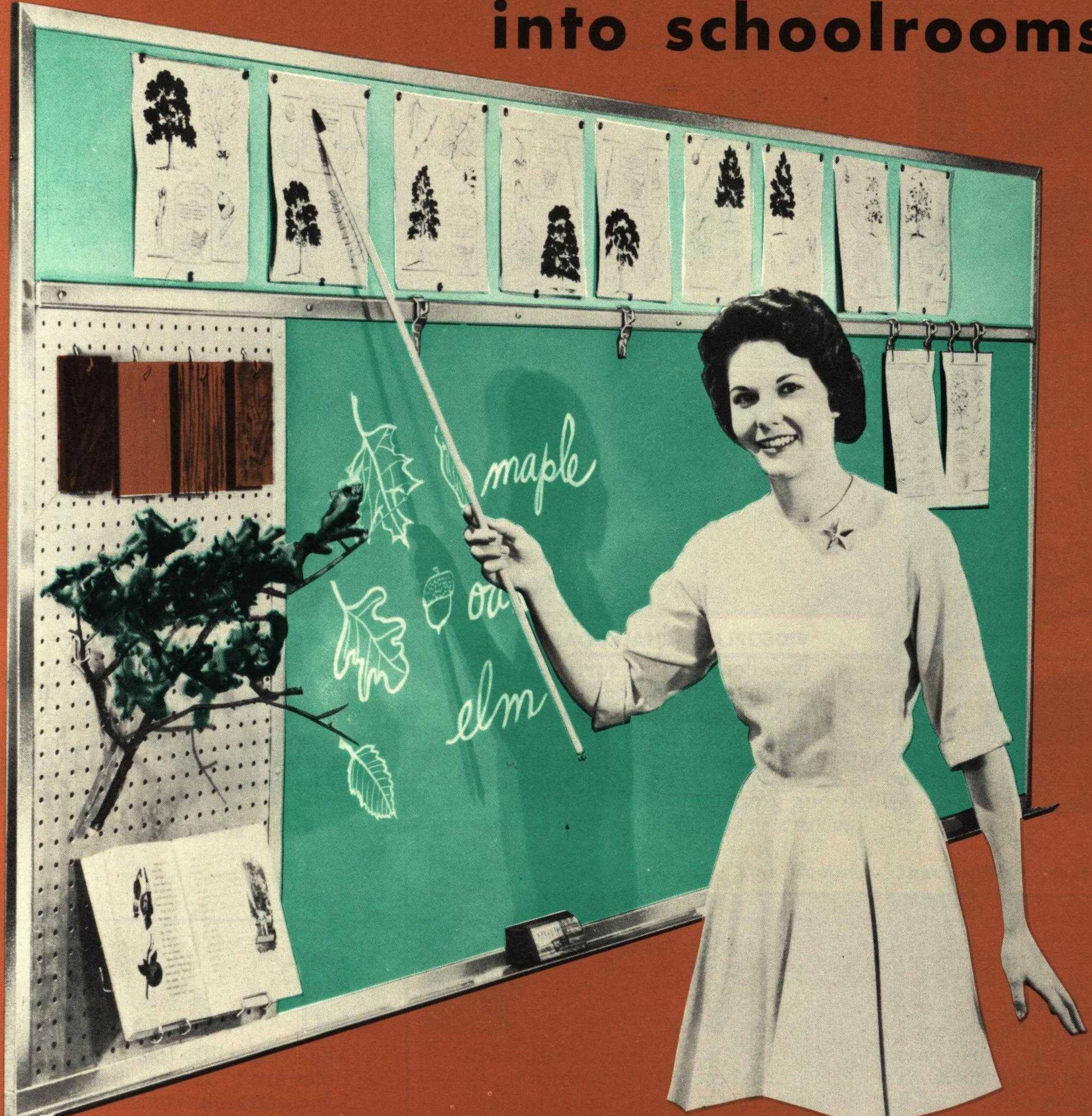
Write Dept. SA60 for catalogs illustrating other racks in the Office Valet and Checkerette lines.

Printed in U. S. A.

BECKLEY-CARDY COMPANY

23e
Be

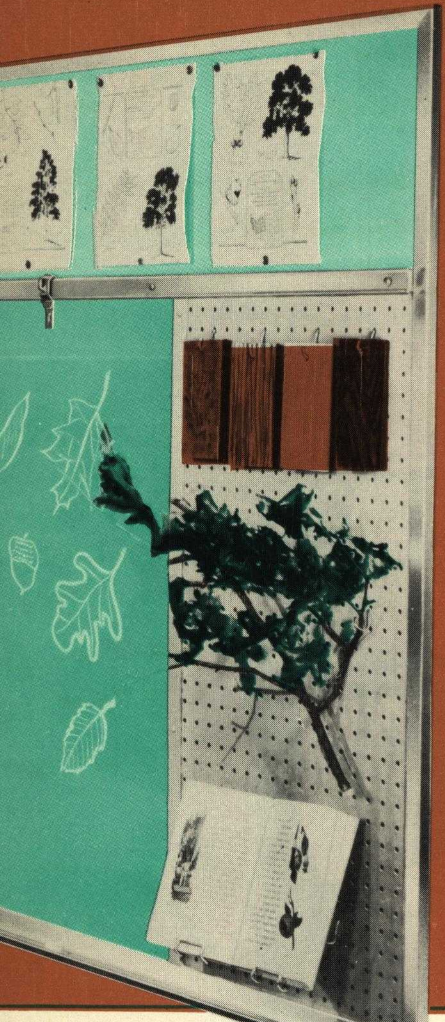
build FLEXIBILITY into schoolrooms



A. I. A. FILE
CHALKBOARDS 35B-1
TACKBOARDS 35N-3

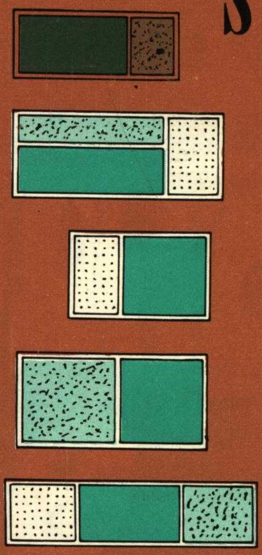
Beckley-Cardy

- **Chalkboard Installations for Every Specification**



FOR SIMPLIFIED PLANNING

SIMPLEX *Ready to hang, Custom Made Units*

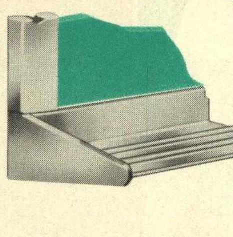


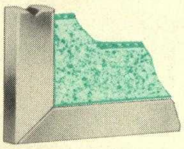
A FEW OF HUNDREDS
OF POSSIBLE VARIATIONS

YOU PLAN—WE CONSTRUCT TO YOUR SPECS

Custom-built units solve classroom visual board installation problems completely. The new Simplex units are designed to reduce on-the-job construction. Framed and readied for installation before leaving the factory, they are easily put up in designated areas. One inch aluminum trim is lightweight, neat, expertly fitted. Satin-smooth anodized finish never requires painting or refinishing. New type hangers make units simple to hang and re-hang as teaching requirements change. Variations in sizes and material are made to specifications as submitted.

Choose these materials





MAP RAIL

Optional. Choose with or without cork insert. Molded nylon hooks slide freely on rail.

ALUMINUM TRIM

Neat, anodized aluminum trim finishes all pre-fab units.

CHALK TROUGH

Reinforced anodized aluminum chalk trough at base of chalkboard or entire unit.

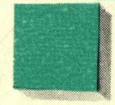
VIDEOPLATE CHALKBOARD

Excellent writing surface. Lightweight, shockproof, moistureproof chalkboard base of laminated wood fiber. Velvety black or Litegreen. ½ inch thick in lengths up to 12 feet, widths up to 4 feet.

Two Types of Tack Boards

DUPLEX CORK

Finest quality, linen finish compressed cork, ¼ inch thick on ¼ inch backing. Choose modern Litegreen, gray, or tan. Lengths up to 12 feet, widths up to 4 feet.

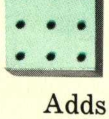


***New* COLORTAK**

Supported vinyl textured fabric on ½ inch thick homasote tackboard backing. Choose gold, ivory, turquoise. Lengths up to 12 feet, widths up to 4 feet.

SLATOSTEEL CHALKBOARD

New tougher-than-porcelain finish on 20-gauge steel base. Magnetized devices triple its service as chalkboard, bulletin board, and teaching aid. ½ inch thick in lengths up to 10 feet, widths up to 4 feet. Litegreen surface only.



PEGBOARD

Adds versatility to display areas. Holes are 9/32 inch diameter on 1 inch straight centers. Neutral light green finish. ¼ inch thick, lengths to 8 feet, widths to 4 feet.

FURNISH PLANS AND MEASUREMENTS

	Length	Height	Color
CHALKBOARD			
TACKBOARD			
PEGBOARD			

SlatoSteel

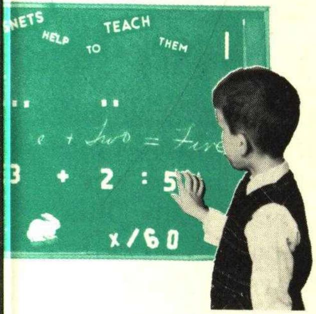
With the revolutionary new porcelain writing surface

Revolutionary in every way! Tough porcelain—rugged as steel can make it—exceeding P.E.I. standards. SlatoSteel's color is permanent—writing shows clearly, erases easily.

NO CHALK TRAPS

SMOOTH WRITING

Carefully prepared porcelain coating plus substantial steel mean a chalkboard that's easy to write on—easy to keep clean. Carefully controlled spraying assures SlatoSteel a uniform surface with just the right bite for chalk. Washing will not affect the fired matte finish.


NETS HELP TO TEACH THEM
3 + 2 : 5
x/60

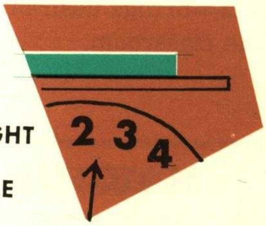
DOUBLES AS A BULLETIN BOARD

VERSATILE

SlatoSteel gives the added advantages of "touch and see" learning to the classroom when used with magnetized letters or figures. This feature also facilitates posting papers, as on bulletin boards, when used with magnetized posting devices.

MORE DURABLE

Guaranteed for the life of the building, SlatoSteel has a porcelain coating that produces a velvety looking, yet flint-hard surface. To prove its abrasion resistance, test it with a coin. The coin flecks without injury to the writing surface. A special adhesive holds absolute bond between the steel face and the backing sheet.



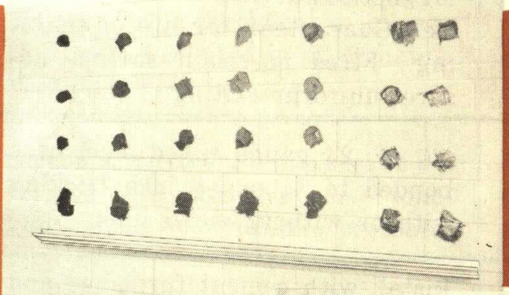
LIGHTWEIGHT EASIER TO HANDLE

LESS EXPENSIVE

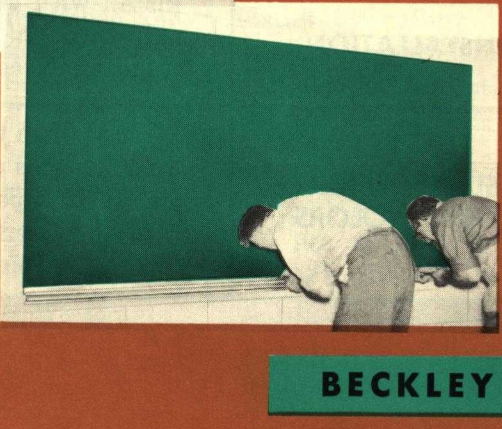
Because SlatoSteel needs only a 20 or 24 ga. cold rolled steel base, a 32 square foot piece of SlatoSteel may be 40 to 48 lbs. lighter than porcelain enamel boards which require a heavy gauge, expensive metal sheet. Yet, because SlatoSteel is fired at 20% lower temperature than ordinary enamelled chalkboards, there are no warpage or buckling conditions set up in the steel. SlatoSteel can be sawed and drilled on the job and can be installed without expensive wall construction.

See Complete Specifications Next Page

SlatoSteel is Easy to Install



ABOVE—Shows spotting cement on the block wall and chalk trough in place.



RIGHT—Chalkboard in place. Workmen attaching Simplex Aluminum molding.

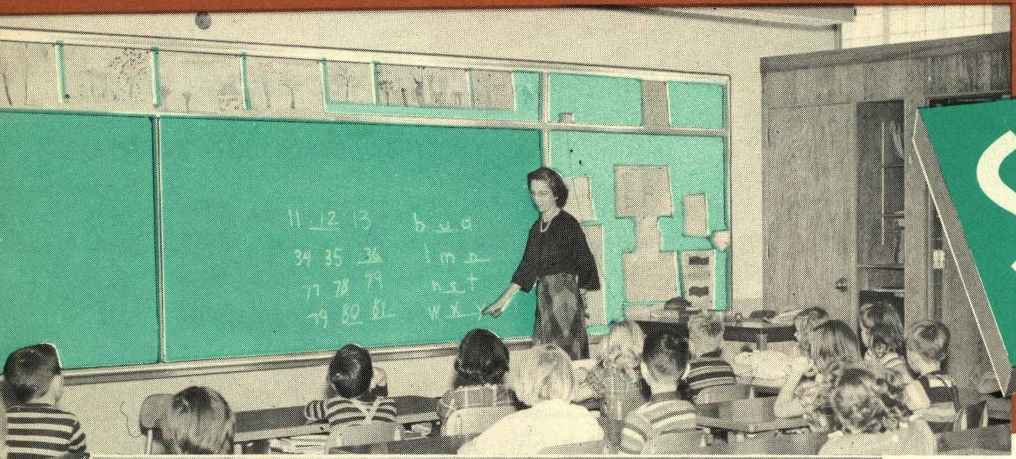
4 TYPES OF SLATOSTEEL

UNMOUNTED SLATOSTEEL
Ideal for mounting on present chalkboards or for laminating to own backing.

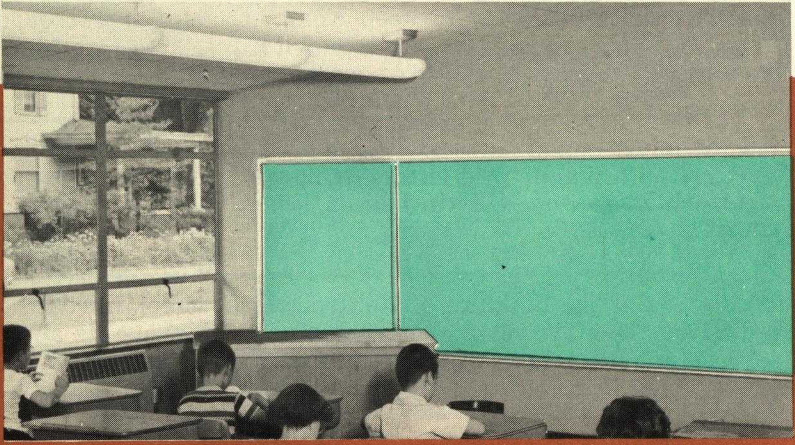
¼ INCH BACKING
The most popular and dependable backing for all types of chalkboard installations. Choice of
- ¼ inch hardboard with foil liner or
- ¼ inch hardboard or plywood with 26 gauge galvanealed liner

½ INCH BACKING
An alternative backing for permanent installations—½ inch wood fiber panel

BECKLEY-CARDY CHALKBOARDS MEET EVERY



SlatoSteel



SLATOSTEEL

with the new porcelain surface:

Carefully controlled spraying assures uniform surface with just the right bite for chalk—makes writing show clearly, erase easily. SlatoSteel allows important space to be used for displays or for touch-and-feel devices with the use of magnets—brings desired flexibility into the classroom.

TESTS OF WRITING SURFACE QUALITY BY INDEPENDENT LABORATORIES

These comparative tests by an independent laboratory show why you are right to specify Beckley-Cardy chalkboards:

1. Writing and erasing qualities proved with both white and colored chalks.
Clear writing, clean erasing, better visibility are assured.

2. Resistance to discoloration by light and by cleaning plus resistance to abrasion under severe conditions.
For years of wear without costly care.

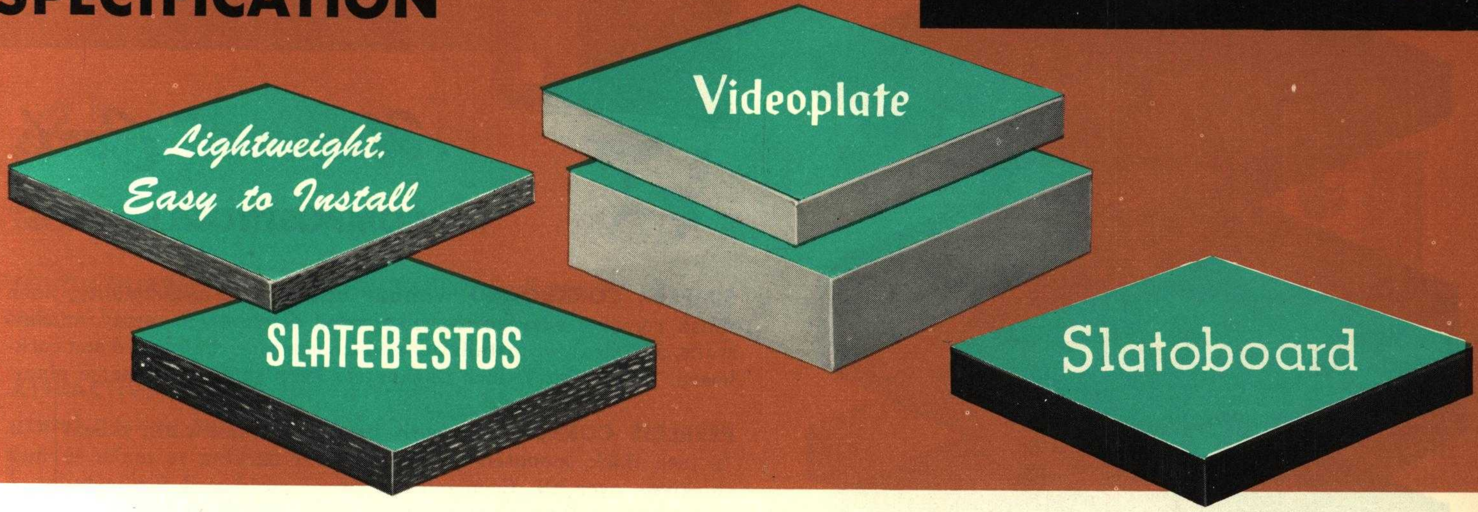
3. Resistance to cracking and checking under physical and mechanical conditions tested.
Proved safe against exploding or pitting and peeling of the writing surface.

4. Light reflection, glare, and uniformity of color compared.
Approved reflectance factor for restful, more cheerful classroom atmosphere.

Additional tests continue to show that Beckley-Cardy chalkboards meet school needs and guarantee years of service under all conditions.

	SLATOSTEEL
DISTINCTIVE FEATURES	Tough porcelain surface on steel. Magnetized devices double its service. Guaranteed for life of building. Fired porcelain surface assures uniform writing.
BACKING	20 or 24 gauge rolled steel base bonded to ¼ or ½ inch backing with or without metal liner.
INSTALLATION	Install with cement furnished and nail through board into wall or studding. Needs no special grounds.
SIZES, WEIGHTS AND COLORS	¼ or ½ inch thick. Widths 3, 3½, 4 ft.; lengths of 4, 5, 6, 7, 7½, 8, 9 and 10 ft. Special sizes on request. Medium green, dark green, brown, blue, gray, black. Sq. ft. 2½ lbs.

SPECIFICATION



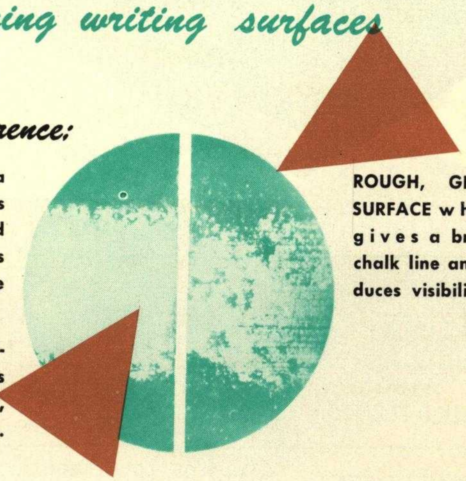
EXCELLENT CHALKBOARDS

With harder, thicker and longer wearing writing surfaces

Careful, experienced Beckley-Cardy manufacturing processes consistently produce a uniform close-grained writing surface that is harder and thicker. The long wearing washable writing surface marks easier and erases cleaner. Various types of backing to which the surface is applied are available to meet regional requirements.

See the difference:

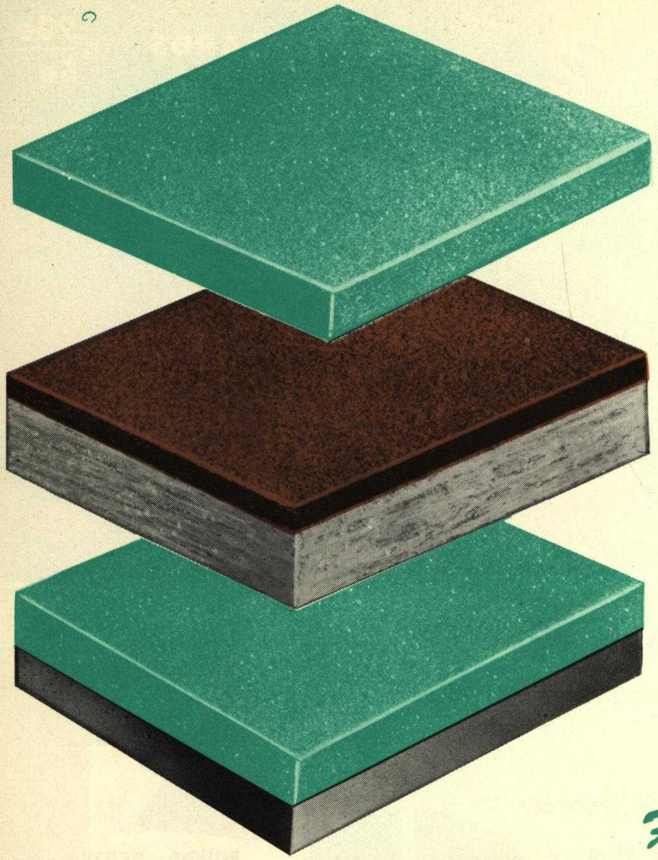
Microscopic view of a chalk mark on two types of chalkboard magnified 40 times. Chalkboards were set edge to edge for a continuous mark.



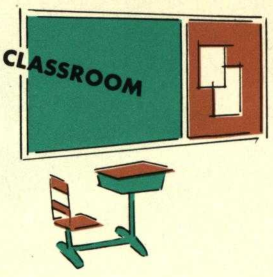
THE SMOOTH, BECKLEY-CARDY surface assures an unbroken chalk line, clear, but easy to erase.

ROUGH, GRITTY SURFACE which gives a broken chalk line and reduces visibility.

SLATEBESTOS	VIDEOPLATE	SLATOBOARD
Indestructible and fire-resistant. Practically no coefficient of expansion, so can be used in all climates. Wear like slate.	A versatile new chalkboard—light weight, shockproof, moisture-proofed. Slight coefficient of expansion. Use in any climate.	New, low-cost, quality chalkboard —shockproof, moisture-proof surface will not chip, craze, or peel.
Cement-asbestos composition formed into homogeneous, stone-like panels by hydraulic pressure.	Wood fibers pressed into smooth, warp-proof panels under terrific hydraulic pressure.	Wood fibers pressed into smooth, warp-proof panels under terrific hydraulic pressure.
Install with cement furnished and nail through board into wall or studding. No special wall construction.	Install by nailing through board into wall or studding. No special wall construction is necessary.	Nail through board into wall or studding. No special wall construction is necessary.
Slatebestos 3/16-inch thick. Widths 3½ and 4 feet; lengths 6, 7, and 8 feet. Velvety black or Litegreen. Wt. per sq. ft. 2½ lbs.	¼ or ½ inch thick. Widths 3½ or 4 ft.; lengths 6, 7, 8, 9, 10, 11 and 12 ft. Velvety black or Litegreen. Wt. per sq. ft. ¼ in., 1¼ lbs.; ½ inch, 2½ lbs.	¼ inch thick. Widths of 3½ and 4 feet; lengths 5, 6, 7, 8, 9, 10, 11 and 12 feet. Velvety black or Litegreen. Wt. per sq. ft. 1 lb.



Versatile



Natural Cork

COMPOSITION BOARDS

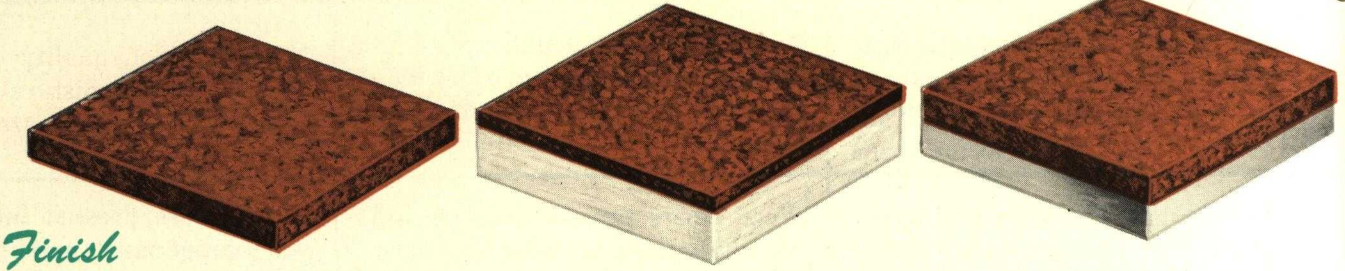
SIMPLEX CORKBOARD without backing. Finest quality, linen finish compressed cork. Recommended for use on evenly finished walls, and ideal for installations which combine chalkboard and corkboard, where like ¼ inch thicknesses keep surfaces on same plane.

PEERLESS CORKBOARD with backing. Same cork, except it is ⅛ inch thick, mounted on ⅜ inch fiber backing to make ½ inch thickness over all. Economical type of corkboard for installation on uneven surfaces such as rough plaster, cement block, etc.

DUPLEX CORKBOARD with backing. Same superior cork as Simplex, but has ¼ inch Masonite quarter board backing. Most satisfactory type of corkboard for installations on uneven surfaces. Especially recommended for cement block, etc., as the firm backing supports itself against the high points of uneven walls.

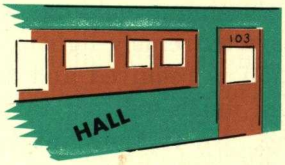
Finest Quality Linen Finish

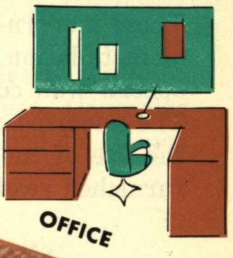
	SIMPLEX	PEERLESS	DUPLEX
THICKNESS	¼ inch thick. No backing.	⅛ inch cork on ⅜ inch fiber backing; ½ inch overall thickness.	¼ inch cork on ¼ inch Masonite quarter board; ½ inch overall.
INSTALLATION	Suited for cementing on smooth, even walls.	Fasten to studding or grounds.	Fasten to studding or grounds.
SIZES, WEIGHTS AND COLORS	Widths to 6 feet; lengths to 85 feet. Wt. per sq. ft. ½ lb. 3 colors.	Widths to 4 feet; lengths to 12 ft. Wt. per sq. ft. 1 lb. 3 colors.	Widths to 4 feet; lengths to 12 feet. Wt. per sq. ft. 1¼ lbs. 3 colors.



Pebble Finish Cork

	DEFIANCE	CHALLENGER	CONTENDER
THICKNESS	¼ inch thick. No backing.	⅛ in. cork on ⅜ inch fiber backing; ½ inch overall thickness.	¼ inch cork on ¼ inch Masonite quarter board; ½ inch overall.
INSTALLATION	Suited for cementing on smooth, even walls.	Fasten to studding or grounds.	Fasten to studding or grounds.
SIZES, WEIGHTS AND COLORS	Widths to 4 ft. and lengths up to 12 ft. Wt. ½ lb. per sq. ft. Tan only.	Widths up to 4 ft. and lengths up to 12 ft. Wt. 1 lb. per sq. ft. Tan only.	Widths up to 4 ft. and lengths up to 12 ft. Wt. 1¼ lbs. per sq. ft. Tan.





ColorTak VINYL

TEXTURED TACKBOARD

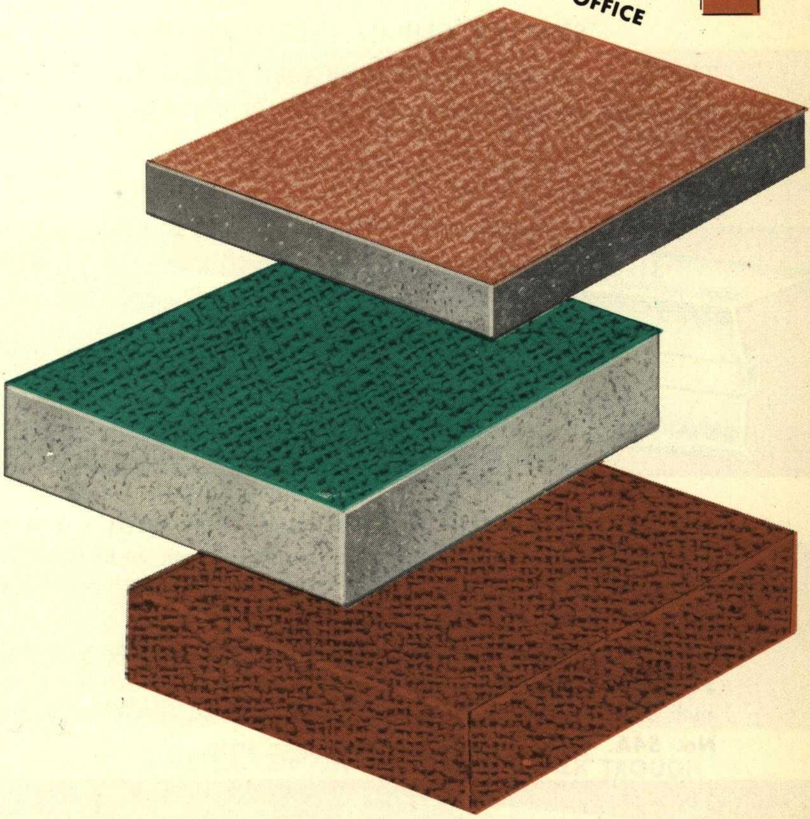
TOUGH PLIABLE SURFACE withstands rough treatment—cleans easily with soap and water.

ATTRACTIVE COLORS add decoration as well as useful posting surfaces.

Add pleasing color to the classroom with this newest functional tacking surface. When you install ColorTak, you install enduring beauty—this supported vinyl textured fabric resists scuffs, tears, and stains. It cleans easily with soap and warm water. Backing is special bulletin board material selected to take and hold tacks firmly. Mounts directly on wall, studding or grounds. Frame ColorTak with aluminum or other appropriate trim or choose . . .

WRAP AROUND DESIGN

Does not require trim. Especially suited for classrooms, hallways, offices, hospitals, or wherever extra wall space can be utilized.



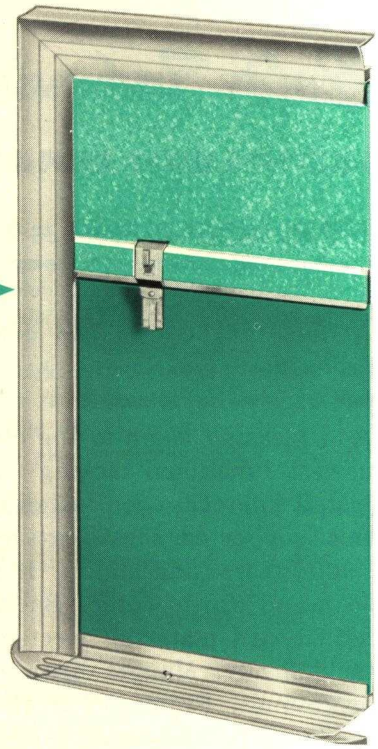
	¼" COLORTAK	¼" COLORTAK WRAP AROUND	½" COLORTAK	½" COLORTAK WRAP AROUND
BACKING	¼ inch thick Masonite quarter board backing.	¼ inch thick Masonite quarter board backing.	½ inch thick Homasote board backing.	½ inch thick Homasote board backing.
INSTALLATION	Mount directly on wall, studding, or grounds. Frame with aluminum trim.	Mount directly on wall, studding, or ground without trim.	Mount directly on wall, studding, or grounds. Frame with aluminum trim.	Mount directly on wall, studding, or ground without trim.
SIZES AND WEIGHTS	Widths up to 4 ft. Lengths up to 12 ft. Wt. per sq. ft., 1 lb.	Widths up to 4 ft. Lengths up to 12 ft. Wt. per sq. ft., 1 lb.	Widths up to 4 ft. Lengths up to 12 ft. Wt. per sq. ft., 1½ lbs.	Widths up to 4 ft. Lengths to 12 ft. Wt. sq. ft. 1½ lbs.
COLORS	SUNSET GOLD, COLONIAL IVORY, TURQUOISE Also 9 following decorator colors available on orders of 500 sq. ft. or more: Charcoal Gray, Oriental Yellow, Mocha Brown Aqua, Shell Pink, Willow Green Coral, Cardinal Red, Forest Green			

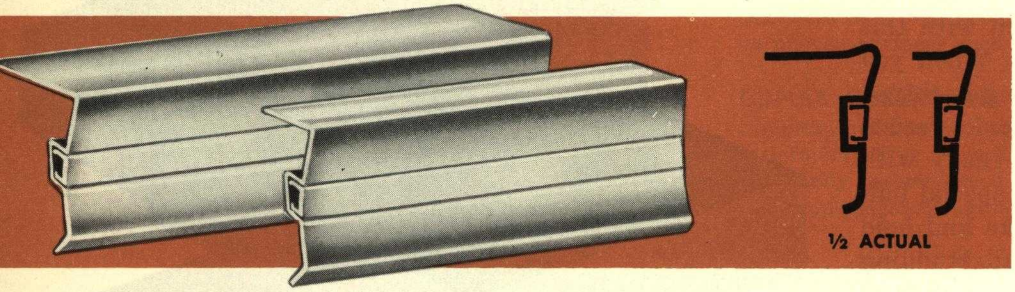
Simplex ALUMINUM MOLDINGS

These modern-design aluminum moldings are recommended for their ease of installation. They are extremely lightweight, durable and sanitary. No special wall construction is required and any carpenter can install them. The anodized aluminum finish will not tarnish and stays new looking for the life of the building. No further finishing is required. All pieces are furnished ready to drill at time of installation to insure a perfect fit.

SIMPLEX CLIP-IN CHANNEL TRIM

The open channel face allows fast, visible fastening to any wall, then a cover strip snaps in place to conceal all screws.



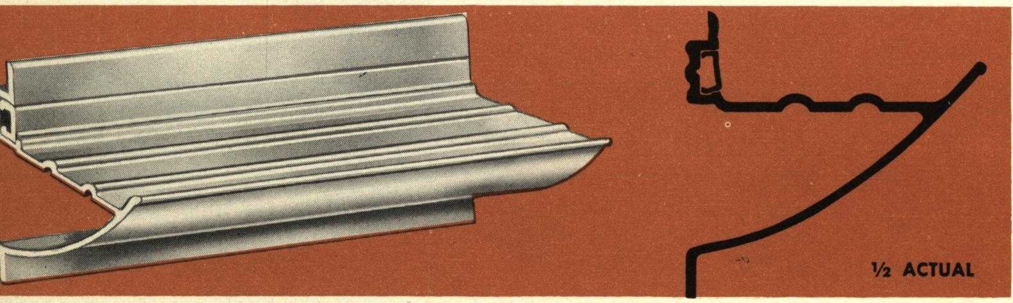


No. 52. SIMPLEX CLIP-IN ALUMINUM TRIM WITH 1 1/4 INCH RETURN. For ½ inch chalkboard top and ends and ½ inch corkboard. 1¾ inches wide, 1¼ inches deep. With clip-in strip. Weight: 2 lineal feet equal 1 lb.

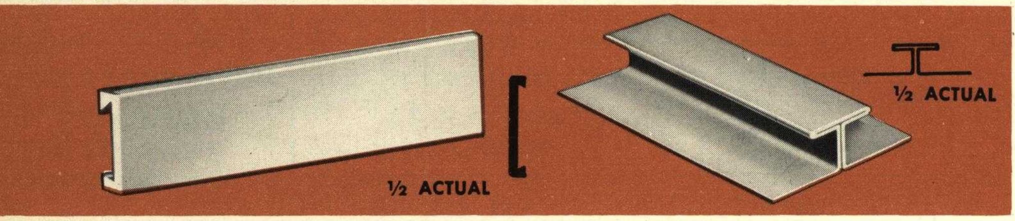
No. 52A. Trim as above without clip-in strip.

No. 54. SIMPLEX CLIP-IN ALUMINUM TRIM WITH 5/8 INCH RETURN. For ¼ inch chalkboard top and ends and ¼ inch corkboard. 1¾ inches wide, ⅝ inch deep. With clip-in strip. Weight: 2 lineal feet equal 1 lb.

No. 54A. Trim as above without clip-in strip.

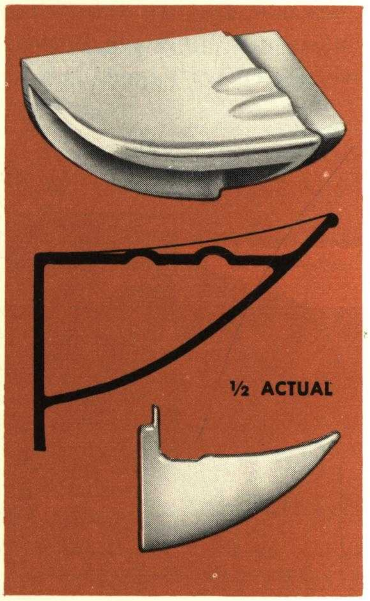


No. 66. SIMPLEX CLIP-IN ALUMINUM CHALK TROUGH. For use with all types of trim. Molded ridges trap chalk dust. Weight: 1 lineal foot equals 1 lb.



No. 58. SIMPLEX ALUMINUM MULLION. 1 inch wide for covering joints between chalkboard and bulletin board. Weight: 3 lineal feet equal 1 lb.

No. 30. STANDARD JOINING STRIP. For ¼ inch board. "H"' shaped wings cover chalkboard joints. Finished to match board. 3, 3½, and 4 ft. lengths. Weight: Per length 1 lb.

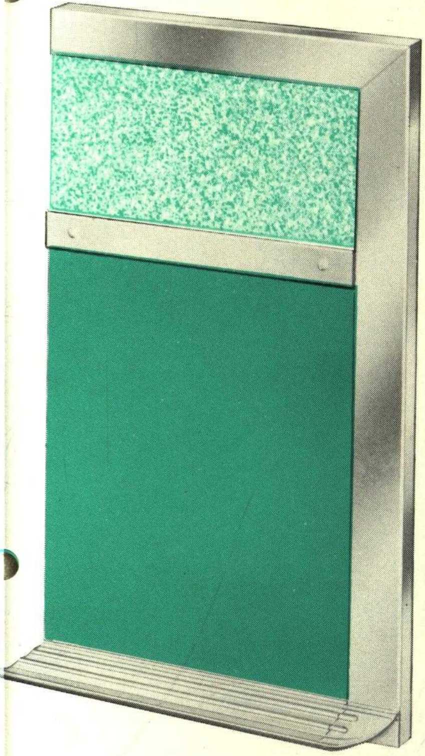


No. 69L. LEFT CLOSURE for No. 66 Chalk Trough. Wt. 12 oz.

No. 69R. RIGHT CLOSURE for No. 66 Chalk Trough. Wt. 12 oz.

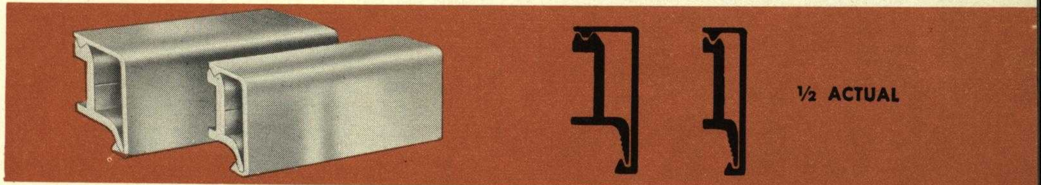
No. 60L. LEFT PLATE for No. 66 Chalk Trough. Wt. 3 oz.

No. 60R. RIGHT PLATE for No. 66 Chalk Trough. Wt. 3 oz.



NEW SIMPLEX CLIP-ON TRIM

This newest aluminum molding provides a trim-line look to all chalkboard and corkboard areas. Concealed fastening is provided by wall clips installed on 16-inch centers onto which the molding snaps.

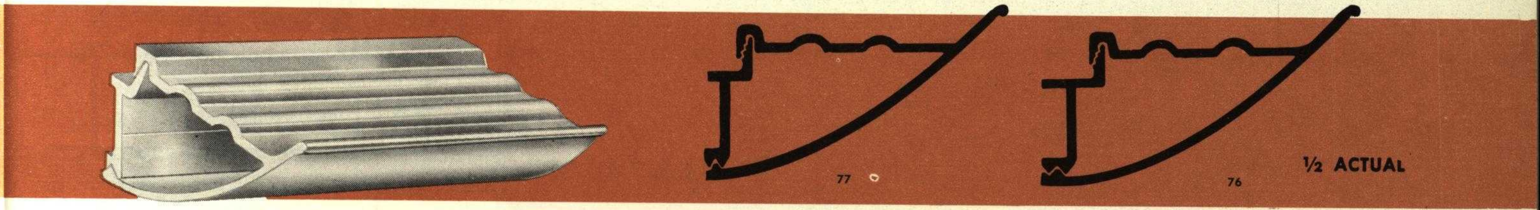


No. 72. SIMPLEX CLIP-ON ALUMINUM TRIM WITH 3/4 INCH RETURN. For ½ chalkboard top and ends and for ½ icnh cork. 1½ inches wide. Weight: 2 lineal feet equal 1 lb.

No. 73. CONCEALED CLIP. 3 inches long.

No. 74. SIMPLEX CLIP-ON ALUMINUM TRIM WITH 1/2 INCH RETURN. For ¼ inch chalkboard top and ends and for ¼ inch cork. 1½ inches wide. Weight: 2 lineal feet equal 1 lb.

No. 75. CONCEALED CLIP. 2 inches long.

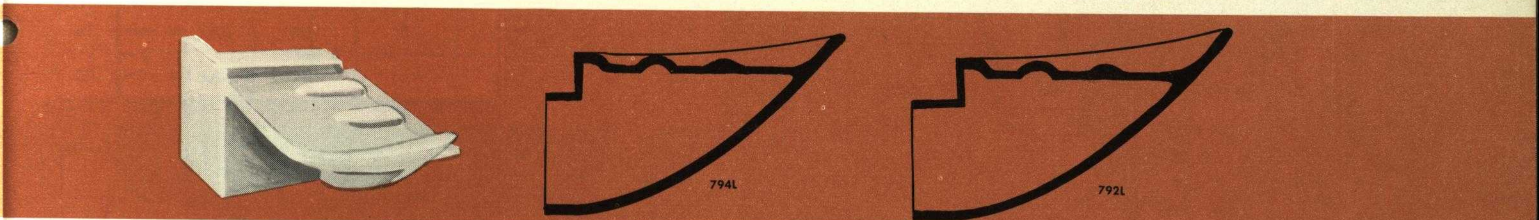


No. 76. SIMPLEX CLIP-ON ALUMINUM CHALK TROUGH FOR 1/2 INCH BOARD. Weight: 1 lineal foot equals 1 lb.

No. 73. CONCEALED CLIP. 3 inches long.

No. 77. SIMPLEX CLIP-ON ALUMINUM CHALK TROUGH FOR 1/4 INCH BOARD. Weight: 1 lineal foot equals 1 lb.

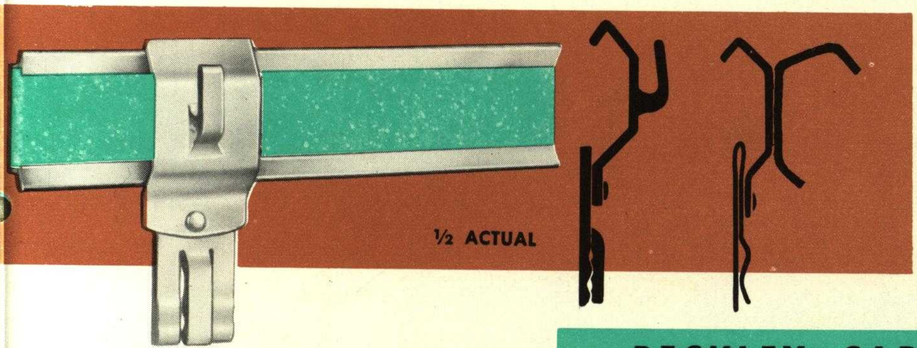
No. 75. CONCEALED CLIP. 2 inches long.



CHALK TROUGH CLOSURES

Shaped closures for right and left sides provide neat, functional finish to chalk trough ends. Use this chalk trough and closures with any type of chalkboard trim. Wt. 12 oz. each.

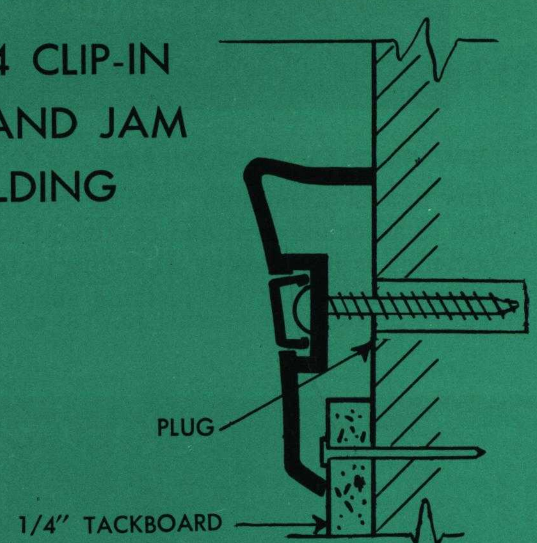
No. 792L. Left closure for ½ inch chalk trough.
No. 792R. Right closure for ½ inch chalk trough.
No. 794L. Left closure for ¼ inch chalk trough.
No. 794R. Right closure for ¼ inch chalk trough.



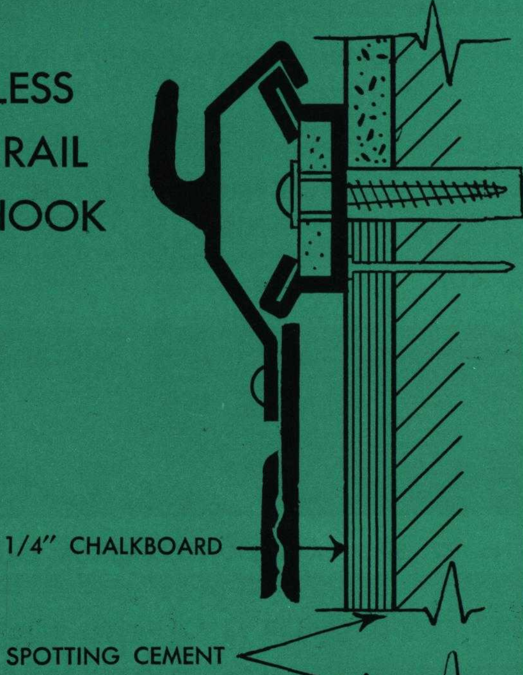
PEERLESS MAP AND DISPLAY RAIL

Over all width of rail is 1¼ in.; lengths 6, 7, 8, 9, or 10 ft. Cork insert (specify color—tan, green or gray) is ¼ in. thick by ¾ in. wide. Installation screws and washers furnished. Rail available with or without cork insert, and with or without one hook for every 3 ft. of rail. Flag holder also available. Both hooks and flag holders slide freely.

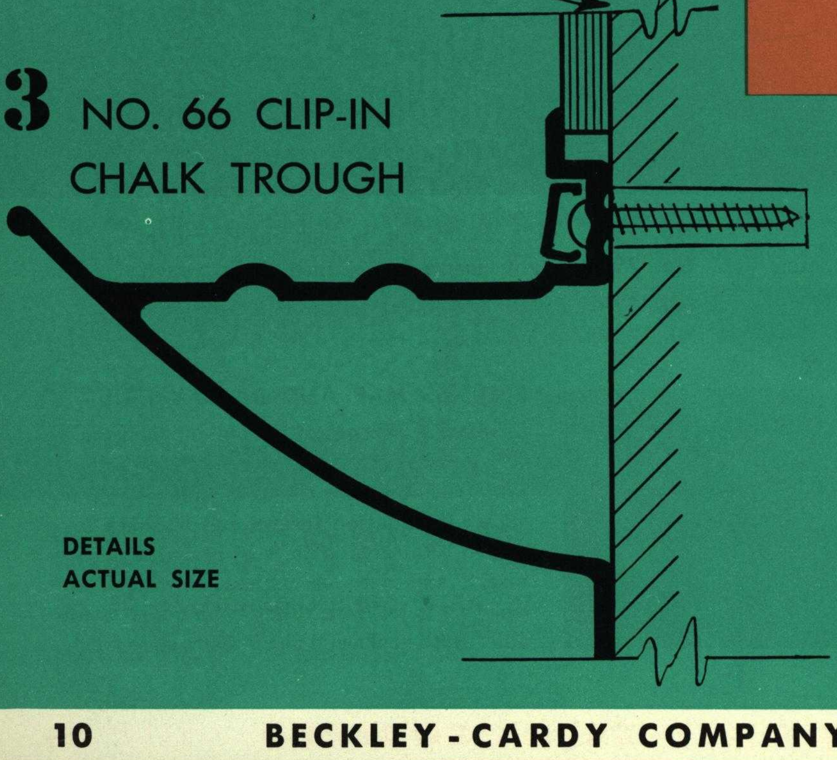
1 NO. 54 CLIP-IN HEAD AND JAM MOLDING


PLUG
1/4" TACKBOARD

2 PEERLESS MAP RAIL AND HOOK

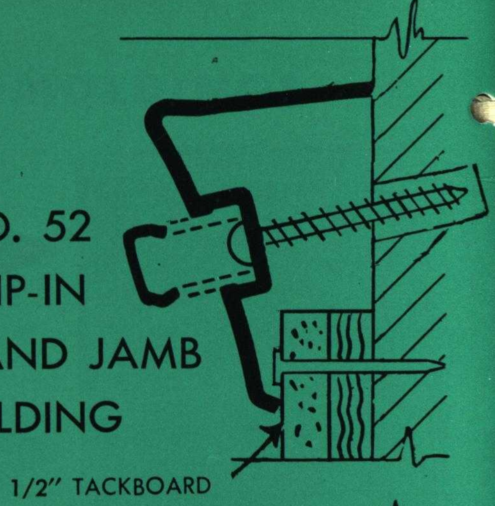

1/4" CHALKBOARD
SPOTTING CEMENT

3 NO. 66 CLIP-IN CHALK TROUGH

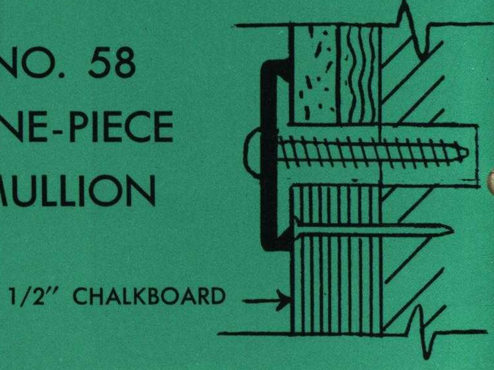


DETAILS ACTUAL SIZE

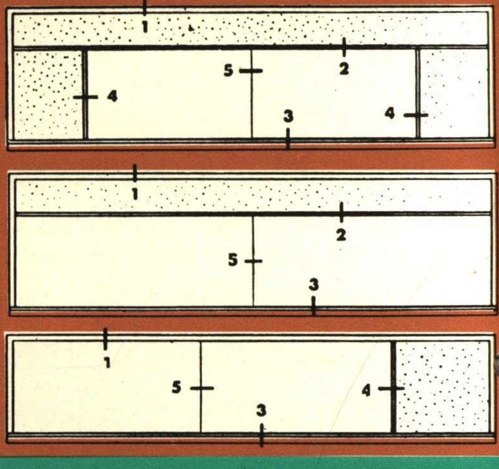
1 NO. 52 CLIP-IN HEAD AND JAMB MOLDING


1/2" TACKBOARD

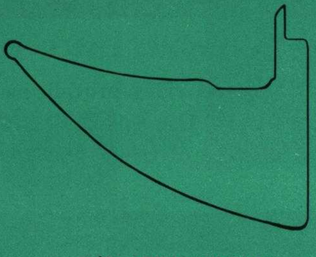
4 NO. 58 ONE-PIECE MULLION


1/2" CHALKBOARD

CHALKBOARD AND CORK ELEVATIONS

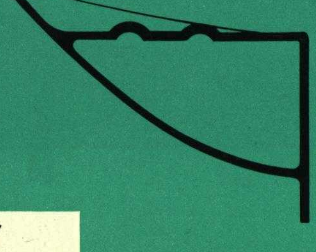

1
5
2
4
3
4
1
2
5
3
1
5
4
3

NO. 60 PLATE FOR CLOSING CHALK TROUGH

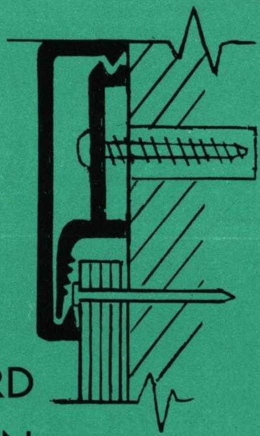


1/2 REDUCTION

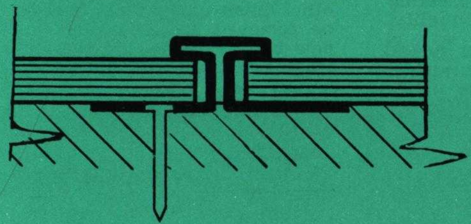
NO. 69 CHALK TROUGH CLOSURE



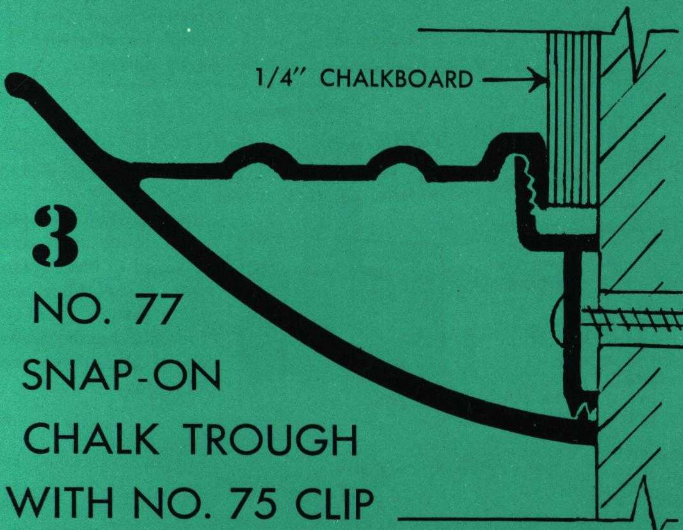
1 NO. 74
HEAD AND JAMB
SNAP-ON
MOLDING WITH
NO. 75 CLIP



5 NO. 30 CHALKBOARD
JOINT AND MULLION

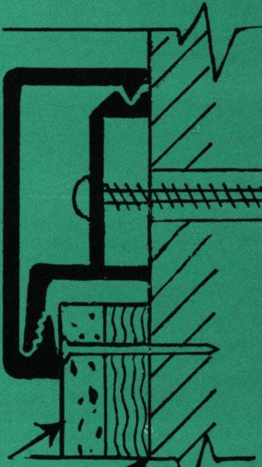


WORKING HEIGHTS	CHALKBOARDS Distance from Floor		TACKBOARD Distance from Floor	
	BOTTOM	TOP	BOTTOM	TOP
KINDERGARTEN	20″	56″	20″	80″
GRADES 1 - 3	20″, 24″	56″, 60″	24″	80″
GRADES 4 - 6	28″, 30″	70″, 72″	24″, 30″	80″
GRADES 7 - 9	32″	80″	32″	80″
GRADES 10 - 12	36″	84″	36″	102″
JR. SHOP OR LAB.	32″	80″	32″	80″
SR. SHOP OR LAB.	36″	84″	36″	102″

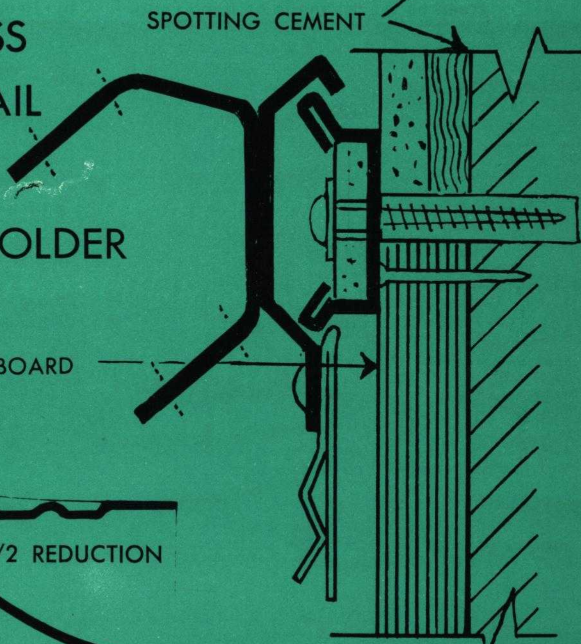

1/4″ CHALKBOARD

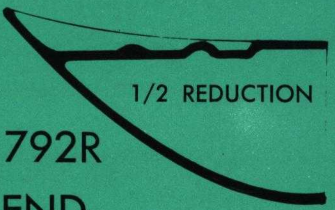
3
NO. 77
SNAP-ON
CHALK TROUGH
WITH NO. 75 CLIP

1 NO. 72
HEAD AND JAMB
SNAP-ON
MOLDING
WITH
NO. 73 CLIP

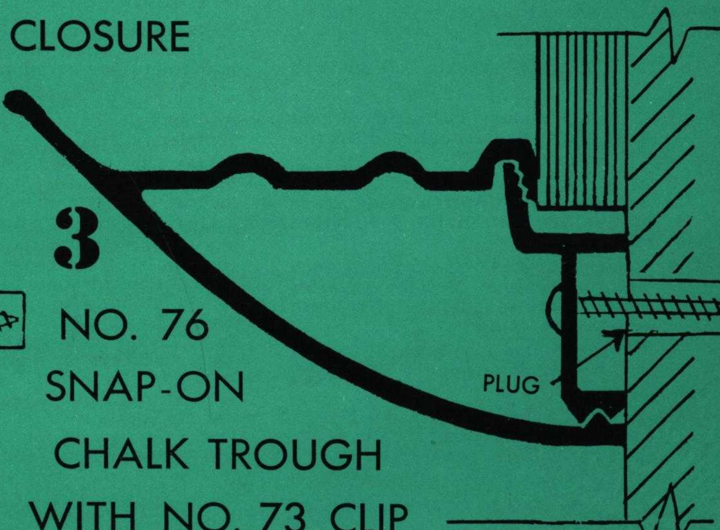

1/2″ TACKBOARD

2
PEERLESS
MAP RAIL
AND
FLAG HOLDER


SPOTTING CEMENT
1/2″ CHALKBOARD


1/2 REDUCTION

792R
END
CLOSURE



3
NO. 76
SNAP-ON
CHALK TROUGH
WITH NO. 73 CLIP

FOR ON-THE-JOB INSTALLATIONS

(1) MATERIALS

(1a) CHALKBOARDS—Chalkboards shall

be ....

1. ¼ inch Litegreen silicate surface SlatoSteel, 20 (or 24) gauge steel with porcelain enamel coating, fired at not over 1250°, bonded to hardboard (or plywood) with .001 inch aluminum foil liner securely laminated. (Also available with 26 gauge galvanealed liner)
2. ½ inch Litegreen silicate surface SlatoSteel, 20 (or 24) gauge steel with porcelain enamel coating, fired at not over 1250°, bonded to wood fiber backing.
3. 3/16 inch Slatebestos, (Litegreen or black) combining 80% asbestos and 20% cement under high pressure, with 2 coats chlorinated rubber sealer on back and 1 on front, with 3 surface coats on front.
4. ¼ inch or ½ inch Videoplate, (Litegreen or black) made of ligno-cellulose plastic material of felted wood fibers and special plasticizing agents combined under high temperature and pressure, with 2 coats chlorinated rubber sealer on back and 2 surface coats on front.
5. ¼ inch Slatoboard, (Litegreen or black) made of ligno-cellulose plastic material of felted wood fibers and special plasticizing agents combined under high temperature and pressure.

as manufactured by Beckley-Cardy Company, Chicago, or its equivalent, meeting fully this manufacturer's standards.

All chalkboards shall have surfaces true and smooth, free from defects. Joint edges shall be sharp and at 90 degree angle with top hanging edge.

(1b) CEMENT—Cement shall be Beckley-Cardy Chalkboard Cement or equal.

(1c) METAL CHALKBOARD JOINTS — Chalkboard joints shall be Simplex metal joining strips, finished same as chalkboard surface. All joints shall be without surface defects.

(1d) METAL MOLDINGS — Moldings and chalk trough shall be Simplex aluminum, Clip-In or Snap-On with anodized finish, free from surface defects, as manufactured by Beckley-Cardy Company, Chicago, or its equivalent, meeting fully this manufacturer's standard of quality.

(1e) TACKBOARDS—Tackboards shall be

....

1. ¼ inch Simplex Corkboard without backing, made of quality linen finish compressed cork.
2. ½ inch Peerless Corkboard of ⅛ inch cork on ⅜ inch fiber backing, made of quality linen finish compressed cork.
3. ½ inch Duplex Corkboard of ¼ inch cork on ¼ inch Masonite quarter board, made of quality linen finish compressed cork.
4. ¼ inch Defiance Corkboard without backing, made of quality pebble finish cork.
5. ½ inch Challenger Corkboard of ⅛ inch cork on ⅜ inch fiber backing, made of quality pebble finish cork.
6. ½ inch Contender Corkboard of ¼ inch cork on ¼ inch Masonite quarter board, made of quality pebble finish cork.
7. ¼ inch Colortak board of ¼ inch Masonite quarter board backing covered with decorative vinyl textured fabric.
8. ¼ inch Colortak Wrap-around board of ¼ inch Masonite quarter board backing covered on surface and sides with decorative vinyl textured fabric.
9. ½ inch Colortak board of ½ inch homasote tackboard backing covered with decorative vinyl textured fabric.
10. ½ inch Colortak Wrap-around board of ½ inch homasote tackboard backing covered on surface and sides with decorative vinyl textured fabric.

(1f) DISPLAY RAILS—Display rails shall be Peerless map and display rail. Specify with or without cork insert and spring clip hooks, as manufactured by Beckley-Cardy Company, Chicago, or equivalent, meeting fully this manufacturer's standard of quality.

(1g) PEGBOARD—Pegboard shall be ¼ inch thick, with neutral finish as furnished by Beckley-Cardy Company, Chicago, or its equivalent.

(2) SIZES AND LENGTHS

(2a) WIDTHS—All chalkboard widths (height from chalk trough to top) and bulletin board widths shall be designated on the detailed drawings and schedules.

(2b) CHALKBOARDS LENGTHS—All sections of Slatebestos chalkboard up to 8 feet shall be in one piece; all sections over 8 feet and up to 16 feet shall be in two pieces; longer sections shall be in multiples of 6, 7, or 8 feet or fractions thereof, with joints symmetrically spaced and with no piece for filling out less than 3 feet in its horizontal dimension. For Videoplate and Slatoboard, lengths may be up to 12 feet; SlatoSteel lengths may be up to 10 feet.

(2c) TACKBOARD LENGTHS—All sections of tackboard up to 12 feet shall be in one piece except Simplex which may be in lengths up to 75 feet without joints.

(2d) PEGBOARD LENGTHS—All sections of pegboard up to 8 feet shall be in one piece; longer sections shall be in even multiples with joints symmetrically spaced.

(3) STORING

All chalkboard and bulletin board material shall be properly stored and protected at the building site.

(4) ERECTION

(4a) Setting, leveling, and cutting of chalkboard shall be in accordance with manufacturer's recommendations.

(4b) Chalkboard, bulletin boards, and display rail shall not be set until plaster is completely dry.

(4c) Surfaces shall be plumb and in true plane with ⅛ inch clearance at top and ⅛ inch at bottom and ends of the spaces.

(4d) CHALKBOARDS—Chalkboard panels shall be secured to the wall with horizontal rows of spotting cement 6 inches from all joints. Cement shall be applied to the plaster in globules about the size of an egg. The top and bottom rows shall be from 10 to 12 inches from the board edge and from 12 to 16 inches on centers horizontally. The spots of the middle horizontal row shall stagger centrally between the spots of the top and bottom rows. The boards shall be firmly pressed in position over the cement and leveled plumb and true.

(4e) Top edge of chalkboards shall then be hung with 4D finish nails on 16 inch centers ⅛ inch from top edge. Bottom and ends shall not be nailed.

(4f) Two or more chalkboard panels shall be joined with Simplex metal joining strip. After affixing joint to first chalkboard panel, free side of the joining strip shall be nailed at top, center and bottom. Spotting and nailing each of the successive panels shall be continued. Chalkboard and tackboard joints shall be covered with mullion or map rail as designated. Sufficient pressure shall be maintained for at least 48 hours to assure thorough adhesion without springiness for the entire surface.

(4g) METAL MOLDINGS—All chalkboards and bulletin boards shall be set with edges adequately covered by molding. Trim and chalk trough shall be attached by screws according to manufacturers instructions.

(5) CLEANING AND BREAKING IN

(5a) Contractor shall clean all chalkboard and bulletin board surfaces. Any varnish or other finish appearing on these surfaces shall be removed and the surface refinished or new boards erected by the chalkboard contractor at the painting contractor's expense.

(5b) After cleaning, chalkboards shall be properly broken in according to the chalkboard manufacturer's instructions supplied.

(5c) In each room, where directed by the architect, permanently fasten the plate furnished by the chalkboard manufacturer giving directions for the care of chalkboard.

FOR CUSTOM-MADE UNITS

Furnish to attach to the wall custom-made units in such places as designated by the architect.

Chalkboard areas shall be Litegreen (or black) ½ inch **Videoplate**, or Litegreen ½ inch **SlatoSteel.** Bulletin board areas shall be ½ inch **Duplex**, tan (green or gray). Pegboard areas shall be pegboard with 9/32 perforations with 1 inch straight centers. Units shall be framed in 1 inch anodized aluminum trim with sections joined by mullion, joining strips, or map rail. Chalk trough under entire unit or under chalkboard only. Overall length may be up to 12 feet.

All above specified and shown on plans submitted. To be as manufactured by Beckley-Cardy Company, Chicago or its equivalent, meeting fully this manufacturer's standards of quality.

WARRANTY

All Beckley-Cardy chalkboards are fully guaranteed against defective materials and workmanship. Defective boards will be replaced or the complaint otherwise adjusted to satisfaction of purchaser.

YOUR SAMPLE PORTFOLIO

This kit is prepared with reference and testing material cut from actual stock.

The portfolio will fit your standard file and is keyed in accordance with the Architectural filing system. Write for your handy chalkboard and tackboard kit today.

CATALOG 260S

Ask for complete Catalog No. 260S describing Supertex shades custom-built for institutional requirements. Cloth samples and architectural specs are furnished on request. A complete line of school seating is also included.

Beckley-Cardy

1900 N. Narragansett Ave. • Chicago 39, Ill.

Representatives throughout U. S., Canada, foreign countries

23e
Br

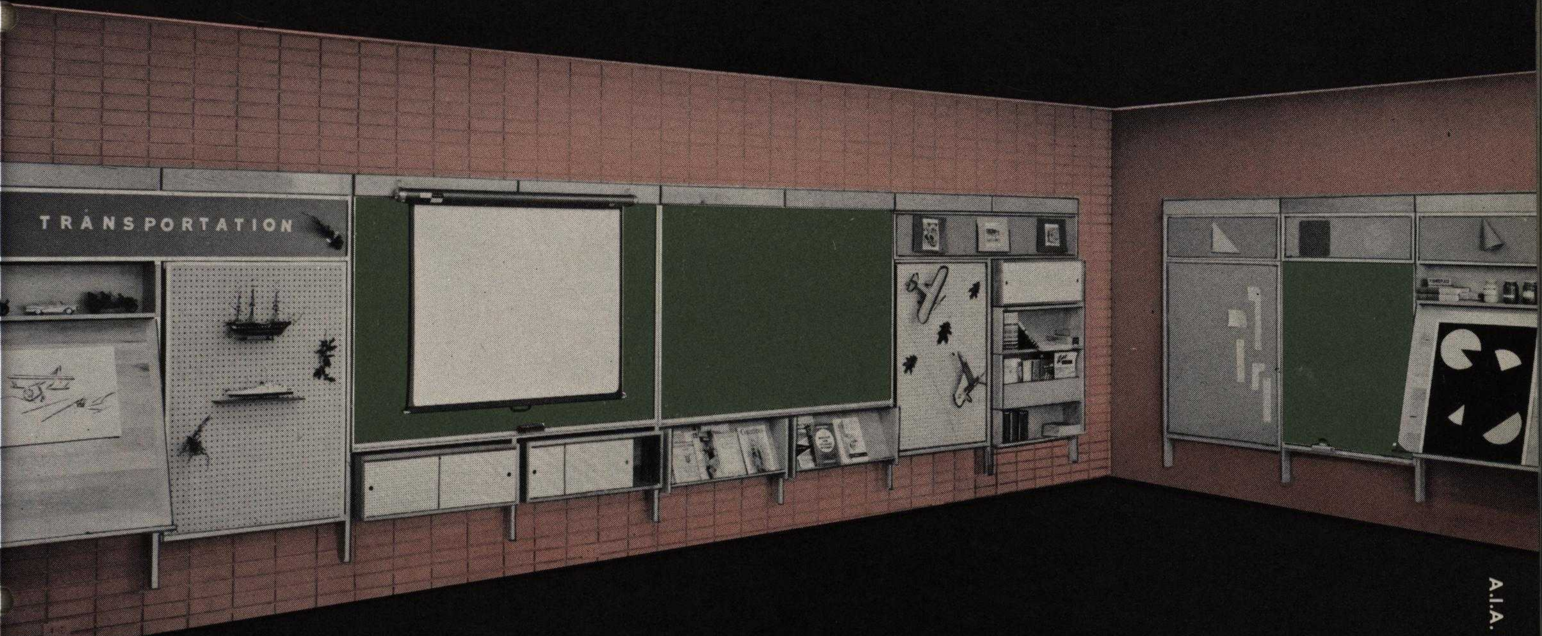
for better learning . . . for lasting value

Brunswick

ARCHITECTS...SCHOOL ADMINISTRATORS

this is MODUWALL

A new concept in classroom wall utilization that completely outmodes conventional fixed-to-the wall chalkboard and display equipment.



A.I.A. File No. 35-B-1

only
MODUWALL
gives you

the amount of **1** **CHALKBOARD** where you want it . . . when you want it

the amount of **2** **PEGBOARD** where you want it . . . when you want it

the amount of **3** **EASEL BOARD** where you want it . . . when you want it

the amount of **4** **FLANNELBOARD** where you want it . . . when you want it

the amount of **5** **BOOKSHELVING** where you want it . . . when you want it

the amount of **6** **CABINET STORAGE** where you want it . . . when you want it

the amount of **7** **MAGAZINE RACK STORAGE** where you want it . . . when you want it

the amount of **8** **UTILITY RAIL** where you want it . . . when you want it

the amount of **9** **TACKBOARD** where you want it . . . when you want it

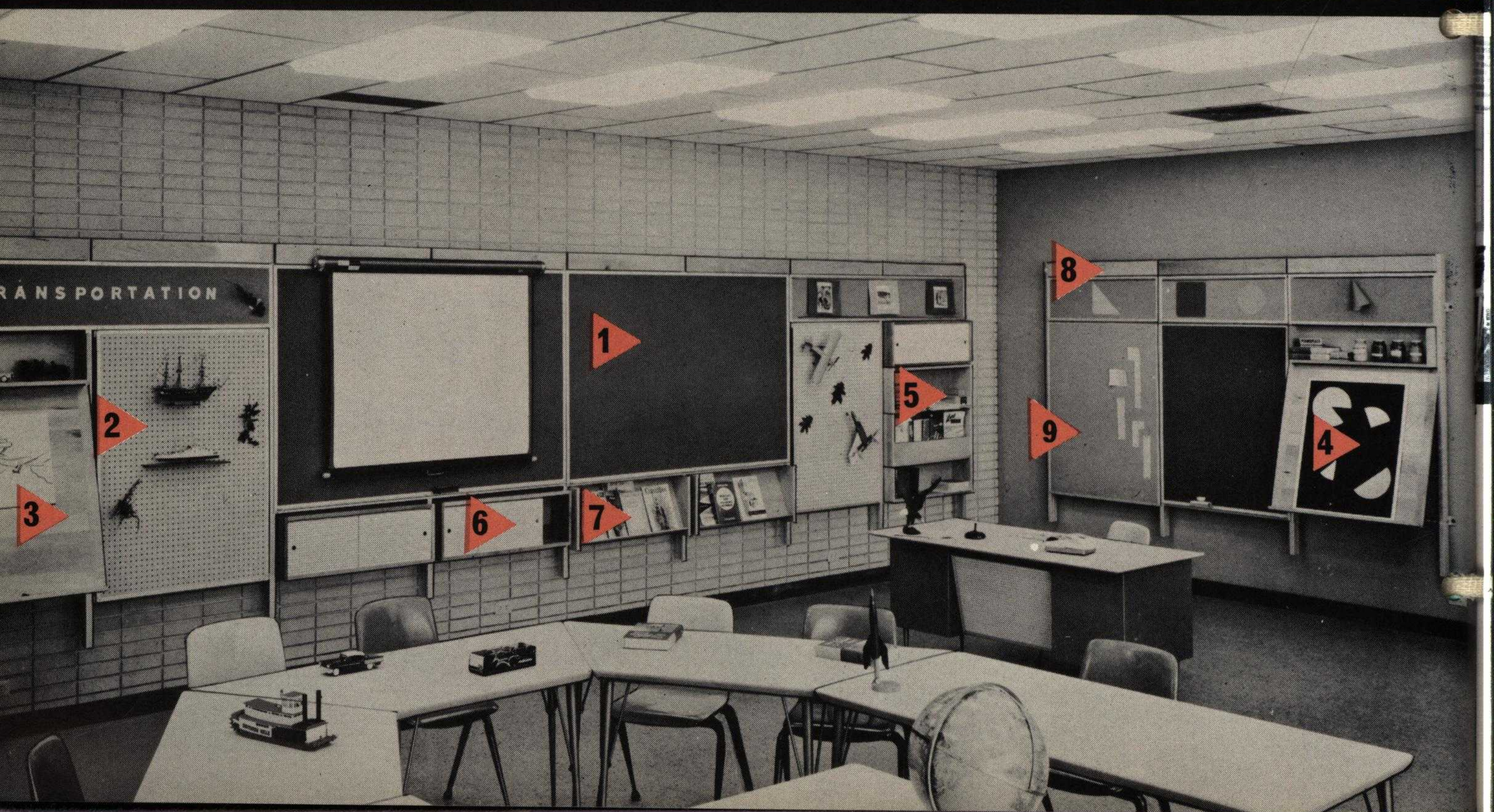
TODAY'S "LEARN BY DOING" CLASSROOMS call for functional flexibility in all equipment. Until now, school administrators and teachers, despite the use of modern movable furniture and cabinets have found themselves greatly limited in implementing their teaching programs due to inflexible permanent chalkboard, display and storage facilities.

Moduwall—and only Moduwall—assures the completion of a *totally* flexible classroom. Educators who have experienced the wonderful advantages of Moduwall are unanimous in their praise and approval . . . have requested it for all of their new and remodelled classrooms.

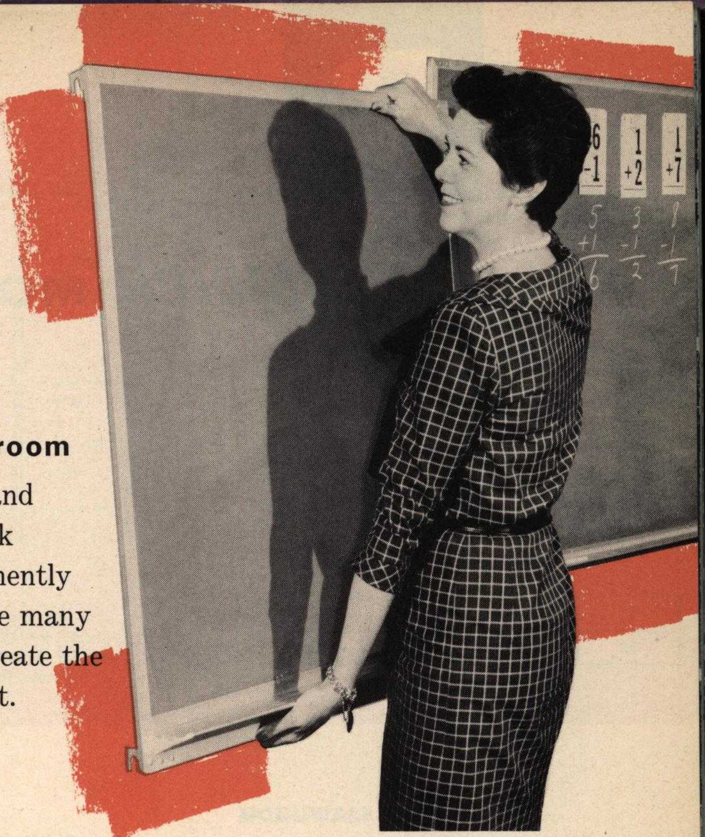
BRUNSWICK MODUWALL
Gives You Complete Classroom Flexibility Over The Years

From Class to Class...Semester to Semester...Year to Year

Brunswick Moduwall gives you complete classroom flexibility over the years . . . as school population shifts . . . as classroom purposes change. By simply changing the *kinds and heights* of units, you can transform a kindergarten into a fifth grade, a fifth grade into a social studies room, a math class into a kindergarten! Today's elementary schoolrooms become tomorrow's educationally perfect junior and senior high rooms—without costly reconstruction. With Moduwall your classrooms are never obsolete . . . always ready for change in grade or teaching function!



Brunswick MODUWALL



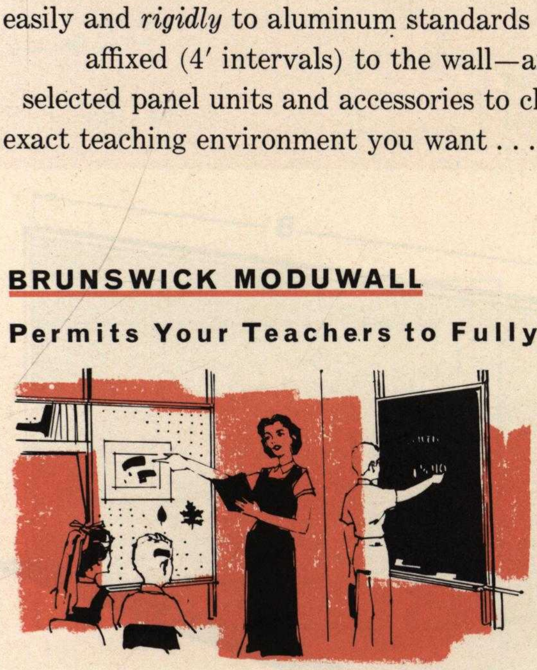
TEACHER'S DELIGHT

It's Easy To Change The Function Of Any Classroom

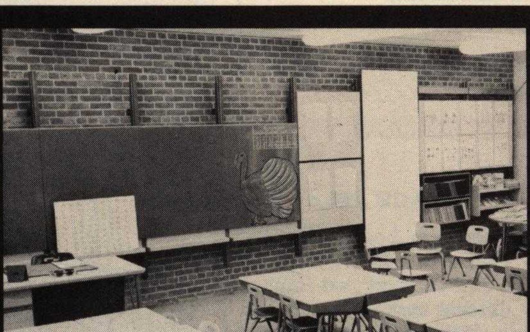
Yes, Moduwall panels can be changed in minutes . . . and all are completely interchangeable! Lightweight panels hook easily and *rigidly* to aluminum standards which are permanently affixed (4′ intervals) to the wall—any wall. There are many selected panel units and accessories to choose from—to create the exact teaching environment you want . . . when you want it.

BRUNSWICK MODUWALL

Permits Your Teachers to Fully Use Their Own Individual Teaching Techniques



Only Moduwall gives your teacher full freedom to use the teaching aids that best suit *her* individual purposes . . . and teaching techniques. She can change panels as instruction, projects, assignments change . . . from day to day, semester to semester, as she desires. She is no longer restricted by built-in chalkboard and display equipment. She can, literally, within one day, make immediate provision for conference, projection, pupil project display, lecture, individual or group chalkboard work!



AND MODUWALL IS ECONOMICAL, TOO!

Moduwall not only gives you scores of educational advantages . . . but with its unlimited flexibility, actually costs less to install and use now . . . and over the years than conventional fixed-to-the wall fixtures. Money is never tied up in unused chalkboard or tackboard when room functions change.

Actual dollars can be saved by the use of the right amount of chalkboard to fit the specific grade level—no wasted square footage.

YOUR CLASSROOMS ARE NEVER OBSOLETE!

No classroom need ever go unused or partially unused because of the fixed nature of wall equipment. When you build a new high school, by simply changing panels, your old high school becomes an elementary or junior high. Yes, you save literally thousands of dollars by the versatility and practicality of Brunswick Moduwall.

MODUWALL IS EXPANDABLE

The expandability of Moduwall now makes it unnecessary for the administrator or architect to outguess the wall requirements of his teaching staff. You can start with a minimum of usable wall—and expand your Moduwall installation by simply adding wall standards when the need (or money) arises!

New School . . . Remodeled Classroom . . . Brunswick MODUWALL Means Better Learning, Lasting Value

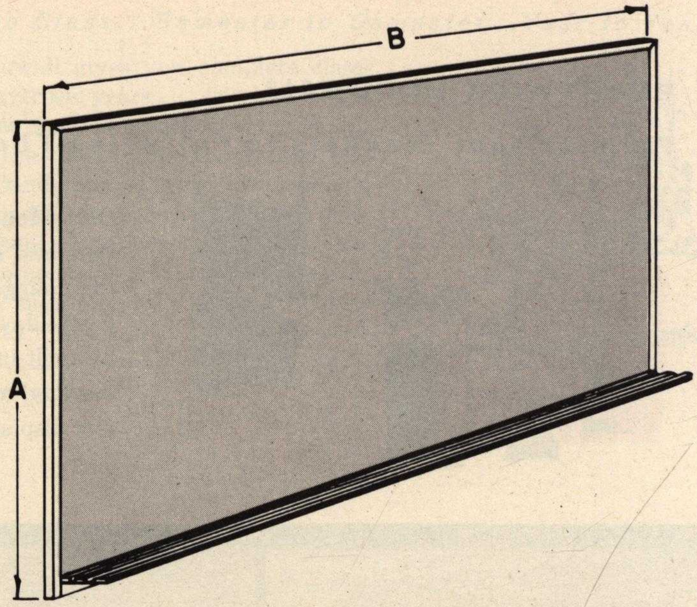
Brunswick MODUWALL

The 6 Most-Used
Chalkboard . . . Display . . . Storage Units
Required to Create
Educationally Perfect Classrooms

MODUWALL STEEL CHALKBOARD

Constructed of the highest grade specialized steel, ceramic surfaced to assure the finest writing and erasure qualities. Will take all types and colors of chalk. Ceramic surface can never become slick or glossy with use. Permanently affixed aluminum tray. Colors: Green, Gray.

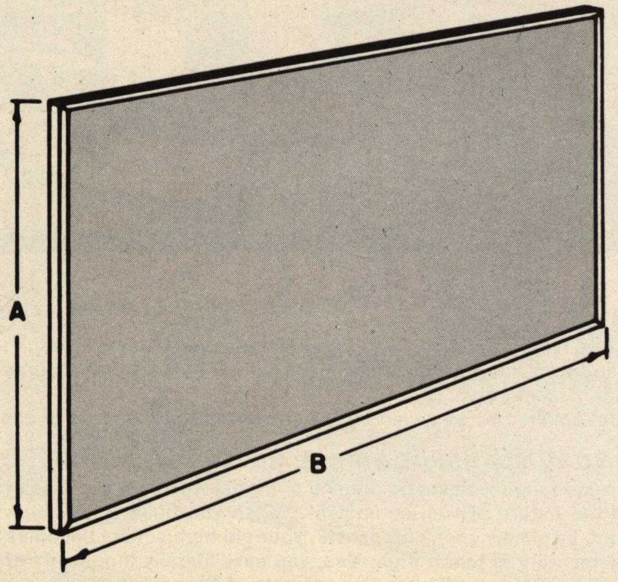
CODE No.	SIZE	A	B
M-243	4′ x 3′	3′	4′
M-244	4′ x 4′	4′	4′
M-283	8′ x 3′	3′	8′
M-284	8′ x 4′	4′	8′



MODUWALL TACKBOARD

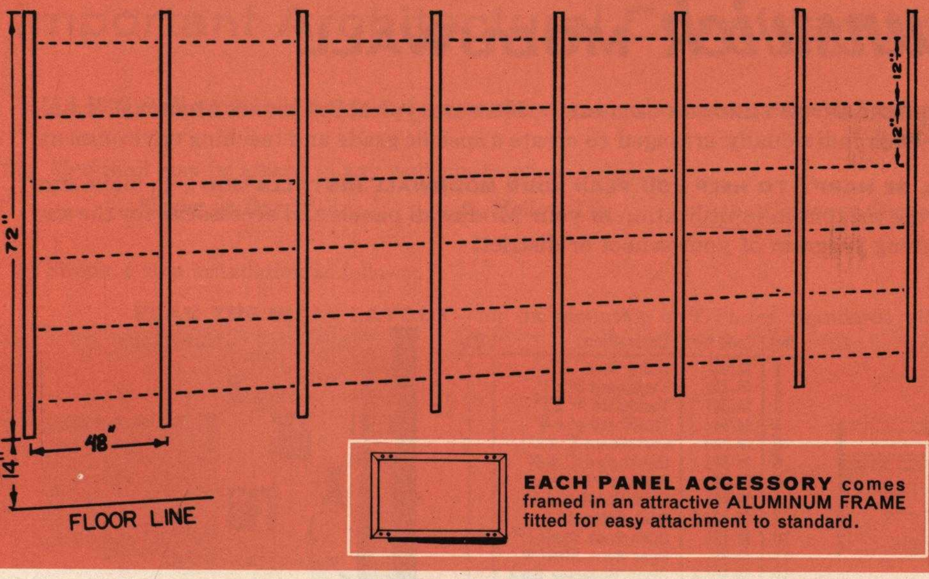
Surfaced with a layer of prime quality natural cork securely laminated to hardboard backing. Will take all types of display tacks, pins, etc. with standard tan or optional gray, green, blue, coral.

CODE No.	SIZE	A	B
M-341	4′ x 1′	1′	4′
M-343	4′ x 3′	3′	4′
M-344	4′ x 4′	4′	4′
M-381	8′ x 1′	1′	8′
M-383	8′ x 3′	3′	8′
M-384	8′ x 4′	4′	8′



Moduwall aluminum wall standards are placed at 4' intervals—all panels and accessories are constructed to accommodate this dimension. Standards are each 6' in height.

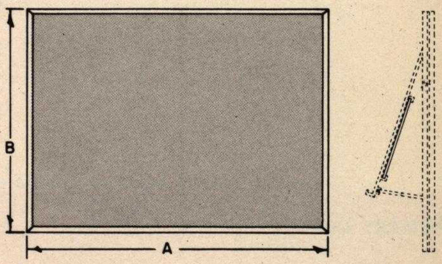
ONLY ONE BASIC INSTALLATION



EACH PANEL ACCESSORY comes framed in an attractive ALUMINUM FRAME fitted for easy attachment to standard.

MODUWALL FLANNELBOARD ACCESSORY

Stores behind standard easel. Special black flannel bonded to thick hardboard. Remains smooth, wrinkle-free always.

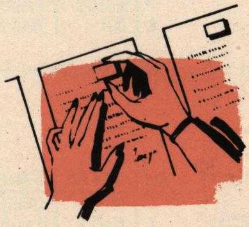


CODE No.	SIZE	A	B
M-6F	44" x 24"	44"	24"

Brunswick MODUWALL
BRUNSWICK CHALKBOARD IS
***Lifetime* GUARANTEED**

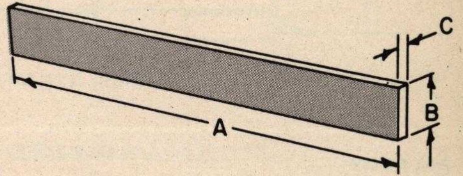
The fine quality materials and construction of Brunswick Steel Chalkboard enables us to guarantee its writing surface *for life*. This unconditional guarantee shall cover failures which occur during normal usage and shall not be construed to cover willful damage or misuse.

Use it With Magnetic Accessories—Steel chalkboard may be used with magnetic accessories to provide an important teaching aid—for copying, for demonstration, for display.

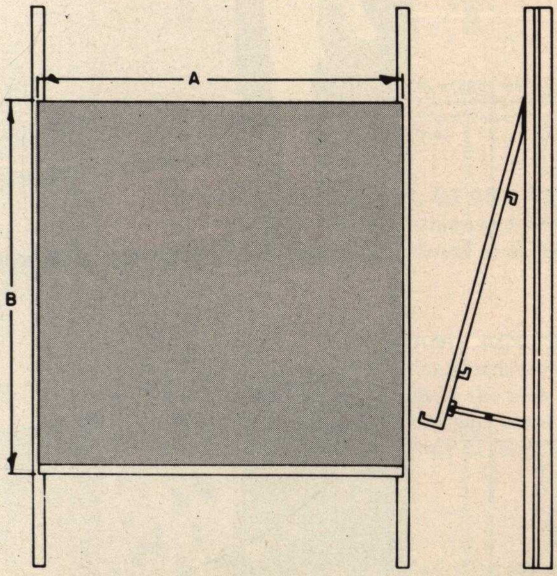


MODUWALL UTILITY RAIL

A practical attractive accessory—¾" Aluminum extrusion with 1⁵⁄₁₆" full length center tack strip—designed for use of sliding utility hangers.



CODE No.	SIZE	A	B
M-5u	47¾" x 3"	47¾"	3"



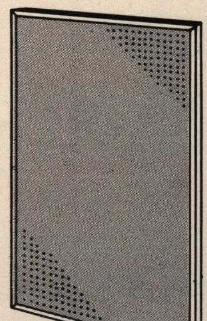
MODUWALL EASEL BOARD

Constructed of hardwood, plywood with ladder brackets at the base. Full length paint tray permanently attached at bottom. Storage rail at back holds flannelboard accessory.

CODE No.	SIZE	A	B
M-444	4' x 4'	4'	4'

MODUWALL PEGBOARD

Constructed of durable tempered hardboard. Standard perforations to take all pegboard accessories—light gray.



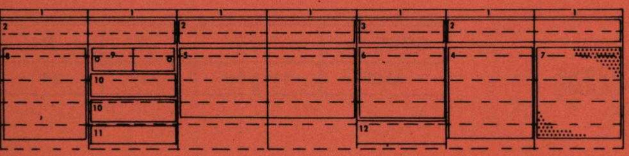
CODE No.	SIZE	A	B
M-4P	4' x 4'	4'	4'

Brunswick MODUWALL

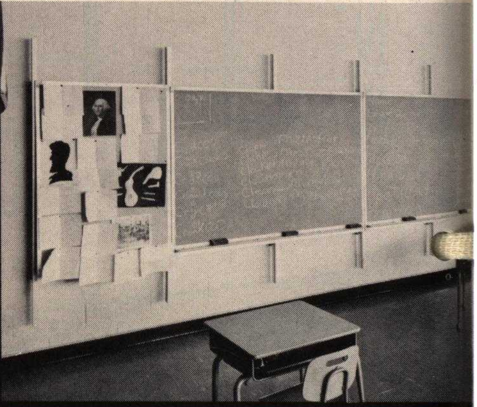
FROM KINDERGARTEN THROUGH COLLEGE . . . Here are typical Brunswick Moduwall installations—each individually arranged to create a specific grade and teaching environment.

WE WILL BE HAPPY TO HELP YOU PLAN YOUR MODUWALL INSTALLATION—to make sure you get the maximum in utilization of your Moduwall panels and accessories for the size and teaching program of your school or district.

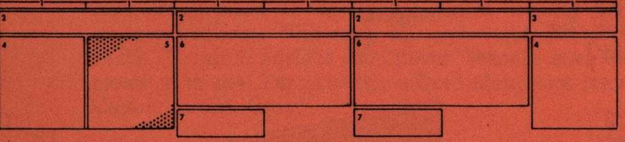
PRIMARY GRADES



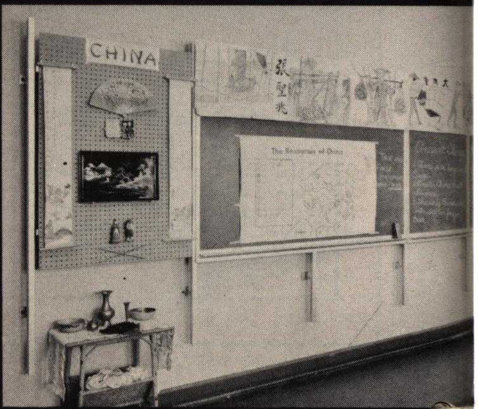
Ref.	Code No.	Description	Qty.
1	M-5U	Utility Rail	7
2	M-381	Tackboard 8′ x 1′	3
3	M-341	Tackboard 4′ x 1′	1
4	M-344	Tackboard 4′ x 4′	1
5	M-283	Chalkboard 8′ x 3′	1
6	M-243	Chalkboard 4′ x 3′	1
7	M-4P	Pegboard 4′ x 4′	1
8	M-444	Easel Board 4′ x 4′	1
9	M-12DC	Book Cabinet	1
10	M-125	Open Book Shelf 12″	2
11	M-9S	Open Book Shelf 9″	1
12	M-10S	Slope Magazine Rack	1
13	M-6F	Flannel Board Accessory	1
14	S-1	Wall Standards	8



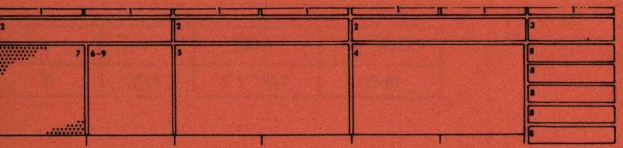
FOREIGN LANGUAGE ROOM



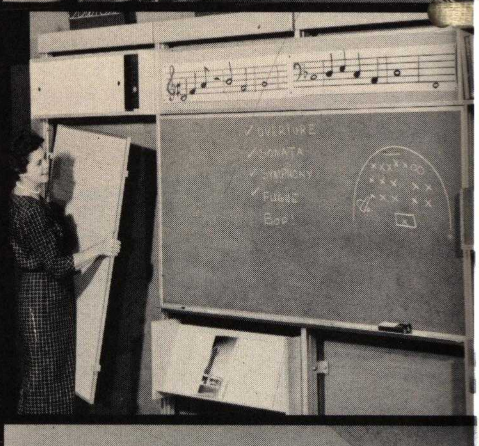
Ref.	Code No.	Description	Qty.
1	M-5U	Utility Rail	7
2	M-381	Tackboard 8′ x 1′	3
3	M-341	Tackboard 4′ x 1′	1
4	M-344	Tackboard 4′ x 4′	2
5	M-4P	Pegboard 4′ x 4′	1
6	M-283	Chalkboard 8′ x 3′	2
7	M-10S	Slope Magazine Rack	2
8	S-1	Wall Standards	8



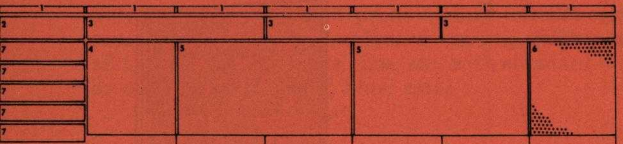
ART ROOM



Ref.	Code No.	Description	Qty.
1	M-5U	Utility Rail	7
2	M-381	Tackboard 8′ x 1′	3
3	M-341	Tackboard 4′ x 1′	1
4	M-384	Tackboard 8′ x 4′	1
5	M-284	Chalkboard 8′ x 4′	1
6	M-444	Easel Board	1
7	M-4P	Pegboard 4′ x 4′	1
8	M-9S	Bookshelves 9″	5
9	M-6F	Flannel Board Accessory	1
10	S-1	Wall Standards	8

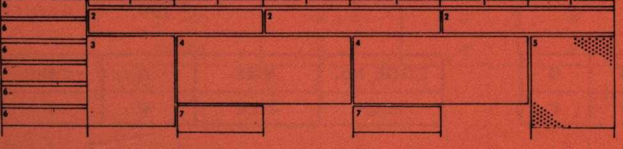


MATHEMATICS ROOM

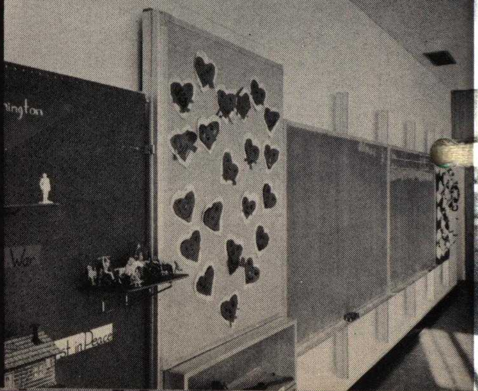


Ref.	Code No.	Description	Qty.
1	M-5U	Utility Rail	7
2	M-341	Tackboard 4′ x 1′	1
3	M-381	Tackboard 8′ x 1′	3
4	M-344	Tackboard 4′ x 4′	1
5	M-284	Chalkboard 8′ x 4′	2
6	M-4P	Pegboard 4′ x 4′	1
7	M-9S	Bookshelves 9″	5
8	S-1	Wall Standards	8

HOME ECONOMICS ROOM



Ref.	Code No.	Description	Qty.
1	M-5U	Utility Rail	6
2	M-381	Tackboard 8′ x 1′	3
3	M-344	Tackboard 4′ x 4′	1
4	M-283	Chalkboard 8′ x 3′	2
5	M-4P	Pegboard 4′ x 4′	1
6	M-9S	Bookshelves 9″	6
7	M-10S	Slope Magazine Rack	2
8	S-1	Wall Standards	8



Important Architectural Considerations

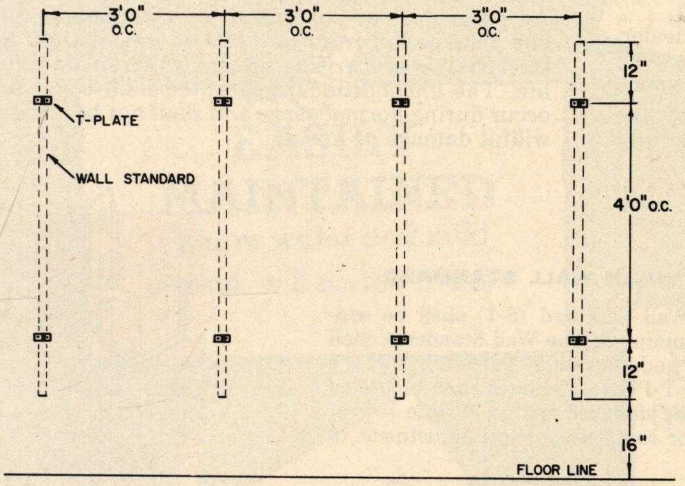
- All Moduwall standards, panels and accessories are shipped complete, assembled ready for wall installation.

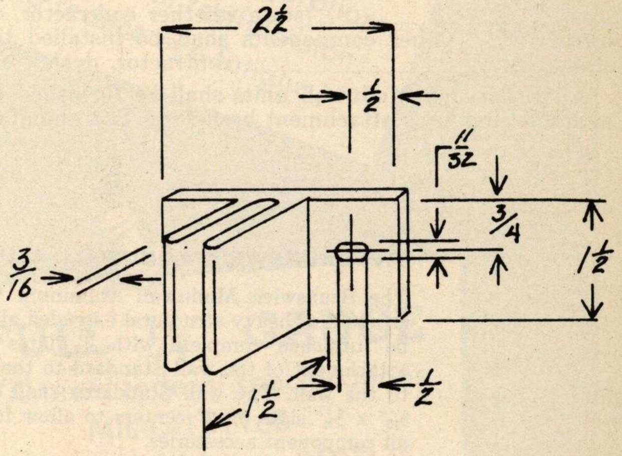
- Moduwall may be affixed to any wall construction, including

  1. Plaster or Dry Wall **2.** Hollow Tile **3.** Cinder or Concrete **4.** Brick or Solid Concrete

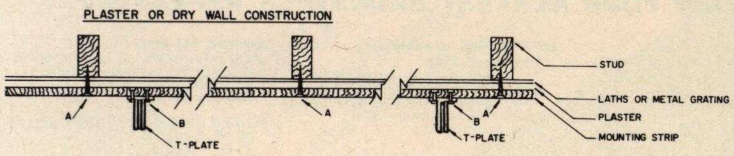
- Simple 4-step installation as follows:

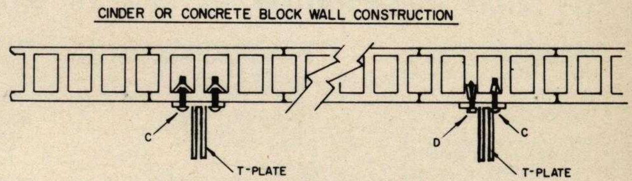
1 PLAN THE WALL LAYOUT—for the mounting of T-Plates. Standards will then be affixed to these Plates. Note 3′ intervals.

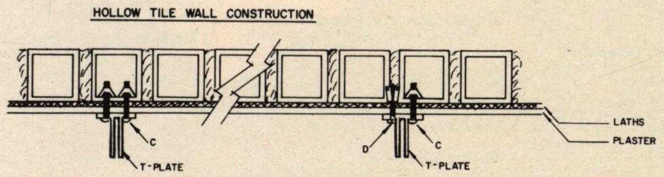

3'0" O.C.
3'0" O.C.
3"0" O.C.
T-PLATE
WALL STANDARD
12"
4'0" O.C.
12"
16"
FLOOR LINE

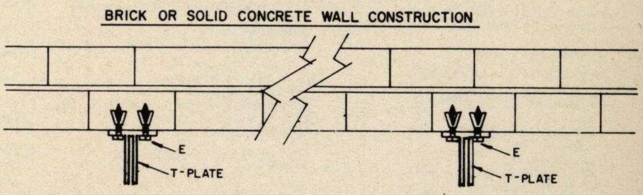

2½
½
11/32
3/4
1½
3/16
1½
½

2 MOUNT T-PLATES TO THE WALL. Follow diagram below for bolting to various wall types.


PLASTER OR DRY WALL CONSTRUCTION
STUD
LATHS OR METAL GRATING
PLASTER
MOUNTING STRIP
A
B
A
A
B
T-PLATE
T-PLATE


CINDER OR CONCRETE BLOCK WALL CONSTRUCTION
C
T-PLATE
D
C
T-PLATE


HOLLOW TILE WALL CONSTRUCTION
LATHS
PLASTER
C
T-PLATE
D
C
T-PLATE


BRICK OR SOLID CONCRETE WALL CONSTRUCTION
E
T-PLATE
E
T-PLATE

NOTE: When the walls on which Moduwall standards are of composition or plaster, the T-Plates are not mounted directly on the wall surface. The wood mounting strip should be 8″ longer than the overall Moduwall installations. One mounting strip is used for the upper row of T-Plates and the other is used for the lower line of T-Plates.

3 MOUNT MODUWALL STANDARDS TO T-PLATES. The glove tight fit of the T-Plate tongues in the slots of the standard permits positioning and adjustment of all standards before the holes are drilled in the T-Plate tongues. Adjust all standards until plumb and level. Drill holes in the tongues of the T-Plates with a ⅜ths drill . . . insert bolts and tighten.

4 INSTALL PANELS AND ACCESSORY UNITS TO STANDARDS—insert the panel mounting bolts into the runner channels of the standards from either the open top end or the open bottom end of the channel. Properly space the supporting bolts to support the unit to be hung. (Tackboard, Chalkboard, etc. . . . and lock these bolts into position on the running channel by means of the lock nuts provided. Hang the panel, tackboard, chalkboard, etc. in position on the standard and lock securely in its position with the lock nuts as provided.

Installation Notice—The detailed Brunswick Moduwall Information and Specifications Manual is available for more complete Specifications, particularly on panel units and installation instruction detail.

Brunswick MODUWALL

General Specifications

Brunswick Moduwall shall consist of a series of components to be affixed to classroom and other walls within the school. These components shall consist of wall standards which shall be affixed to the walls and various units which may be attached to the wall standards. The units to be attached to the wall standards may include such items as steel chalkboard, tackboard, wall cabinets, magazine racks, and so on, as specified in further detail in Specification.

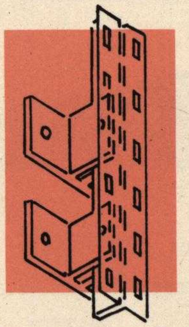
Wall standards shall be installed by________________ ________________(state whether contractor, dealer, owner, etc.). Other components shall be installed to wall standards by________________(contractor, dealer, owner).

All Brunswick Moduwall units shall be furnished by the manufacturer with attachment hardware. The manufacturer shall supply such items as T-Plates to be used for the attachment of wall standards to wall surface, as well as screw and nut assemblies for the fastening of wall standards to T-Plates. Manufacturer shall not provide bolts for attachment of T-Plates to the wall, since these bolts may be best obtained on the job site to suit the wall construction.

All parts shall be manufactured to the highest degree of quality and specification consistent with the product usage. All parts shall be guaranteed by the manufacturer for a full one year period from the date of installation, excepting the steel chalkboard writing surface which shall be guaranteed for life. The unconditional guarantee shall cover failures which occur during normal usage and shall not be construed to cover willful damage or misuse.

THE BRUNSWICK MODUWALL ALUMINUM WALL STANDARD

The Brunswick Moduwall Aluminum Wall Standard (S-1) shall be constructed of heavy structural extruded aluminum. The Wall Standards shall be furnished complete with T-Plates and necessary hardware for the attachment of the wall Standard to the T-Plates. T-Plates shall be bolted to the wall. The wall Standards shall be designed with a double row of 5/16″ x 5/8″ slots on 2″ centers to allow for complete vertical adjustment of all component accessories.



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CALIFORNIA—Bakersfield
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Healey & Popovich
1703 Fulton
Los Angeles
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Allied, Incorporated
339 North Capitol Avenue

IOWA—Cedar Falls
J. S. Latta & Son
2218 Main Street

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1626-28 Broadway
Kansas City 8, Missouri

KENTUCKY—Louisville
School Specialists of Kentucky
928 Parkway Drive

LOUISIANA—New Orleans
The Rowley Company, Inc.
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MICHIGAN—Lansing
Classrooms, Inc.
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MINNESOTA—Minneapolis
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Central School Supply Company
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MISSOURI—St. Louis
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NEBRASKA—Lincoln
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Printed in U.S.A.

AIA File 35-N-3
1960 Edition

23e
Co

MADE IN U.S.A.

FULL COLOR LINE
(To conform with decoration and to permit restful vision and reduce eye fatigue.)

EASILY MAINTAINED
(Warm water and mild soap will do the trick.)

FULL 1/4" GAUGE
(Will meet federal specifications.
MIL-C-15116B-
Nominal thickness .250")

LONG LASTING
(Original installations in use over 50 years.)

Gold Seal®
Bulletin Board Cork

GOLD SEAL®
CONGOLEUM-NAIRN INC.

Congoleum-Nairn
FINE FLOORS

AVAILABLE IN EVERY STATE FOR IMMEDIATE DELIVERY

SPECIFY GOLD SEAL –
To be certain it is made in the U.S.A.

AIA File 35-N-3
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Congoleum-Nairn
FINE FLOORS

Gold Seal®

BULLETIN BOARD CORK

Made in the United States of America

Gold Seal Bulletin Board Cork has been manufactured for over half a century, and is the oldest and therefore the most proven bulletin board cork on the market. Ask the contractor who has used it for many years.

MOST COMPLETE COLOR RANGE ON THE MARKET . . . Gold Seal Bulletin Board Cork is available in **SEVEN TRUE AND DISTINCTIVE COLORS** properly designed for good light reflectance to promote restful vision and reduce fatigue.

DESIGNED FOR RUGGED USE . . . The composition withstands thumbtack perforations and maintains its original appearance for years and years. The use of a linseed oil binder results in a firm locking-in of cork and pigments . . . avoiding pickout.

DESIGNED FOR CONVENIENT HANDLING AND INSTALLATION . . . Because Gold Seal Bulletin Board Cork is reinforced with a backing of the finest quality burlap, it can be handled and installed without cracking. The use of burlap also permits removal from the wall when necessary. Because of extra width rolls, 73″ and 49″, neater installations can be made on standard size backing boards. Wall installations can be made up to 90 feet in length without a single seam.

Congoleum-Nairn Linoleum Paste, No. SU-20, is particularly adaptable for use with Gold Seal Bulletin Board Cork.

DESIGNED FOR EASY MAINTENANCE: Since Gold Seal Bulletin Board Cork colors are uniform throughout, maintenance is negligible. Warm water and mild soap is sufficient under normal circumstances.

Installation Specifications

MATERIALS—BULLETIN BOARDS:

The covering shall be Gold Seal Bulletin Board Cork.

ADHESIVE:

The adhesive for cementing the Bulletin Board Cork to walls shall be Linoleum Paste, SU-20. When increased resistance to moisture is desired, "Three-Twenty" Adhesive shall be used.

WALL CONSTRUCTION:

Walls to receive Gold Seal Bulletin Board Cork shall be:

1. Good quality plaster with a white coat finish erected in such a manner that when dry they shall be firm, hard, and smooth.
2. Brown coat to which cement has been added and which has been steel troweled to a smooth finish.
3. Finished with patent plasters properly troweled to be firm, hard and smooth.
4. Wallboards, such as U. S. Gypsum's Recessed Edge Sheetrock, installed according to the manufacturer's specifications.

WALL CONDITIONS:

Walls shall be smooth. Rough spots and trowel marks shall be sanded smooth with sandpaper. Cracks and identations shall be filled with a non-shrinking patching plaster compound and sanded to a smooth surface when dry.

Walls shall be clean. Loose, scaly paint, water-soluble paint, or wallpaper shall be removed.

Gloss-painted or enamel-painted walls shall be sanded with coarse sandpaper to provide a satisfactory bond.

Walls shall be dry. Plaster walls shall be dry as tested by the Congoleum-Nairn Plaster Moisture Detector.

Walls with exterior faces exposed to the elements or which are below grade are not approved under this specification for the installation of Gold Seal Bulletin Board Cork. Proper furring-out of the interior wall surface will provide an acceptable surface.

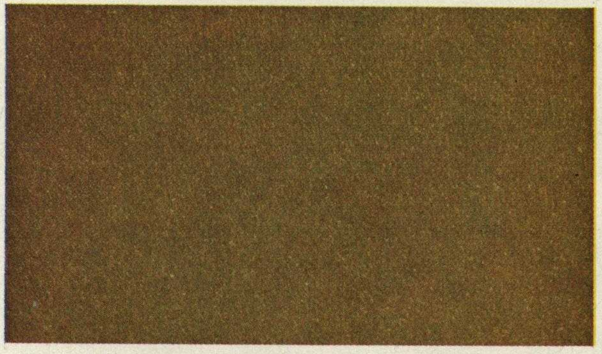
APPLICATION OF MATERIALS:

The Bulletin Board Cork, Sealer and Adhesives must be stored in the original packages at not less than 70°F. for at least 24 hours before installation. A temperature of at least 70°F. shall be maintained in the area receiving the installation for 24 hours prior to, during, and for 24 hours after the installation is complete.

Linoleum Paste, SU-20 shall be used to install Gold Seal Bulletin Board Cork on walls. When increased resistance to moisture is desired, Congoleum-Nairn "Three-Twenty" Adhesive shall be used. Starting at the established level horizontal guide lines, the Adhesive shall be spread over the wall with a fine notched flexible trowel, covering approximately 110 square feet per gallon. Apply the Bulletin Board Cork to the spread area and roll thoroughly with a rubber wall roller to assure contact of the Bulletin Board Cork and adhesive. At junctions with projections from the wall and at floor and ceiling, the Bulletin Board Cork shall be carefully scribed and cut so as to form a neat joint at these places. The Bulletin Board Cork shall never be forced into place or laid under pressure.

CLEANING OF WALLS:

Immediately after the installation is completed, the surface of the Bulletin Board Cork shall be cleaned thoroughly. Spots of adhesive can be removed with a damp cloth. Spots or smears of "Three-Twenty" Adhesive not readily removed with a damp cloth, can be removed by rubbing vigorously with a dry cloth.

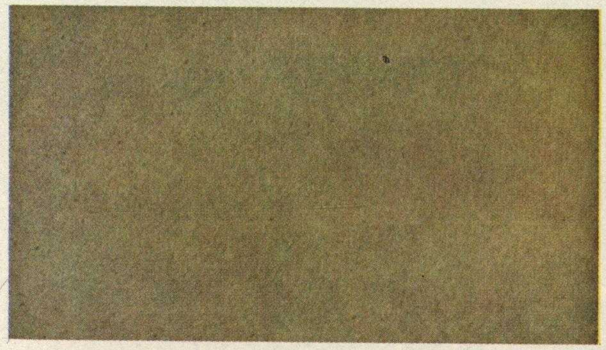


toast tan • burlap back
73″ and 49″ wide

¼″ and ⅛″ gauges **BC2**
light reflectance — 19%

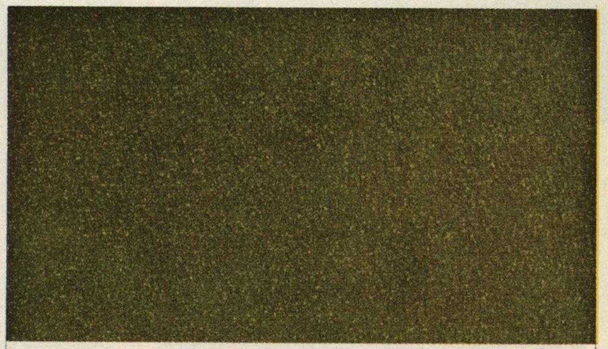
field green • burlap back
73″ wide only

¼″ gauge **BC4**
light reflectance — 12%



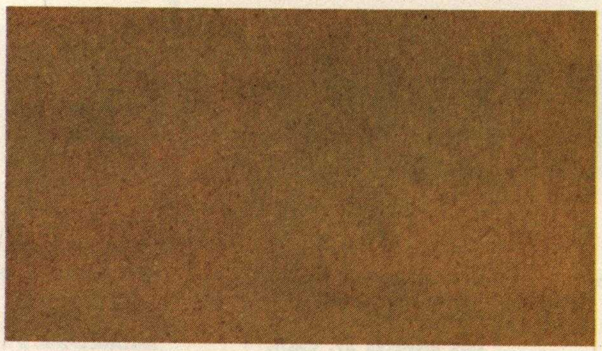
beach grey • burlap back
73″ and 49″ wide

¼″ gauge **BC6**
light reflectance — 33.5%



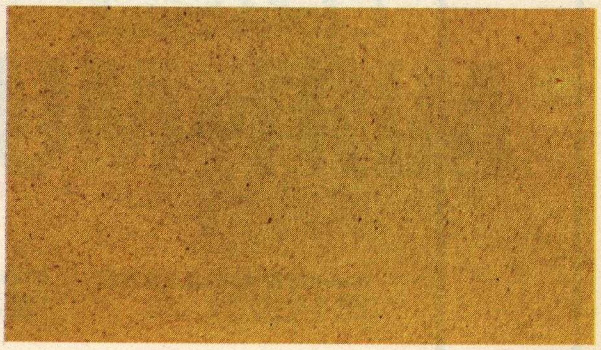
spray green • burlap back
73″ and 49″ wide

¼″ and ⅛″ gauges **BC8**
light reflectance — 24.5%



wheat tan • burlap back
73″ and 49″ wide

¼″ and ⅛″ gauges **BC10**
light reflectance — 28%



yellow gold • burlap back
49″ wide only

¼″ gauge **BC12**
light reflectance — 35%

coral rose • burlap back
49″ wide only

¼″ guage **BC 18**
light reflectance — 32%

Note: See our Resilient Floor Covering Products in section 13i

To be certain it is made in the United States — specify Gold Seal Bulletin Board Cork.

AIR RAID
FIRE DRILL

Gold Seal®

Bulletin Board Cork

DISTRICT SALES OFFICES

ATLANTA 9, GA.
Bank of Georgia Bldg.
1430 W. Peachtree St., N. W.

BOSTON 16, MASS.
137 Newbury St.

CHICAGO 54, ILL.
13-100 The Merchandise Mart

CINCINNATI 37, OHIO
Roger Building
1720 Section Rd.

CLEVELAND 3, OHIO
4317 Chester Ave.

DALLAS 7, TEXAS
3021 Routh St.

KANSAS CITY 6, MO.
Uptown Theater Bldg.
3706 Broadway

LOS ANGELES 57, CALIF.
Suite 26
672 S. Lafayette Pk. Pl.

MINNEAPOLIS 16, MINN.
Resop Bldg.
4221 Excelsior Blvd.

NEW YORK 16, N. Y.
Textile Bldg.
295 Fifth Avenue

PHILADELPHIA 31, PA.
City Line Centre
77th St. & City Line Ave.

SAN FRANCISCO 3, CALIF.
Western Merchandise Mart
1355 Market St.

FOR HOMES, BUSINESS, INSTITUTIONS . . .

BY-THE-YARD AND TILES—
Inlaid Linoleum • Nairon® Plastics
Vinylbest® Tile • Cork Tile
Rubber Tile • Asphalt Tile

PRINTED FLOOR AND WALL COVERINGS
Congoleum® and Congowall®

RUGS AND BROADLOOM
LoomWeve®

Congoleum-Nairn®
FINE FLOORS

CONGOLEUM-NAIRN INC.

industrial sales division

195 BELGROVE DRIVE **KEARNY, N. J.**

A.I.A.-35-B-11

23e
CL

Claridge

CHALKBOARDS
BULLETIN BOARDS
ALUMINUM TRIM

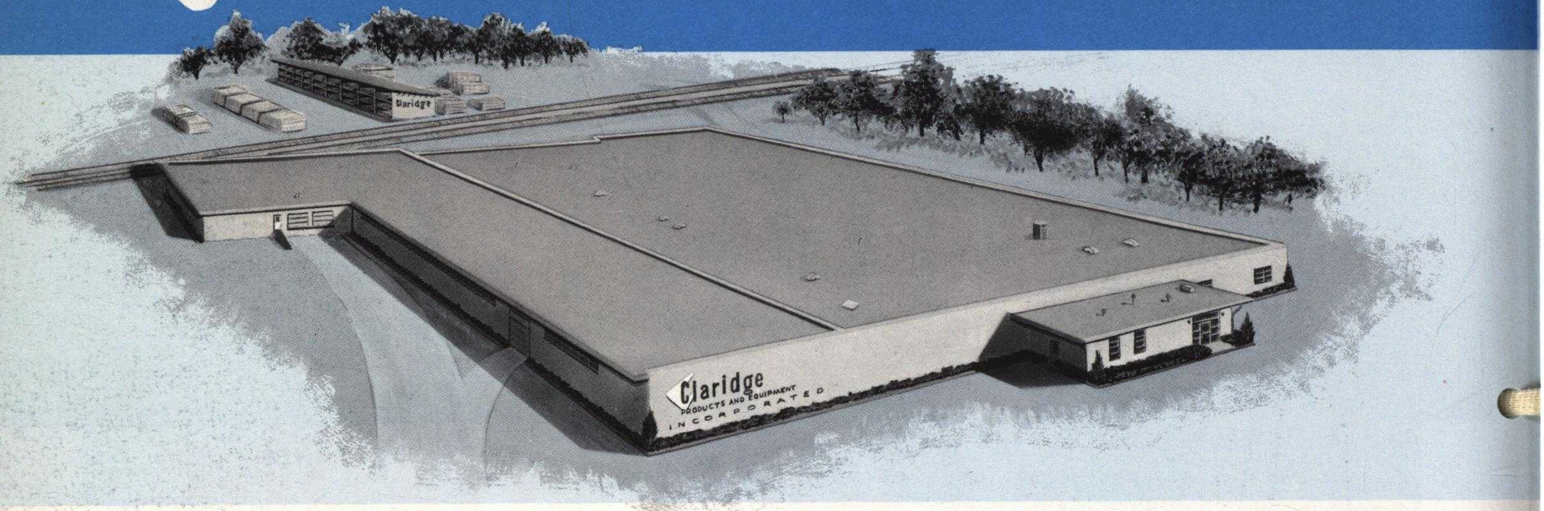
CATALOG 60

* We like to write on CLARIDGE chalkboards!
®

A.I.A.-35-B-11

CLARIDGE PRODUCTS and EQUIPMENT, INCORPORATED
MANUFACTURERS
HARRISON, ARKANSAS

Claridge BACKGROUND and FACILITIES



Devoted Exclusively to the Manufacture of Chalkboards and Bulletin Boards

Since its inception, Claridge has devoted itself solely to the design and manufacture of finer chalkboards, bulletin boards, and related products. This is our only manufacturing activity. Engineering skill and many years of construction experience and craftsmanship, exclusively in this field, have made Claridge chalkboards outstanding, educationally and price-wise.

Our new plant, just completed, is equipped with the most modern, mechanized manufacturing processes. Motivated, too, by the determination to build the best, the entire Claridge organization continues to present to the school market throughout the world chalkboards and bulletin boards which meet the most exacting requirements of all types of building construction. We are greatly indebted to the support of thousands of school officials, architects, and contractors. Only through the loyal and increasing support of these people has our contribution toward better chalkboards been possible. In executing this program to the fullest, Claridge customers are assured of continued faithful performance and the meeting of every obligation.

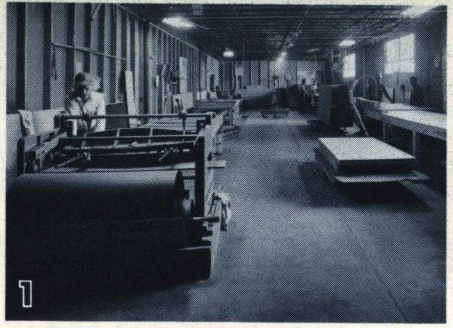
MANUFACTURING FACILITIES

Our new plant, with more than 50,000 square feet of floor space under one roof, houses the most completely equipped chalkboard and bulletin board production facilities in the industry. Every phase of our production is under the supervision of craftsmen with years of experience in the construction and wood-working fields, in general, and in the highly specialized chalkboard field in particular. All raw materials are carefully selected and must pass rigid inspection before being placed into production. With this combination of the most modern and finest production facilities, skilled and experienced craftsmen, and highest grade materials, every Claridge installation insures fullest user satisfaction.

COMPLETE ENGINEERING SERVICE

We maintain a highly skilled engineering department with many years experience in all types of chalkboard installations. Whether your project is a modest district school or an elaborate city grade school, high school, or college, our staff will gladly assist you in all phases of your chalkboard planning.

On any difficult projects, unusual requirements, or special applications, our engineers are available for consultation at your convenience. Our engineering service can be invaluable to your planning, and can help you give your client utmost chalkboard satisfaction. This service is offered without obligation, and we would deem it a privilege to consult with you on any chalkboard and bulletin board problems.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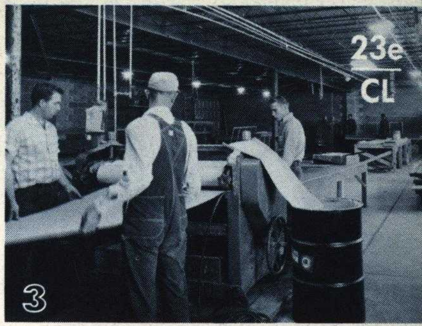
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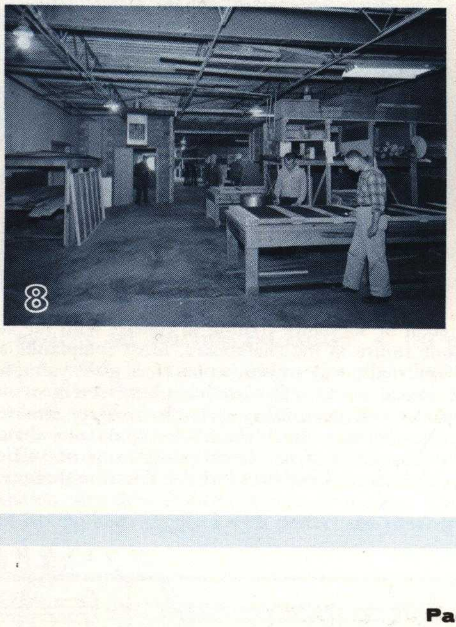
Prepared to handle Small or the Biggest and Toughest

CHALKBOARD JOBS

1. ***Cutting Room***—Here is where all vitreous steel, plywood, and hardboard panels are cut to exact size for laminating.
2. ***Cork Cutting Room***—All cork is thoroughly inspected and cut to size for shipment or laminated to panel stock.
3. ***Glue Room***—Where chalkboard panels, mounted cork, and vitreous steel panels are laminated. Various types of adhesives are used, including contact cement, each specially adapted and tested for its particular purpose.
4. ***Chalkboard Surfacing***—Illustrating electronic oven and coating equipment by which the thermosetting resin surface is applied. Ovens are thermostatically controlled, insuring absolute uniformity in surface texture. When panels have cooled, chalkboards are ready for shipment.
5. ***Testing Room***—All factory built units are completely assembled and tested before shipping. Most units are shipped completely assembled. Only the largest units are partly disassembled before shipment. In that case all component parts are properly marked for easy erection on the job.
6. ***Assembly Line***—Here prefabricated chalkboards and bulletin boards are completely assembled. When they arrive on the job they can be attached to the wall without cutting, fitting or framing.
7. ***Prefab Crating Room***—All factory built units and prefabricated wall boards are packed in a separate department.
8. ***Panel Stock Crating Room***—Where all unframed chalkboards and bulletin boards are crated to insure the best possible packing and ultimate safe delivery. All boards are again individually and thoroughly inspected before crating.

4

5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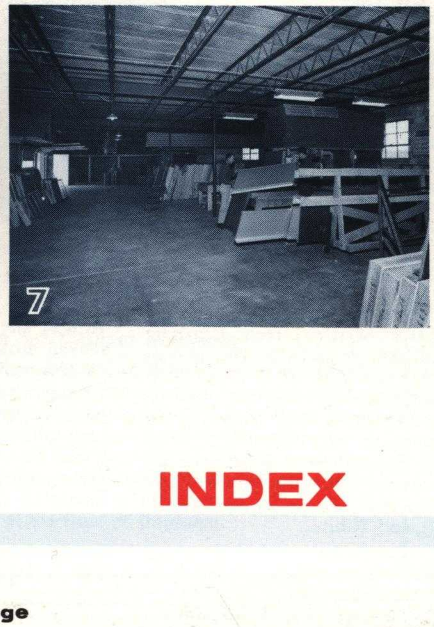
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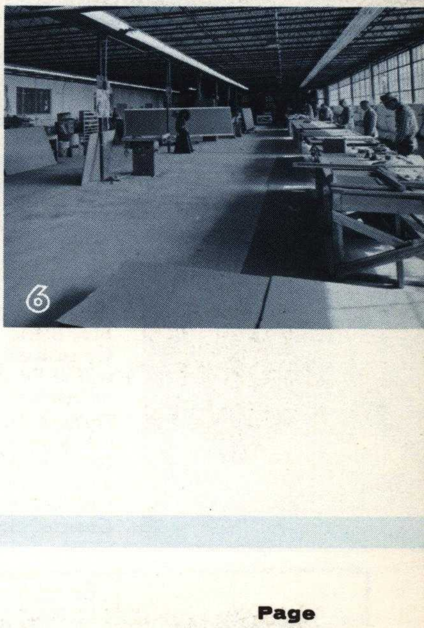
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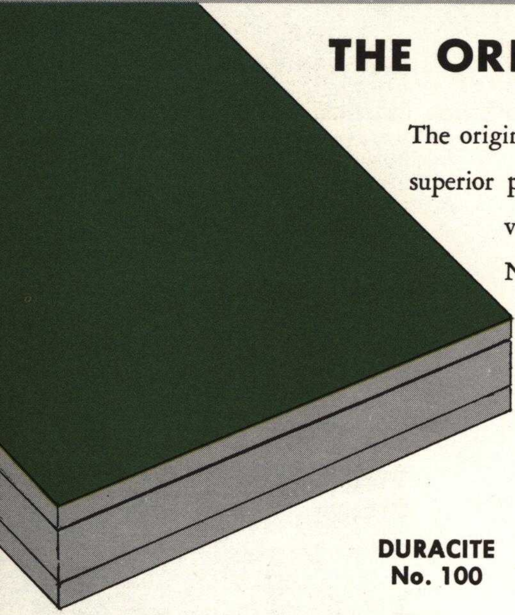
Claridge *Duracite* AND

THE ORIGINAL BALANCED CHALKBOARD



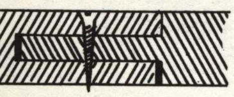
DURACITE
No. 100

The original one-half inch chalkboard is designed to be a permanent part of the building. Its superior performance, new efficiency in teaching, and longer life are assured by the most advanced method of manufacture backed by long experience and time tested materials. No other chalkboard has so many features which contribute to long life and unlimited service: thicker, stronger and more rigid panels, harder more durable writing surface, concealed lock joint, and new color harmony. It is adaptable for use in any school building, and under all climatic conditions.

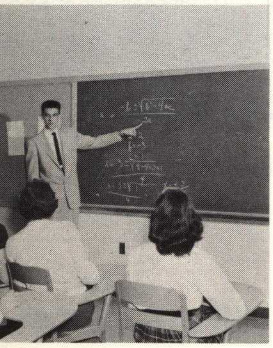
The close-grained surface is easily maintained. Erases clean. May be washed when necessary to remove chalk smudge. The surface is virtually dent proof, crack proof, non-breakable, color fast, in fact, almost indestructible. When properly installed, it is guaranteed for the life of the building. There is no finer, more economical, or serviceable board available at any price.

BALANCED PANELS—To avoid distortion it is necessary to have a perfectly balanced panel. Our 3 ply panel as used in No. 100 Duracite and No. 111 Durasteel avoids possible stress and strain present under certain climatic conditions in two ply boards. As a result there is less possibility of warping. This means easier erection resulting in lower installation costs.

INTERLOCKING JOINT ON No. 100 DURACITE AND No. 111 DURASTEEL

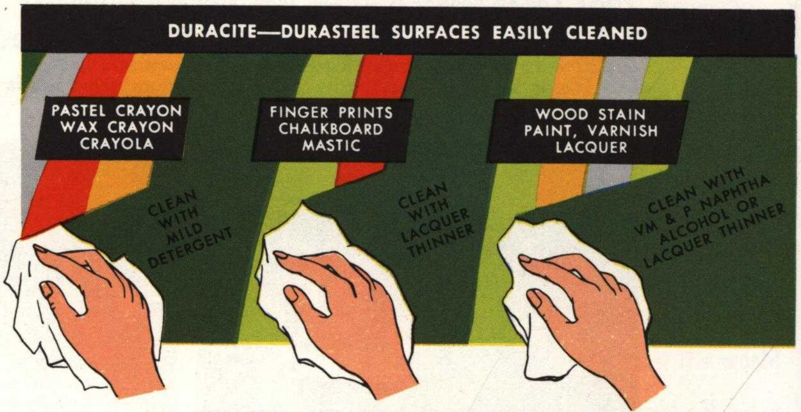


Improved interlocking joint keeps the face of adjoining panels in perfect alignment. Each joint is hand fitted and clearly marked at the factory, thus insuring a perfect fit. Mastic applied to the joint actually welds the panels end to end and prevents open seams. This is a distinctive Claridge feature.



NINE COLORS

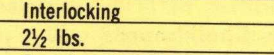
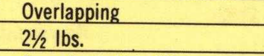
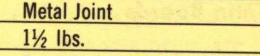
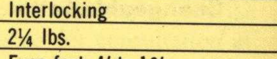
The standard colors are Clearcite Green, Blue-Black, Dark Myrtle Green. Clearcite Green has a reflectance of 19%. This is well within the color spectrum of 15% to 20% reflectance established by lighting experts. However, to provide a wide selection of colors to harmonize with modern interior color schemes Duracite and Durasteel are also available in the following colors: Light Green, Powder Blue, Earth Brown, Coral, Charcoal Gray, and White.


DURACITE—DURASTEEL SURFACES EASILY CLEANED
PASTEL CRAYON
WAX CRAYON
CRAYOLA
CLEAN WITH MILD DETERGENT
FINGER PRINTS
CHALKBOARD
MASTIC
CLEAN WITH LACQUER THINNER
WOOD STAIN
PAINT, VARNISH
LACQUER
CLEAN WITH VM & P NAPHTHA ALCOHOL OR LACQUER THINNER

DURACITE—DURASTEEL SURFACES EASILY CLEANED

Almost any stain or substance coming in contact with the surface can be removed without injury to the chalkboard. Most complaints arise from stains made by colored chalk, wax crayon, scotch tape, glue, paint, hair oil, lip stick, finger prints, pencil marks, etc. Any household detergent or cleaning fluid, acetone, alcohol, or lacquer thinner may be used to remove foreign matter from the surface because the surface is more durable than ordinary chalkboard paint or lacquer surfaces. Even caustic soda of sufficient strength to destroy sheet aluminum does not affect the Duracite thermosetting resin surface.

TECHNICAL

SPECIFICATIONS	 DURACITE NO. 100	 DURACITE NO. 101	 DURACITE NO. 102	 DURACITE NO. 105
Colors Available (Others on special order)	Nine Colors	Nine Colors	Nine Colors	Nine Colors
Overall Thickness	Approx. ½″	Approx. ½″	Approx. ¼″	Approx. 7/16″
Panel Construction	3-ply, ⅛″ Treated HB Face and Back, ¼″ Wood or H.B. Center	2 ply Treated Hydro Pressed Hardboard	¼″ Treated Hydro Pressed Hardboard	3 ply Treated Hydro Pressed Hardboard
Surface	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin
Light Reflectance—	Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%
Joint	Interlocking	Overlapping	Metal Joint	Interlocking
Weight per Square Ft.	2½ lbs.	2½ lbs.	1½ lbs.	2¼ lbs.
Standard Lengths	Even feet, 4′ to 16′	Even Feet, 4′ to 16′	Even Feet, 4′ to 16′	Even feet, 4′ to 16′
Standard Widths	3′, 3½′, and 4′	3′, 3½′, and 4′	3′, 3½′, and 4′	3′, 3½′, and 4′
Guarantee	Life of Building	Life of Building	Life of Building	Life of Building

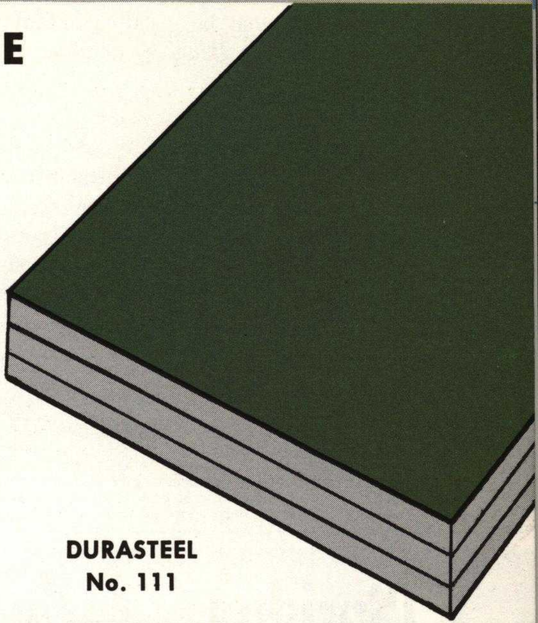
Claridge reserves the right to change specifications or add improvements without notice or obligation.

Durasteel CHALKBOARDS

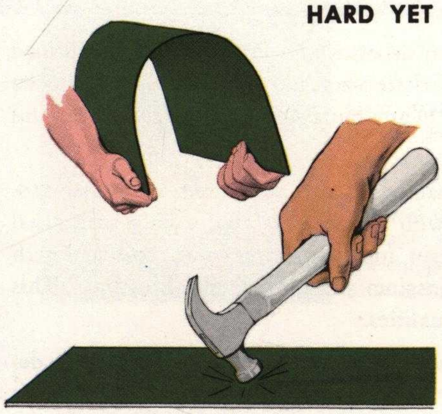
DESIGNED FOR LONG CAREFREE USE

CONSTRUCTION—DURACITE • DURASTEEL

Both chalkboards are identical in construction except that Durasteel has steel face for use with small magnets. The panel stock varies depending on whether one-quarter or one-half inch panels are used. The half inch boards are available in three ply perfectly balanced panels. The writing surface on Durasteel and Duracite is different from other chalkboards. It is not an ordinary lower cost paint or lacquer, as is generally used. The Duracite writing surface, which is used on both boards, is a thermosetting or heat cured resin combined with pigments and reinforced with magnesium silicate and silicon carbide. This surface is hard and tough; there is almost no wear out to it when used with standard grades of dustless chalk. It remains flat, without gloss. The original gloss reading ranges from 2.5% to 3.0% depending on the color. The allowable reading on the reflection meter is 6% which indicates that the surface is well within this light range.

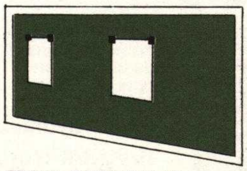


DURASTEEL
No. 111



HARD YET RESILIENT SURFACE

The chalkboard surface is practically wearproof. It will not craze or crack, and it is highly resistant to surface marring or scratching. It is tough, and so firmly bonded to the panel that flexing or bending, even at a sharp angle, does not affect it. Impact will not cause the surface to shatter.



FROM CHALKBOARD TO BULLETIN BOARD MAGNETICALLY

Small magnets placed at the corners of papers and notices convert this new Durasteel chalkboard to a bulletin board. No need for thumb tacks. Magnets hold papers in place until you're ready to remove them.

DURACITE AND DURASTEEL CHALKBOARD • LIFE OF THE BUILDING GUARANTEE

All chalkboards, when installed according to our printed instructions, will give entire satisfaction to the user. The writing surface will give full satisfaction under normal conditions of usage, and will not fade, spider check, chip, peel, pit, or become slick and glossy, and will require no more than normal maintenance. Should any chalkboard prove defective due to faulty workmanship or material at any time during the life of the building, such panels will be replaced. This guarantee extends to replacement of defective chalkboards only, and it does not include the cost of removal or re-installation, nor does it cover misuse or neglect. This statement is intended to insure the purchaser of having been supplied with perfect chalkboards at the time of shipment.

INDEPENDENT LABORATORY TEST

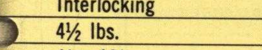
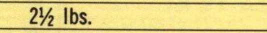
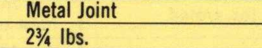
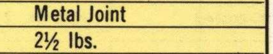
	Spec. Req.	Test Result
Abrasion Resistance	1700 cycles	1700+
Indentation Resistance	No cracks or loosening	No cracks or loosening
Surface Adhesion		
As received	75% squares remain	88% squares remain
After Humidity	75% squares remain	100% squares. remain
Humidity and Drying Exposure	No discolor, blistering or separation	No discolor, blistering or separation
Glossing from Wear		
As received	2.0 max.	.8
After test	2.2 max.	1.3
% Increase	10% max.	60%

Sixty percent increase in glossing of Claridge surface after testing shows 33⅓% less gloss after testing specifications allowed for a chalkboard surface before testing, or more than 40% less than specifications allowed after testing.

Staining Resistance		
Scotch Tape	None	Removes no stain
Crayon	None	Removes slight stain
Lipstick	None	Removes slight stain
Hair Oil	None	No stain
Chemicals		
Bleach	None	No stain
Citric Acid	None	No stain

Note: Surface does not come off with either Acetone or cleaning fluid.

INFORMATION

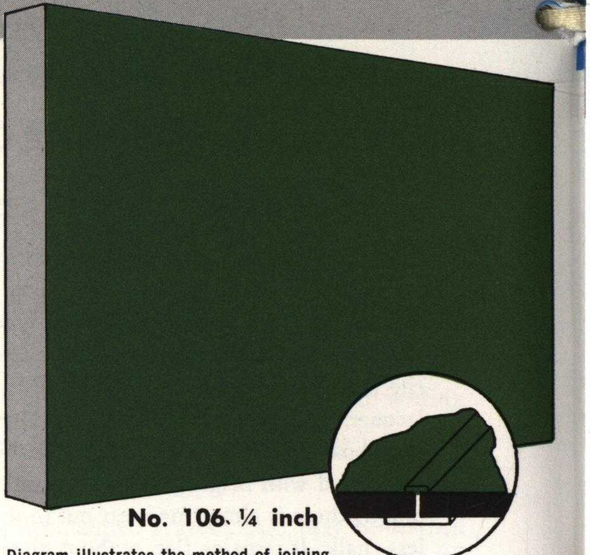
 DURASTEEL NO. 111	 DURASTEEL NO. 111A	 DURASTEEL NO. 111B	 DURASTEEL NO. 111C
Nine Colors	Nine Colors	Nine Colors	Nine Colors
Approx. ½″	Approx. 5⁄16″	Approx. 5⁄16″	Approx. ½″
3 ply, 3—⅛″ panels, Steel Face, Aluminum Back	Steel face, ¼″ Wood Core Aluminum Back	Steel face, ¼″ Hardboard Core, Aluminum Foil Back	Steel Face, ⅜″ Asphalt Fiber Board, Aluminum Foil Back
Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin
Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%
Interlocking	Metal Joint	Metal Joint	Metal Joint
4½ lbs.	2½ lbs.	2¾ lbs.	2½ lbs.
4′ to 12′	4′ to 12′	4′ to 12′	4′ to 12′
3′, 3½′, and 4′	3′, 3½′, and 4′	3′, 3½′, and 4′	3′, 3½′, and 4′
Life of Building	Life of Building	Life of Building	Life of Building

ARCHITECTS SPECIFICATIONS

MATERIALS: All chalkboards are to be (Duracite No. ______ or Durasteel No. ______ — indicate which). All spaces up to and including 12′ to be one panel; spaces 24′ and under to be two panels of equal length. Surface to be a thermosetting or heat cured resin combined with pigments and reinforced with magnesium silicate and silicon carbide, as manufactured by Claridge Products and Equipment, Inc., Harrison, Arkansas, or approved equal, and erected in exact accordance with printed instructions furnished by this manufacturer.

Claridge *Grapholite* CHALKBOARD

FOR SERVICE AND ECONOMY



No. 106. ¼ inch

Diagram illustrates the method of joining panels. We now use an improved extruded aluminum joint with rounded top, finished to match writing surface.

See Below for Complete Specifications

Base is shredded hardwood formed under hydraulic pressure into dense ¼ inch panels. Grapholite may be installed on any wall directly on plaster, cement block, or brick, and may be safely used under all climatic conditions.

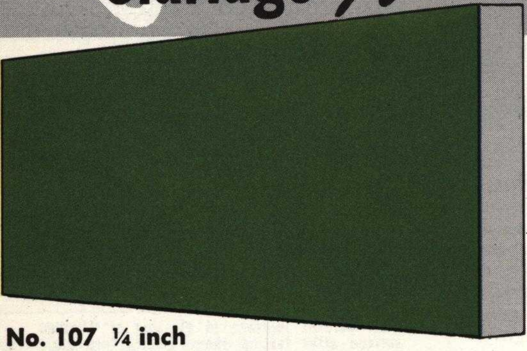
The surface is a thermosetting resin combined with various pigments and reinforced with magnesium silicate and silicon carbide. This provides the hardness and cutting qualities for perfect results and long life. New method of application holds the silicon carbide evenly and thoroughly suspended throughout the depth of the surface. This prevents breakthrough from chalk abrasion. Writing stands out, minimizing eye strain. Writing is easily erased. Grey smudge accumulating from dirty erasers washes off easily. Stains from wax crayon, colored chalk, hair oil, nail polish, paint, glue, etc., may be removed with naphtha, lacquer thinner, or any household detergent, without injuring the surface.

20 YEAR GUARANTEE

Grapholite Chalkboard, when installed according to our printed instructions, will give entire satisfaction to the user. The writing surface will give full satisfaction under normal conditions of usage, and will not fade, spider check, chip, peel, pit, or become slick and glossy, and will require no more than normal maintenance. Should any Grapholite chalkboard prove defective due to faulty workmanship or material at any time within twenty years from date of shipment, such chalkboards will be replaced. This guarantee extends to replacement of defective chalkboards only, and it does not include the cost of removal or re-installation, nor does it cover misuse or neglect. This statement is intended to insure the purchaser of having been supplied with perfect chalkboards at the time of shipment.

Claridge *Asbestocite* CHALKBOARD

ENGINEERED FOR LONG DEPENDABLE SERVICE



No. 107 ¼ inch

No. 109 ½ inch

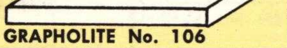
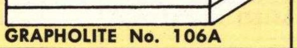
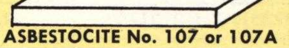
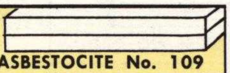
Asbestocite is manufactured from long fiber asbestos and Portland cement formed under hydraulic pressure into panels of various sizes and thicknesses. Asbestocite has great tensile strength, and is adaptable to any building. It is easily installed and gives long, carefree classroom service.

The famous, thoroughly-tested Duracite chalkboard surface is used on all Asbestocite. This dense, closely grained surface, with abrasive material evenly suspended throughout the depth, is a thermo-setting resin, immune to free lime, combined with various pigments and reinforced with magnesium silicate and silicon carbide. This insures long life and unexcelled writing qualities.

Eye strain is virtually eliminated. Chalk smudge, oily finger prints, and wax deposits from colored chalk may be washed off with any household detergent. Hair oil, nail polish, paint stains, etc., may be removed with naphtha or lacquer thinner. In neither instance will any injury to the chalkboard surface result.

LIFE OF THE BUILDING GUARANTEE

Asbestocite Chalkboard, when installed according to our printed instructions, will give entire satisfaction to the user. The writing surface will give full satisfaction under normal conditions of usage, and will not fade, spider check, chip, peel, pit, or become slick and glossy, and will require no more than normal maintenance. Should any Asbestocite chalkboard prove defective due to faulty workmanship or material at any time during the life of the building, such chalkboards will be replaced. This guarantee extends to replacement of defective chalkboards only, and it does not include the cost of removal or re-installation, nor does it cover misuse or neglect. This statement is intended to insure the purchaser of having been supplied with perfect chalkboards at the time of shipment.

SPECIFICATIONS	 GRAPHOLITE No. 106	 GRAPHOLITE No. 106A	 ASBESTOCITE No. 107 or 107A	 ASBESTOCITE No. 109
Colors	9 Colors	9 Colors	9 Colors	9 colors
Thickness	Approx. ¼"	Approx. ½"	107 approx. ¼", 107A approx. 3/16"	Approx. ½"
Construction	1 Ply Hydro Pressed Hardboard	2 Ply Hydro Pressed Hardboard	Hydro pressed asbestos board	3/16" Asbestos mounted on hardboard
Surface	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin	Pigmented Heat Cured Resin
Light Reflectance	Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%	Clearcite Green 19%
Weight Per Sq. Ft.	Approx. 1½ lbs. crated	Approx. 2½ lbs. crated	107 approx. 2¾ lbs., 107A approx. 2¼ lbs.	Approx. 4 lbs. crated
Standard Lengths	4′ to 16′ inc.	4′ to 16′ inc.	6′ to 12′ inc.	6′ to 12′ inc.
Standard Widths	3′ 3½′ and 4′	3′ 3½′ and 4′	3½′ and 4′	3½′ and 4′

COLORS—Grapholite and Asbestocite Chalkboard are available in 9 colors: Clearcite Green, Blue Black, Dark Myrtle Green, Light Green, Powder Blue, Earth Brown, Coral, Charcoal Grey and White.

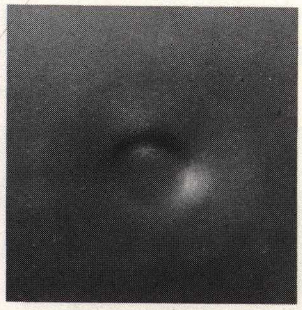
Claridge reserves the right to change specifications or add improvements without notice or obligation.

Claridge NEW IMPROVED Vitracite CHALKBOARD

New improved Vitracite Chalkboard combines every advanced feature of modern porcelain enameling technique. It is manufactured in accordance with the Performance Specifications for Porcelain Enamel Chalkboards as set up by the Porcelain Enamel Institute Inc., Washington, D. C. The frit is fired and fused to enameling stock at high temperature under very exacting controls. This produces a porcelain enamel chalkboard panel with excellent writing and erasing qualities, long life, and glare free light reflectance, which remains in effect after years and years of classroom use.

DURABLE, GLARE-FREE SURFACE

Under a twenty year accelerated chalk and eraser test there was no appreciable gloss or wear to the surface. The test was conducted with a 1" x 1" x 3" unit of dustless white lecturer's chalk and a new all-felt eraser. After the twenty years accelerated test the total increase in gloss was only 1½% (3 points are allowable), to give a reading of 6% on the reflectance meter. There was no measurable decrease in surface thickness, and at no time during the test, nor at the end of the test, were writing and erasing qualities impaired.



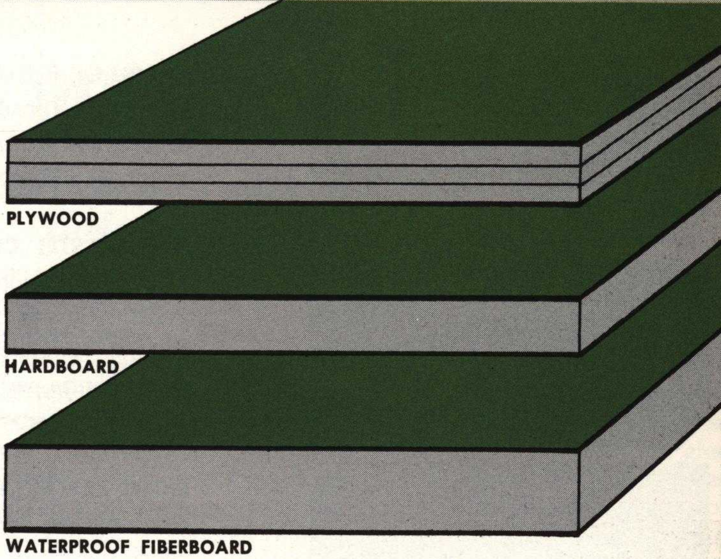
IMPACT RESISTANCE

The Vitracite porcelain surface is highly resistant to scratching, and will not craze or crack. For hardness it tests between 6 and 7 on Moe's Hardness Scale. Impact resistance: using a 1" diameter steel weight with an impact of 80 lbs. dropped onto a 1" ball resting on the Virtacite surface, the vitreous enamel is not chipped from the base metal, even after deforming to $\frac{3}{16}$" in depth.

PANEL CONSTRUCTION

The ceramic porcelain steel chalkboard face panel, the aluminum back panel, and the core stock are bonded together with high grade glue especially designed for this purpose. The glue line is actually stronger than the core stock. The steel face and the aluminum back cannot be removed without rupturing the core of the panel. Vitracite Chalkboard will not delaminate under any climatic conditions.

LIFETIME GUARANTEE—Under normal conditions of usage and maintenance, and when installed in accordance with Claridge instructions and recommendations, Vitracite Chalkboard is guaranteed for the life of the building. This guarantee is limited to the furnishing of chalkboards required to replace defective boards only. It does not include cost of removal or reinstallation. This guarantee is intended to insure the purchaser of having been supplied with perfect chalkboards at time of shipment.



NO MAINTENANCE—EASY TO CLEAN

There is no maintenance required except for ordinary cleaning. The Vitracite surface may be washed with soap and water or household detergent. It is impervious to lacquer thinner and other solvents. Therefore paint, lipstick, glue, hair oil, and other foreign substances coming in contact with the surface can be removed without injury to the chalkboard. Usually a damp cloth is all that is necessary to properly clean the surface.

SEVERAL COLORS AVAILABLE

To harmonize with modern interior color schemes, Nos. 114, 115 and 116 Vitracite are available in the following colors: Clearcite Green, Olive Green, Dark Myrtle Green, Earth Brown, Charcoal Gray, Blue, Black, Coral and White. Other colors available on special order.

Nos. 114-20, 115-20, 116-20, 114-18, 115-18 and 116-18 are available in Dark Green, Light Green, Blue, Black and White.

ARCHITECT'S SPECIFICATIONS

All chalkboards shall be Vitracite chalkboards (Note to architect—insert here the type of board desired) as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or their approved equal.

The porcelain writing surface and panel construction shall be in strict accordance with the Porcelain Enamel Institute Recommendations for Porcelain Enamel Chalkboards.

Where possible all chalkboard shall be in one piece and erected in accordance with this manufacturer's instructions. Where the chalkboard assembly is over standard length, chalkboards shall be neatly joined with Claridge Close Fitting Extruded Divider Bars, finished to match the chalkboard surface.

TECHNICAL INFORMATION

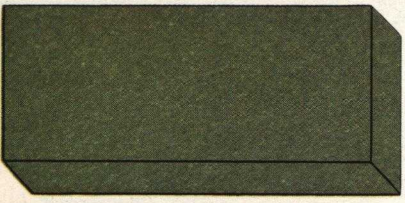
	LIGHT GAUGE	MEDIUM GAUGE	HEAVY GAUGE
Approximate Overall Thickness	Nos. 114 and 115 — 5/16" No. 116 — ½"	Nos. 114-20 and 115-20 — 5/16" No. 116-20 — ½"	Nos. 114-18 and 115-18 — 5/16" No. 116-18 — ½"
Panel Construction	No. 114 — ¼" Plywood Core No. 115 — ¼" Hardboard Core No. 116 — ⅜" Waterproof Fiberboard All have Sheet Aluminum Backing	No. 114-20 — ¼" Plywood Core No. 115-20 — ¼" Hardboard Core No. 116-20 — ⅜" Waterproof Fiberboard All have Sheet Aluminum Backing	No. 114-18 — ¼" Plywood Core No. 15-18 — ¼" Hardboard Core No. 116-18 — ⅜" Waterproof Fiberboard All have Sheet Aluminum Backing
Surface	*Vitreous Enamel fired 1350° to 1600°	*Vitreous Enamel fired 1350° to 1600°	*Vitreous Enamel fired 1350° to 1600°
Weight of Steel Panel	24 Gauge or Lighter — Optional, depending availability of material	20 Gauge	18 Gauge
Light Reflectance—	Clearcite Green 19%		
Colors Available	9	5	5
Standard Lengths	No. 114 — Up to 12' No. 115 — Up to 16' No. 116 — Up to 16'	Up to 10'	Up to 10'
Standard Widths	3', 3½' and 4'	3', 3½' and 4'	3', 3½' and 4'
Weight per Square Foot	Approx. Weight 2½ lbs.	Approx. Weight 3½ lbs.	Approx. Weight 4 lbs.

*Manufactured in strict accordance with the Porcelain Enamel Institute, Inc. recommendations for porcelain enamel chalkboard.

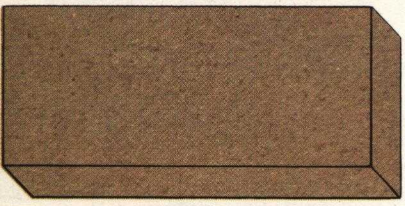
Claridge BULLETIN BOARD

NOW WITH WASHABLE PLASTIC SURFACE • FOR LOW MAINTENANCE COST

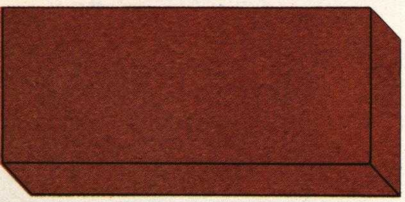
No. 1100
No. 1106
NATURAL



No. 1103
No. 1109
DUSTY GREEN



No. 1105
No. 1112
DESERT SAND



No. 1107
No. 1114
CORAL

No. 1108
No. 1116
LAKE BLUE

No. 150
NUCORK
WITHOUT
PLASTIC
FINISH

CLARIDGE BULLETIN BOARD is a resilient cork composition with new washable plastic finish made specifically for bulletin board use. It is absolutely uniform in density, and its specially compounded binder insures resilience and softness during the entire life of the material.

NEW PASTEL COLORS: With Claridge Bulletin Board you can add that final touch of functional color to any classroom decorating scheme because it is now available in new pastel shades—Dusty Green, Desert Sand, Coral, Lake Blue and Natural—as illustrated. In this range of modern tones you'll find a shade to match or harmonize perfectly with any of the lighter, brighter interiors featured in today's attractive classrooms.

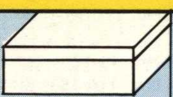
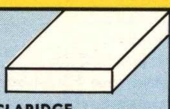
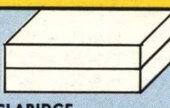
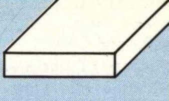
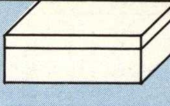
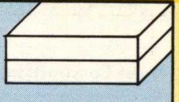
LIGHT REFLECTANCE: The finely textured surface of Claridge Bulletin Board has relatively low light reflectance. This helps to reduce eyestrain and nervous fatigue which sometimes result from looking at wall areas of different brightnesses.

HOLDS TACKS FIRMLY: Claridge Bulletin Board takes tacks easily, holds them firmly, and retains its tack-holding qualities despite repeated use of the same spot. The soft texture makes tack removal easy. The resilient character of the cork composition makes tack holes self-sealing.

EASY TO INSTALL: Claridge Bulletin Board is available in continuous rolls or mounted on panels of various sizes and thicknesses as listed below. Bulletin boards of unmounted cork can be installed without seams.

EASY TO MAINTAIN: We have found a method of blending a colorless synthetic with our regular cork binder, which gives waterproofing qualities and yet does not affect the resiliency of the cork or interfere with its tacking qualities. Now Claridge Cork Bulletin Board may be washed or cleaned with most any solution to remove dirt, grime, stains, hair oil, lipstick, colored rayon, etc. Lacquer thinner, strong soap solutions, and detergents do not injure Claridge Bulletin Board. Soiled spots, finger prints, and dirt from workmen's hands are easily removed, leaving the finished job in perfect condition. Occasional washing with any household soap or detergent will retain that first day newness for years.

TECHNICAL INFORMATION

	 **CLARIDGE** **No. 38A Natural** **No. 38AG** **Dusty Green**	 **CLARIDGE** **No. 1100 Natural** **No. 1103 Dusty Green** **No. 1105 Desert Sand** **No. 1107 Coral** **No. 1108 Lake Blue**	 **CLARIDGE** **No. 1106 Natural** **No. 1109 Dusty Green** **No. 1112 Desert Sand** **No. 1114 Coral** **No. 1116 Lake Blue**	 **NUCORK** **No. 150** **Natural**	 **NUCORK** **No. 380A** **Natural**	 **NUCORK** **No. 550** **Natural**
Standard Lengths	Up to 16′	Up to 91′	Up to 16′	Up to 100′	Up to 16′	Up to 16′
Standard Widths	Up to 4′	Up to 72″	Up to 4′	Up to 4′	Up to 4′	Up to 4′
Weight	1½ lbs. per sq. ft.	1 lb. per sq. ft.	2½ lbs. per sq. ft.	½ lb. per sq. ft.	1 lb. per sq. ft.	2 lbs. per sq. ft.
Thickness of Cork	Approx. ⅛″	Approx. ¼″	Approx. ¼″	Approx. ¼″	Approx. ⅛″	Approx. ¼″
Thickness Overall	Approx. ½″	Approx. ¼″	Approx. ½″	Approx. ¼″	Approx. ½″	Approx. ½″
Backing	Burlap, ⅜″ Fiberboard	Heavy Burlap	Burlap, ¼″ Hardboard	None	⅜″ Fiberboard	¼″ Hardboard

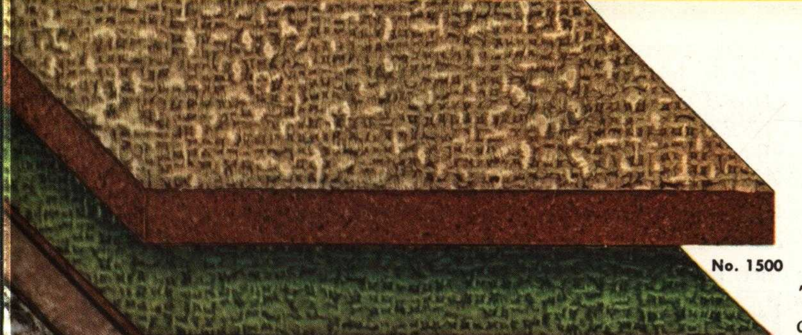
Claridge reserves the right to change specifications or add improvements without notice or obligation.

Claridge Fabricork

A NEW CONCEPT IN

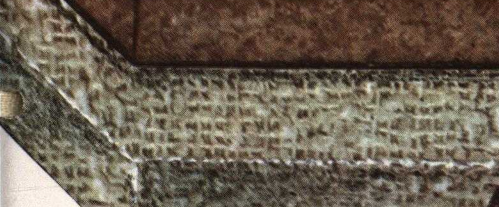
BULLETIN BOARDS

Soft resilient cork with durable fabric surface in seven beautiful colors



No. 1380 ALSO AVAILABLE WITH EDGES WRAPPED. No. 1380EW

There is no bulletin board that so effectively captures the mood i classroom decor as Fabricork. It blends to perfection with moder chalkboards, woods, aluminum trim, and wall finishes. It is by far th most resilient fabric-covered bulletin board obtainable. There is almos no wear out to Fabricork. It stays new looking for years. It resist abuse from thumb tacks, nails, pins, picture hooks, adhesive tape, glue and other objects used for posting better than cork. Punctures, bruises and cuts heal instantly. Fabricork is 100% washable. Spots and soi that could not be removed from ordinary cork wash away with ordinar soap and water. It is immune to alkalies, hair oil, grease, wax crayon glue, etc. The underlay is made of small particles of high-grade cor without pigmented glue or filler. The cork particles, under pressure are securely bonded to each other with glycol binders into sheets o various thicknesses and baked at a temperature of 250° F for eightee hours. Fabricork is available in panels with wrapped edges and rein forced corners neatly fitted. Refer to illustration No. 1380-EW at to of page. It is fastened to the wall using oval head screws and cu shaped washers.

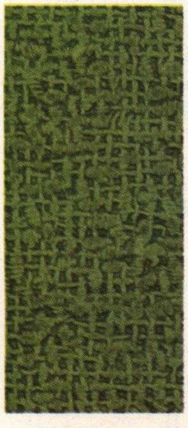


Soft and Resilient

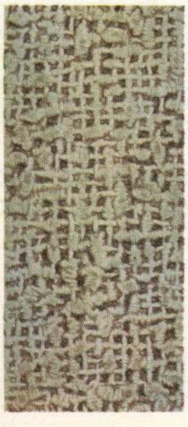
Live high-grade cork without cork bark and clap filler give Fabricork the resiliency of sponge rubber. When compressed, as illustrated, Fabricork rebounds instantly. Punctures heal quickly, and there is no tendency for the cork to break.

TECHNICAL INFORMATION	No. 1500 UNMOUNTED	No. 1380 AND 1380EW MOUNTED	No. 1550 MOUNTED
COLORS	Seven	Seven	Seven
STANDARD LENGTHS	Up to 12′	Up to 16′	Up to 16′
STANDARD WIDTHS	Up to 4′	Up to 4′	Up to 4′
WEIGHT	1/2 lb. per sq. ft.	1 lb. per sq. ft.	2 lbs. per sq. ft.
THICKNESS OF CORK	1/4″	1/16″	1/4″
THICKNESS OVERALL	Approx. 1/4″	Approx. 1/2″	Approx. 1/2″
BACKING	None	3/8″ Fiberboard	¼″ Hardboard

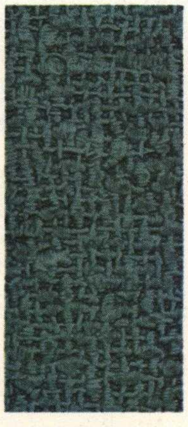
7 BEAUTIFUL COLORS



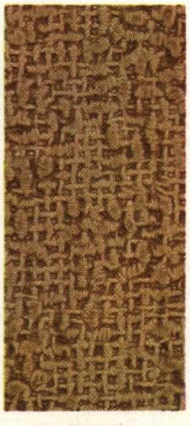
WILLOW



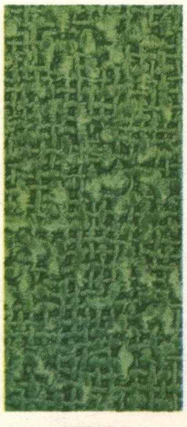
WHITE



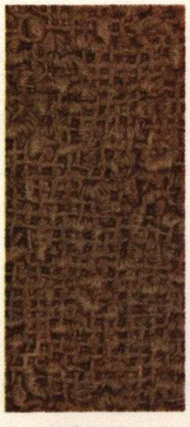
TURQUOISE



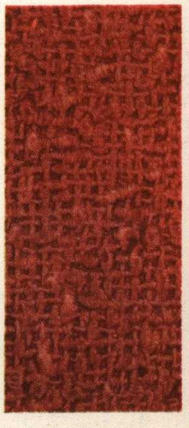
NATURAL



AQUA



MOCHA



CORAL

ARCHITECTS SPECIFICATIONS • FABRICORK BULLETIN BOARD

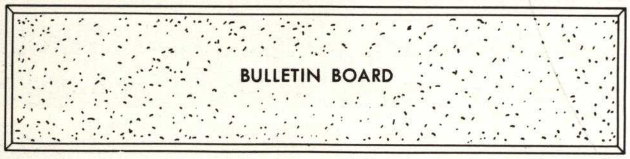
MATERIALS. All tackboards and bulletin boards are to be Claridge Fabricork, consisting of resilient cork, surfaced with fabric in one of seven colors to be selected, mounted either (specify which) on ¼-inch thick hardboard (overall thickness ½-inch), or ⅜-inch fibreboard (overall thickness ½-inch), or unmounted (overall thickness ¼-inch), as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or its approved equal, and erected in exact accordance with printed instructions furnished by this manufacturer.

Claridge reserves the right to change specifications or add improvements without notice or obligation.

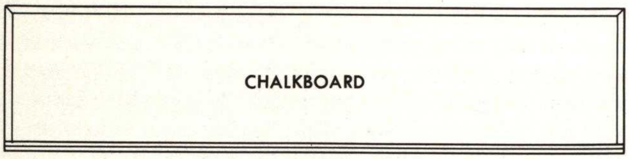
Claridge FACTORY-BUILT CHALKBOARDS and BULLETIN BOARDS

FURNISHED COMPLETE READY TO INSTALL . . . FOUR SERIES OFFER WIDE SELECTION

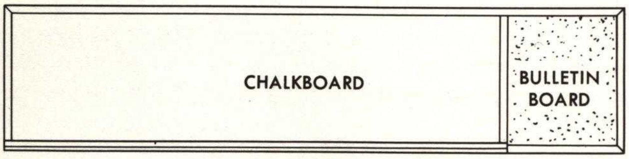
TYPICAL CHALKBOARD AND BULLETIN BOARD IN SINGLE ASSEMBLIES



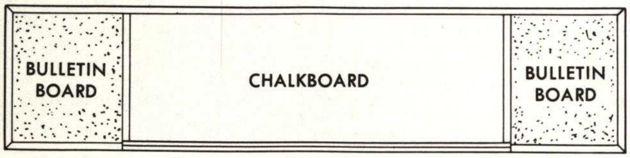
TYPE CO



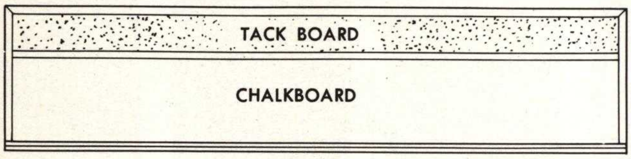
TYPE A



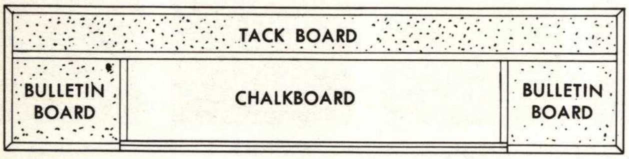
TYPE BR AND BL
(CORK RIGHT AND LEFT)



TYPE C



TYPE D



TYPE F

Claridge Factory-Built Chalkboard and Bulletin Board Units are the answer for economical chalkboard installations. Almost any desired size and arrangement can be had. No special wall construction, no grounds or costly erection. You can even completely finish and decorate classrooms and then erect chalkboards and bulletin boards.

Last minute changes in wall groupings of chalkboards and bulletin boards can be made without costly alterations. Boards are equipped with or without concealed hangers, as detailed, for easy erection and to meet varying conditions.

Claridge Factory-Built Units are substantially built and designed to fit into and harmonize with the finest appointments. Chalkboard may be any one of various colors as selected, with outstanding Duracite writing surface, or Vitracite vitreous enamel steel chalkboard. Both types of writing surfaces have excellent writing and erasing qualities. Bulletin boards are finest grade resilient cork or Fabricork. Boards are securely framed with extruded aluminum moulding etched and anodized satin finish. Wide extruded aluminum chalktrough to match, as shown in various details on pages 9, 10, and 11.

There is a wide range of sizes to meet every classroom need, up to a maximum of 5 feet in height and 16 feet in length on some styles, depending on materials specified. For details, consult specifications on pages 9, 10, and 11.

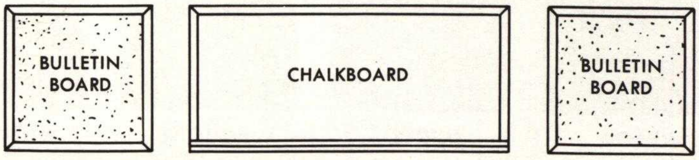
ARCHITECT'S SPECIFICATIONS

CLARIDGE FACTORY-BUILT UNITS

All chalkboards and bulletin boards shall be Claridge Factory-Built Units, Series (architect to insert series desired), as manufactured by Claridge Products and Equipment, Inc., Harrison, Arkansas, or their approved equal, in accordance with Claridge standards of construction and installation. Chalkboards shall be (architect to insert chalkboard desired). Bulletin board shall be Claridge plastic finish washable cork or Fabricork (architect to insert choice). Units shall be installed in strict accordance with manufacturer's printed instructions.

TYPICAL CHALKBOARD AND BULLETIN BOARD COMBINATIONS

Any Length or Combination May Be Attained in This Manner



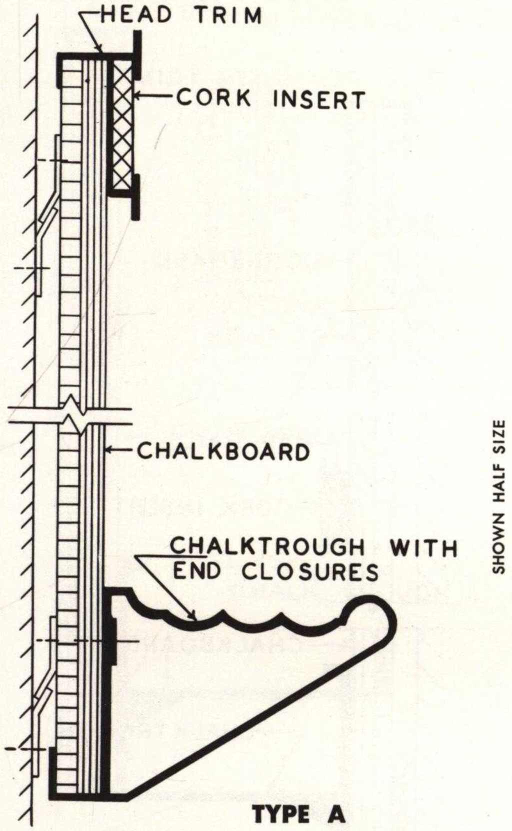
FOR COMPLETE DETAILS REFER TO PAGES 9, 10 AND 11

Claridge FACTORY-BUILT UNITS: SERIES 1

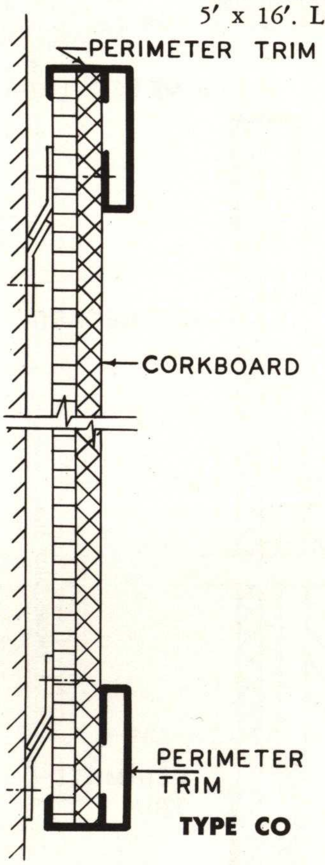
CONCEALED HANGERS. CONCEALED SCREW-ON TRIM AND SPECIAL SNAP-ON TYPE CHALKTROUGH

Series 1 units are available with Duracite in various colors, Durasteel in various colors, or Vitracite vitreous enamel chalkboards in various colors. Bulletin board may be Claridge plastic finish washable cork in any of 5 colors or Fabricork in any of seven colors (refer to pages 6 and 7) as selected. The trim is heavy gauge extruded aluminum, fastened to the back of the panel so that no screws show on face of trim.

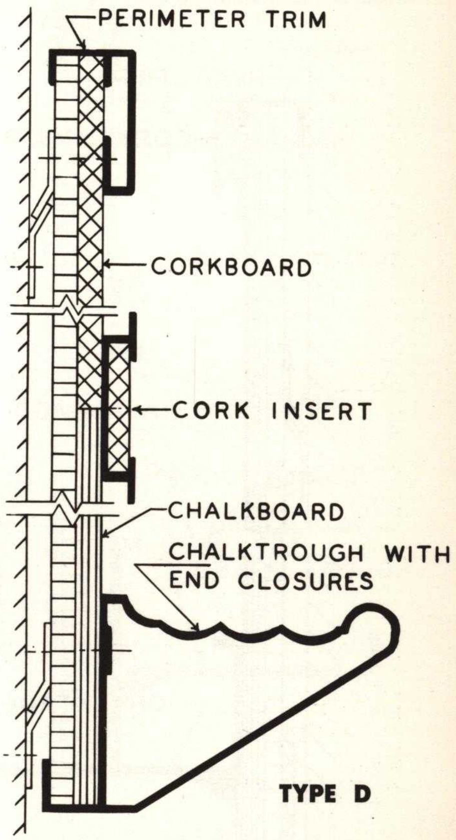
Chalktrough is specially designed for this unit. Extra heavy metal stock is supplied at point of screw contact. Although chalktrough and trim give appearance of being snapped on, there are no clips or grounds to loosen up, shift place, rust, or lose contact with the trim in any way. Corners are wrapped around, not open miters as on snap-on trim. All boards are available with or without map rail. Types A, B, C, and CO units available up to 4′ x 16′. Types D and F units up to 5′ x 16′. Longer panels must be joined on the job.


HEAD TRIM
CORK INSERT
CHALKBOARD
CHALKTROUGH WITH END CLOSURES
SHOWN HALF SIZE

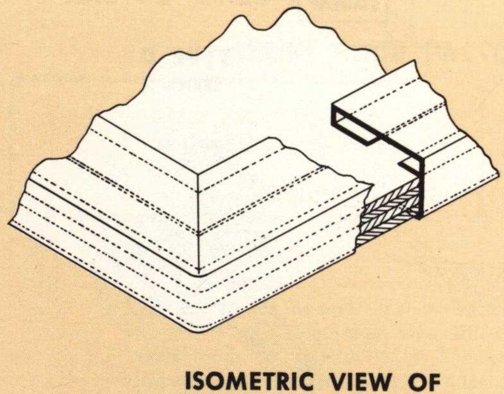
TYPE A


PERIMETER TRIM
CORKBOARD
PERIMETER TRIM
SHOWN HALF SIZE

TYPE CO

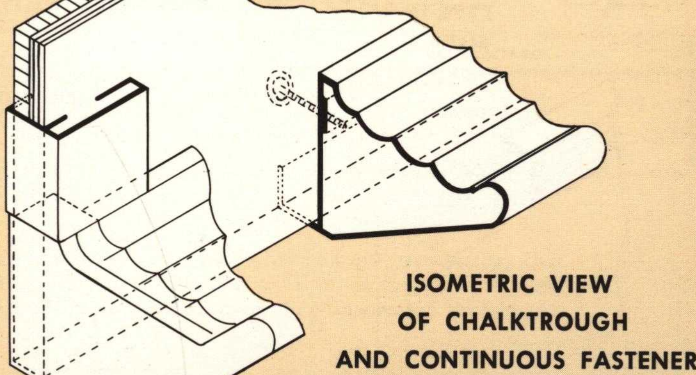

PERIMETER TRIM
CORKBOARD
CORK INSERT
CHALKBOARD
CHALKTROUGH WITH END CLOSURES

TYPE D



ISOMETRIC VIEW OF CORNER CONSTRUCTION

All chalkboards and bulletin boards have wrap around corners. There are no open miter edges at the corner. Mouldings are die punched and edge wrapped to prevent open joints or sharp edges at the corner.



ISOMETRIC VIEW OF CHALKTROUGH AND CONTINUOUS FASTENER

The chalktrough with continuous integral ground is bolted to the panel on 12″ centers. They are locked in constant contact over the entire length, not just at intervals as is generally the practice in the industry. There are no clips to rust, shift, loosen. And, since the board and chalktrough are held tight, there is no room for chalk dust or dirt to sift through and collect at the point where the two join.

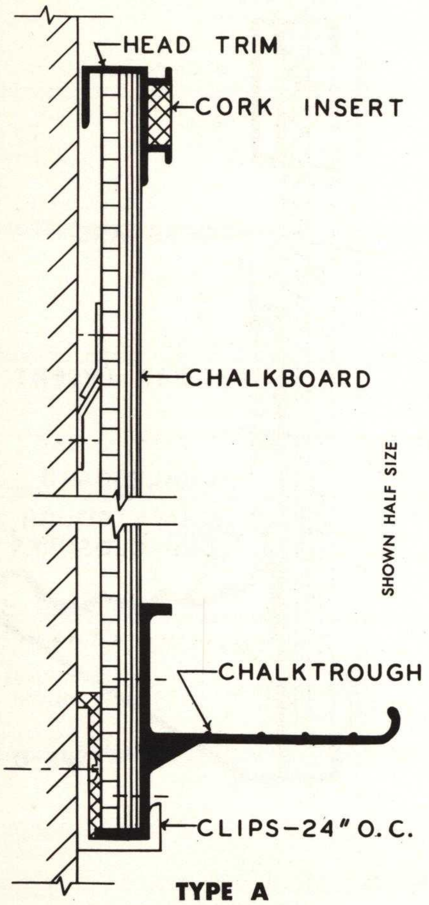
Claridge

FACTORY-BUILT UNITS: SERIES 2 AND 3

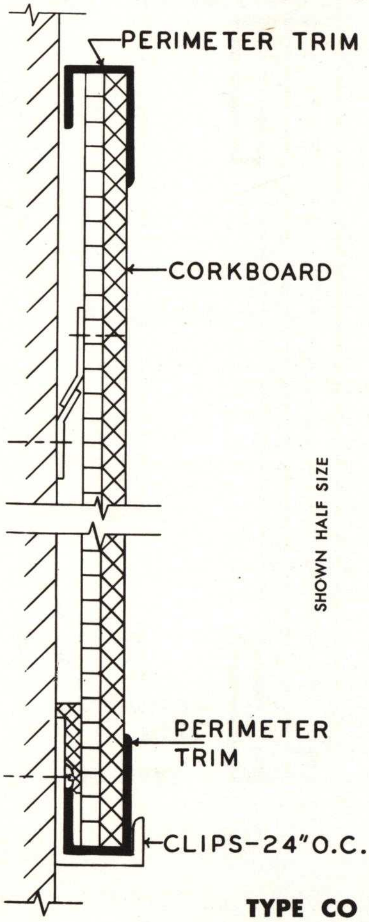
CONCEALED HANGERS. CONCEALED SCREW-ON TRIM AND SCREW-ON CHALKTROUGH

Series 2 and 3 assemblies are alike except for the thickness of chalkboard and bulletin board. On Series 2 we use 1/4" chalkboard and 3/8" insulating board with 1/8" cork face for bulletin board. Series 2 units are substantially built, but because of thinner and lighter panels we do not recommend them over 4′ x 12′ in size, as larger boards lack stability. Series 3 units are well built with wrap around corners, trim fastened from the back, and heavy chalktrough bolted through the panel.

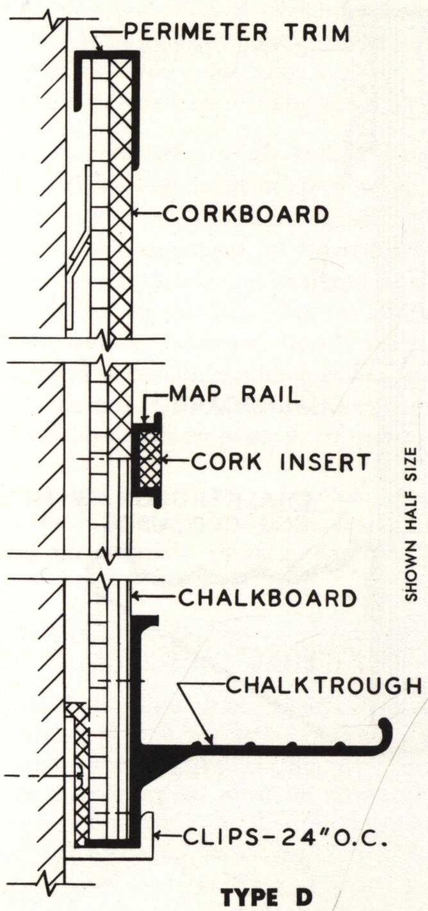
Series 3 Chalkboards can be had with Duracite surface in various colors, Durasteel in various colors, or Vitracite vitreous enamel boards in various colors. Standard for this unit is natural cork. However, colors are available if desired. Series 3 units have concealed hangers at top edge and angle brackets at 24" centers at bottom for the boards to rest on. Series 3 boards, Type A, B and C up to 4′ x 16′; Type CO 5′ x 16′; and Type D and F up to 5′ x 16′ in one panel. Longer lengths must be joined on the job.


HEAD TRIM
CORK INSERT
CHALKBOARD
SHOWN HALF SIZE
CHALKTROUGH
CLIPS-24" O.C.

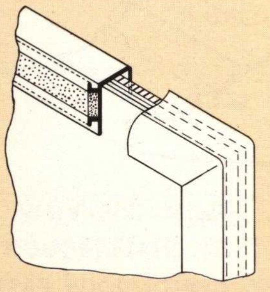
TYPE A
SERIES 3


PERIMETER TRIM
CORKBOARD
SHOWN HALF SIZE
PERIMETER TRIM
CLIPS-24" O.C.

TYPE CO
SERIES 3

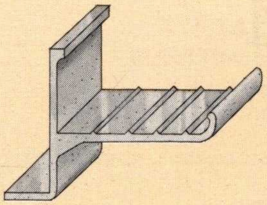

PERIMETER TRIM
CORKBOARD
MAP RAIL
CORK INSERT
SHOWN HALF SIZE
CHALKBOARD
CHALKTROUGH
CLIPS-24" O.C.

TYPE D
SERIES 3

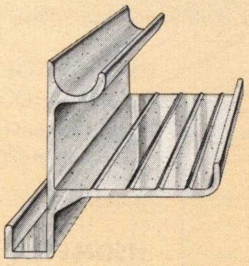


ISOMETRIC VIEW OF CORNER CONSTRUCTION

All chalkboards and bulletin boards have wrap around corners. There are no open miter edges at the corner. Mouldings are die punched and edge wrapped to prevent open joints or sharp edges at the corner.



No. 262



No. 263

ISOMETRIC VIEW OF CHALKTROUGH

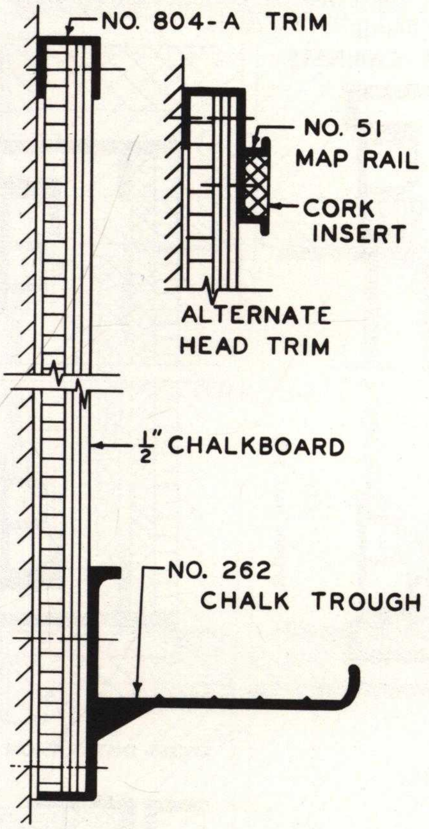
There are two chalktroughs available with Series 2, 3 and 4 units—No. 262 or 263. The latter has a dust receptacle above the trough, which collects most of the dust. As a result erasers don't pick up excess chalk dust, and chalkboard surfaces are kept cleaner.

Claridge reserves the right to change specifications or add improvements without notice or obligation.

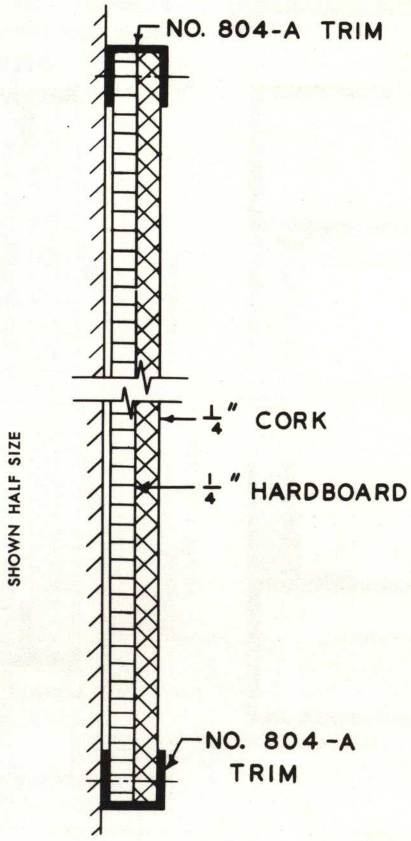
Claridge FACTORY-BUILT UNITS: SERIES 4

FASTENED TO WALL WITH SCREWS. SCREW-ON TRIM AND CHALKTROUGH

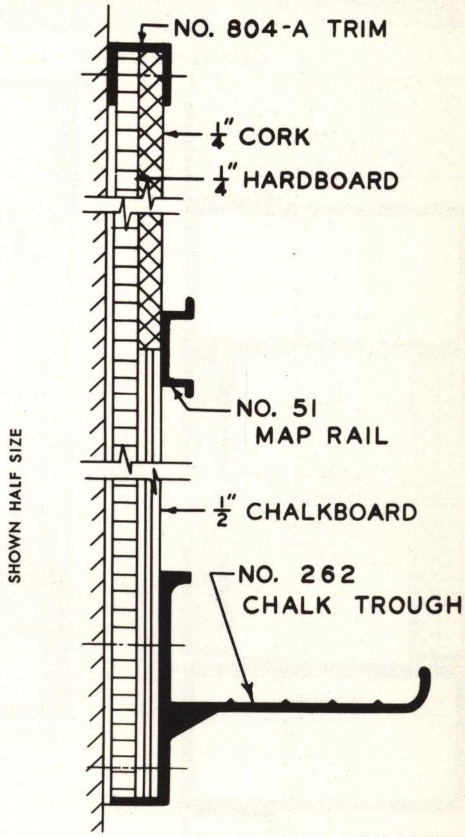
Series 4 units are available with Duracite in various colors, Durasteel in various colors, or Vitracite vitreous enamel chalkboards in various colors. Bulletin board is tan Nucork. Grey, green, or coral cork available at extra cost. Or Fabricork in any of seven colors may be had (refer to pages 6 and 7). The perimeter trim is narrow, heavy gauge extruded aluminum, fastened with screws. The chalktrough is either 262 or 263 bolted through the panel. All boards are available with or without map rail. Type A, B and C in panels up to 4′ x 16′. Type CO panels up to 4′ x 16′. Type D and F in panels up to 4′ x 16′. Longer panels must be joined on the job.


NO. 804-A TRIM
NO. 51 MAP RAIL
CORK INSERT
ALTERNATE HEAD TRIM
$\frac{1}{2}$" CHALKBOARD
NO. 262 CHALK TROUGH

TYPE A

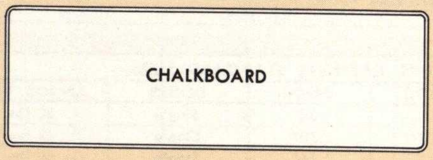

NO. 804-A TRIM
$\frac{1}{4}$" CORK
$\frac{1}{4}$" HARDBOARD
NO. 804-A TRIM
SHOWN HALF SIZE

TYPE CO

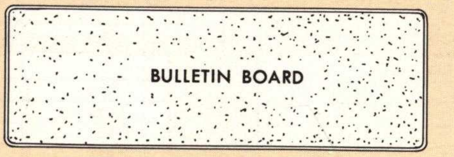

NO. 804-A TRIM
$\frac{1}{4}$" CORK
$\frac{1}{4}$" HARDBOARD
NO. 51 MAP RAIL
$\frac{1}{2}$" CHALKBOARD
NO. 262 CHALK TROUGH
SHOWN HALF SIZE

TYPE D

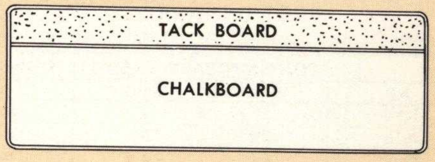
SERIES FOUR FACTORY BUILT UNITS WITH ROUNDED CORNERS


CHALKBOARD

TYPE A-RC

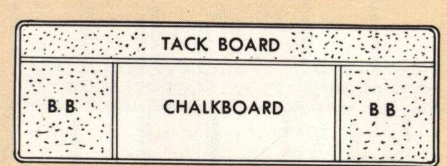

BULLETIN BOARD

TYPE CO-RC

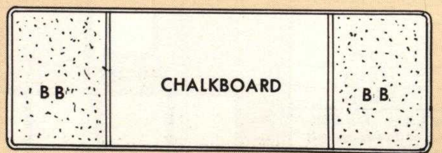

TACK BOARD
CHALKBOARD

TYPE D-RC

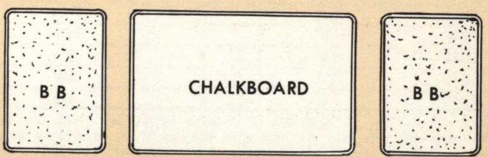
These units are the same in construction as our regular Series 4 detailed above, except for the corner construction. Our narrow extruded aluminum edge moulding is bent around a 3 inch radius. This adds much to the appearance of both chalkboards and bulletin boards. The various types of chalkboards and bulletin boards listed above are available in this assembly. Maximum height—4 feet. Maximum length—16 feet.


TACK BOARD
B B
CHALKBOARD
B B

TYPE F-RC


B B
CHALKBOARD
B B

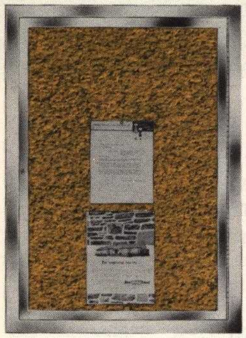
TYPE C-RC

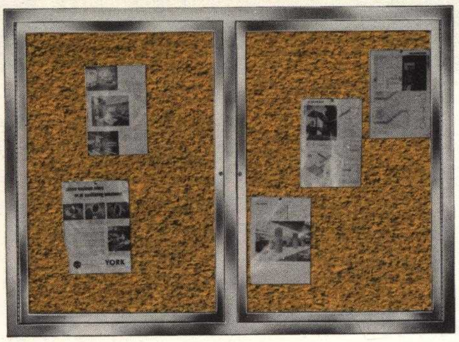

B B
CHALKBOARD
B B

TYPICAL CHALKBOARD AND BULLETIN BOARD COMBINATION FOR SPACES OVER 16 FEET

Claridge

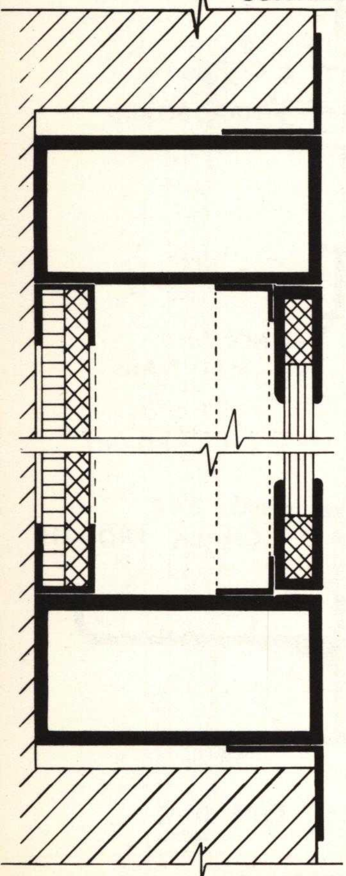
ALUMINUM BULLETIN BOARD CABINETS





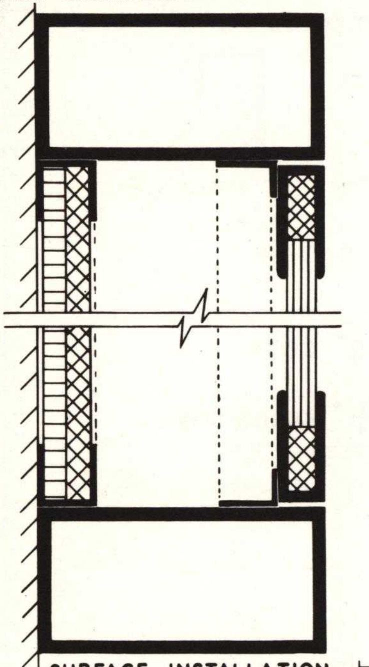
Claridge Aluminum Bulletin Board Cabinets afford perfect protection for all bulletins, posters, etc. There are two models: Contemporary — extra heavy construction; and Deluxe — standard construction. Made of extruded aluminum 63S alloy with beautiful anodized satin finish. Hinged doors have continuous piano hinges. Doors are fitted with flat key tumbler locks. Contemporary model is also available with sliding glass doors and tumbler lock. Cases are available for surface or recess installation. Surface mounted cases are equipped with concealed hangers. Back panels are 1/4" cork mounted on 1/4" board. There are sizes for any height and width desired, from single door cases to multiples of 6 doors.

CONTEMPORARY CABINETS

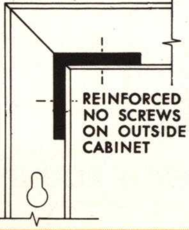


RECESS INSTALLATION
SECTION A-A

SHOWN HALF SIZE

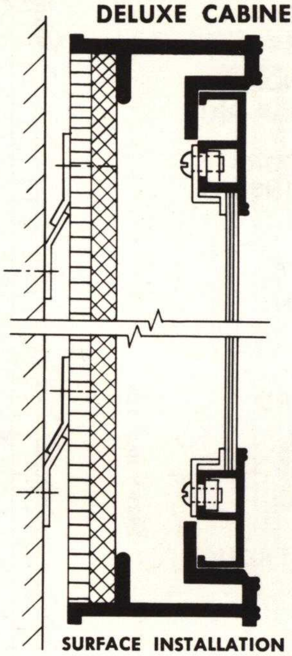


SURFACE INSTALLATION
SECTION A-A



REINFORCED CORNER—NO SCREWS SHOWING ON OUTSIDE OF CABINET

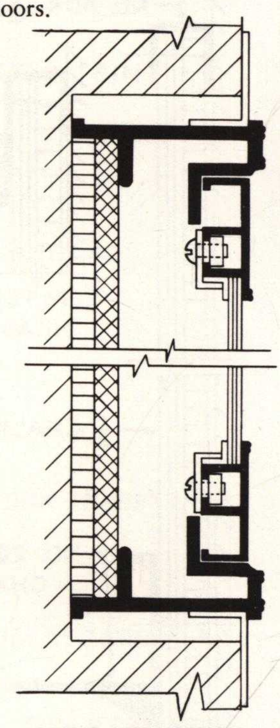
DELUXE CABINETS



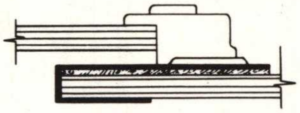
SHOWN HALF SIZE

SURFACE INSTALLATION

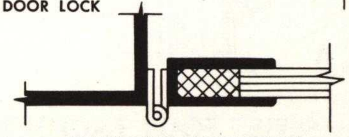
SHOWN HALF SIZE



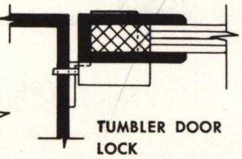
RECESS INSTALLATION



SLIDING DOOR LOCK



CONTINUOUS PIANO HINGE



TUMBLER DOOR LOCK

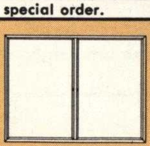
CONTEMPORARY CABINETS STANDARD SIZES				
NO.	WIDTH	HEIGHT	DOORS	APPROX. WT.
2035	2'	3'	One	40 lbs.
2036	2'6"	3'	One	44 lbs.
2038	2'6"	3'6"	One	45 lbs.
2038-A	3'	3'	One	50 lbs.
2038-B	3'	3'6"	One	55 lbs.
2041	4'	3'	Two	60 lbs.
2041-A	4'	4'	Two	70 lbs.
2042	5'	3'6"	Two	75 lbs.
2043	5'	4'	Two	80 lbs.
2044	6'	4'	Two	100 lbs.
2045	7'	4'	Three	110 lbs.
2046	8'	4'	Four	135 lbs.
2047	9'	4'	Four	150 lbs.
2048	10'	4'	Six	160 lbs.
2049	11'	4'	Six	170 lbs.
2050	12'	4'	Six	180 lbs.

Intermediate sizes on cabinets of greater height or width are available. All Contemporary cabinets may be had with hinged doors or sliding doors as ordered. All Contemporary cabinets can also be had with felt covered directory back panels slotted for changeable letters.

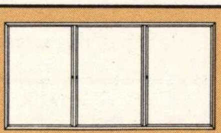
DELUXE CABINETS STANDARD SIZES				
NO.	WIDTH	HEIGHT	DOORS	APPROX. WT.
1933	18"	24"	Single	30 lbs.
1934	20"	30"	Single	42 lbs.
1935	24"	36"	Single	60 lbs.
1936	30"	36"	Single	75 lbs.
1938-A	30"	42"	Single	88 lbs.
1941	48"	36"	Double	120 lbs.
1942-A	60"	42"	Double	175 lbs.

Other sizes available on special order.

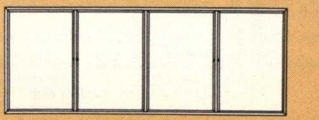
ONE DOOR



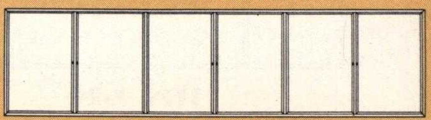
TWO DOORS



THREE DOORS

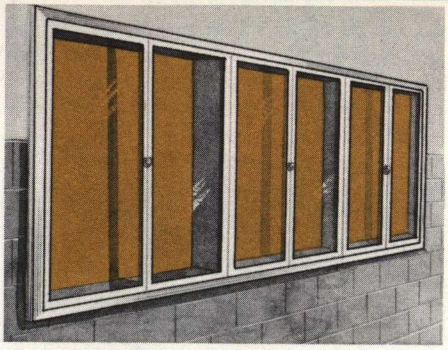


FOUR DOORS

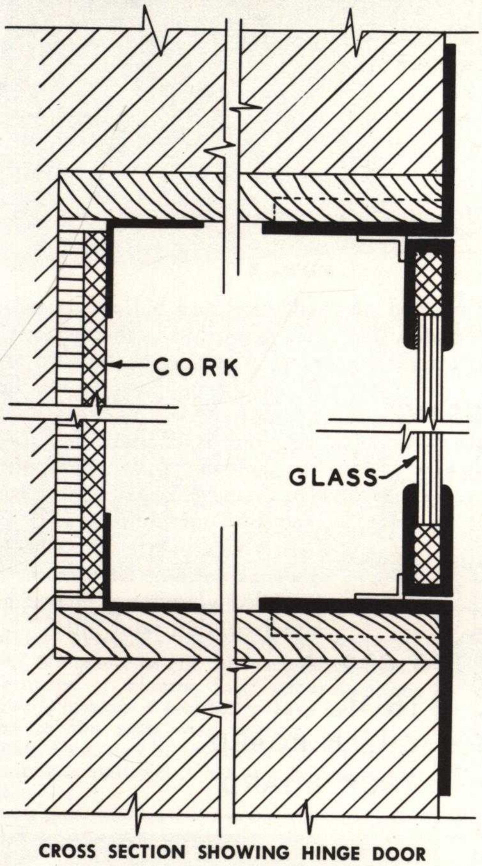


SIX DOORS

Claridge TROPHY and DISPLAY CASES

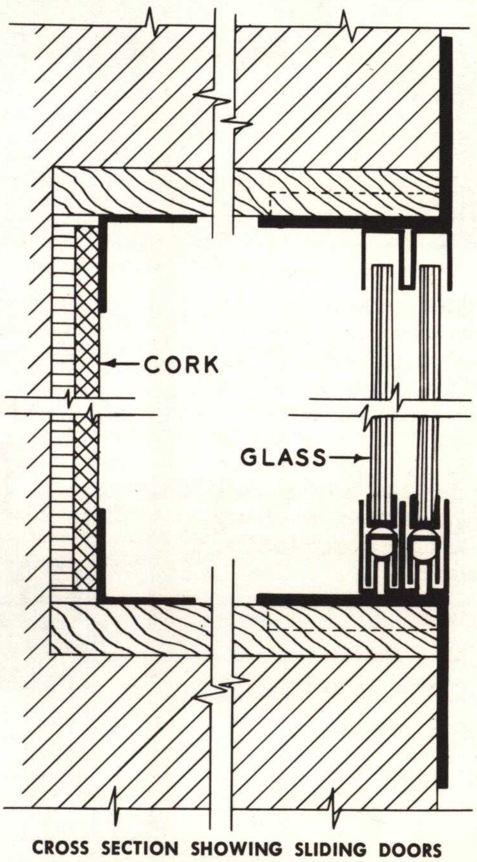


Claridge Variable Dimension Trophy and Display Cases are carefully designed and thoroughly built of 63S Alloy Extrusions, with anodized dull satin finish for lasting beauty. Locks, hinges and other hardware are solid brass, chrome plated. Widths and heights of cases are optional, with depth dependent on thickness of wall. All wood work for trophy and display cases to be furnished by others, although all glass doors, fixtures, glass shelves, and electrical fixtures can be furnished with cases if desired. However, to avoid the possibility of jurisdictional disputes we suggest the architect place the shelves, glazing, and electrical fixtures in the hardware, glazing, and electrical specifications. Claridge Display Cases can be made to fit almost every need. If the designs illustrated do not meet your requirements submit drawings or details of your problem, and we shall endeavor to solve it.

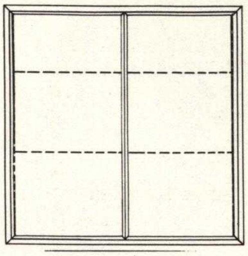


CROSS SECTION SHOWING HINGE DOOR

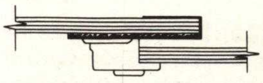
SHOWN HALF SIZE



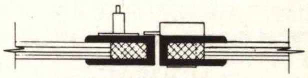
CROSS SECTION SHOWING SLIDING DOORS



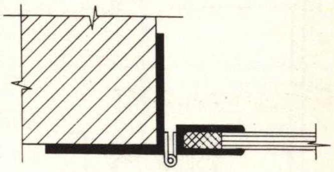
FRONT ELEVATION



SLIDING DOOR LOCK



SPRING CATCH AND TUMBLER LOCK



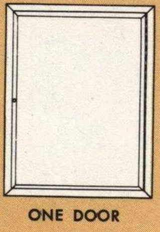
PIANO HINGED DOOR

STANDARD SIZES			
SIZES		DOORS	APPROX. WT.
WIDTH	HEIGHT		
2'6"	2'6"	One	40 lbs.
3'	3'	One	45 lbs.
4'	4'	Two	70 lbs.
5'	4'	Two	80 lbs.
6'	4'	Two	100 lbs.
7'	4'	Four	105 lbs.
8'	4'	Four	120 lbs.
9'	4'	Four	135 lbs.
10'	4'	Four	150 lbs.
11"	4'	Six	160 lbs.
12'	4'	Six	180 lbs.
13'	4'	Six	190 lbs.
14'	4'	Six	200 lbs.
15'	4'	Six	210 lbs.
16'	4'	Six	240 lbs.

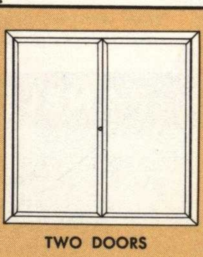
Intermediate sizes or greater heights and widths are available. Either hinged or sliding glass doors as specificied.

ARCHITECTS SPECIFICATIONS

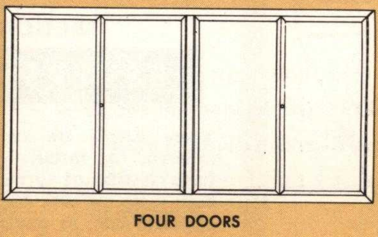
Furnish and install Claridge Display Cases where indicated on plans and elevations as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or an approved equal. All extruded aluminum sections are to be virgin S63 alloy anodized dull satin finish. Same shall be of exact dimensions shown in details and in accordance with manufacturer's shop drawings and specifications approved by architect. All hardware to be chrome plated brass. Glass for doors and shelves, shelf brackets, and electric fixtures furnished by others.



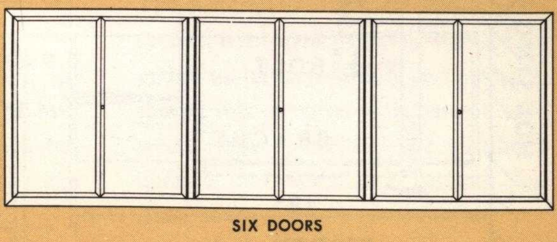
ONE DOOR



TWO DOORS



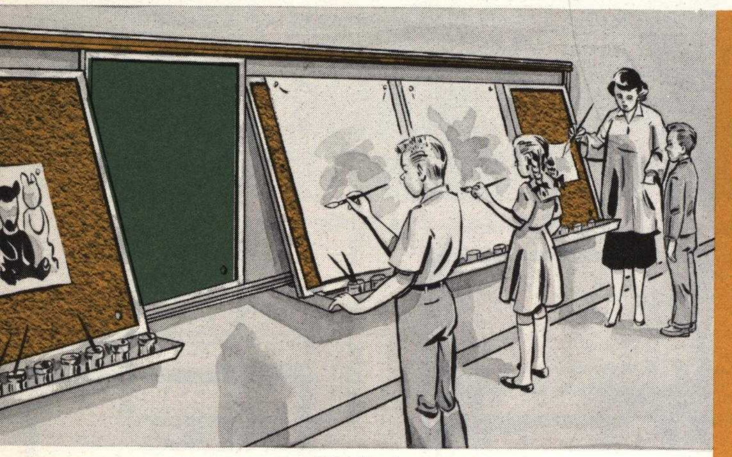
FOUR DOORS



SIX DOORS

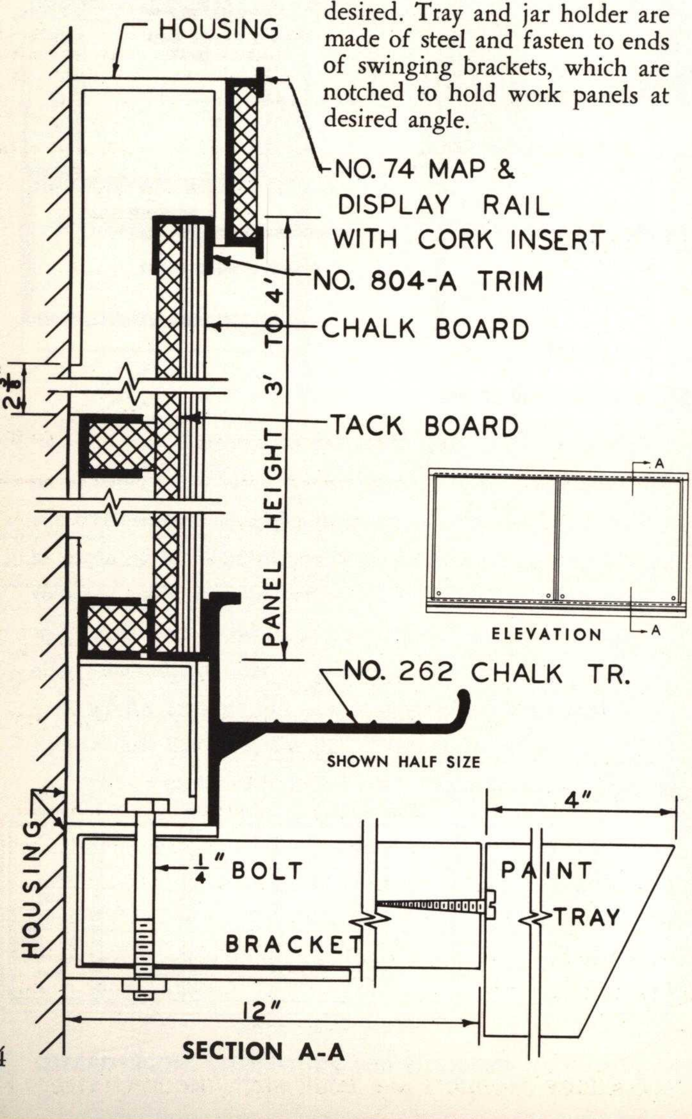
Claridge REVERSIBLE CHALKBOARDS

Claridge Dual-Purpose Chalkboards increase the function of every classroom by instantly adapting the room to numerous special subjects, art, music, nature study exhibition and other purposes. By adapting regular classrooms for special studies, most special purpose rooms can be eliminated and the entire building is available for complete occupancy at all times. This results in higher efficiency and greater economy. Chalkboards are our regular long-life Duracite on both sides, or Natural, Dusty Green, or Desert Sand Cork on reverse side as selected. All metal parts are extruded aluminum. Dull satin finish for beauty and long wear.

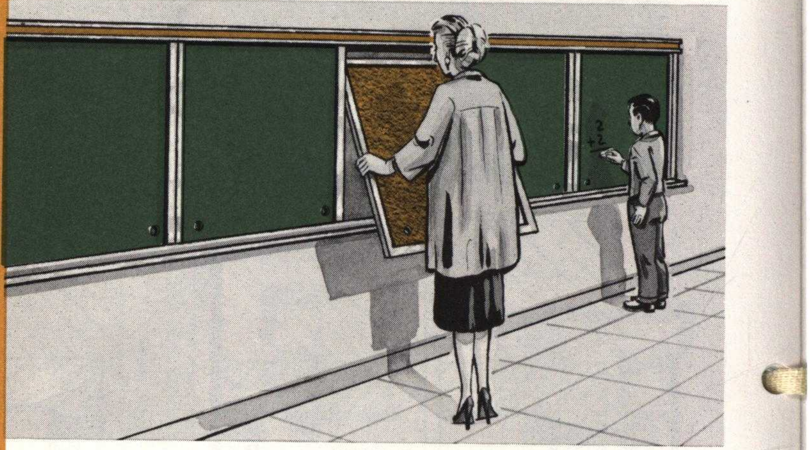


MODEL A

Model A installation provides greatest versatility. Chalkboards, display boards, work shelf for school craft, easel for art work, display panels for exhibition purposes—all are provided in one unit. Any student can set up any of the various arrangements instantly, and panels are always at proper height. Panels vary in size from 3′ x 3′ to 3′ x 4′ as desired. Tray and jar holder are made of steel and fasten to ends of swinging brackets, which are notched to hold work panels at desired angle.


HOUSING
NO. 74 MAP & DISPLAY RAIL WITH CORK INSERT
NO. 804-A TRIM
CHALK BOARD
PANEL HEIGHT 3′ TO 4′
2¼
TACK BOARD
A
ELEVATION
A
NO. 262 CHALK TR.
SHOWN HALF SIZE
4″
HOUSING
¼″ BOLT
PAINT TRAY
BRACKET
12″

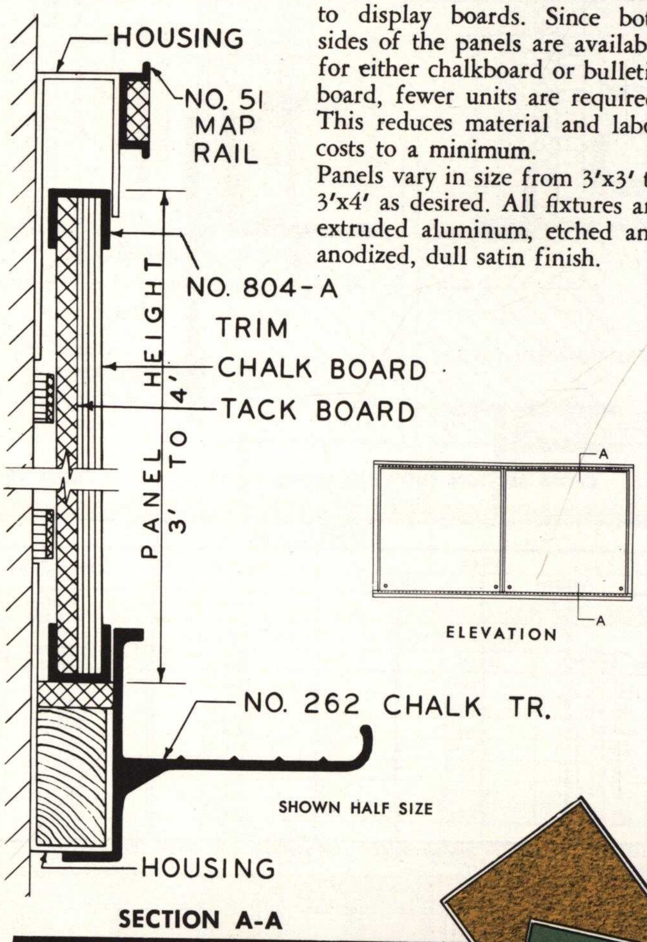
SECTION A-A



MODEL B

This unique method of chalkboard and bulletin board arrangement is not only a space saver, but it also permits an instantaneous transformation of classroom chalkboard areas to display boards. Since both sides of the panels are available for either chalkboard or bulletin board, fewer units are required. This reduces material and labor costs to a minimum.

Panels vary in size from 3′x3′ to 3′x4′ as desired. All fixtures are extruded aluminum, etched and anodized, dull satin finish.


HOUSING
NO. 51 MAP RAIL
NO. 804-A TRIM
PANEL HEIGHT 3′ TO 4′
CHALK BOARD
TACK BOARD
A
ELEVATION
A
NO. 262 CHALK TR.
SHOWN HALF SIZE
HOUSING

SECTION A-A

REVERSIBLE PANELS

These panels are available in various sizes, as ordered, for installation in wood frames. Panels have chalkboard surface on both sides, or cork on both sides, or cork on one side and chalkboard on opposite side, in combinations as may be selected. Frames are extruded aluminum, etched and anodized to dull satin finish.

Claridge Reversible CHALKBOARD AND BULLETIN BOARD

Chalkboard one side—Corkboard reverse side!

FLEXIBILITY PLUS

Widely acclaimed for their great versatility, Claridge Reversible prefabricated units may be extended from a basic 3′ to 24′ or more as desired in multiples of 3 feet. Each unit provides TWO usable surfaces—chalkboard and corkboard, all in one! Height is adjustable . . . and, best of all, there's space for storage behind each face panel!

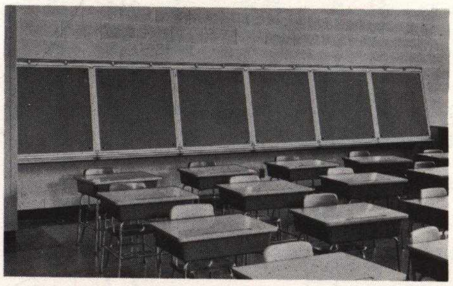
TILTED SURFACE

For the elimination of light reflection and glare, and for the promotion of better penmanship and easier writing, Claridge Reversible units are comfortably tilted! Penmanship experts everywhere recognize the advantage of a tilted chalkboard.

EXTRA STORAGE

Ingeniously concealed storage space helps the teacher keep materials "on location." Back is perforated with 3/16 inch holes on 1 inch centers to provide additional spaces for shelves and peg-board hanging fixtures. This feature saves much time and many unnecessary steps.

The depth of the unit at the chalk rail level encourages the construction of extra storage cabinets or book shelves.



ALL ALUMINUM CONSTRUCTION

To reduce weight, simplify installation, and eliminate expensive maintenance, everything in the Claridge Reversible unit except the chalkboard, corkboard, and back panel is made of aluminum, etched and anodized for permanent beauty.

PREFABRICATED

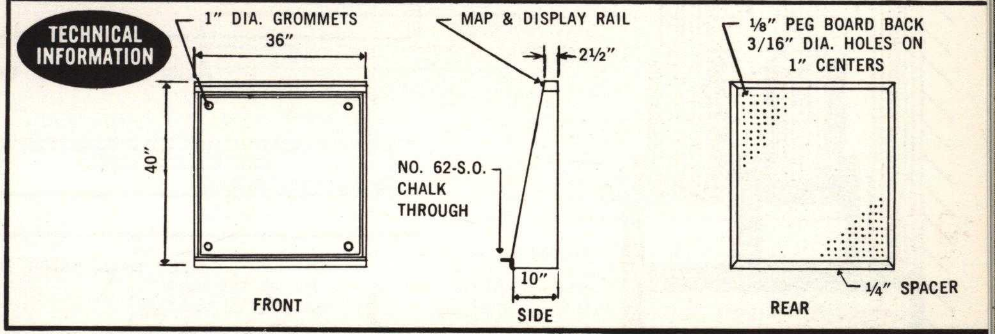
Claridge Reversible installation may be accomplished with exceptional speed and economy, with a minimum of expensive field labor, and with the elimination of grounds, adhesive, trim, backing, or shoring.

REVERSE WITHOUT LIFTING!

Chalkboard may be simply and easily removed and corkboard provided simply by turning the panel like a leaf in a notebook. Panel revolves easily without lifting it out of position. Any child can reverse it. No danger of falling to the floor or of dropping it on toes. It locks into a horizontal position allowing full access to storage behind chalkboard. Units are furnished complete with 2 map hooks per unit and chalk trough. Units may be extended to any desired length in multiples of 3 feet.

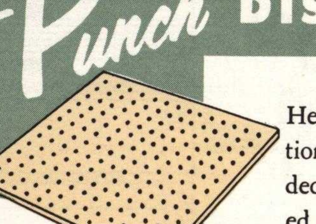
ADJUSTABLE

Claridge Reversible units may be converted from "8th grader height" to "1st grader height" in a matter of minutes. Each unit is complete in itself, making it possible to have individual units in the same wall section at various heights. Units may be adjusted a full ten inches, in one inch multiples. Only four fastenings per unit.



Claridge Multi-Punch DISPLAY BOARD

Adds function to the decorative touch



NATURAL LIGHT TAN

Ideal for almost any application. May be finished with clear lacquer, varnish, or the color of your choice.

No. 700 Size of panel—4′ x 8′. 1/8″ thick perforated with 3/16″ diameter holes on 1″ centers. Weight—1 lb. per sq. ft.

No. 701 Size of panel—4′ x 8′. 1/4″ thick perforated with 9/32″ holes on 1″ centers. Weight—1½ lb. per sq. ft.

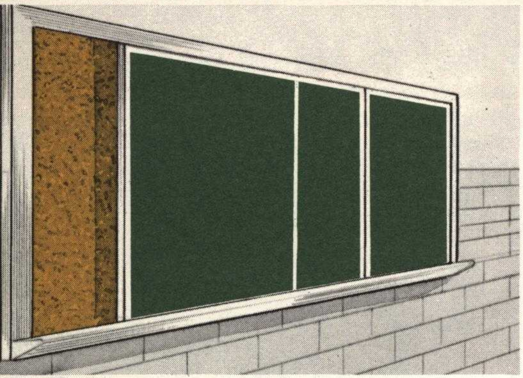
Here is a fresh approach to institutional decorating, acoustical treatment, decorative paneling, ventilation. Adapted quickly and easily for bulletin board, display board, shelf area, exhibition area.

Used in conjunction with hooks, this board offers an infinite variety of Multi-Punch applications. There is a provision for mounting virtually any item or product.

Multi-Punch Display Board is strong, durable, water-resistant. It may be painted any desired color, with any desired medium.

The material is made of high density ground hardwood particles. Bonded together under intense heat and pressure, special oils combine with natural hard wood resins to weld the fibers into a durable and luxuriously smooth finished sheet.

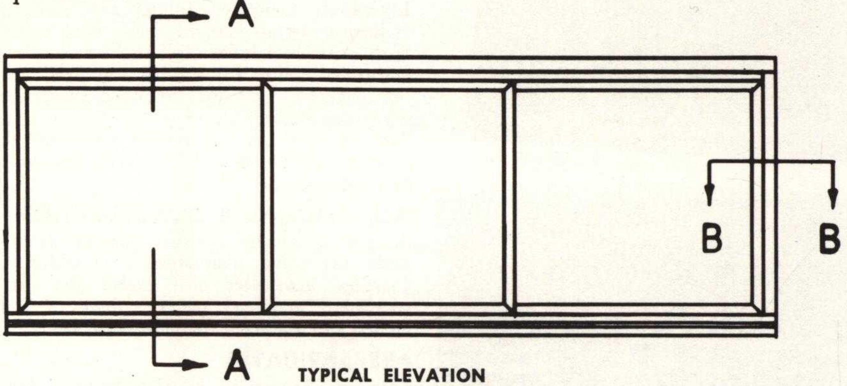
Claridge HORIZONTAL *SLIDING* CHALKBOARDS



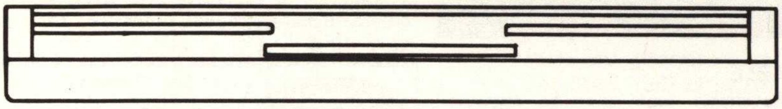
Claridge Horizontal Sliding Chalkboard Assemblies may be provided in any desired length with extruded aluminum trim. Standard installations consist of two to four sliding units and a fixed chalkboard, cork bulletin board, or projection screen on the rear wall of sliding unit, or a combination of the three. Sliding chalkboard panels are Duracite, which provides a rigid writing panel (also available with Durasteel or Vitracite Chalkboard). All trim and chalkboard edging is extruded aluminum 63-S alloy with exposed surface etched and anodized in dull satin finish for lasting beauty. Chalkboards are suspended from top on extruded aluminum track on high strength molded Phenolic rollers with Oilite bronze bearings. Fixtures are Cadmium plated. Top suspension insures ease of operation, as the accumulation of chalk dust never interferes with easy movement of chalkboard.

SIZES

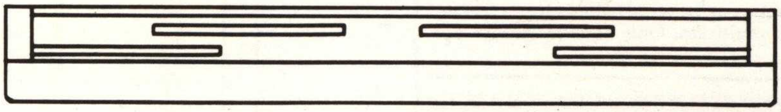
Horizontal sliding units are available in 3′, 3 ½′, and 4′ heights, and in almost any length desired, with the sliding units varying in length to meet requirements.



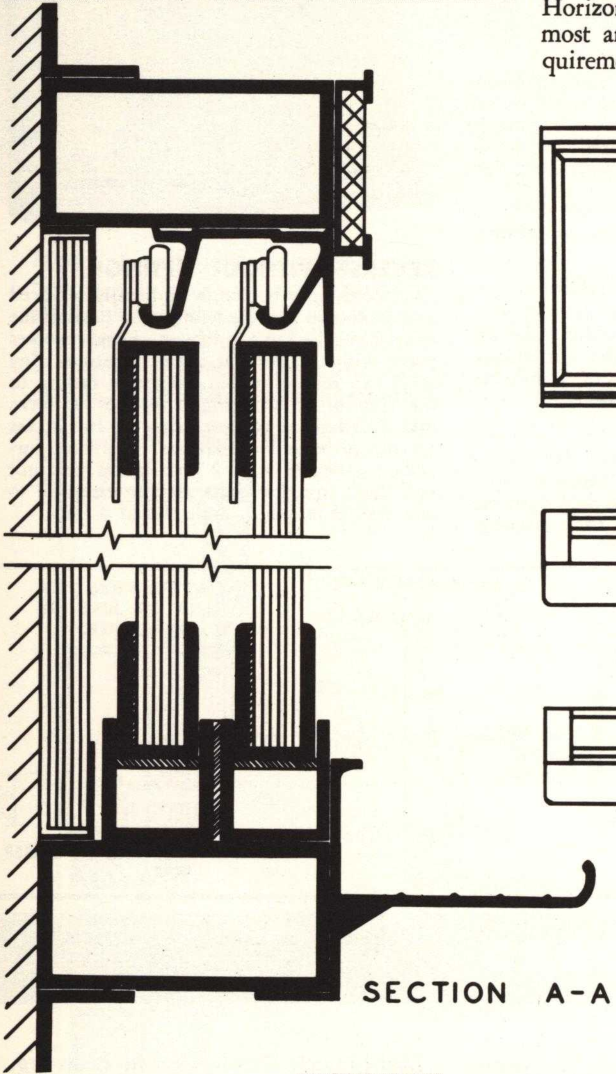
TYPICAL ELEVATION



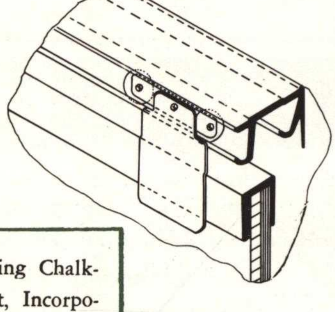
FIXED BACK PANEL THREE SLIDING UNITS

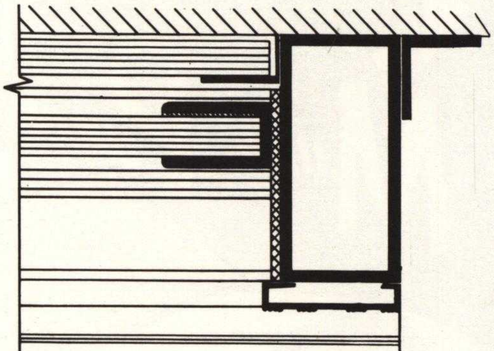


FIXED BACK PANEL FOUR SLIDING UNITS



SECTION A-A





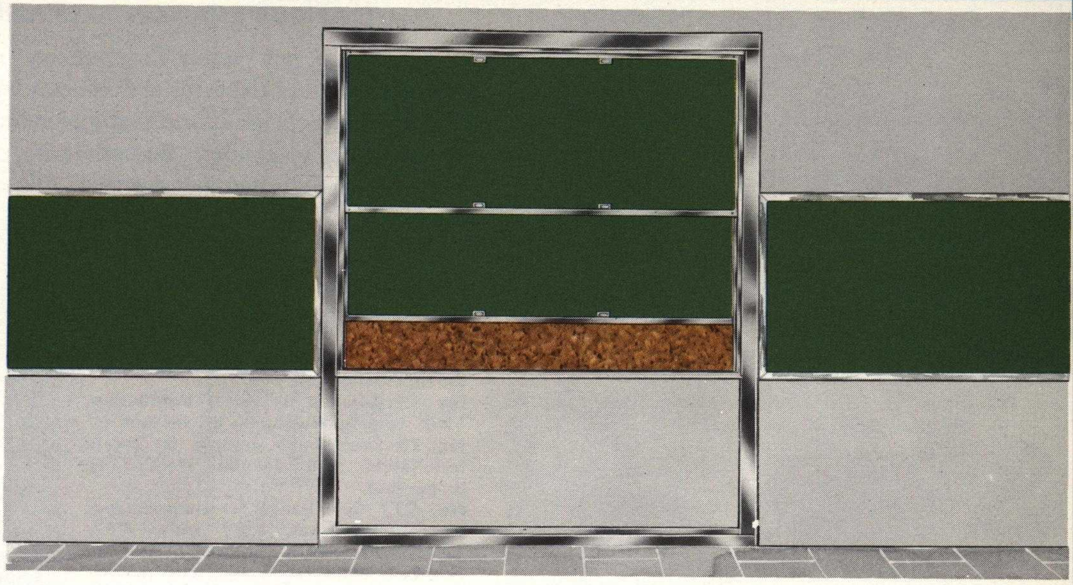
TOP VIEW
JAMB
SECTION

SECTION B-B

SPECIFICATIONS

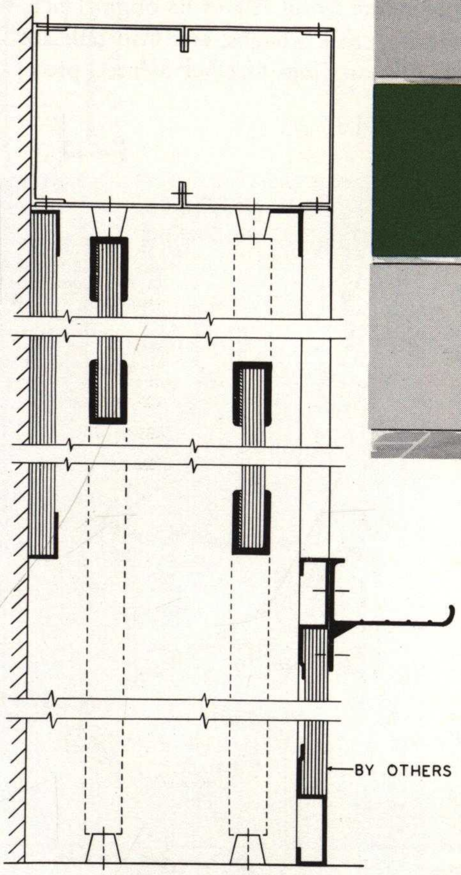
Furnish and install, where shown on plans, Horizontal Sliding Chalkboards as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or an approved equal. All metal work to be 63-S extruded aluminum alloy, all exposed sections to be etched and anodized in dull satin finish. Sliding Chalkboards shall be Duracite with Clearcite Green Writing Surface (Durasteel or Vitracite — state which is desired) hung from the top on molded Phenolic rollers with Oilite bronze bearings. Same shall be of dimensions shown in details and in accordance with manufacturer's specifications and shop drawings as approved by the architect.

Claridge VERTICAL SLIDING CHALKBOARDS



CROSS SECTION

SHOWN QUARTER SIZE



SECTION A-A

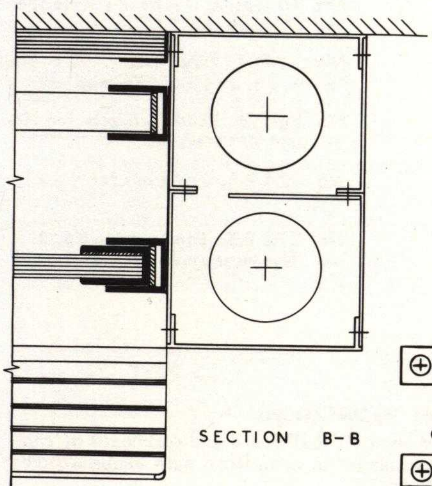
Claridge Vertical Sliding Chalkboards are available in various widths up to 10 feet. Boards longer than 10 feet are too heavy for manual operation and also lack rigidity for practical, carefree operation. Chalkboard panels are counter-balanced by weights attached to cables operating over roller bearing sheaves. Frame work consists of 11 gauge aluminum casing, etched and anodized satin finish. Extruded aluminum side track insures smooth, easy operation. Chalkboards cannot bind or become dislocated in normal operation. Chalkboard panels move up and down independently of each other and can be lowered below line of vision so that back wall may be used for projection screen or fitted with permanent chalkboard or bulletin board.

STANDARD SIZES

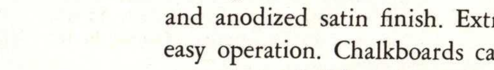
LENGTH	HEIGHT	SLIDING BOARDS	APPROX. WT.
4′	10′	2	400 lbs.
5′	10′	2	550 lbs.
6′	10′	2	600 lbs.
8′	10′	2	650 lbs.
9′	10′	2	700 lbs.
10′	10′	2	750 lbs.

SPECIFICATIONS

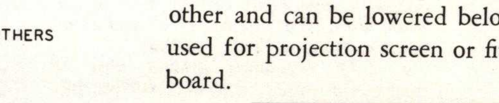
Furnish and install where shown on plans Vertical Sliding Chalkboards as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or approved equal. Frame work and trims to be 11 gauge aluminum housing, etched and anodized. Chalkboards are to be Duracite (also available with Durasteel and Vitracite—specify which), framed in extruded aluminum. Sliding panels to be guided up and down by extruded aluminum guides. Same shall be of dimensions shown in details and in accordance with manufacturer's specifications and shop drawings as approved by the architect.



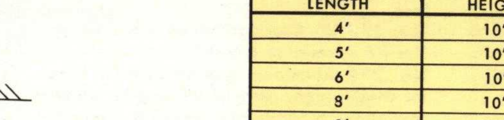
SECTION B-B



ONE VERTICAL SLIDING PANEL, FIXED BACK PANEL

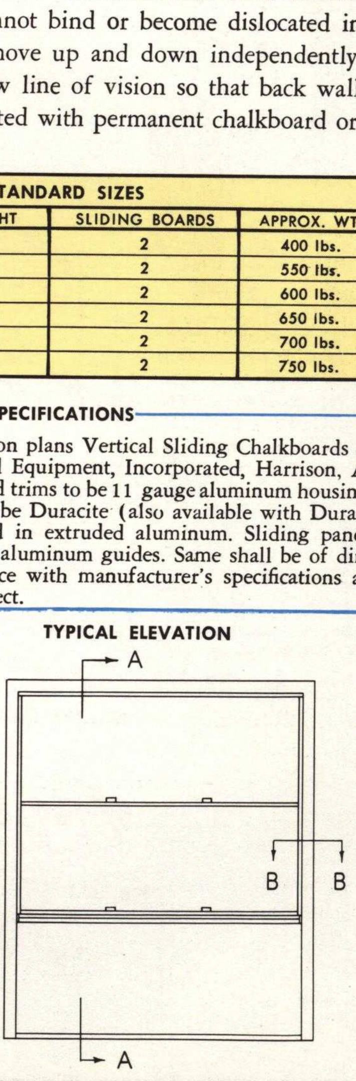


TWO VERTICAL SLIDING PANELS, FIXED BACK PANEL

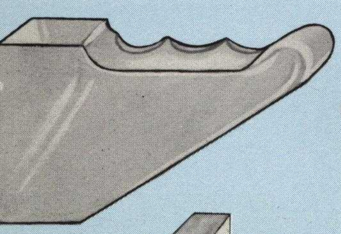


THREE VERTICAL SLIDING PANELS, FIXED BACK PANEL

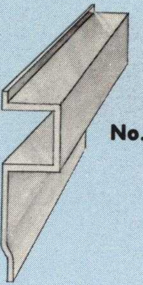
TYPICAL ELEVATION



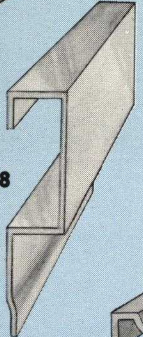
Claridge SNAP-ON EXTRUDED ALUMINUM TRIM



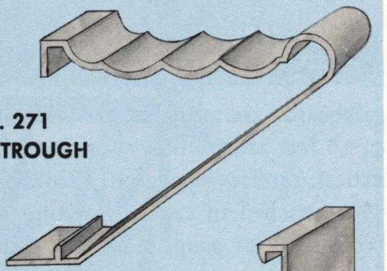
No. 271R
No. 271L
END CLOSURES



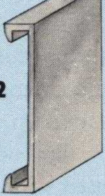
No. 77



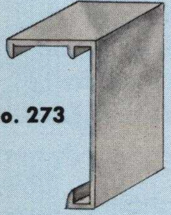
No. 78



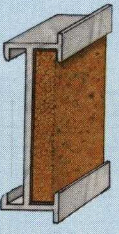
No. 271
CHALKTROUGH



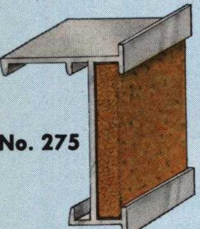
No. 272



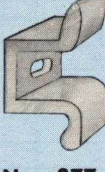
No. 273



No. 274



No. 275



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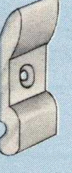
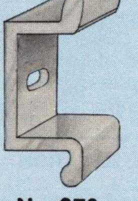
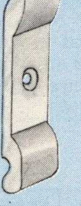


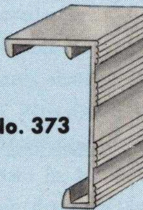
No. 277 W



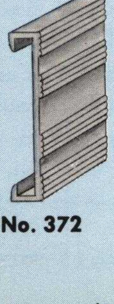
No. 278



No. 278 C.T.W.



No. 373



No. 372

CLARIDGE SNAP-ON EXTRUDED ALUMINUM TRIM

Modern design, new beauty for classrooms at minimum cost. Permanent installation for all chalkboards and bulletin boards. Maximum service at minimum upkeep. Soft, dull, brush-satin alumilite finish retains its original rich, spotless beauty indefinitely. Grounds, trim, chalk troughs, and map rails are completely co-ordinated and matched. All parts join together in neat, precision fit.

CONSTRUCTION DETAILS

No. 271 L-R Left and right end closures for chalktrough No. 271.

No. 77 Grounds for recess installation. 12′0″ lengths. Weight: ½ lb. per foot.

No. 78 Chalktrough grounds for recess installation. 12′0″ lengths. Weight: ½ lb. per foot.

No. 271 Chalktrough for snap-on over aluminum grounds, 3⅛″ wide; 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″ lengths.

No. 272 Plain recess trim and mullion trim. 1¾″ wide; 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″ lengths. Weight: ½ lb. per foot.

No. 273 Plain surface applied trim, 1¾″ wide; 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″ lengths. Weight: ½ lb. per foot.

No. 274 Map rail with cork insert. 2″ wide, either for recess trim or surface applied mullion trim. 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″ lengths. Weight: ¾ lb. per foot.

No. 275 Combination head trim and map rail with cork insert surface applied. 2″ wide; 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″ lengths. Weight: ¾ lb. per foot.

No. 277 Aluminum ground clips 1″ long for all outside trim and mullion trim. Also up to 12′0″ lengths where continuous grounds are specified. Weight: ½ lb. per foot.

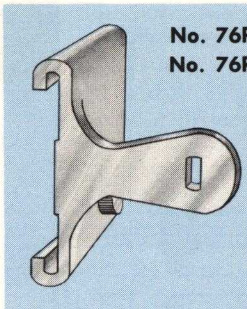
No. 277 W Clip for wood grounds or No. 77 Aluminum grounds.

No. 278 Aluminum ground clips 2″ long for chalktrough. Also 12′0″ lengths where continuous grounds are specified. Weight: ½ lb. per foot.

No. 278 C.T.W. Chalktrough clip for wood grounds or No. 78 aluminum grounds.

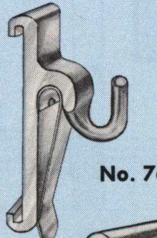
No. 372 Recess trim and mullion trim. 1¾″ wide; 8′6″, 10′6″ and 12′6″ lengths. Weight: ½ lb. per foot.

No. 373 Surface applied trim. 1¾″ wide; 8′6″, 10′6″ and 12′6″ lengths. Weight: ½ lb. per foot.

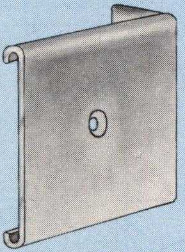


No. 76R.B.L.
No. 76R.B.R.

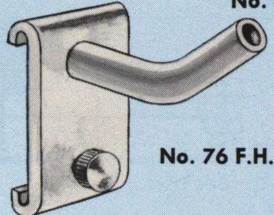
No. 76 R.B.L. and No. 76 R.B.R. are now the same. Both have oblong slot in bracket. This makes them interchangeable so that maps may be pulled straight down or over the top of roller.



No. 76



No. 274 E.S.



No. 76 F.H.

No. 76 Spring clip hook for No. 74, 274 and 275 map rail.

No. 76 F.H. Flag holder. ⅜″ opening for No. 74, 274 and 275 map rail.

No. 76 R.B. Roller brackets for No. 74, 274 and 275 map rail.

No. 274 E.S. End stops for No. 274 map rail.

No. 275 E.S. End stop for No. 275 map rail. (Not illustrated.)

TYPICAL SNAP-ON SPECIFICATIONS

SCOPE — The contractor shall furnish and erect all chalkboard and corkboard or combination frame and trim as detailed on drawings or in accordance with manufacturer's approved shop drawings and as herein specified.

MATERIALS — All trim and chalk trough shall be snap-on type over direct to wall clips as furnished by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or approved equal.

TRIM — All perimeter trim shall be No. 273 or No. 272 as required to properly complete the job.

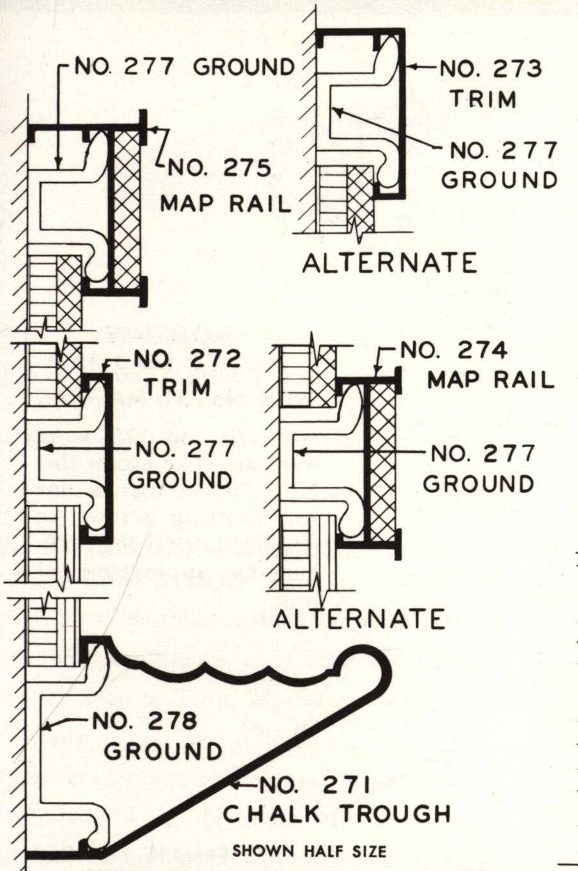
CHALK TROUGH — shall be No. 271 complete with end closures.

MAP RAILS — where called for map rails shall be No. 274 or No. 275 combination head trim and map rail as shown on drawings.

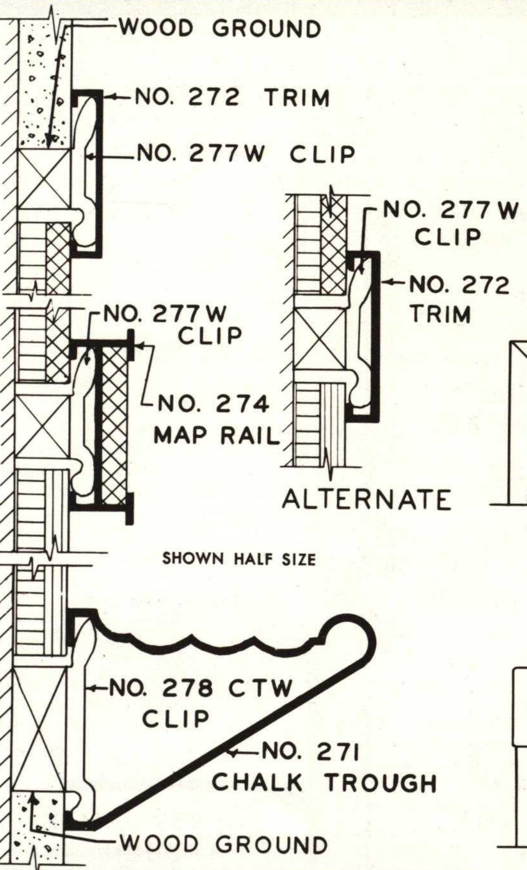
MAP RAIL ACCESSORIES — Furnish one pair of No. 76 roller brackets for each run. One No. 76 spring clip map hook for each 24″ of map rail, and 2 No. 76 F. H. flag holders for each run of map rail. Shop drawings are to be furnished for the architect's approval. All work shall be done in strict accordance with approved shop drawings.

Claridge

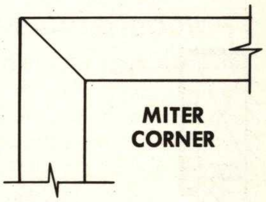
CHALKBOARD and BULLETIN BOARD DETAILS FOR SNAP-ON TRIM


NO. 277 GROUND
NO. 275 MAP RAIL
NO. 273 TRIM
NO. 277 GROUND
ALTERNATE
NO. 272 TRIM
NO. 277 GROUND
NO. 274 MAP RAIL
NO. 277 GROUND
ALTERNATE
NO. 278 GROUND
NO. 271 CHALK TROUGH
SHOWN HALF SIZE

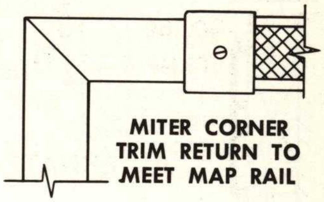
SURFACE APPLIED METAL GROUNDS


WOOD GROUND
NO. 272 TRIM
NO. 277W CLIP
NO. 277W CLIP
NO. 272 TRIM
NO. 277W CLIP
NO. 274 MAP RAIL
ALTERNATE
SHOWN HALF SIZE
NO. 278 CTW CLIP
NO. 271 CHALK TROUGH
WOOD GROUND

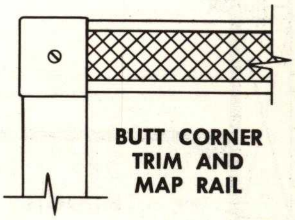
RECESS TYPE WOOD GROUNDS



MITER CORNER



MITER CORNER TRIM RETURN TO MEET MAP RAIL

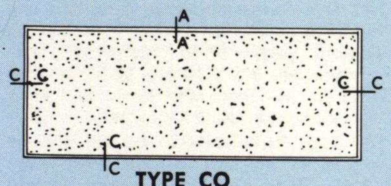


BUTT CORNER TRIM AND MAP RAIL

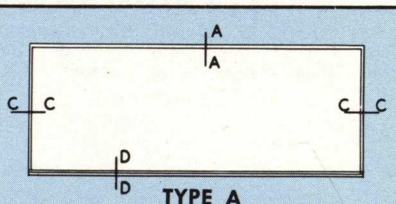
SCHEDULE OF TRIM SELECTION

RECESS INSTALLATION SNAP-ON TYPE		SURFACE INSTALLATION SNAP-ON TYPE		SURFACE INSTALLATION SCREW-ON TYPE (WOOD GROUNDS FURNISHED BY OTHERS)		SURFACE INSTALLATION SCREW-ON TYPE DIRECT APPLICATION. NO GROUNDS.	
Sect.	Trim No.	Sect.	Trim No.	Sect.	Trim No.	Sect.	Trim No.
A-A	272-372 or 274	A-A	273-373 or 275	*A-A Omit Grounds	170-170A	*A-A No Grounds Required	170 or 170A
C-C	272 or 372	C-C	273 or 373	C-C Omit Grounds	170-170A	C-C No Grounds Required	170 or 170A
D-D	271	D-D	271	D-D Omit Grounds	262-263	D-D No Grounds Required	262 or 263
E-E	272 or 372	E-E	272 or 372	E-E Omit Grounds	169	E-E No Grounds Required	169
F-F	272-372 or 274	F-F	272-372 or 274	F-F Omit Grounds	169-51	F-F No Grounds Required	169 or 51

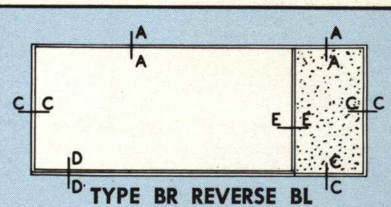
*If map rail is desired on screw-on head trim in assemblies, use No. 51 map rail over 170 head trim.



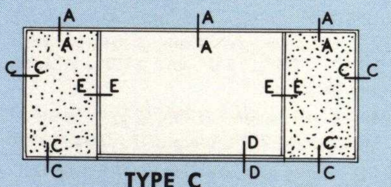
TYPE CO



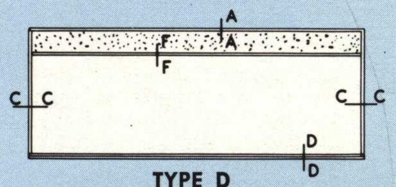
TYPE A



TYPE BR REVERSE BL



TYPE C



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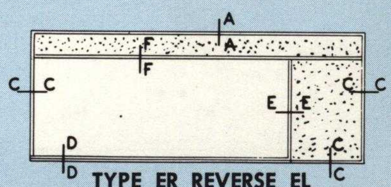
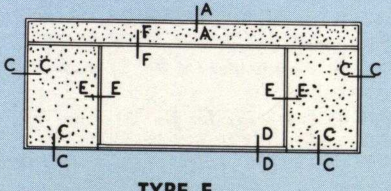
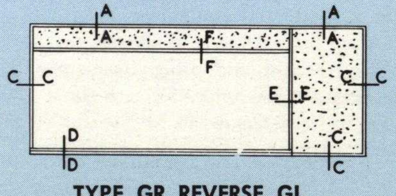


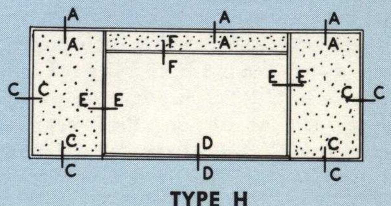
TYPE ER REVERSE EL



TYPE F



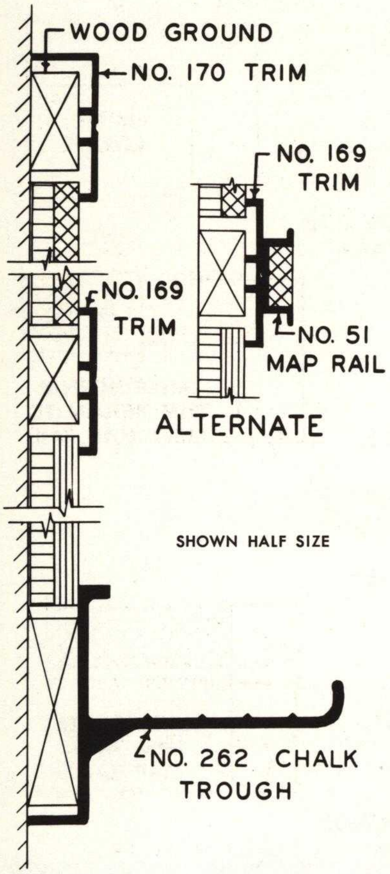
TYPE GR REVERSE GL

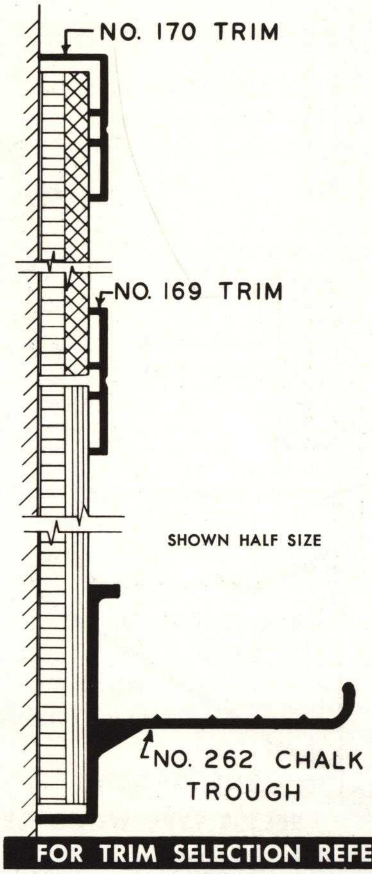


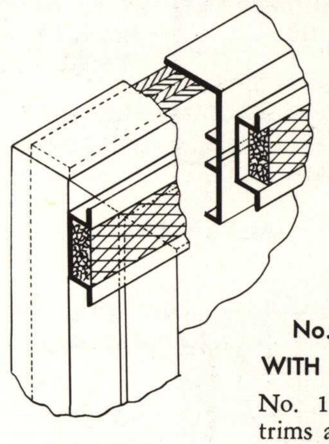
TYPE H

Claridge SCREW-ON EXTRUDED ALUMINUM TRIM

FOR INSTALLATION WITH OR WITHOUT GROUNDS

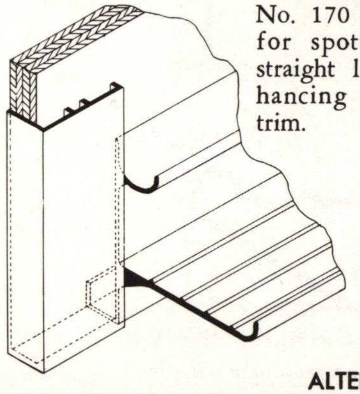






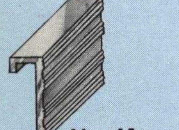
ALTERNATE No. 170 HEAD TRIM WITH No. 51 MAP RAIL

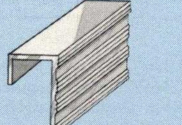
No. 170 and 270 series trims are alike except that No. 170 has narrow line for spotting screws in straight line, thereby enhancing appearance of trim.

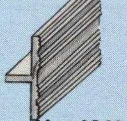


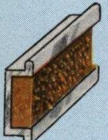
ALTERNATE No. 263 CHALKTROUGH

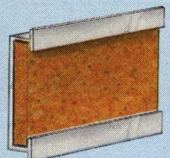
FOR TRIM SELECTION REFER TO PAGE 21

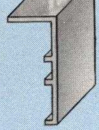

No. 61

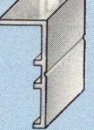

No. 61A


No. 61M

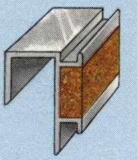

No. 51


No. 74


No. 270


No. 170

No. 180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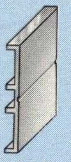
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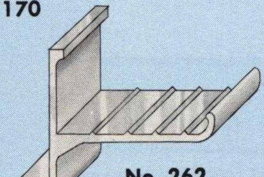
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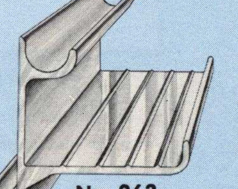

No. 263

TECHNICAL INFORMATION

No. 61 Edge trim for top and ends of ¼″ chalkboard or corkboard. Surface applied, screw on. Width 1″. Lengths 8′6″, 10′6″ and 12′6″. Weight: ¼ lb. per foot.

No. 61A Edge trim for top and ends of ½″ chalkboard or bulletin board. Surface applied, screw on. Width: 1″. Lengths 8′6″, 10′6″, 8′6″, 10′6″ and 12′6″. Weight: ¾ lb. per foot.

No. 61M Mullion trim for use with 61 and 61A perimeter trim. Width: 1″. Lengths 8′6″, 10′6″ and 12′6″. Weight: ¼ lb. per foot.

No. 51 Map rail with cork insert for surface mounting on No. 170 and 170A trim or mullion mounting with No. 61 and 169 trim or mounting on wood trim. Width: 1″. 8′0″, 10′0″, 12′0″ long. Weight: ½ lb. per foot.

No. 74 Wide map rail with cork insert used as mullion trim with No. 170 and 170A. Width: 2″; cork insert 1⅜″ wide. Lengths 8′6″, 10′6″ and 12′6″. Weight: ¼ lb. per foot.

No. 170 and 270 Screw-on perimeter trim for ½″ chalkboard or bulletin board; width 1½″; 8′6″, 10′6″ and 12′6″ lengths; weight ½ lb. per foot.

No. 170A & 270A Same as No. 170 and No. 270 except for ¼″ chalkboards.

No. 180 Screw-on perimeter trim for ½″ chalkboard or bulletin board; width face 1¼″ with 7/16″ return leg; 8′6″, 10′6″ and 12′6″ lengths; weight ¼ lb. per foot.

No. 181 Screw-on combination head trim and map rail with cork insert for ½‴ chalkboard and bulletin board; width face 1¼″ with 7/16″ return leg; 8′6″, 10′6″, 12′6″ lengths; weight ½ lb. per foot. Map hooks and other fixtures are same as No. 51 map rail.

No. 169 and 269 Screw-on mullion are the same except No. 269 has no center line; width 1½″; 8′6″, 10′6″ and 12′6″ lengths; weight ¼ lb. per foot.

No. 262 Chalktrough. Width, 2½″. Lengths: 8′6″, 10′6″, 12′6″, 17′0″ and 21′0″. Weight: ¾ lb. per foot.

No. 263 Chalktrough. Width: 2½″. Lengths: 8′6″, 10′6″ and 12′6″. Weight: ¾ lb. per foot.

No. 51C Spring clip hook for No. 51 map rail. (Shown on p. 21.)

No. 51 R.B. Roller brackets for No. 51 map rail. (Shown on p. 21.)

No. 51 F.H. Flag holder for No. 51 map rail. (Shown on p. 21.)

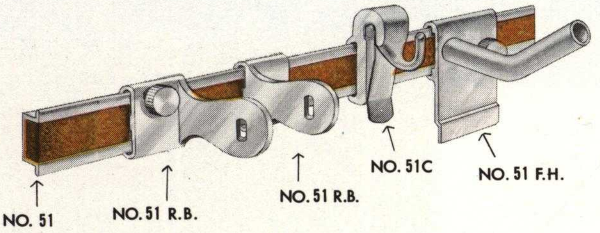
No. 51 E.S. End stops for No. 51 map rail. (Not illustrated.)

ARCHITECT'S SPECIFICATIONS FOR SCREW-ON TRIM

Furnish and install extruded aluminum anodized dull satin finish, screw-on chalkboard and bulletin board trim, as manufactured by Claridge Products and Equipment, Incorporated, Harrison, Arkansas, or approved equal. All trim, map rail, and chalk trough to be as required in specifications and as detailed on plans. Furnish one spring clip map hook for each 24″ of map rail, one pair roller brackets and one flag holder for each run of map rail. All trim and chalktrough to be furnished in stock lengths to be cut and fitted on the job. Contractors shall furnish shop drawings prepared in accordance with manufacturers installation recommendations for architect's approval.

Claridge reserves the right to change specifications or add improvements without notice or obligation.

Claridge EXTRUDED ALUMINUM MAP RAIL



No. 51	Economy Display Rail with cork insert
No. 51B	Economy Display Rail without cork insert
No. 51C	Display hooks
No. 51R.B.	Roller brackets
No. 51F.H.	Flag holders
No. 51E.S.	Map rail ends for No. 51 map rail

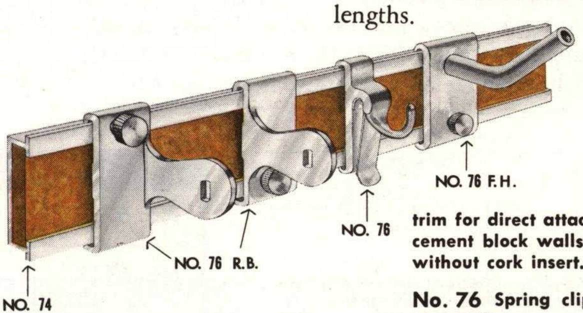
No. 51 ECONOMY EXTRUDED ALUMINUM DISPLAY RAIL

The Economy Display Rail gives an attractive appearance to any classroom. Designed for universal use. It is easily installed in old or new buildings and can be mounted on either wood or metal trim or directly to plaster or cement block walls.

Claridge Economy Display Rail is made of heavy gauge extruded aluminum. The cork insert is securely fastened and is available in tan or green color. Hooks are extra strong, equipped with spring clips. Rail is furnished with screws for fastening to wood trim. Cork insert is ¼ inch thick; overall width of rail approximately 1 inch. It is available in 6, 8, 10 and 12 foot lengths.

No. 74 DELUXE EXTRUDED ALUMINUM MAP RAIL

Our Deluxe Map Rail is designed to accommodate the same hooks and fixtures used on Claridge Snap-on Trim. Where aluminum trim is already in use and additional map rail is desired in corridors or rooms not having chalkboard, No. 74 may be added, and all fixtures will be interchangeable. Available with tan, grey, or green cork insert or without cork insert. May be screwed directly to wood, plaster, or block walls.



No. 74 Extruded aluminum map rail with cork insert. Overall width, 2″; cork insert, 1⅜″ wide; lengths: 8′6″, 10′6″, 12′6″. Weight: ¾ lb. per foot. Extra wide map rail for fastening to existing wood or metal trim for direct attachment to plaster or cement block walls. Available with or without cork insert.

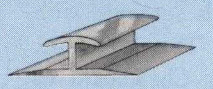
No. 76 Spring clip hook for No. 74 map rail.

No. 76 R.B. Roller brackets for No. 74 map rail.

No. 76 F.H. Flag holders for No. 74 map rail.

No. 74 E.S. End stop (not illustrated).

MISCELLANEOUS ITEMS CHALKBOARD and BULLETIN BOARD TRIM



JOINT STRIP

No. 803 ¼″ extruded aluminum anodized dull satin finish. ½″ rounded face. Lengths: 10′6″ and 12′. Weight: ¼ lb. per foot.

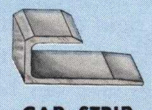
No. 803A ½ inch. Same design as 803. Length: same as 803. Weight: same as 803.

No. 803B 3/16″. Same design as 803. Length: Same as 803. Weight: Same as 803.

No. 803C 5/16″. Same design as 803. Length: Same as 803. Weight: Same as 803.

No. 803D ⅝″. Same design as 803. Length: Same as 803. Weight: Same as 803.

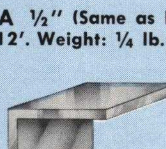
No. 803E ⅛″. Same design as 803. Length: Same as 803. Weight: Same as 803.



CAP STRIP

No. 279 ¼″ extruded aluminum anodized dull satin finish. 12′ lengths. Weight: ¼ lb. per foot.

No. 279A ½″ (Same as No. 279) . Lengths: 12′. Weight: ¼ lb. per foot.

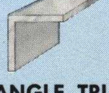


EDGE MOULDING

No. 804 ¼″ extruded aluminum anodized dull satin finish. ⅝″ face, 1/16″ wall thickness. Lengths 8′6″, 10′6″ and 12′6″. Weight: ¼ lb. per foot.

No. 804A ½″. Same design as 804. Same wall thickness, face, lengths, and weight as No. 804.

No. 804B 9/16″. Same design as 804. Same wall thickness, face, lengths, and weight as No. 804.

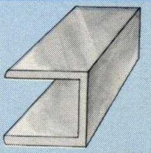


ANGLE TRIM

No. 160 anodized dull satin finish. 1″ x 1″, wall thickness 1/16″. Lengths: 12′. Weight: ¼ lb. per ft.

No. 161 Same design as No. 160. 1″ x ½″, wall thickness 1/16″. Lengths: 12′. Weight: ¼ lb. per ft.

No. 162 Same design as No. 160. 1″ x 1″, wall thickness ⅛″. Lengths: 12′. Weight:

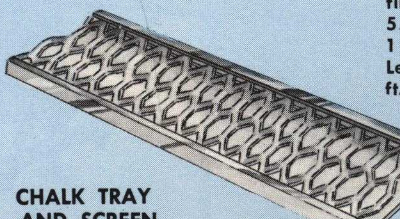


CHANNEL MOULDING

No. 805 anodized dull satin finish. ⅞″ opening; ⅛″ wall; 1⅛″ deep; 1¼″ outside. Lengths: 12′. Weight: ½ lb. per foot.

No. 805A anodized dull satin finish. Same design as 805. 9/16″ opening; ⅛″ wall; 1¼″ deep; 1⅜″ outside. Lengths: 12′. Weight: ½ lb. per ft.

No. 805B anodized dull satin finish. Same design as 805. 5/16″ opening; 3/32″ wall; 1″ deep; 1⅛″ outside. Lengths: 12′. Weight: ½ lb. per ft.

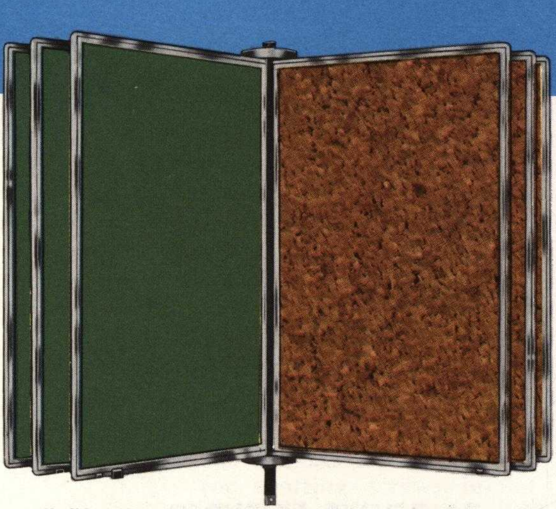


CHALK TRAY AND SCREEN

No. 800 Especially desirable for use in wood chalktrough. Made of heavy extruded aluminum anodized finish. 2-7/16″ wide at top, 2″ wide at base, ⅜″ deep. Lengths are 3 and 4 feet. Weight: approximately 1 lb. per lineal foot.

Claridge *Swing Leaf* BULLETIN BOARDS

Full View...Folds Completely



On the Claridge Swing Leaf Bulletin Board, material may be arranged according to a definite plan, always in presentable order, easily changed to keep your program or plan intact and always up-to-date. All material used daily may be grouped in proper manner. No searching through files—simply turn a wing, like a loose-leaf note book for desired charts or material. All wings may be folded to either side when not in use. When open, panels swing to a full 170° angle, practically flat against the wall and in full view. Substantially made wall pivot comprises upper and lower semi-circular brackets in which panels pivot. Main frame with upright strip fastens to wall. Frames are fabricated into one complete unit. All metal parts are beautifully finished. Posting panels are cork on both sides or green chalkboard one side and cork on the other, or chalkboard both sides, or with cork panels punched with 3/16 inch holes on 1 inch centers for peg board hangers, as selected.

Chalkboard
Corkboard
Pegboard

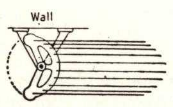


Diagram shows how all wings fold to either side, paralleling the wall. Minimum wall space required.

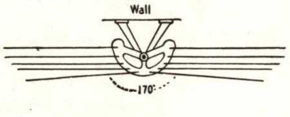
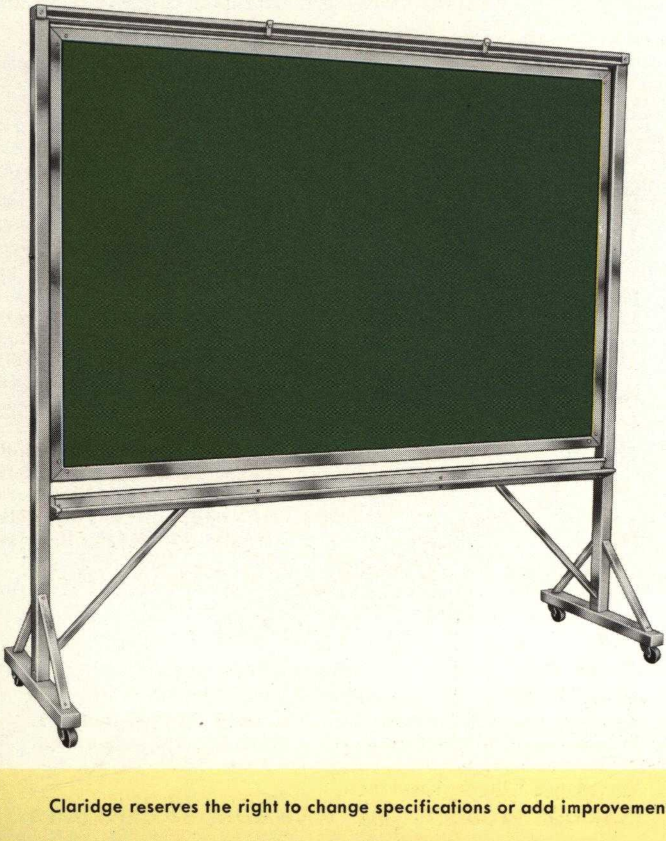


Diagram shows half the wings turned to each side, paralleling the wall. Note the wide angle of opening of adjacent surfaces.

	Panels	Width	Height	Approx. Weight
No. 6710	5	30 in.	40 in.	50 lbs.
No. 6711	5	40 in.	30 in.	50 lbs.
No. 6712	5	40 in.	48 in.	60 lbs.

Claridge REVERSIBLE CHALKBOARDS ON EXTRUDED ALUMINUM STANDARDS



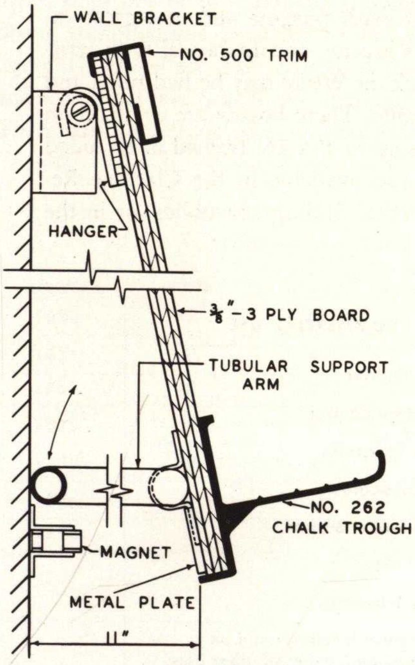
Claridge Revolving Two-Sided Chalkboard is mounted on heavy, rigid extruded aluminum standards equipped with large ball bearing rubber tired casters. This reversible, movable unit can be had with Duracite Chalkboard or Vitracite vitreous enamel chalkboard, with chalkboard on both sides or cork bulletin board on one side. The board revolves on two pins in horizontal plane, and may be used tilted at an angle or locked in vertical position. The frame and standards are of heavy gauge extruded aluminum, etched and anodized satin finish. The upright posts and cross pieces in the framework are 1½″ x 2″ rectangular tubing having ⅛″ thick walls. The chalkboard frame is 1⅝″ wide with ⅛″ thick wall. The chalk trough is 2½″ wide, extending the full width of board. Angle braces are also rectangular tubing. The entire unit is well balanced, thoroughly engineered, and constructed to meet the most exacting demands for a high grade movable chalkboard.

SIZES ARE THE OUTSIDE MEASUREMENTS OF THE CHALKBOARD

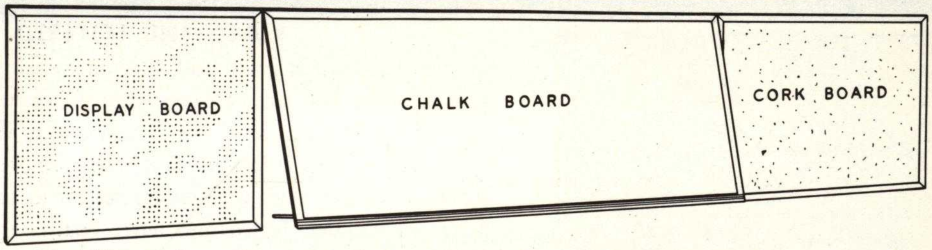
No. 46A	Size 3½′	x 5′	Approx. weight 110 lbs.
No. 46B	Size 4′	x 5′	Approx. weight 120 lbs.
No. 46C	Size 4′	x 6′	Approx. weight 140 lbs.
No. 46D	Size 4′	x 7′	Approx. weight 160 lbs.

Claridge VARIABLE ANGLE UNITS with MAGNETIC LATCH

CHALKBOARDS • BULLETIN BOARDS • DISPLAY BOARDS



CROSS SECTION



Variable angle units are prefabricated chalkboards, bulletin boards, and display boards completely built at the factory, ready to hang. Simply install two hangers and two magnetic latches to the wall and hang the chalkboard, bulletin board or display board in place. Units are interchangeable or may be moved from room to room. Units swing forward at bottom to eliminate light reflection and help promote easier writing and better penmanship.

CHALKBOARDS are 3 ply 7/16". Duracite or Vitracite in Clearcite Green, Dark Myrtle Green, Blue-Black, Coral or Charcoal Grey. Chalkboards are available with or without map rail.

BULLETIN BOARDS are tan or green cork mounted on 3/8" Fiberboard — or No. 1380 Fabricork in one of seven colors.

DISPLAY BOARDS are 1/4" perforated pegboards with holes for fixtures on one inch centers.

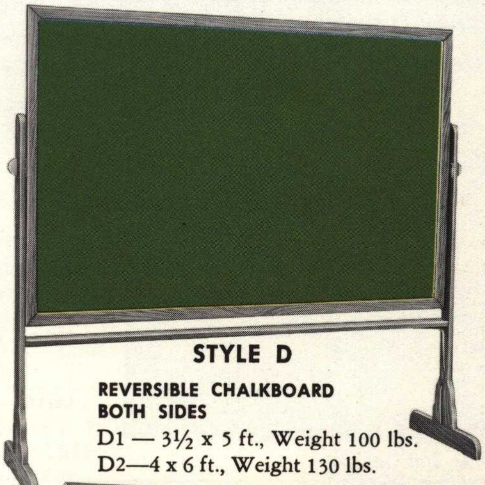
FRAMES AND FIXTURES are heavy gauge extruded aluminum, etched and anodized, substantially built to insure carefree operation.

SIZES AND WEIGHTS

CHALKBOARDS		BULLETIN BOARDS		DISPLAY BOARDS	
SIZE	WEIGHT	SIZE	WEIGHT	SIZE	WEIGHT
4' x 4'	80 lbs.	4' x 4'	48 lbs.	4' x 4'	56 lbs.
4' x 6'	120 lbs.	4' x 6'	72 lbs.	4' x 6'	84 lbs.
4' x 8'	160 lbs.	4' x 8'	96 lbs.	4' x 8'	112 lbs.

PORTABLE CHALKBOARDS and BULLETIN BOARDS

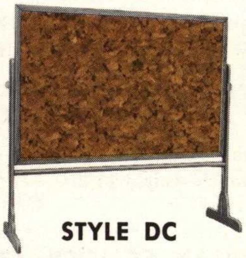
Movable chalkboards and bulletin boards are adapted for many and varied uses: lecture rooms, Sunday Schools, business, shops, laboratories, etc. They are substantially constructed to withstand rough usage and can be quickly and easily disassembled for storage. All wood parts are oak finished natural; chalkboards are 1/4" 2 ply built up surfaced both sides and bulletin boards are 1/4 inch cork securely bonded to rigid back panels. Standards are equipped with mar-proof gliders.



STYLE D

REVERSIBLE CHALKBOARD BOTH SIDES

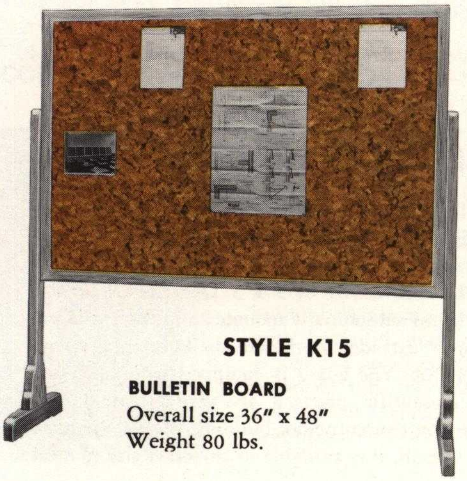
D1 — 3½ x 5 ft., Weight 100 lbs.
D2—4 x 6 ft., Weight 130 lbs.



STYLE DC

REVERSIBLE CHALKBOARD ONE SIDE—BULLETIN BOARD OPPOSITE SIDE

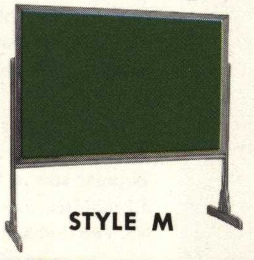
DC10 — 3½ x 5 ft., Weight 110 lbs.
DC12 — 4 x 6 ft., Weight 140 lbs.



STYLE K15

BULLETIN BOARD

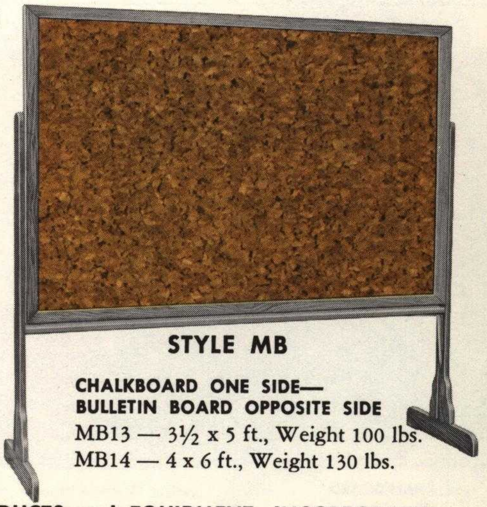
Overall size 36" x 48"
Weight 80 lbs.



STYLE M

CHALKBOARD ONE SIDE ONLY

M3 — 3½ x 5 ft., Weight 90 lbs.
M4 — 4 x 6 ft., Weight 120 lbs.

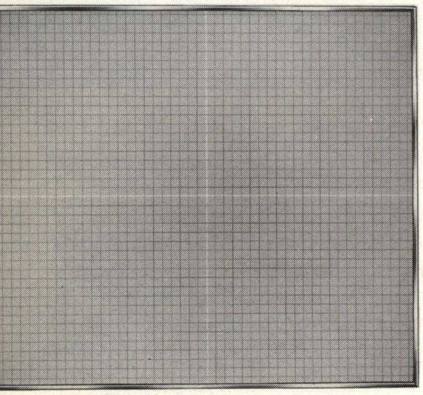


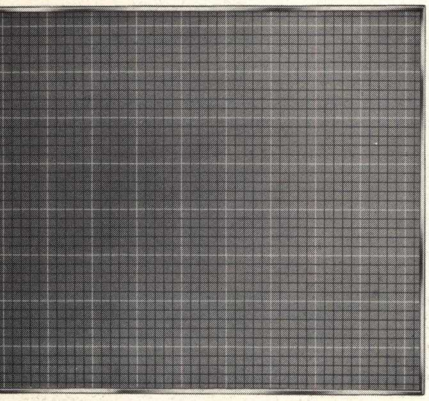
STYLE MB

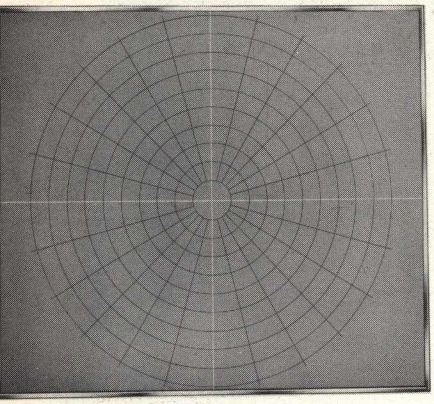
CHALKBOARD ONE SIDE—BULLETIN BOARD OPPOSITE SIDE

MB13 — 3½ x 5 ft., Weight 100 lbs.
MB14 — 4 x 6 ft., Weight 130 lbs.

SPECIAL CHALKBOARDS FOR SCHOOL-SUNDAY SCHOOL and COMMERCIAL USE


A 16 RECTANGULAR COORDINATES


P 16 RECTANGULAR COORDINATES


C 16 POLAR COORDINATES

RULED AND LETTERED CHALKBOARDS

Special chalkboards ruled and lettered for almost every purpose and in a great variety of styles and sizes are available. Duracite, Vitracite, and Durasteel with writing surfaces in Clearcite Green, Dark Green, Black, or White may be had ruled and lettered in various colors to meet most requirements. These boards are available in panels of various sizes without frames, or in sizes up to 4′ x 16′ framed in extruded aluminum frames. Ruled and letter boards are also available in the Claridge Reversible Chalkboards, Horizontal Sliding and Vertical Sliding assemblies, or in the Claridge Swing Leaf Units.

SCHOOL USE	COMMERCIAL USE
Rectangular Coordinates	Sales Graphs
Polar Coordinates	Inventory Control
Bookkeeping Ten Column Work Sheets	Work Schedules
General Ledger	Control Boards
General Journal	Stock Broker Boards
Music Ruled	Time Tables
Charts	Route Schedules
Maps and other uses.	Production Schedules and an unlimited number of other uses.

MATH-MASTER® CHALKBOARD GRAPH SYSTEMS

Now every math and physics room can be properly equipped with non-expendable teaching aids mounted and individually framed as illustrated in Math-Master Graph Systems on Duracite or Vitracite Chalkboard. Frames are extruded aluminum, anodized in satin finish. Each board equipped with hangers. The lines are embossed on the chalkboard in accurate pattern. Math-Master Graph Boards are carried in stock only in sizes listed, but are available on any size panel or on vertical or horizontal sliding chalkboards, reversible panels, and swing leaf units.

RA16—Rectangular coordinates (algebraic applications) 1 inch squares, x and y axis in yellow. Size 3′6″ x 4′. Approximate weight 25 lbs.

RP16—Rectangular coordinates (physic applications) 1 inch squares, every fifth line in yellow. Size 3′6″ x 4′. Approximate weight 25 lbs.

PC16—Polar coordinates. Ten concentric circles two inches apart, 15 degree graduations. 0°-180° and 90°-270° in yellow. Size 3′6″ x 4′. Approximate weight 25 lbs.

CO16—Reversible board with PC16 on one side and RA16 on the other side. Size 3′6″ x 4′. Approximate weight 25 lbs.

SPECIAL SUNDAY SCHOOL CLASSROOM CHALKBOARD

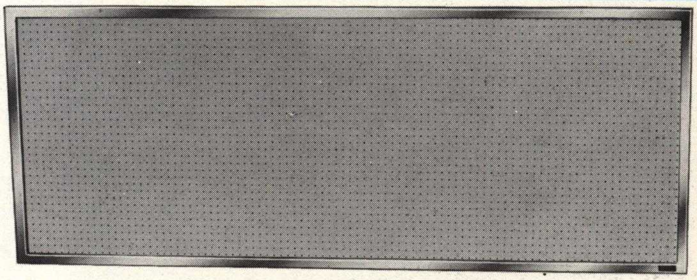
NO. 166 CHALKBOARD

This combination chalkboard and bulletin board has been especially designed for Sunday School use and has proven very popular. Thousands are in use; as many as a hundred units have been supplied for one Sunday School. The units consist of 3′ x 3′ Duracite chalkboard and a 2′ x 3′ bulletin board substantially mounted and framed in extruded aluminum with 2″ extruded aluminum chalktrough and map rail with cork insert at top. The board is equipped with concealed hangers. This is truly a beautiful, practical, and very durable unit to grace the most outstanding church school building. While the most popular size is 3′ x 5′ overall, it is available in any other size to meet all requirements.

No. 166 Sunday School Classroom Chalkboard. Size 3′ x 5′. Approximate shipping weight 75 lbs.

Claridge DISPLAY and DIRECTORY BOARDS

Space does not permit showing the many bulletin and display board combinations available in the Claridge line. The few items illustrated are only typical of the unlimited styles, sizes, and combinations which are manufactured to special order. There are special designs of changeable letter directory and announcement boards for schools, offices, hotels, factories, and every location where display or announcement boards are desired. If your particular needs cannot be met from the items illustrated, we suggest you submit a sketch and description of your requirements for quotation.

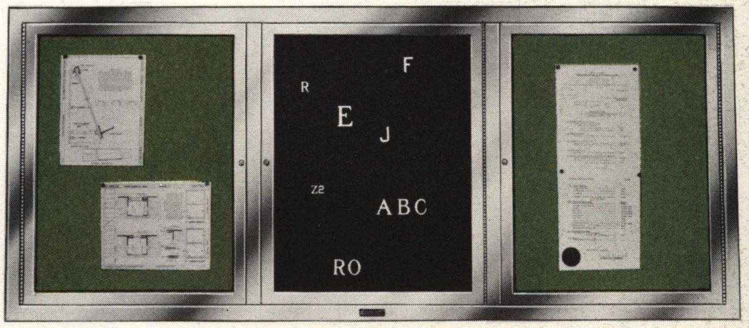


MULTI-PUNCH DISPLAY BOARDS

These boards are adapted for almost any display application. The panels are substantially framed with extruded aluminum, finished in dull satin, etched and anodized, and are equipped with concealed hangers. Multi-Punch Display Boards are strong, durable, and water resistant. They are available finished in Light Gray, Light Green, Brown, or Coral.

STANDARD SIZES

NUMBER	WIDTH	HEIGHT	APPROX. WEIGHT
1850	4′	3′	30 lbs.
1851	3′	4′	30 lbs.
1852	4′	4′	48 lbs.
1853	5′	4′	60 lbs.
1854	6′	4′	72 lbs.
1855	7′	4′	85 lbs.
1856	8′	4′	100 lbs.



CONTEMPORARY MULTIPLE DOOR CHANGEABLE LETTER BULLETIN BOARDS

Our multiple door cabinets are of the finest construction. Frames are heavy aluminum tubing; corners are carefully mitered and reinforced with no screws showing. Glass doors are mounted on continuous piano hinge and equipped with tumbler flat key locks. Finished in dull satin, etched and anodized. Changeable letter compartments covered with black or green wool broadcloth, which holds letters firmly. Cork panels are available in brown, green, gray, blue and coral. Cabinets are available with either right or left or center location for changeable letter panel. Cabinets are available with fluorescent lights.

STANDARD SIZES

NUMBER	WIDTH	HEIGHT	DOORS	APPROX. WEIGHT
1820	4′	2′6″	2	60 lbs.
1821	4′	3′	2	70 lbs.
1822	4′	4′	2	80 lbs.
1823	5′	3′6″	2	85 lbs.
1824	5′	4′	2	90 lbs.
1825	6′	2′6″	3	95 lbs.
1826	6′	3′	3	100 lbs.
1827	6′	4′	3	110 lbs.

CONTEMPORARY SINGLE DOOR CHANGEABLE LETTER BULLETIN BOARDS

This lends itself to almost any wall location where announcements and bulletins are desired. Glass door, attached with piano hinge and equipped with tumbler flat key lock, protects bulletins from tampering. Cabinet is substantially built of heavy aluminum tubing with beautiful dull satin finish, etched and anodized. Cabinets are equipped with concealed hangers. Cabinets are available with fluorescent lights.

STANDARD SIZES

NUMBER	WIDTH	HEIGHT	DOORS	APPROX. WEIGHT
1801	2′	3′	One	45 lbs.
1802	2′6″	3′	One	50 lbs.
1803	2′6″	3′6″	One	55 lbs.
1804	3′	3′	One	60 lbs.
1805	3′	3′6″	One	70 lbs.

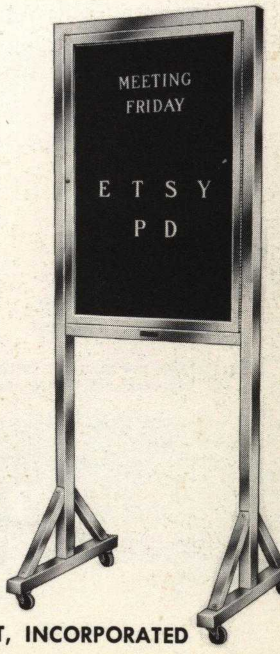
CONTEMPORARY PORTABLE CHANGEABLE LETTER BULLETIN BOARD

This elegant portable announcement board compliments any setting. Especially desirable for hotels, banks, clubs, theaters, churches, etc. to publicize special meetings and events, it is easily moved from place to place. Sturdy construction of heavy gauge aluminum tubing, beautifully finished in dull satin, etched and anodized. The grooved panel is covered with black or green wool broadcloth, which holds letters firmly. Also available with cork panel in brown, green, gray, blue or coral. Glass doors are hung on piano hinge, equipped with tumbler flat key lock.

The pillars are 1½″ x 2″ square tubing; the base is mounted on ball-bearing rubber casters. This announcement board is also available in other sizes up to 4′ in width.

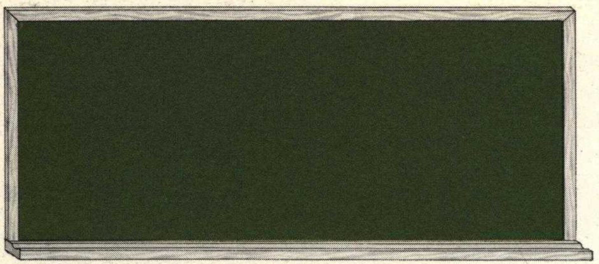
No. 1800

Overall height 72 inches. Overall width 27 inches. Posting area 22 x 34 inches. Approx. wt. 60 lbs.

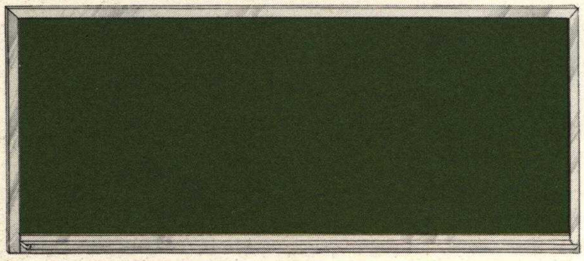


Claridge CHALKBOARDS and BULLETIN BOARDS

OAK WOOD AND EXTRUDED ALUMINUM FRAMED CHALKBOARDS • EQUIPPED WITH CONCEALED HANGERS



STYLE W WOOD FRAMES are oak, one inch thick, two inches wide, mitered corners, finish natural oak. Chalktrough is two inches wide.



STYLE A ALUMINUM FRAMES are 1½ inches wide, etched and anodized. Chalktrough is 2½ inches wide.

Chalkboard panels are Grapholite in either Clearcite Green or Blue-Black. These boards are manufactured to give unlimited service and to meet the requirements of any school or institution. All boards are equipped with concealed hangers for easy installation. Dimensions are overall length and width, including trim.

SIZES AND WEIGHTS

SIZE	APPROX. WEIGHT	STOCK NO. WOOD FRAME	STOCK NO. ALUMINUM FRAME
3½′ x 4′	45 lbs.	1952W	1952A
3½′ x 5′	60 lbs.	1953W	1953A
3½′ x 6′	70 lbs.	1954W	1954A
3½′ x 8′	90 lbs.	1955W	1955A
3½′ x 10′	120 lbs.	1956W	1956A
3½′ x 12′	130 lbs.	1957W	1957A
4′ x 5′	70 lbs.	1959W	1959A
4′ x 6′	80 lbs.	1960W	1960A
4′ x 8′	105 lbs.	1962W	1962A
4′ x 10′	130 lbs.	1963W	1963A
4′ x 12′	150 lbs.	1964W	1964A

OPEN FACED BULLETIN BOARDS • COMPLETELY ASSEMBLED AT THE FACTORY—READY FOR HANGING

STYLE W—WOOD FRAMES

STYLE A—ALUMINUM FRAMES

Claridge Bulletin Boards are manufactured to give unlimited service. Meets the requirements of any school or institution. Finest quality resilient tan cork; holes close instantly after removal of pins and tacks. Cork reinforced with sturdy back panels. Available in two styles with hardwood frames, finished natural or extruded aluminum, polished, etched and anodized dull satin finish. Assembled completely at the factory ready for permanent or temporary wallfastening. Equipped with concealed hangers.

STYLE W Wood Frames

No.	Size	Approx. Wt.	No.	Size	Approx. Wt.
950W	18x24 in.	8 lbs.	958W	4′x 4′	48 lbs.
951W	24x36 in.	14 lbs.	959W	4′x 5′	60 lbs.
952W	36x48 in.	30 lbs.	960W	4′x 6′	72 lbs.
953W	3′x 5′	37 lbs.	961W	4′x 7′	84 lbs.
954W	3′x 6′	54 lbs.	962W	4′x 8′	96 lbs.
955W	3′x 8′	72 lbs.	963W	4′x10′	120 lbs.
956W	3′x10′	90 lbs.	964W	4′x12′	144 lbs.
957W	3′x12′	108 lbs.			

STYLE A Aluminum Frames

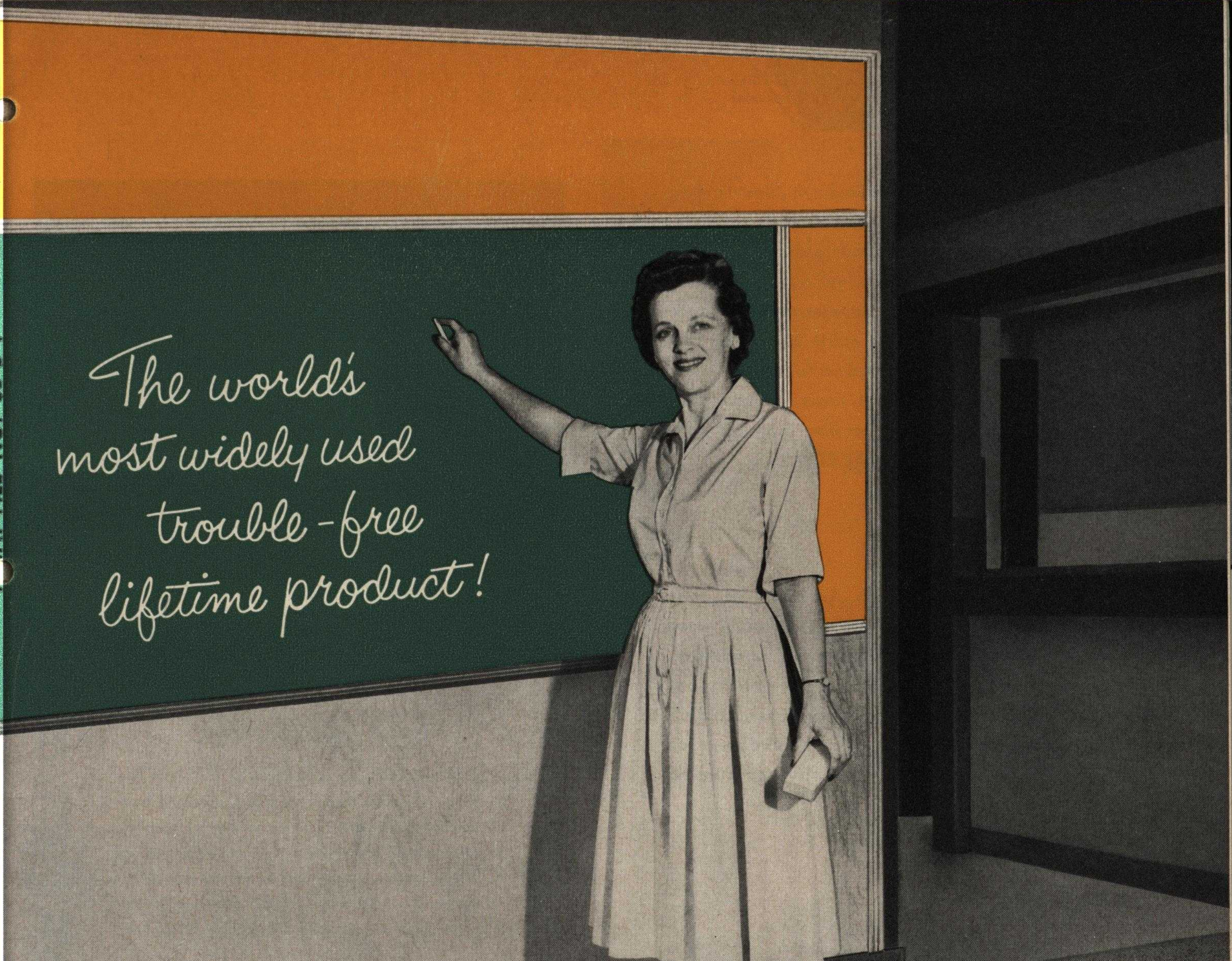
No.	Size	Approx. Wt.
950A	18x24 in.	8 lbs.
951A	24x36 in.	15 lbs.
952A	36x48 in.	30 lbs.
953A	3x5 ft.	37 lbs.
954A	3x6 ft.	54 lbs.
955A	3x8 ft.	72 lbs.
958A	4x4 ft.	48 lbs.
959A	4x5 ft.	60 lbs.
960A	4x6 ft.	72 lbs.
962A	4x8 ft.	96 lbs.

Claridge reserves the right to change specifications or add improvements without notice or obligation.

Claridge PRODUCTS & EQUIPMENT, INCORPORATED
MANUFACTURERS
HARRISON, ARKANSAS

A.I.A.-35-B-11

PRINTED IN U. S. A.


The world's
most widely used
trouble-free
lifetime product!

A.I.A. FILE NO. 35-B-1

Vitro board®

PORCELAIN STEEL CHALKBOARDS

- aluminum trim
- display cases
- cork tackboards

**REVOLVING,
REVERSIBLE,
VERTICAL &
HORIZONTAL SLIDING
CHALKBOARDS**

Benjamin

*Distributors located
in all principal cities
in U.S.A. and Canada*

EDUCATIONAL EQUIPMENT COMPANY
CHALKBOARD AND TRIM COMPANY
11311 BUCKEYE RD. · CLEVELAND 4, OHIO

BENJAMIN ELECTRIC MFG. CO.
SUBSIDIARY OF THOMAS IND.

VITRO-BOARDS are made by Benjamin Electric Mfg. Co. of Des Plaines, Ill., a subsidiary of Thomas Industries—a large, well-capitalized, responsible organization, for over 50 years a leader in the advancement of better lighting and visual aids. Their development in chalkboards exemplifies a pioneering spirit, by furtherance of better seeing and visual instruction for students and teachers. Benjamin has the latest, most modern facilities required for the special processing methods used in the manufacture of VITRO STEEL BOARDS.

From coast to coast, from South America, Panama, Hawaii and Canada. The world's most widely used trouble-free chalkboard under all climatic conditions. Its development and research, as is our policy, was done in our own laboratories and not at the public's expense. Its quality excels all other chalkboards on the market. The integrity of the company and guarantee is equaled by none.

View of Benjamin Electric's laboratory which was the subject of a feature article in August, 1946, FINISH, entitled "We Built a Laboratory to Meet Our Needs." Our chalkboards are thoroughly tested and perfected in this laboratory to give the ultimate user a trouble-free product.

Guarantee

VITRO-BOARDS are guaranteed for the life of the building in which they are installed, providing their installation is in strict accordance with the distributor's written specifications and recommendations. This guarantee extends only to the replacement of the panel installed in the original building and does not include the cost of removal or reinstallation.

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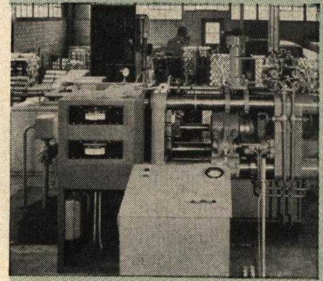
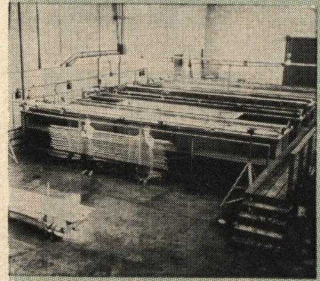
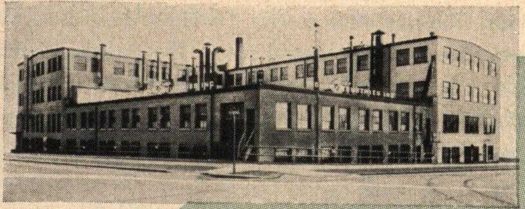
Details of Aluminum Framings	12-15 Inc.



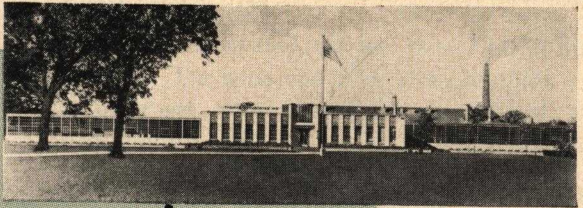
Two extrusion presses, 1250 ton and 530 ton, automatic puller, walking cooling table, heat treating and shipping facilities. We are one of the most completely equipped extruders in the chalkboard trim business.



Prompt delivery on your anodizing requirements. Satin, bright and color finishes to Alcoa Standards.



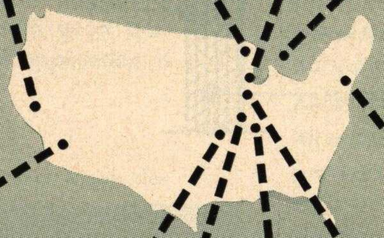
Sheboygan, Wisconsin



Fort Atkinson, Wisconsin

Burlingame, California

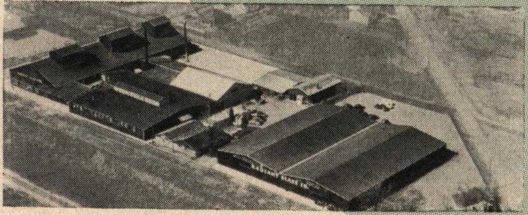
Toronto, Canada



THOMAS INDUSTRIES INC.
TED R. COOPER CO. INC. CONSTRUCTION ENGINEERS

Los Angeles, California

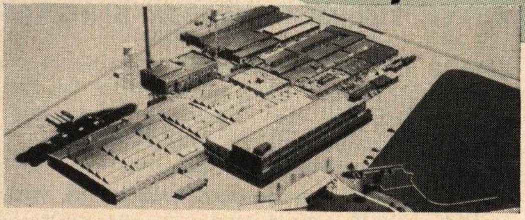
Brooklyn, New York



Fort Smith, Arkansas

THOMAS INDUSTRIES, INC.

Louisville, Kentucky



Des Plaines, Illinois

Hopkinsville, Kentucky

THOMAS INDUSTRIES INC. . . the wide range of our expanding line of products is unique in all America

Benjamin Chalkboards
Benjamin Audible Signals
Wright Power Blade Saws
Sprayit Paint Spraying Equipment
Ideal Bathroom Cabinets
Radiant Blown Glass
Contract Sales Division
Export Sales Division

RESIDENTIAL

Moe Light—for the discriminating home owner

Star Light—high in style, low in price

Enchante—lighting fixture originals

California Series—California inspired

COMMERCIAL

Benjamin—for schools, stores, offices and industrial lighting

Moe Light—inspiration lighting

Enchante—for smartest shops and clubs

California Series—for western decorating

CONTRACT

Moe Light

Benjamin

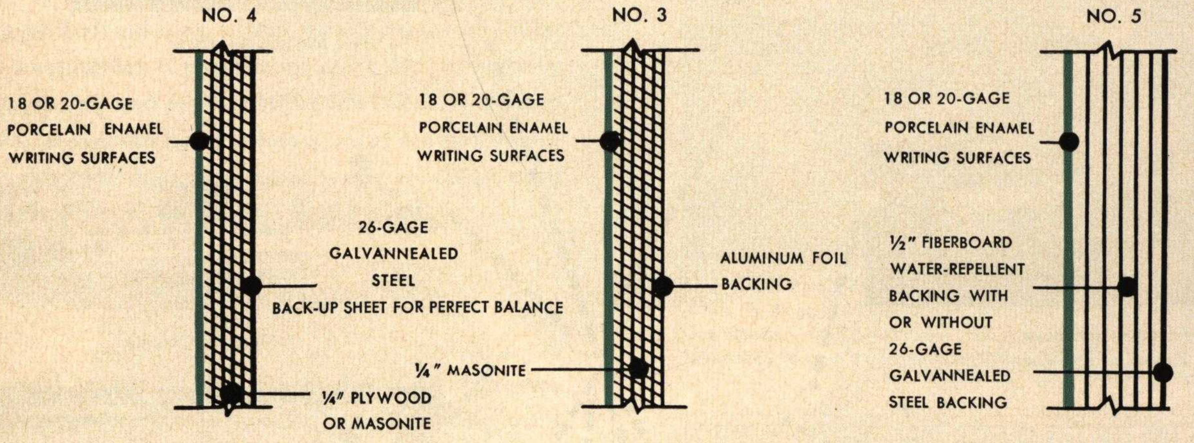
EXPORT

Moe Light

Benjamin

VITRO-BOARD
porcenell
porcelain steel chalkboard

VITRO-BOARD is made of an abrasive porcelain material fused into steel and containing highly improved, acid-resistant qualities. The porcelain covers the entire board, forming an unbreakable, moisture-proof seal. The individual particles that make up this surface make possible a stronger, harder, smoother, suede-like finish of extreme evenness. It is superior to any other chalkboard and will last a lifetime.


NO. 4
18 OR 20-GAGE PORCELAIN ENAMEL WRITING SURFACES
26-GAGE GALVANNEALED STEEL BACK-UP SHEET FOR PERFECT BALANCE
¼" PLYWOOD OR MASONITE
NO. 3
18 OR 20-GAGE PORCELAIN ENAMEL WRITING SURFACES
ALUMINUM FOIL BACKING
¼" MASONITE
NO. 5
18 OR 20-GAGE PORCELAIN ENAMEL WRITING SURFACES
½" FIBERBOARD WATER-REPELLENT BACKING WITH OR WITHOUT
26-GAGE GALVANNEALED STEEL BACKING

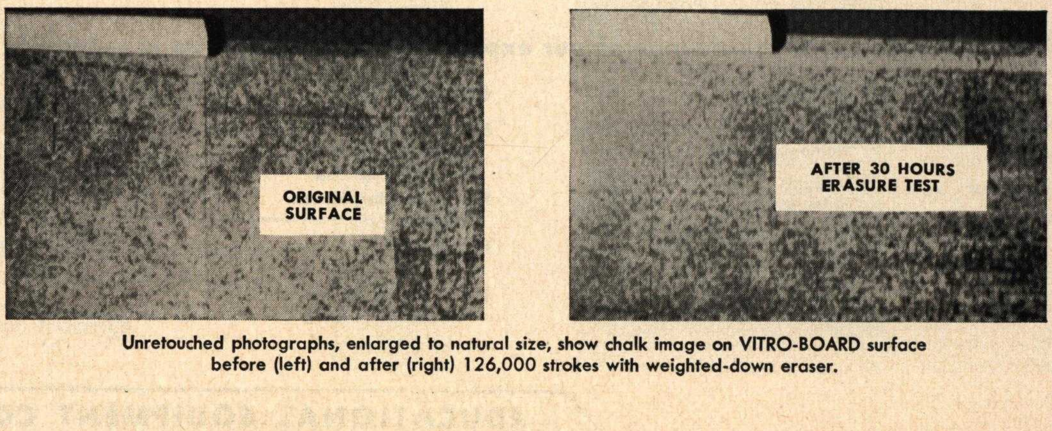
SELECTED STEEL 20 gage is the most economical value in Benjamin chalkboards. Most other products made at Benjamin use 20-gage steel, since all chalkboard steel sheets cannot be used for a perfect writing surface; the choice sheets of steel are selected to be made into chalkboards. The others are channeled into smaller items where visual inspection is not as critical.

sizes in inches

18 OR 20 GAGE LIST OF COLORS	heights	lengths
medium green dark green black white gunmetal gray blue tan	36 42 48	48 60 72 84 90 96 108 120 132 144

LABORATORY TEST PROVES:
NO TEXTURE CHANGE IN VITRO-BOARD AFTER 126,000 ERASER-STROKES!

In this test, conducted by an independent commercial testing laboratory, a standard chalkboard eraser was used. It was weighted down with a seven-pound weight, and loaded with precipitated calcium carbonate (ground-up chalk). This eraser was then drawn across the Vitro-Board surface 126,000 times at a rate of 35 cycles, or 70 strokes, per minute. This is the equivalent of 30 hours of continuous chalking and erasing. To show any change in the quality of the Vitro-Board writing surface after this test, the board was cleaned, and then a piece of chalk, laid lengthwise, was drawn across both the tested and original surface. As illustrated by the "before and after" photographs below, practically no change in texture or ability to pick up chalk could be noted.


ORIGINAL SURFACE
AFTER 30 HOURS ERASURE TEST

Unretouched photographs, enlarged to natural size, show chalk image on VITRO-BOARD surface before (left) and after (right) 126,000 strokes with weighted-down eraser.

specifications

I. general

Vitro-Board Porcelain Steel Chalkboards as manufactured by Benjamin Electric, a subsidiary of Thomas Industries. The chalkboard sheets shall meet all the requirements of the Porcelain Enamel Chalkboard specifications (P.E.I.) S-104, August, 1956.

II. porcelain on steel face sheet

A. Metal

The metal of the face sheet shall be 18-, or 20-gage (select gage) steel suitable for the performance requirements as specified herein, and thoroughly cleaned and pickled in accordance with good porcelain enameling shop practice before application of the coatings.

B. Porcelain Enamel

The finish or coating shall be porcelain enamel, defined substantially as a vitreous inorganic coating bonded to the metal in accordance with P.E.I. Code.

C. Ground Coat

The ground coat shall be applied to cover all areas of each unit on the face side. Ground coat shall be fired separately before the finish coats are applied.

D. Finish Coat

Finish coat shall be a matte porcelain enamel, defined as a vitreous inorganic material bonded to the ground coat, with a uniform surface texture. The hardness as measured by the Moh hardness scale shall not be less than 7. Without specular glare or reflection. The gloss variation, when measured by a 45-degree photovolt gloss meter, shall not exceed 3 units. The surface shall resist wear, abrasion, shock and scratches, and shall not crack, craze or lose its color, warp, buckle or delaminate during the period of guarantee. The gloss shall not increase by more than three (3) units when subjected to the wearability test of thirty (30) hours (126,000 strokes) specified under "Test Procedures", Paragraph 7 of the P.E.I. Chalkboard Specification, P.E.I. S-104.

The total reflection factor shall be within the range of 15 percent to 20 percent, as recommended by the A.I.A. Bulletin 31-F28.

III. core material

3. Core material ¼″ masonite with aluminum foil back.
4. Core material ¼″ exterior plywood with 26-gage galvanized steel back.
5. Core material special ½″ fiberboard with approved water-repellent back.

IV. lamination

Pressure laminated not less than 72,000 lbs. per 1 sq. ft. The bond and sheer strength of the adhesive, when set, shall exceed the strength of the core material.

V. lengths

All chalkboards 12 ft. or under shall be in one piece. The laminated panel shall be flat within 3/16″ along a line 8′0″ when the panel is laid horizontally on a flat surface.

VI. aluminum "clip-on" trim

Furnish and install complete (as per details) aluminum trim, chalk trough, map and display rail, etc., for all chalkboards, display and bulletin boards on walls, wardrobes, etc., in all classrooms, special rooms, corridors, offices, etc., where indicated on drawings.

All aluminum metal trim shall be dull alumilite finish.

All aluminum for trim shall be extruded shapes of approved sections and of thickness as indicated on drawings. All trim and chalk troughs shall be in single lengths, straight, true and free of defects. Up to 24′ in one length.

Sliding map hooks, clips and map winders for map and display rail, and flag holders shall be furnished as specified (specify quantities).

VII. grounds

Furnish and erect continuous tempered aluminum grounds, straight and true, blocked out with shims for proper alignment so face of ground becomes finish plaster line, securely fastened at intervals not over 12 in. on centers under chalkboards and not over 16 in. elsewhere. Where partition walls are to be unplastered, grounds shall be installed in such a manner as to receive extended trim for unplastered walls.

VIII. clips

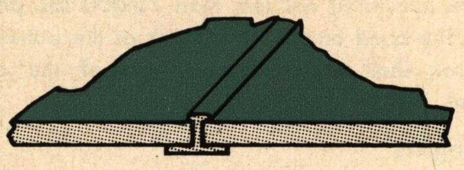
Trim and chalk trough clips, of approved sizes, thicknesses and spacings, shall be of tempered steel plate formed to receive clip-on trim and to lap edges of chalkboard not less than ¼ in. Clips are to be placed adjacent to all joints and adjacent to all corners at horizontal and vertical sections and at intermediate points not over 16 in. on centers. All mitered corners must have corner plates inside the trim to hold a perfect 45° miter indefinitely.

After chalkboards and corkboards have been installed, aluminum trim shall be completed by erecting all chalk troughs and trim. All work under this heading shall be erected by carpenters or under supervision of the manufacturer of trim.

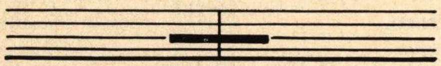
All above grounds and trim shall be "clip-on" all-metal trim as manufactured by Educational Equipment Company.

SUPERITE
composition chalkboard

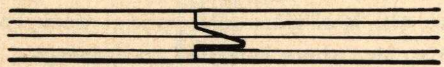
COLORS: Standard Green
Dark Green
Black
Gunmetal Gray
Charcoal Gray
Blue
Tan



½" and ¼" composition with joint strip



½" composition with steel spline



½" self-leveling tongue and groove joint

Superite Cement Asbestos Chalkboard, strong, rigid panel 3/16" and ¼" thick. Alkali-Proof Color Pigment, Silicon Carbide Abrasive. Chemically treated to withstand drastic climatic changes. Surface will not shatter. Available in lengths up to 10′, widths 3½ and 4′.

Superite composition chalkboard is composed of a plastic, containing fine, uniformly suspended silicon carbide, evenly applied to the specified thickness and baked on to provide a smooth, even finish. The tempered hardboard base panels are made from selected shredded hardwood fibers, integrally waterproofed to resist moisture, and fabricated under hydraulic pressure.

The writing surface, which is free from specular glare or reflection, is hard and will resist wear and breakthrough from chalk abrasion. Repeated washing will not harm this wear-resistant writing surface.

Superite colors are standard green and dark green, in eye-saving shades that give excellent visibility and contrast. Other colors are available on special orders.

Superite in ½" thickness is fabricated with two ¼" layers of tempered fiber hardboard. The writing surface is .012" to .014" thick. Superite is also available in single ¼" thickness, which requires our standard metal trim for writing joints.

Sizes use the same detail as Steel chalkboard shown on pages 12, 13, 14 and 15.

specifications

no.	type	description	thickness	width	length	weight per sq. ft.
#1	Standard Structo-Board	U.S. Gypsum Structo-Board, wood fiber body with durable chalkboard surface.	¼"	3′0" 3′6" 4′0"	12′0"	.8 lb.
#2	Tempered Structo-Board	U.S. Gypsum Structo-Board, wood fiber body specially treated with tempering oil, polymerized by baking to increase hardness and reduce moisture absorption.	¼"	3′0" 3′6" 4′0"	12′0"	1.0 lb.
#3	Standard Structo-Board	Composed of two sheets ¼" Standard Structo-Board laminated under pressure. Available with tongue and groove joints or H Bars.	½"	3′0" 3′6" 4′0"	12′0"	1.6 lbs.
#4	Tempered Structo-Board	Composed of two sheets ¼" Tempered Structo-Board laminated under pressure. Tongue and groove joints or H Bars.	½"	3′0" 3′6" 4′0"	12′0"	2.0 lbs.
#5	Presdwood	Chalkboard body composed of Masonite standard Presdwood panels with chalkboard surface.	¼"	3′0" 3′6" 4′0"	12′0"	1.5 lbs.
#6	Tempered Presdwood	Masonite Tempered-Presdwood Panels are manufactured with special tempering liquid that is polymerized by baking. This process reduces rate of moisture absorption and increases resistance to abrasion seven times.	¼"	3′0" 3′6" 4′0"	12′0"	1.6 lbs.
#7	Tempered Presdwood	Two sheets of ¼" Tempered Presdwood are laminated under pressure to form extremely strong, rigid and waterproof panels. Tongue and groove joints or H Bars.	½"	3′0" 3′6" 4′0"	12′0"	3.2 lbs.
#8	Cement Asbestos	Chalkboard base is a cement asbestos fireproof panel with an extremely small expansion rate.	3/16"	3′0" 3′6" 4′0"	10′0"	1.8 lbs.
#9	Cement Asbestos	To prevent alkalies in body of chalkboard from attacking surface, a sealing process is used.	¼"	3′0" 3′6" 4′0"	10′0"	2 lbs.

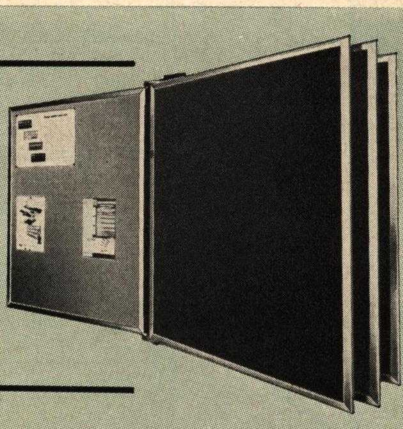
CORKBOARD

Educational Equipment Company furnishes the finest quality ¼″ cork reinforced with burlap backing, in standard range of colors.

Cork installations can be made to suit any requirement in combination with Vitro-Board and Superite Chalkboards as shown on details. Cork also makes an excellent bulletin board when cemented to smooth plaster, masonite or other wall surfaces.

Corkboard can be furnished in roll lots 4′ or 6′ wide in lengths up to 90′.

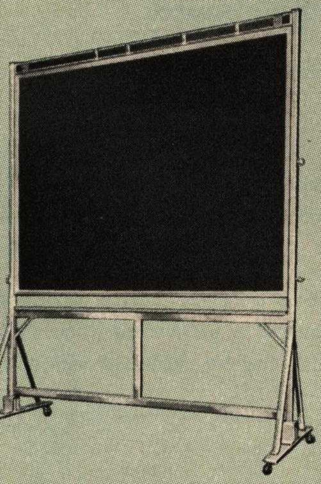
swinging leaf board



Panels swing 180°. Available in combinations of chalkboards, tackboards and movie screens. Fabricated in units of 2 to 6 leaves. All exposed parts around chalkboards are of anodized aluminum.

SIZES: 36″ x 36″ 42″ x 42″
36″ x 42″ 42″ x 48″
36″ x 48″ 48″ x 48″

revolving roll-a-way chalkboard



porcelain steel chalkboards — 1. Porcelain steel chalkboard—surfaced on both sides. **2.** Porcelain steel chalkboard—surfaced on one side and tackboard on the back.

movie screen — 1. Ivory porcelain steel chalkboard —surfaced on one side and standard porcelain steel chalkboard on back. **2.** Ivory porcelain steel chalkboard—surfaced on one side and tackboard on the back.

frame—All anodized extruded aluminum—dull satin finish or painted.

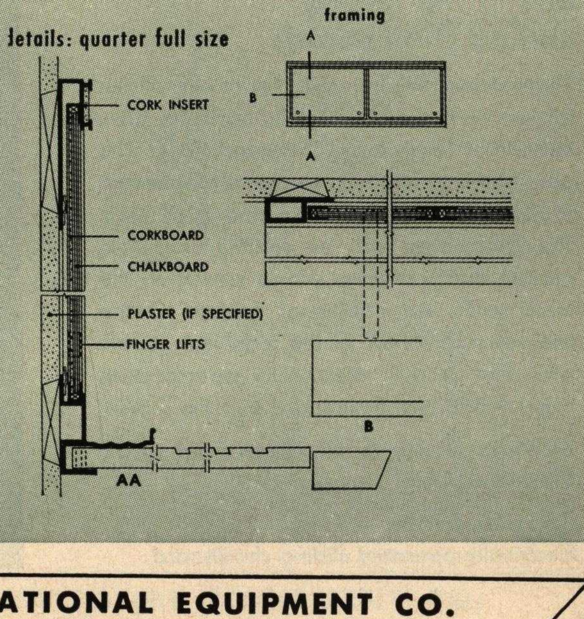
ball-bearing centers — Pivoted on two center points so that either side may be used without necessity of moving entire stand.

SIZES: 42″ x 60″ 48″ x 72″ 42″ x 96″
48″ x 60″ 42″ x 84″ 48″ x 96″
42″ x 72″ 48″ x 84″ or any other special size

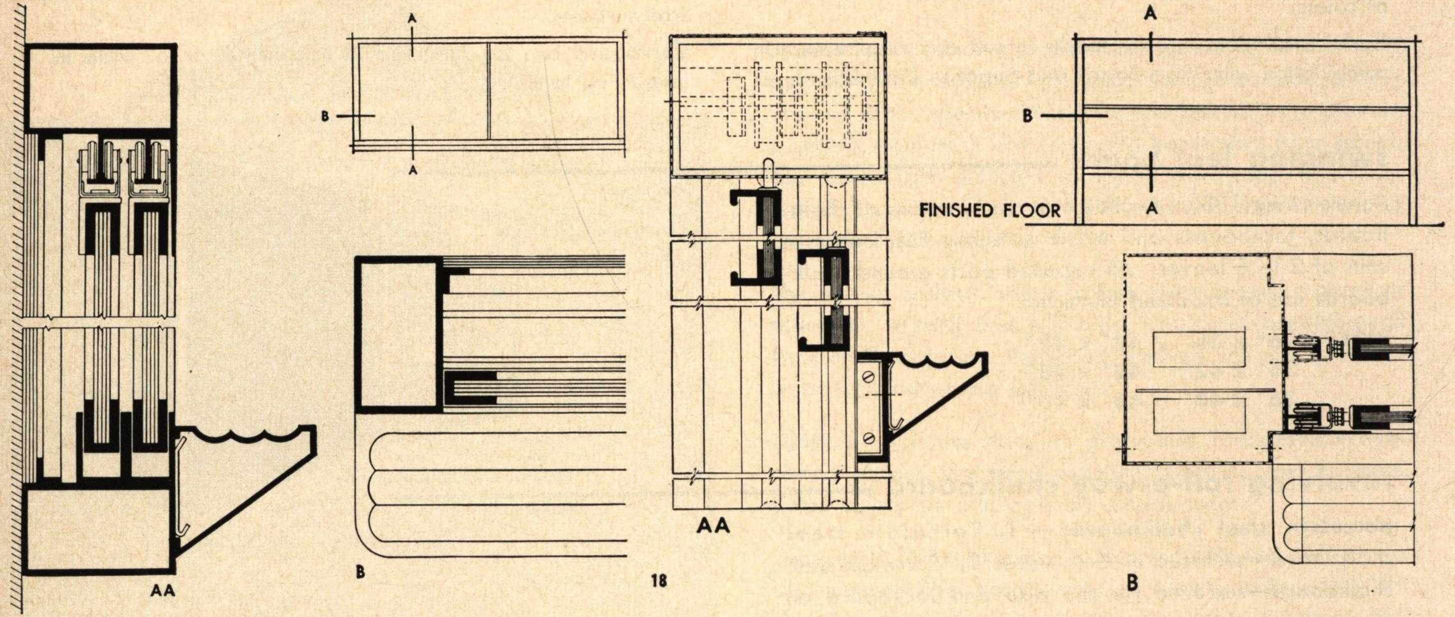
reversible easel chalk and tackboard combination

Multi-purpose reversible boards shall be made of extruded aluminum anodized framing, with map and display rail head section. Bottom chalk tray section shall be equipped as detailed and provided with arm brackets of aluminum and notched for three different positions. Removable paint trays shall be attached to the arms. The arm brackets are to pivot into a concealed position beneath the chalk tray when not in use.

SIZES: 36″ x 36″ 36″ x 48″
36″ x 42″ 42″ x 48″
42″ x 42″ 48″ x 48″



details: half full size



sliding chalkboard

Either horizontal or vertical sliding chalkboards can be furnished.

Horizontal: Horizontal sliding chalkboards are made of anodized tubular aluminum framing. Aluminum frames and aluminum tracks have ball-bearing nylon rollers. Ease of operation is assured by modern overhead-type hardware.

Either chalkboard or tackboard sliding panels may be used. Fixed chalkboard or tackboard panel behind the sliding panels is optional. It may be replaced with a projection screen.

Vitro-Board porcelain steel chalkboards are used for standard construction.

Vertical: Vertical chalkboards are manually operated and counterbalanced. They are constructed of aluminum or steel casing and use reinforced extruded chalkboard frames and tracks. Chalkboards are attached to the counterbalancing lead weights with a sprocket chain passing over ball-bearing sheaves. Chalkboard panels are operated independently of each other. The wall behind the chalkboard can be used for a projection screen when all leaves are in the lowered position.

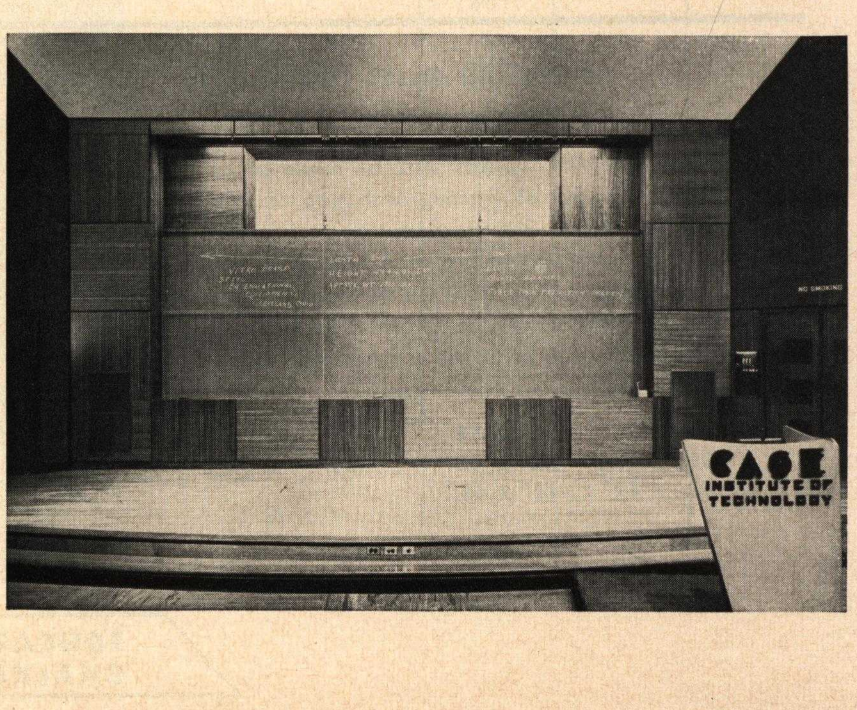
Maximum recommended size of individual panels is 12′ x 4′. Where larger panels are required, electrically operated units are recommended. Information on Electrical Sliding Chalkboard furnished upon request.

one of the largest sliding chalkboards

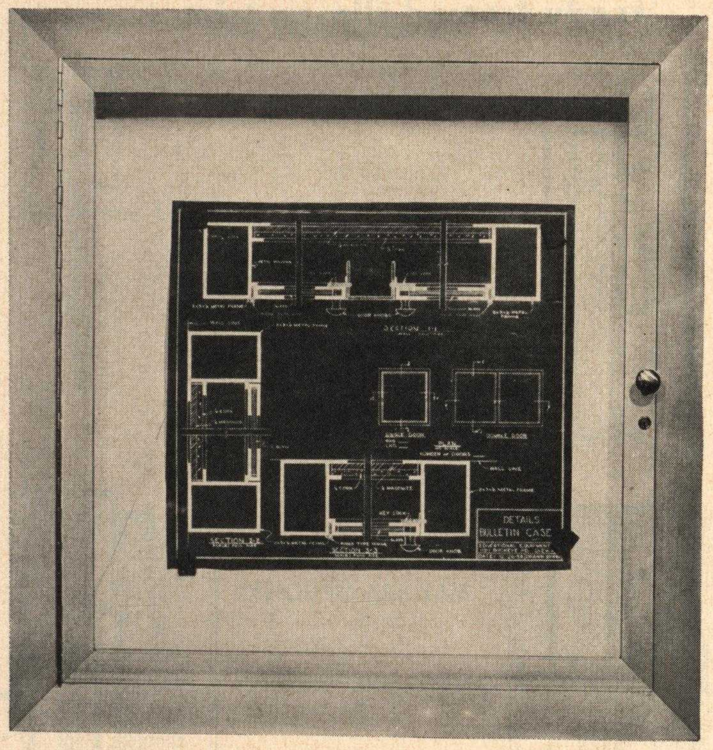
Photo shows recent installation of one of our largest Vertical Sliding Chalkboards for Case Institute of Technology, Cleveland, Ohio. This push-button controlled, electrically operated chalkboard is 24 feet long and 8′-0″ high. The chalkboard can be readily raised to expose the permanent movie screen on the back wall. An additional feature of this unusual installation is the paneled curtain wall that is also electrically operated to conceal both the chalkboard and the screen.

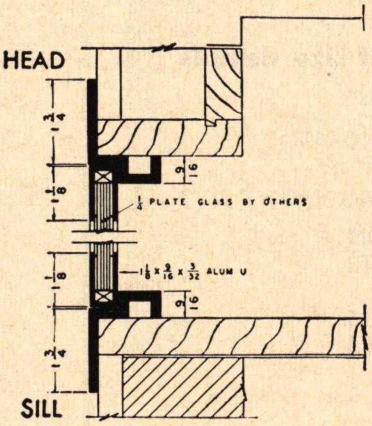
Architect: Small, Smith, Reeb and Draz, Cleveland, Ohio.

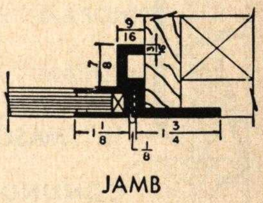
Cornell University
Electrically operated sliding chalkboard

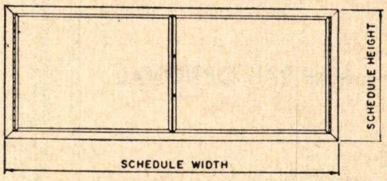


bulletin and display cases


DETAILS
BULLETIN CASE


HEAD
1 3/4
1 1/8
9/16
1/4 PLATE GLASS BY OTHERS
1 1/8 x 9/16 x 3/32 ALUM U
1 1/8
9/16
1 3/4
SILL


9/16
7/8
1 1/8
1 3/4
1/8
JAMB


SCHEDULE HEIGHT
SCHEDULE WIDTH

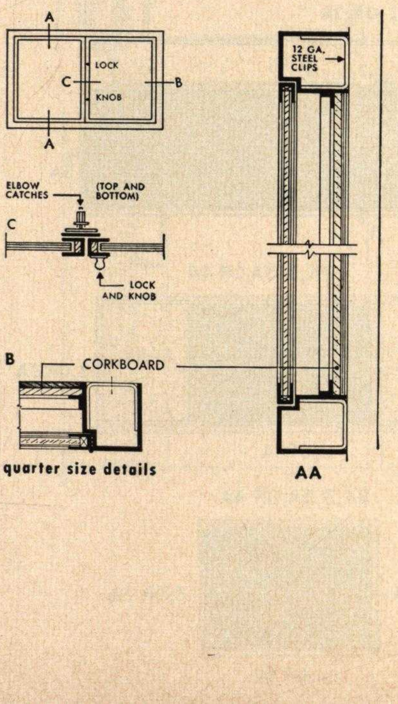
bulletin board cases — trophy cases

Bulletin Board Cases: Educational Equipment Co. bulletin board cases may be installed on either plastered or unplastered walls. They provide an excellent method for posting bulletins in offices, corridors or lobbies.

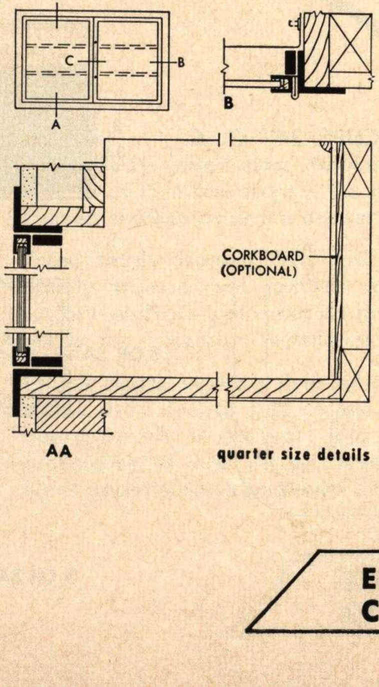
Frames and door panels are constructed of anodized extruded aluminum. Hardware is solid brass with chromium plating. Cases feature a hinged glass door construction. It is recommended that glass be installed on the job by the glazing contractor.

Trophy Cases: Educational Equipment Co. trophy cases are unexcelled for displaying exhibits, artwork or trophies. They are recessed-type cases, and have frames and door panels constructed of anodized extruded aluminum. Door panels are of hinged construction and have locks provided. Hardware is solid brass with chromium plating except on sliding glass doors. See details.

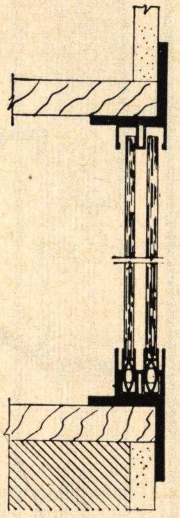
Glazing of doors, glass shelves with brackets should be furnished by the glazing and hardware contractors. Millwork should be furnished under millwork specifications.

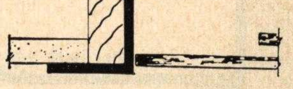

A
LOCK
KNOB
C
B
A
ELBOW CATCHES
(TOP AND BOTTOM)
C
LOCK AND KNOB
B
CORKBOARD
12 GA. STEEL CLIPS
AA

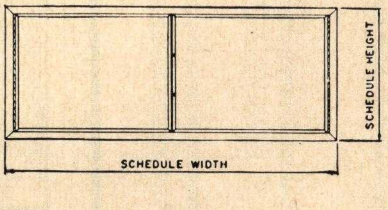
quarter size details


A
C
B
A
B
CORKBOARD (OPTIONAL)
AA

quarter size details

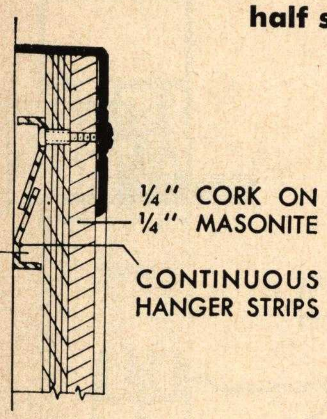


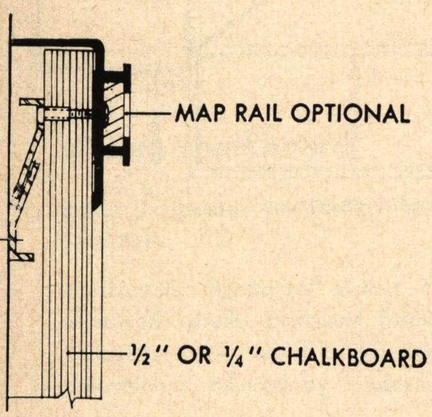


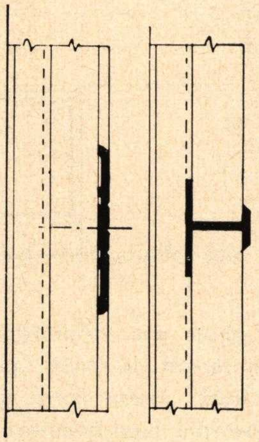

SCHEDULE HEIGHT
SCHEDULE WIDTH

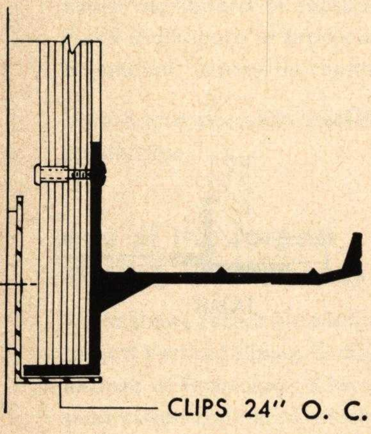
ready framed screw-on trim

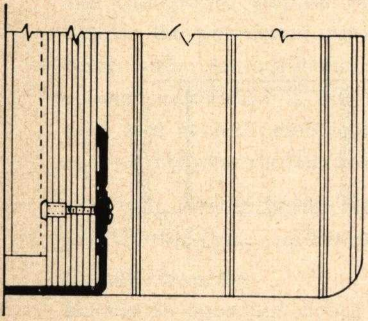
half size details


¼" CORK ON
¼" MASONITE
CONTINUOUS
HANGER STRIPS

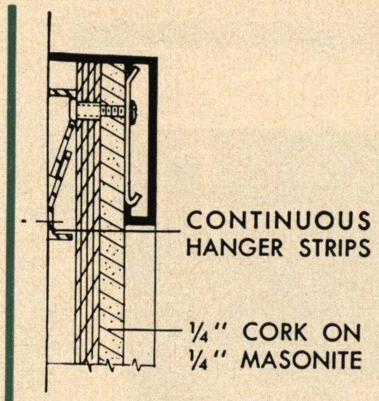

MAP RAIL OPTIONAL
½" OR ¼" CHALKBOARD

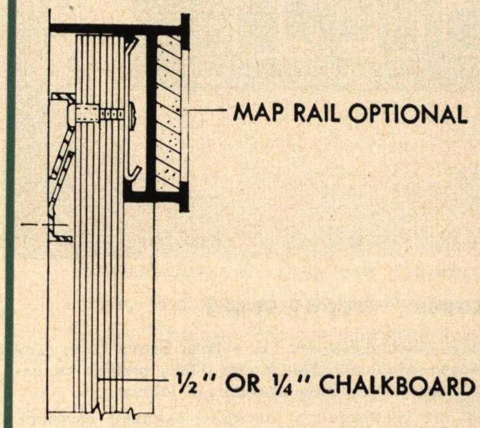


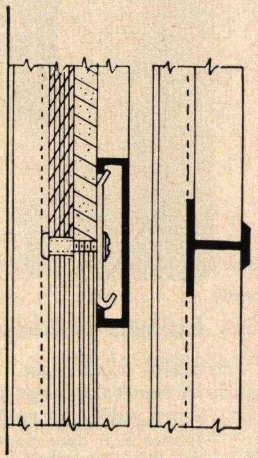


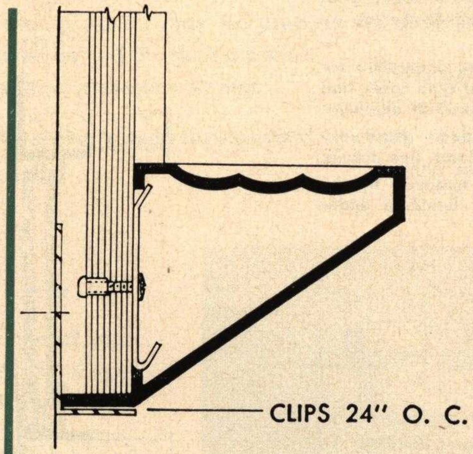


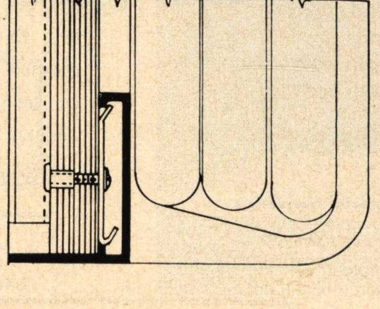
ready framed clip-on trim

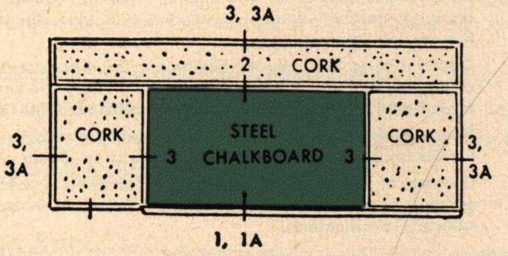

CONTINUOUS
HANGER STRIPS
¼" CORK ON
¼" MASONITE

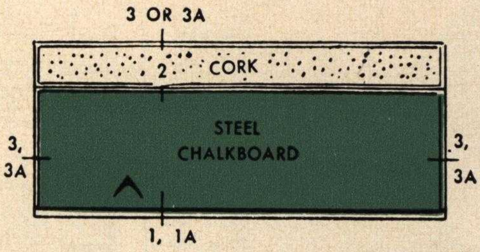

MAP RAIL OPTIONAL
½" OR ¼" CHALKBOARD

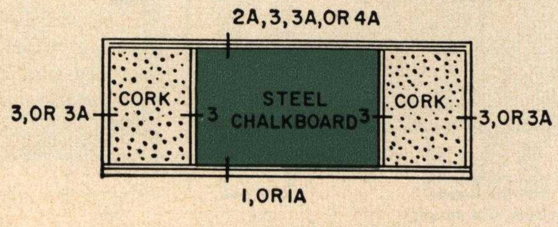


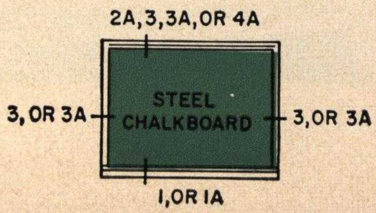





3, 3A
2
CORK
CORK
STEEL
CHALKBOARD
CORK
3,
3A
3
3
3,
3A
1, 1A

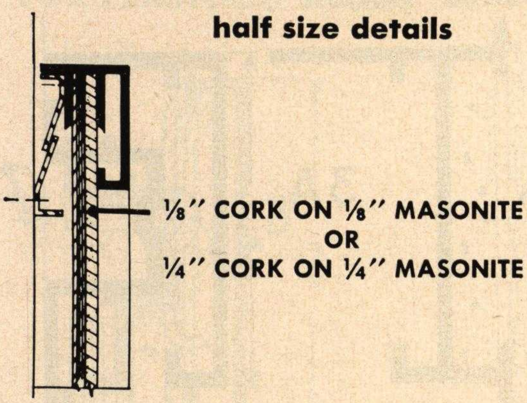

3 OR 3A
2
CORK
STEEL
CHALKBOARD
3,
3A
3,
3A
1, 1A

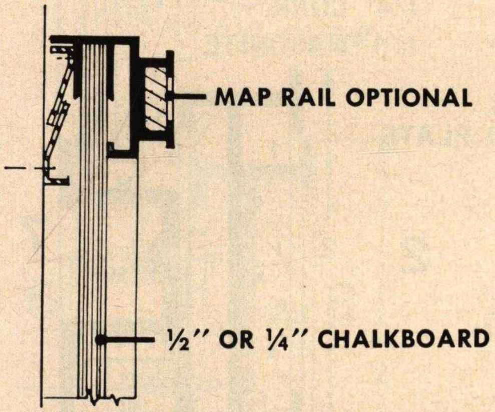

2A, 3, 3A, OR 4A
3, OR 3A
CORK
3
STEEL
CHALKBOARD
3
CORK
3, OR 3A
1, OR 1A

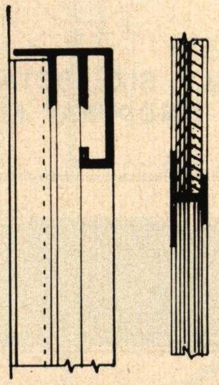

2A, 3, 3A, OR 4A
3, OR 3A
STEEL
CHALKBOARD
3, OR 3A
1, OR 1A

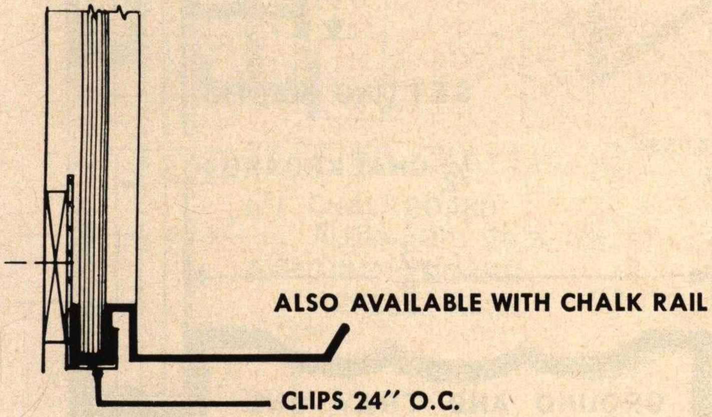
ready framed narrow line trim

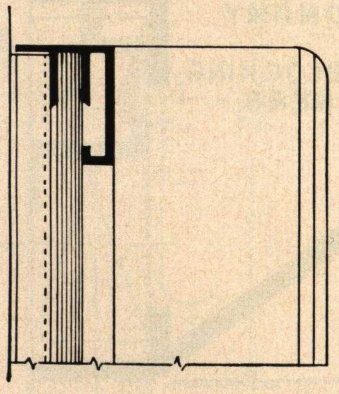
half size details


⅛″ CORK ON ⅛″ MASONITE
OR
¼″ CORK ON ¼″ MASONITE


MAP RAIL OPTIONAL
½″ OR ¼″ CHALKBOARD




ALSO AVAILABLE WITH CHALK RAIL
CLIPS 24″ O.C.

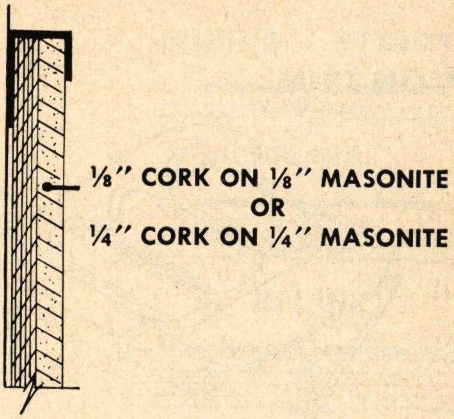


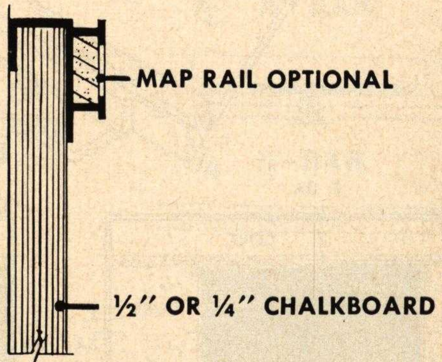
For speedy installations resulting in savings of time and money, the ready framed chalkboard is the answer.

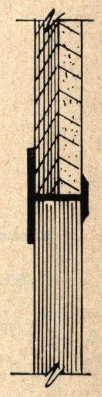
These ready framed units are completely framed and finished at the factory and are delivered to the job ready for immediate installation.

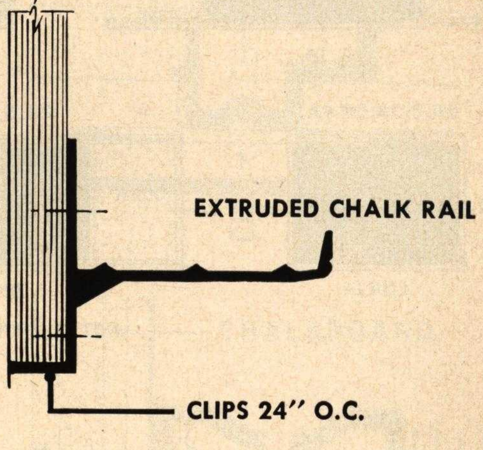
Submit sketch showing sizes of chalkboard area and/or side or top corkboard panels, if desired. Also state preference of one of the four trim types as detailed on pages 10 and 11.

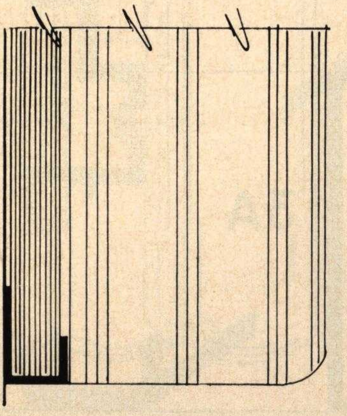
ready framed trim


⅛″ CORK ON ⅛″ MASONITE
OR
¼″ CORK ON ¼″ MASONITE

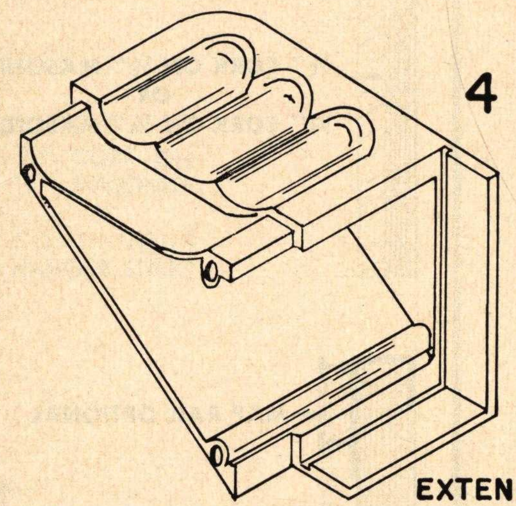

MAP RAIL OPTIONAL
½″ OR ¼″ CHALKBOARD



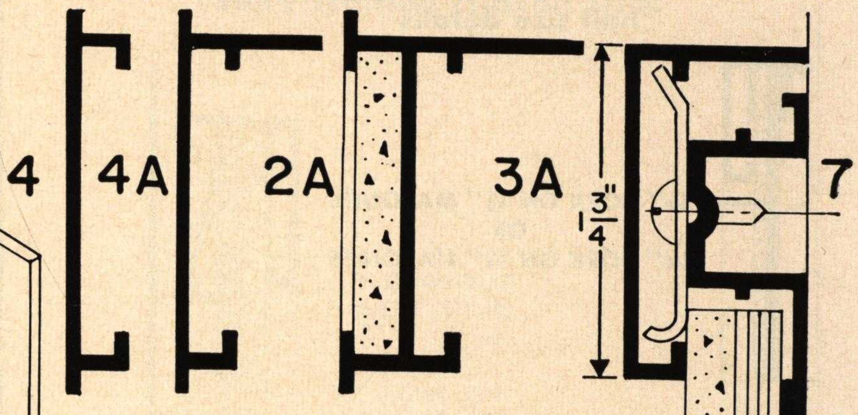

EXTRUDED CHALK RAIL
CLIPS 24″ O.C.

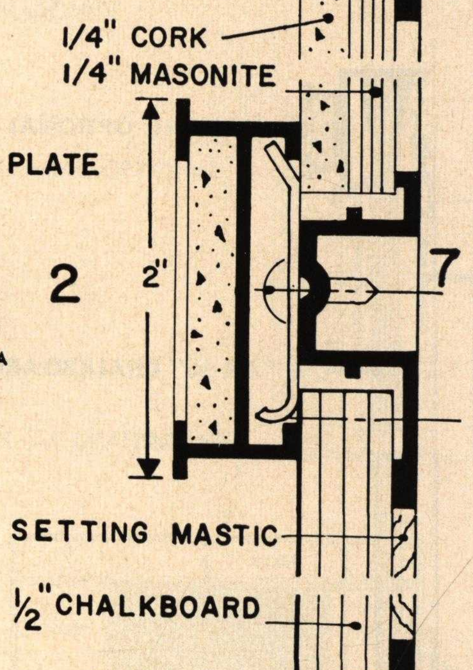


CLIP-ON TRIM

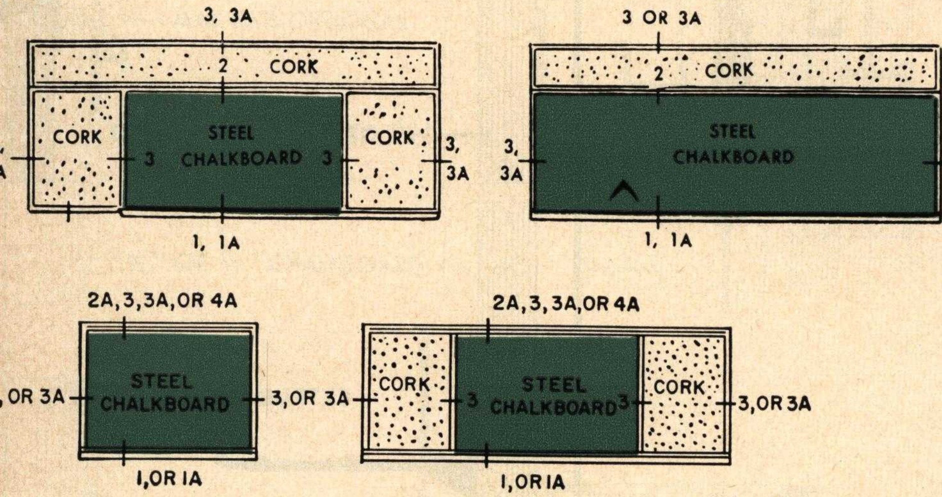


FOR UNPLASTERED WALLS

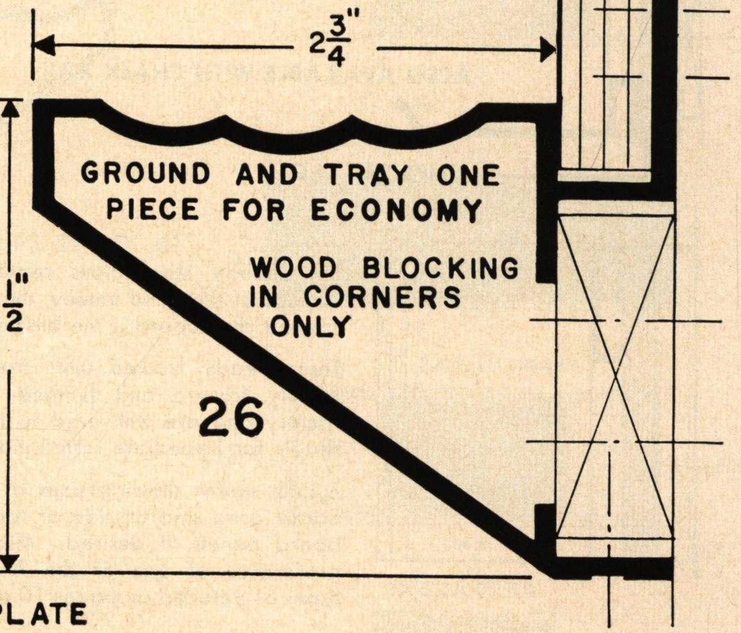

4
4A
2A
3A
1 3/4"
7

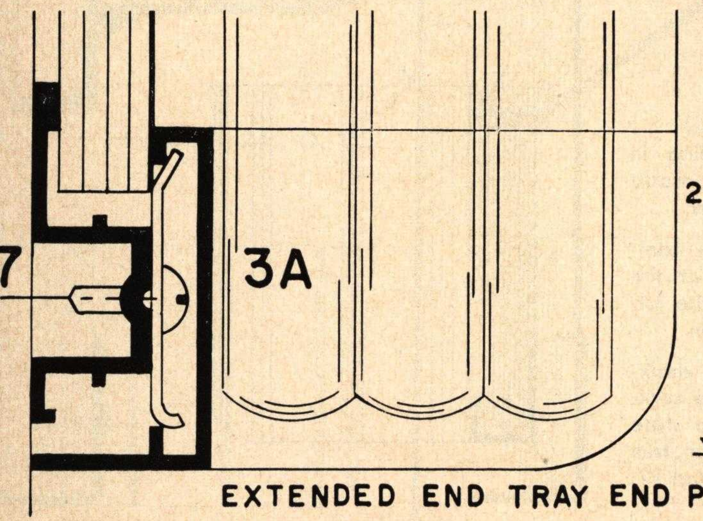

1/4" CORK
1/4" MASONITE
2
2"
7
SETTING MASTIC
1/2" CHALKBOARD

HALF SIZE DETAIL
EXTENDED END TRAY END PLATE


3, 3A
2
CORK
CORK
STEEL CHALKBOARD
CORK
3
3
3, 3A
1, 1A
3 OR 3A
2
CORK
STEEL CHALKBOARD
3, 3A
3, 3A
1, 1A
2A, 3, 3A, OR 4A
STEEL CHALKBOARD
OR 3A
3, OR 3A
1, OR 1A
2A, 3, 3A, OR 4A
CORK
3
STEEL CHALKBOARD
3
CORK
3, OR 3A
1, OR 1A

NOT TO TRUE SCALE


2 3/4"
2 1/2"
GROUND AND TRAY ONE PIECE FOR ECONOMY
WOOD BLOCKING IN CORNERS ONLY
26



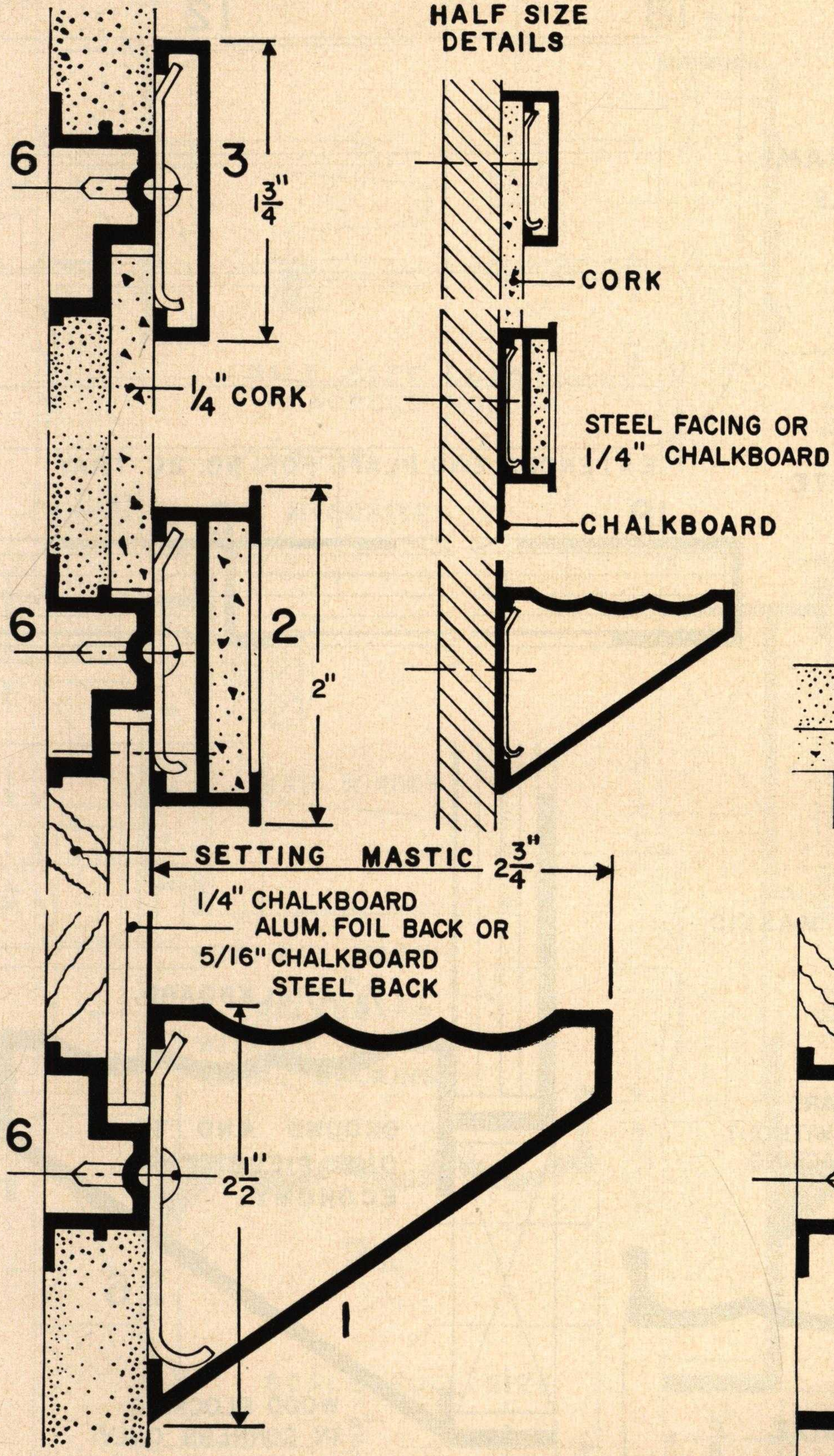
EXTENDED END TRAY END PLATE

SCALE-FULL SIZE

FOR PLASTERED WALLS

DIRECT TO WALL APPLICATION

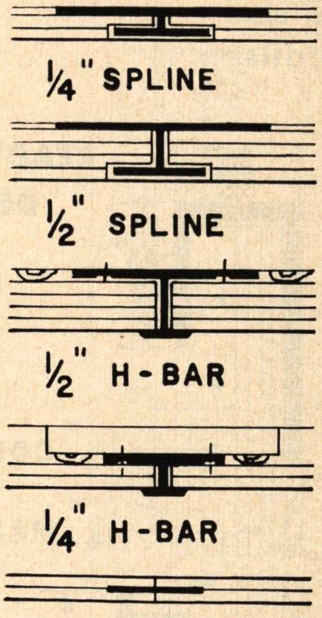
HALF SIZE DETAILS

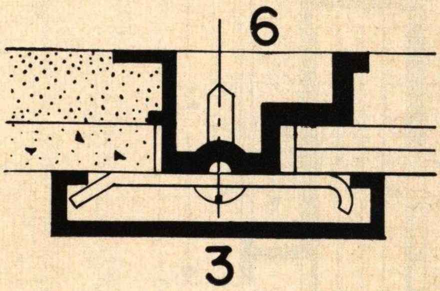

6
3
1¾"
¼" CORK
6
2
2"
SETTING MASTIC
2¾"
1/4" CHALKBOARD
ALUM. FOIL BACK OR
5/16" CHALKBOARD
STEEL BACK
6
2½"
1
CORK
STEEL FACING OR
1/4" CHALKBOARD
CHALKBOARD

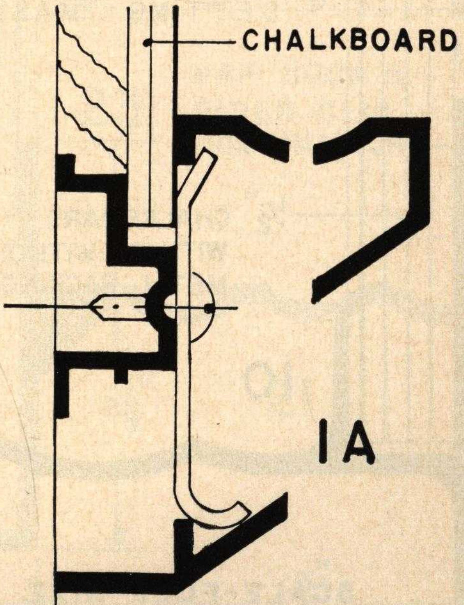
SCALE-FULL SIZE

HALF SIZE DETAILS

JOINING STRIPS


¼" SPLINE
½" SPLINE
½" H-BAR
¼" H-BAR
STEEL SPLINE

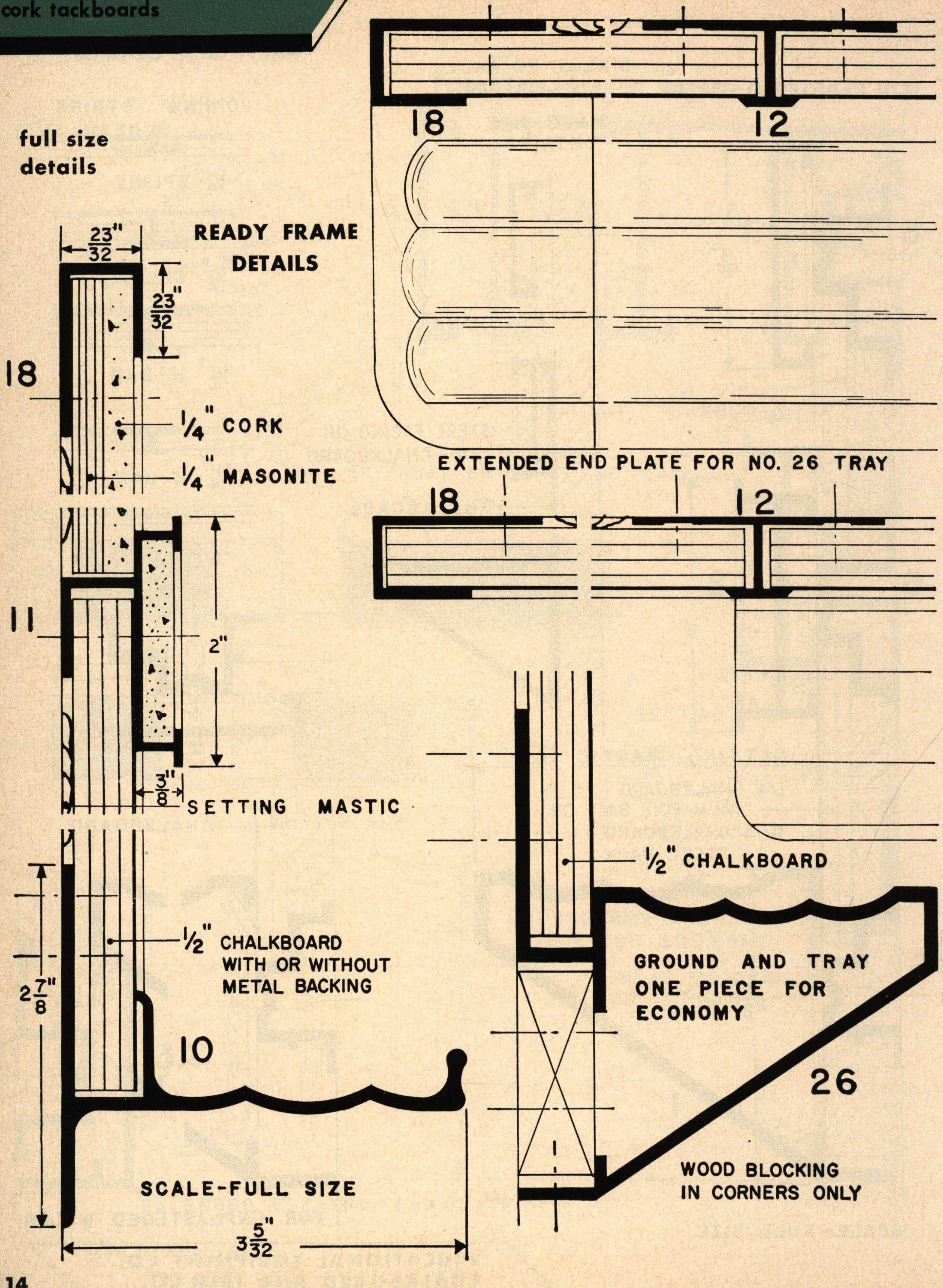



CHALKBOARD
1A

FOR UNPLASTERED WALLS

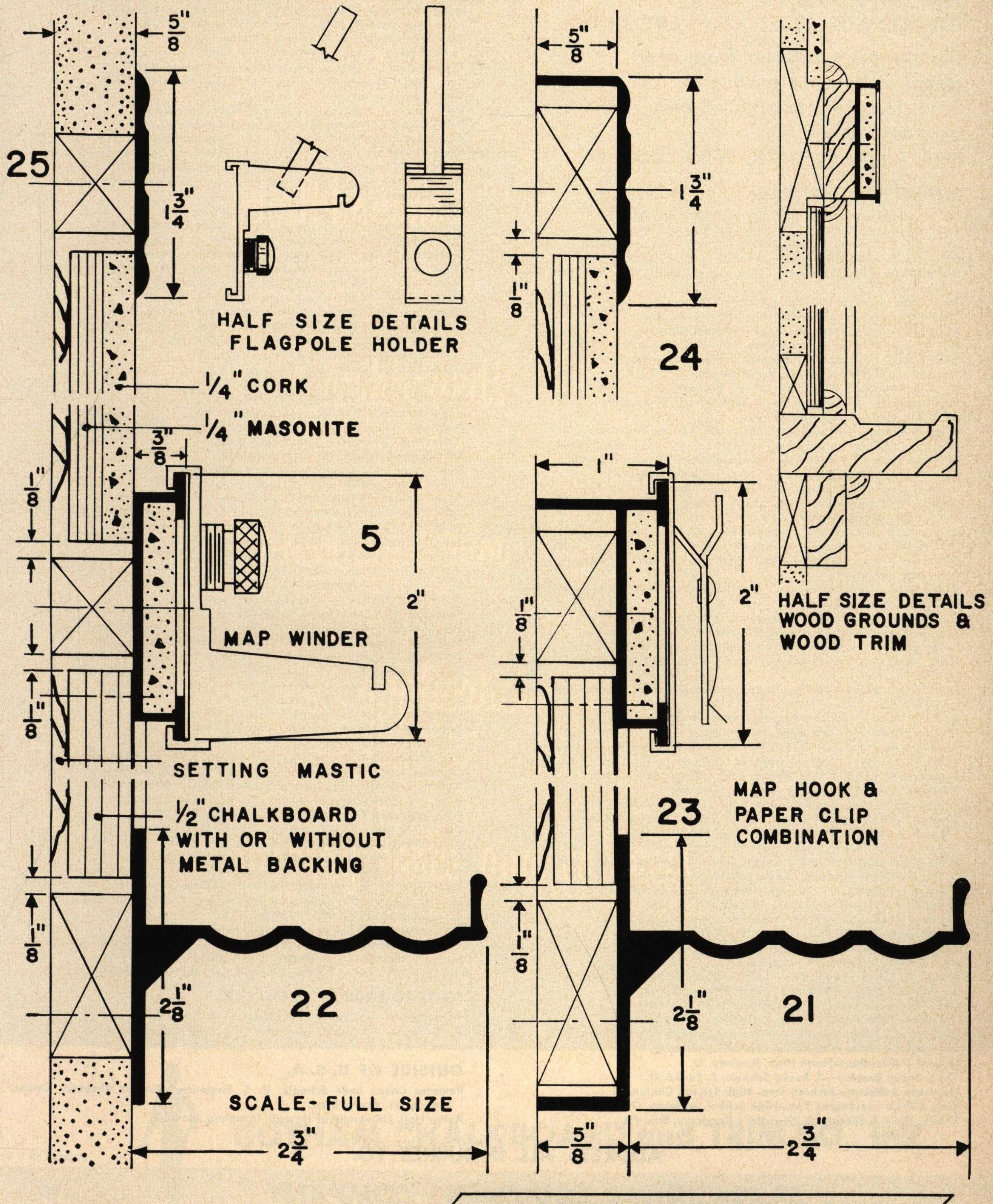
EDUCATIONAL EQUIPMENT CO.
CHALKBOARD AND TRIM CO.

full size details


READY FRAME DETAILS
23"/32
23"/32
18
¼" CORK
¼" MASONITE
11
2"
3"/8
SETTING MASTIC
2 7"/8
½" CHALKBOARD WITH OR WITHOUT METAL BACKING
10
SCALE-FULL SIZE
3 5"/32
18
12
EXTENDED END PLATE FOR NO. 26 TRAY
18
12
½" CHALKBOARD
GROUND AND TRAY ONE PIECE FOR ECONOMY
26
WOOD BLOCKING IN CORNERS ONLY

SCREW-ON TYPE ALUMINUM FRAMING
½" STEEL OR ¼" CHALKBOARDS & CORK TACKBOARDS

¼" WOOD GROUND DETAILS


5/8"
25
1 3/4"
HALF SIZE DETAILS
FLAGPOLE HOLDER
5/8"
1 3/4"
1/8"
24
1/4" CORK
1/4" MASONITE
3/8"
1/8"
5
MAP WINDER
2"
1/8"
SETTING MASTIC
1"
1/8"
2"
1/8"
HALF SIZE DETAILS
WOOD GROUNDS &
WOOD TRIM
MAP HOOK &
PAPER CLIP
COMBINATION
23
1/2" CHALKBOARD
WITH OR WITHOUT
METAL BACKING
1/8"
1/8"
2 1/8"
22
2 1/8"
21
SCALE-FULL SIZE
2 3/4"
5/8"
2 3/4"

EDUCATIONAL EQUIPMENT CO.
CHALKBOARD AND TRIM CO.

THE IMPROVED LIFETIME PORCELAIN STEEL CHALKBOARD

the complete product from raw metal to finished product manufactured, laminated and guaranteed by
BENJAMIN ELECTRIC MFG. CO.

typical installations

Jas. A. Britton—Greenfield High School, Greenfield, Mass.
W. Parker Dodge Assoc.—Jr. High School, East Greenbush, N. Y.
Alderman & MacNeish—Regional High School, Northboro, Mass.
Alderman & MacNeish—Regional High School, Wilbraham, Mass.
Walter M. Gaffney Associates—Elementary School, Otis Air Force Base, Falmouth, Mass.
M. A. Dyer Co.—Belvidere School, Lowell, Mass.
Bernhard Dirks—Elementary School, Turners Falls, Mass.
MacConnell & Walker—3 Elementary Schools, Warwick, R. I.
Barr & Linde—Hiawatha Elementary School, Essex Junction, Vt.
Donaldson & Associates—Northwest School, Lucasville, O.
Wm. Perry—St. Peter's School, Mansfield, O.
Olson & Powers—Portage Park School, Gypsum, O.
Moellenkamp & Associates—Berne Local School, Sugar Grove, O.
Emerick & McGee—New Catholic High, Newark, O.
White and Helm, Archts.—The Addison Village School, Addison, N. Y.
Considine and Haskell, Archts.—St. Mary's Parochial School, Corning, N. Y.
Holabird & Root & Burgee—Northwestern University, Evanston, Ill.
Barry Byrne & Parks—Immaculata High School, Chicago, Ill.
Meyer & Cook—Little Flower High School, Chicago, Ill.
John C. Christensen—Taft High School, Chicago, Ill.
Leo Strelka—Mount Assissi Academy, Lemont, Ill.
O.S.M. Archts.—Air Force Academy, Chicago, Ill.
Gordon D. White & Assoc.—Climax Elementary School, Climax, Colo.
Edwin A. Francis & Carlyle Guy, Archts.—Widefield Elementary School, Security, Colo.
Alfred Watts Grant & Assoc., Archts.—Chamberlain Elementary School, Colorado Springs, Colo.
The Ohio Oil Co., Research Laboratory, Littleton, Colo.
Stanley Morse, Archt.—Bertha Heid Elementary School, Thornton, Colo.
Porter & Porter, Archts.—Veterans Administration Hospital, Cheyenne, Wyo.
Clark, Stromquist, Ehrlich & Potter, Archts.—Del Mar High School, Campbell, Calif.
Edgar S. Wortman—Palm Beach County Schools and Jr. Col., Palm Beach County, Fla.
Griffin & Gomon—Brevard County Schools, Brevard County, Fla.
Smith & Korach—Temple Israel, Miami, Fla.
Watson & Deutschman—Central Catholic High, Daytona Beach, Fla.
Ralph M. Hartley—St. Mark's Lutheran, Hollywood, Fla.
Thomas J. Madden, Jr.—St. Vincent Ferrer, Delray Beach, Fla.
Wm. G. Crawford—Sunrise Jr. High, Ft. Lauderdale, Fla.
Armstrong & Pryor—Martin County Schools, Martin County, Fla.
Charles F. McKirahan—Broward County Schools, Broward County, Fla.
Thomas J. Madden, Jr.—Christ The King, Jacksonsville, Fla.
Bolton & McBryde—Ft. Myers High, Ft. Myers, Fla.
John A. Burton IV—Seminole County Schools, Seminole County, Fla.
Griffin & Gomon—Volusia County Schools, Volusia County, Fla.
Thomas J. Madden, Jr.—Epiphany Parish School, Miami, Fla.
Irving M. Horsey—Dade County Schools, Miami, Fla.
Stickle & Associates—Mt. Carmel School, Wickliffe, O.
Cleveland Board of Education architects—Cleveland, O.
Fulton-DelaMotte, Larson-Nassau—Fairview High School, Fairview, O.
Kent University Training School, Kent, O.
U.S. Army Corps of Engineers—Lockborne Air Force Base, Columbus, O.
Spahn and Barnes—Shoregate School, Willoughby, O.
Wm. Boyd Huff, Archt.—Zion Lutheran School, Akron, O.
Wm. Boyd Huff, Archt.—Akron University, Akron, O.
Mellenbrook, Foley & Scott, Archts.—Roehm High School, Berea, O.
Outcalt & Guenther—Hopkins Airport, Cleveland, O.
Outcalt & Guenther—North High, Eastlake, O.
Chas. Bacon Rowley—S. Euclid Schools, S. Euclid, O.
Lawrence & Dykes—Jackson Twp. High School, Canton, O.
King & Frost—Lexington Twp. High School, Alliance, O.
Stickle, Kelly & Stickle—St. Benedict's Academy, Erie, Pa.
Joseph Regner & Assocs.—Munson School, Chardon, O.
Joseph Regner & Assocs.—Sheffield Lake Elementary School
Joseph Regner & Assocs.—Willoughby Elementary School
Horn & Reinhardt—St. Christopher, Rocky River, O.
Thomas Koehl & Assocs.—St. Dominic, Shaker Heights, O.
Thomas Koehl & Assocs.—St. Ignatius High, Cleveland, O.
Chas. Bacon Rowley & Assocs. Inc.—Cleveland Public Library
Burin & Hazen—St. Jude, Elyria, O.
Heine Crider & Williamson—Helen J. Neeley, Brookpark, O.
Heine Crider & Williamson—Margaret Raab, Brookpark, O.
Ward Conrad Schneider & Szabo—East Side Lutheran H. S., Cleveland, O.
Ward Conrad Schneider & Szabo—West Side Lutheran H. S., Cleveland, O.
Small Smith Reeb & Draz—Case Institute of Technology, Cleveland, O.
Garfield Harris Schafer Flynn & Williams—Western Reserve University, Cleveland, O.
Stickle & Assocs.—St. John's College, Cleveland, O.
Spahn & Barnes—Greenview Jr. High School, S. Euclid, O.
Perkins & Will—Barrington High School Addn., Barrington, Ill.
McGuire & Shook—High School Building, Rushville, Ind.
Walter Scholer—General Science Bldg., Purdue University, Lafayette, Ind.
Walter Scholer—Spring Hill School, Indianapolis, Ind.
Walter Scholer—East Street School, Pendleton, Ind.
Walter Scholer—Indiana Central College, Indianapolis, Ind.
Walter Scholer—Columbia Elementary School, Rochester, Ind.
Westlake Jr. High School, Millcreek Twp., Erie, Pa.
JoAnna Connell School, Erie, Pa.
Mount Calvary School, Erie, Pa.
Tracy School, Millcreek Twp., Erie, Pa.
Montclair School, Millcreek Twp., Erie, Pa.
Minor Seminary, Erie, Pa.
Northeast Grade School, Northeast, Pa.
Bakersfield City Schools, Bakersfield, Calif.
Orangewood School, Orangewood, Calif.
Detroit Board of Education—Dixon School, Detroit, Mich.
Detroit Board of Education—Burroughs, Detroit, Mich.
Detroit Board of Education—White Special School, Detroit, Mich.
Detroit Board of Education—Cleveland Jr. High School, Detroit, Mich.
Frederick Fessler—Keyport Elementary School, Keyport, N. J.
John Christensen—U.S. Grant School, Chicago, Ill.
Ballard, Tide & Snibe—P. S. #132, New York City, N. Y.
Seelig & Finkelstein—P. S. #141, New York City, N. Y.
N. Y. C. Board of Education—P. S. #100 & #180, New York City, N. Y.
McCoughey-Erickson—Emerson Jr. H. S.—Niles, Ill.
Micklewright & Mountford—West Caldwell H. S., Caldwell, N. J.
Micklewright & Mountford—Brick Twp. Elementary School, Brick Twp., N. J.
Phillips & Swager—Roosevelt Elementary School, Chicago, Ill.
Phillips & Swager—Washington Elementary School, Chicago, Ill.
Coffin, Coffin & Ronfeldt—Swimming River School, Shrewsbury, N. J.
Beli & Beli—Immaculate Conception School, Chicago, Ill.
Beli & Beli—St. Beatrice School, Shiller Park, Ill.
Grellinger & Rose—Congress School, Milwaukee, Wis.
Spitznagel—Elementary School, Lakefield, Minn.
James H. Walsh—Elementary School, Alta, Iowa
Karl Keffer Associates—Elementary School, Scranton, Iowa
Edwards & Green—Vincentown Elementary School, Vincentown, N. J.
Bellante & Clause—Childrens Reception Center, Philadelphia, Pa.
Haag & D'Entremont—Neshaminy Sr. High School, Langhorne, Pa.
Base Engineers Plans—Classrooms, Keesler AFB, Miss.
Milton B. E. Hill—Soria City Elem. School, Gulfport, Miss.
Chris Risher—Old Bay Springs Road Elem. School, Laurel, Miss.
Bill Archer—Marion County High School, Columbia, Miss.
H. F. Campbell—De La Salle Collegiate High School, Detroit, Mich.
Kelly & Gruzen—Johnson Park & Riverside Elementary School, Princeton, N.J.
Lorimer & Rose—City College of Technology, New York City, N. Y.
F. A. Ellasser—High School, Union, N. J.
Paul Canin—S. F. B. Morse School, Poughkeepsie, N. Y.
Sherwood Mills & Smith—Parkway Elementary School, Greenwich, Conn.
Hurley & Hughes—St. Sylvester, Staten Island, N. Y.
DeYoung Moskowitz & Rosenberg—P. S. #296, New York City, N. Y.

ATOMIC ENERGY PROJECTS

A. M. Kinney—Instrument Lab. Bldg., Oak Ridge, Tenn.
A. M. Kinney—Research Extension Bldg., Oak Ridge, Tenn.
Adache Associates, Inc.—Union Carbide Corp., Cleveland, O.

OUTSIDE OF U. S. A.

Panama Canal Zone Schools, U. S. Engineers Nuclear Research Center, Mayaguez, Puerto Rico
Keller Hall, University of Hawaii, Honolulu, Hawaii

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CHALKBOARD and TRIM COMPANY
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Gotham

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corkboards pages 8-9
aluminum trim pages 10-21
applications pages 22-26
display cases and cabinets pages 26-27

GOTHAM CHALKBOARD and TRIM CO., INC.

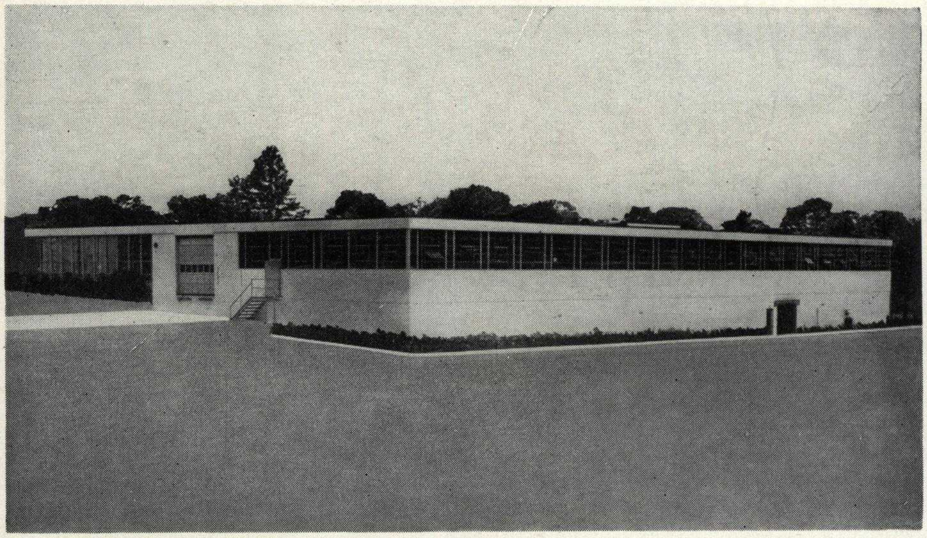
1960

91 WEYMAN AVENUE • NEW ROCHELLE • NEW YORK

Gotham

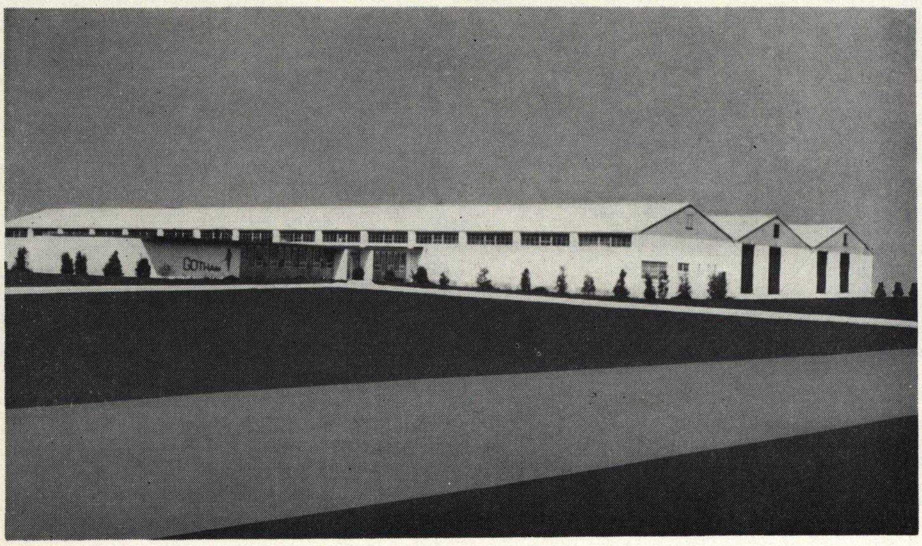
CHALKBOARDS and FRAMES

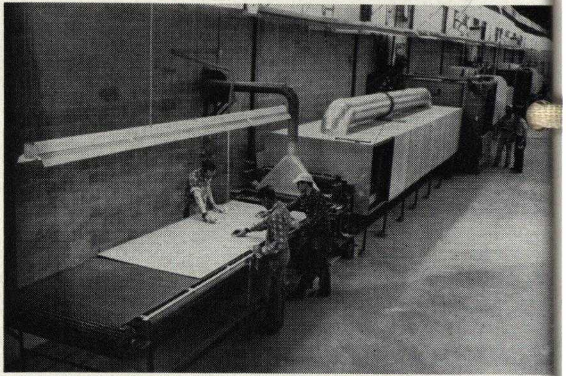
background...



plant at new rochelle, new york

plant at marked tree, arkansas





a fine product—a fine name

Our two factories, in New Rochelle, New York and Marked Tree, Arkansas, with 100,000 square feet of productive capacity, make Gotham the largest plant in the country devoted to the exclusive manufacture of chalkboard and related products.

Their ultra-modern equipment and facilities are designed to cope with the ever-increasing demand for Gotham's products — the most extensive line, we are proud to say, in the industry.

Both plants are geared to the single objective of manufacturing Gotham's functional and eye-pleasing products for installation in today's functional and eye-pleasing schools.

Gotham's formula for growth, underscored by steady expansion during the course of three decades, is constant change — constant improvement — constant search for new and better products to meet today's needs and tomorrow's trends.

That is why no chalkboard or chalkboard trim bears a finer name. That is why Gotham, year in and year out, has led the way. That is why those who want premium products at no premium in price insist on Gotham.

FOUR TYPES OF GOTHAM CHALKBOARD

1 CERAMO-STEEL

Highest quality board with porcelain enamel writing surface fused to 18 gauge steel with either ¼" plywood or wood core backed with .015 aluminum sheet or foil.

see page 4

2 VITRO-MATIC

A quality board with porcelain enamel writing surface fused to 24 gauge Armco aluminized steel with either ¼" plywood or wood core backed with .015 sheet aluminum or foil.

see page 5

3 HI-TEMP

An economy steel chalkboard with chalkboard surface fused at high temperature to 24 gauge corrosion resistant steel laminated to ¼" wood core with aluminum foil back. (Other core or backing materials are available.)

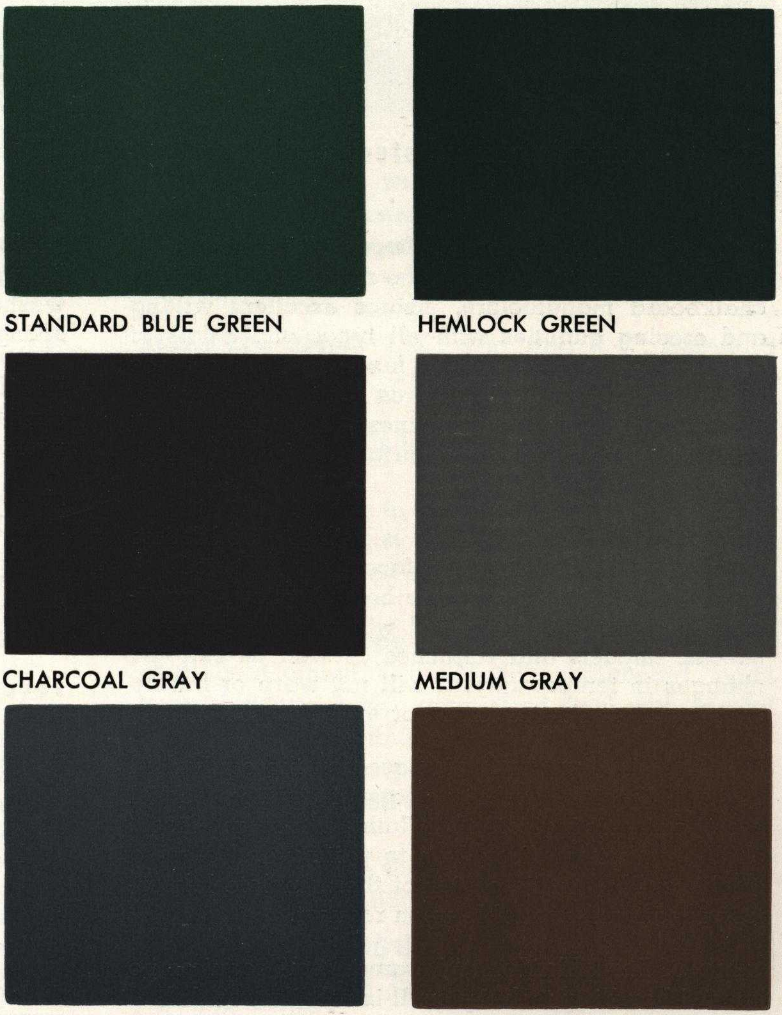
see page 6

4 COMPOSITION

High grade economy boards with a writing surface of silicon carbide and other abrasives, automatically sprayed on a choice of eight different backings to meet various requirements.

see page 7

six standard colors for all boards...



Ceramo-Steel high quality porcelain steel chalkboard

rough careful
cruel brave
earnest clever
savage cunning
tough smart

newest ceramic coated steel chalkboards

features

improved writing surface: "Ceramo-Steel" chalkboard writing surface, the new development in chalkboard manufacture, insures excellent writing and erasing qualities with all types and colors of chalk. The ceramic material fused onto the surface of "Ceramo-Steel" chalkboards contains abrasives throughout the entire thickness, thus making it impossible for the writing surface to become slick or glossy with use.

durability: "Ceramo-Steel" is built to give lifetime satisfaction. Its writing surface is unaffected by normal usage (see guarantee below). The 18 gauge steel is extremely tough and will withstand severe shocks, impacts and scratches as well as extreme changes in temperature. It will not warp or buckle and it cannot shatter, crack or explode.

accelerated wear test: Based on the equivalent of approximately seventy years of average school use, the results indicate that Gotham "Ceramo-Steel" chalkboard is unaffected as to writing and erasing qualities. Photostatic copies of the complete laboratory report are available upon request.

ease of installation: "Ceramo-Steel" requires no special handling techniques. It is readily cut, drilled and fitted on the job and no special tools are required.

maintenance: No special care is required for "Ceramo-Steel" chalkboards, for they are easily washed with warm water and a damp cloth or sponge.

lifetime guarantee: "Ceramo-Steel" chalkboard carries an unconditional lifetime guarantee under normal conditions of usage.

standard sizes: 3'-0", 3'-6" and 4'-0". Standard lengths up to 10'-0" in single sheets.

colors: Available in standard blue green, hemlock green, charcoal gray, medium gray, powder blue and earth brown. **See page 3.**

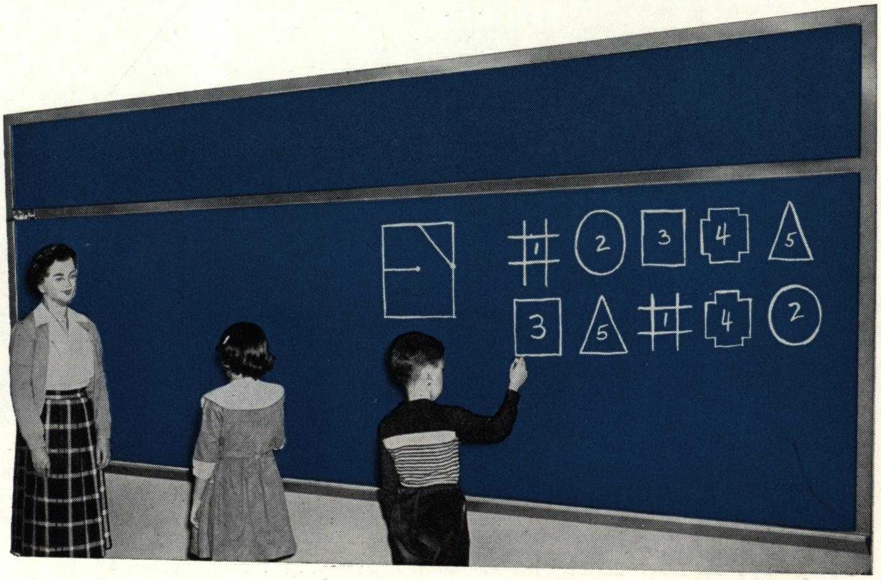
recommended specifications: All chalkboards shall be Gotham "Ceramo-Steel" chalkboard made from 18 gauge steel with a special ceramic porcelain coating. The steel is firmly laminated under pressure to ¼" wood core or plywood with a special waterproof cement, with .015 aluminum sheet or aluminum foil backing.

The writing surface shall not become slick or glossy with use and shall not chip, crack or peel.

ALL CHALKBOARDS SHALL BE IN CONFORMANCE WITH PORCELAIN ENAMEL INSTITUTE SPECIFICATION S:104.

Vitro-Matic quality porcelain steel chalkboard

Made from 24 gauge Armco aluminized steel with lifetime porcelain enamel finish, Gotham "Vitro-Matic" Chalkboard is the answer where durability, beauty and economy are factors of selection.



features

economy: Here is a porcelain enamel steel chalkboard that is lower in price than slate and glass and that is within the price range of better grades of composition chalkboards.

tough and durable: The lifetime porcelain enamel finish endows "Vitro-Matic" with a tough, durable chalkboard surface which becomes neither slick nor glossy with continued use.

superior writing surface: The special qualities of "Vitro-Matic" insure ease of writing and erasing with all types and colors of chalk and erasers.

ease of installation: Its relative light weight — only two pounds per square foot — makes "Vitro-Matic" easy to handle. No special tools are required. These chalkboards can be drilled, sawed, punched, sheared and nailed on the job without any damage to the surface.

maintenance: "Vitro-Matic" chalkboards can be easily cleaned and washed as often as necessary. Periodic use of porcelain enamel cleanser will remove all residual chalkdust, wax, glue, etc.

guarantee: The writing surface of "Vitro-Matic" has an unconditional lifetime guarantee against cracking, chipping or glossing, under normal conditions of usage.

standard sizes: 3'-0", 3'-6" and 4'-0". Standard lengths up to 10'-0" in single sheets.

weight: Two pounds per square foot.

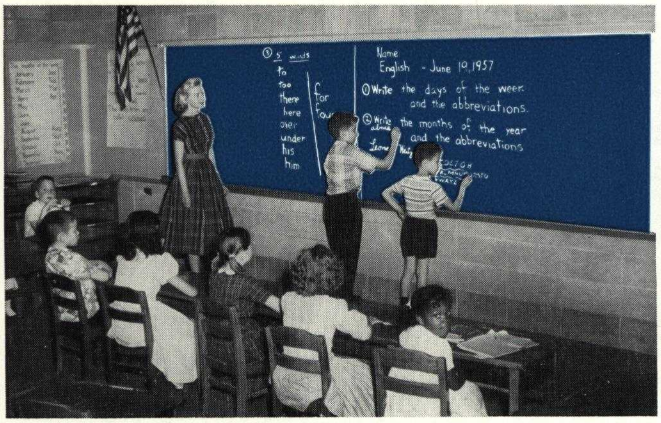
colors: Available in standard blue green, hemlock green, charcoal gray, medium gray, powder blue and earth brown. See **page 3.**

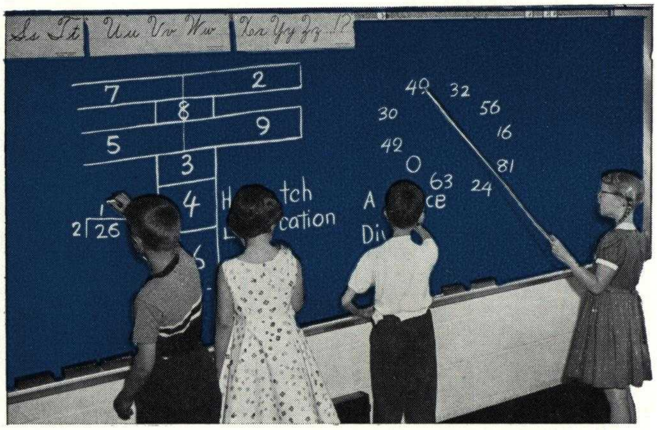
recommended specifications: All chalkboards shall be Gotham "Vitro-Matic" chalkboard made from 24 gauge Armco aluminized steel with special porcelain enamel finish, laminated under pressure to ¼" wood core or plywood with .015 sheet aluminum or aluminum foil backing.

The writing surface shall not become slick or glossy with use and shall not chip, crack or peel.

ALL CHALKBOARDS SHALL BE IN CONFORMANCE WITH PORCELAIN ENAMEL INSTITUTE SPECIFICATION S:104.

Hi-Temp economy steel chalkboards





features

economy: A new steel chalkboard that costs no more than better grade composition chalkboards.

improved material: "Hi-Temp" steel chalkboards are fabricated from specially plated, 24 gauge corrosion resistant steel sheets. This steel is chemically treated to provide superior bonding surface of chalkboard material.

writing surface: "Hi-Temp" chalkboard surface is applied to 24 gauge corrosion resistant steel sheets with automatic spraying equipment, in temperature controlled, dust-free spray rooms, and then fused at high temperature to the steel sheet in rigidly controlled, automatic ovens. This process provides a uniform, superior chalkboard writing surface, which is durable, rugged, and fade resistant.

ease of installation: "Hi-Temp's" light weight—approximately 2 pounds per square foot—makes it easy to handle. It can be cut, drilled, sawed, or nailed without damage to the surface.

guarantee: "Hi-Temp" steel chalkboards are guaranteed for a period of twenty-five years against fading, chipping, or becoming glossy under normal conditions of classroom usage.

standard sizes: "Hi-Temp" steel chalkboard is available in 3'-0", 3'-6" and 4'-0" heights. Standard lengths available up to 12'-0" in single pieces.

colors: Available in standard blue green, hemlock green, charcoal gray, medium gray, powder blue and earth brown. **See page 3.**

recommended specifications: All chalkboards shall be Gotham "Hi-Temp" chalkboard, made from 24 gauge corrosion resistant steel, laminated to ¼" wood core with aluminum foil backing. (Other core or backing material is optional.)

composition chalkboard

Gotham's well-known and economical composition chalkboards can now be blended or contrasted with the smartness and good taste found in today's contemporary classroom interiors.

The writing surface is composed of silicon carbide and other abrasives suspended in a durable synthetic plastic coating for highest abrasion resistance, chalking and erasing qualities.

All Gotham chalkboards are sprayed, sanded and baked by a fully-automatic system.

In installing these chalkboards, Gotham aluminum metal joints for abutting sections can be used. These joints, too, are furnished in colors to match or contrast with the chalkboards.

specifications

All chalkboards shall be GOTHAM (type) in (color). **See page 3.**

Chalkboards shall be set in accordance with standard practice and recommendations of manufacturer. GOTHAM spotting cement shall be applied in spots every 12" o. c. both horizontally and vertically. Boards shall be firmly pressed into position and leveled plumb and true.

Pressure shall be maintained against the boards for a minimum of 48 hours.

colors: Available in standard blue green, hemlock green, charcoal gray, medium gray, powder blue and earth brown. **See page 3.**

chalkboard	description	weight	thickness	standard sizes
STANDARD STRUCTO-BOARD #205	U. S. Gypsum's Structo-Board, wood fibre body formed under heat and pressure into smooth homogeneous hardboard with Gotham's superior chalkboard surface.	1.0 pounds per sq. ft.	1/4"	width 3'-0" 3'-6" 4'-0" maximum single length 12'-0"
TEMPERED-STRUCTO-BOARD #200	U. S. Gypsum Structo-Board, wood fibre body specially treated with tempering oil, polymerized by baking, to increase hardness and reduce moisture absorption.	1.1 pounds per sq. ft.		
STANDARD STRUCTO-BOARD #245	Composed of two sheets ¼" Standard Structo-Board laminated under pressure. Available with tongue and groove joints, or metal joiners in colors to match.	2.0 pounds per sq. ft.	7/16"	
TEMPERED-STRUCTO-BOARD #240	Composed of two sheets ¼" Tempered Structo-Board laminated under pressure. Tongue and groove joints or metal joiners in colors to match.	2.2 pounds per sq. ft.		
PRESDWOOD #210	Masonite Standard Presdwood stong, homogeneous, grainless panels, composed entirely of exploded wood fibers permanently bonded together with natural lignin, with Gotham's superior chalkboard surface.	1.3 pounds per sq. ft.	1/4"	width 3'-0" 3'-6" 4'-0" maximum single length 16'-0"
TEMPERED-PRESDWOOD #220	Masonite Tempered Presdwood panels are manufactured with special tempering liquid that is polymerized by baking. This process reduces rate of moisture absorption and increases resistance to abrasion seven times.	1.4 pounds per sq. ft.		
TEMPERED-PRESDWOOD #250	Two sheets of ¼" Tempered Presdwood are laminated under pressure to form extremely strong, rigid and waterproof panels. Tongue and groove joints or metal joiners in colors to match.	2.8 pounds per sq. ft.	1/2"	
FLEXBOARD #230	Chalkboard base is a cement-asbestos fireproof panel with an extremely small expansion rate. Gotham's special sealing process prior to application of chalkboard surface prevents the alkalis in body of chalkboard from attacking the surface. (Also available in ¼" thickness—Flexboard #235)	1.8 pounds per sq. ft.	3/16"	width 3'-0" 3'-6" 4'-0" maximum single length 10'-0"

COLOR-CORK for bulletin boards and tack boards

Used for both unmounted and mounted bulletin boards and tackboards, Gotham COLOR-CORK is a burlap-backed cork board with a vinyl coating. Introduced by Gotham, COLOR-CORK meets the highest quality standards and is backed by 60 years of manufacturing experience and a continuous program of research and product improvement. Despite its many advantages, versatility and harmonious contemporary colors, COLOR-CORK is moderate in cost.

sixteen colors

The 16 handsome hues of COLOR-CORK (see opposite page) provide a rainbow of color for mix or match interior color schemes. This wide variety permits blending and complementing of color in all chalk board and bulletin board areas.

washable vinyl coating

COLOR-CORK meets all threats to its original fresh, handsome appearance with a tough, durable, washable vinyl coating. Due to this water and soil resistant surface, all traces of dirt and other discoloration can be removed quickly and easily with soap and water.

color throughout

Each rich color of COLOR-CORK is an integral part of the material itself. This feature further assures that COLOR-CORK used in bulletin boards and other applications will remain attractive throughout many years of service.

resistance

COLOR-CORK affords reliable, long-lasting resistance to most common chemicals, scratching, cracking, and abrasion.

uses

Because of its strength, resilience, washability and wide range of colors, COLOR-CORK is an ideal surfacing material for temporary and permanent display walls and areas in museums, libraries, auditoriums and theatres. COLOR-CORK is also highly recommended as a durable, washable, colorfast covering for all interior walls and floors. In such applications, its acoustical properties are an added major advantage.

dimensions

Gotham COLOR-CORK is made in two thicknesses—⅛" and ¼"—and is available in lengths up to 90' and heights up 78". Mounted COLOR-CORK is furnished in maximum lengths of 12'-0" and maximum widths of 4'-0".

specifications

All surfaces for bulletin boards and/or tackboards shall be COLOR-CORK as manufactured by Gotham, with colors selected from 16 standard colors of Gotham COLOR-CORK. All cork shall have vinyl surfacing, contain color throughout thickness, and have burlap backing. All corkboard and/or tackboards shall be installed in accordance with manufacturers directions.

tests* by recognized independent laboratories

• washability

Sample was soiled with water based and oil based artificial soil mediums containing coal and siliconous dust. Rating—Most of soil was readily removed by washing soap or synthetic detergent. Comparative washability tests were made on a typical textured vinyl coating covering. Color-cork showed superior washability properties. #171,530

• moisture resistance

Sample was subjected to a water-filled tube 12" long x ¼" I.D. the edge of which was sealed to surface of material at 77°F., 50% relative humidity for 48 hours. Results are given as the reduction of the water level in m.l. in the tube over a 48 hour period. 4 hrs.—0.0, 8 hrs.—0.0, 24 hrs.—0.5, 36 hrs.—0.7, 48 hrs.—0.9. Rating—Color-cork has good resistance to penetration by surface moisture. #59232C.

Sample tested to determine water absorption. Results are given in ml. per square inch per hour. Rating—The surface of Color-cork repels water. A very small quantity of water is absorbed through microscopic pores in the coating. #171,530

• stain resistance

Sample was subjected to drop of ink placed on surface. Results were determined by waiting one minute before wiping with a dry cloth and then with a damp cloth. Dry cloth left a faint stain; damp cloth, no stain. #171,212

• flexibility

Sample was subjected to 180° of bending around a 1½ inch mandrel at 72°F. No cracks appeared. #171,212

• residual indentation

Sample was supported on a steel plate and subjected to an 80 lb. indenting load consisting of a flat cylindrical steel bar 1.5 inches in diameter, stated load applied for 10 minutes. Results are given as the residual indentation found, stated in % of original thickness of the material at the times listed in hours after removal of the load. 1 hr.—0.21, 4 hrs.—0.08, 8 hrs.—0.00, 24 hrs.—0.00. Rating—The material has recovery characteristics which cause complete disappearance of the indentation within 8 hours after removal of the load. #59232B

*Tests #171,212 and 171,530 were conducted by Davis & Bennett, Inc.
All other tests by United States Testing Company, Inc.

natural cork

Natural cork bulletin boards in thicknesses of ⅛" and ¼" also available. Maximum unmounted size 90 feet by 4 feet. Maximum mounted size 12 feet by 4 feet.

Gotham also has available a wide variety of vinyl tackboard materials.

color consultant, Eleanor Pepper
professor, Department of Interior Design, Pratt Institute
for additional information on these and other COLOR-CORK applications see:

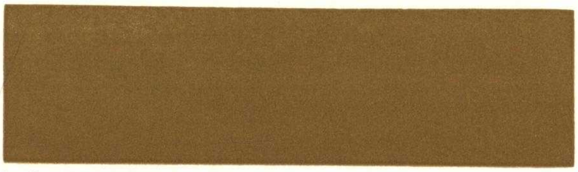
Sweet's Architectural File $\frac{13i}{GO}$ (wall and floor covering)

Sweet's Product Design File $\frac{4d}{GO}$ (product design uses)

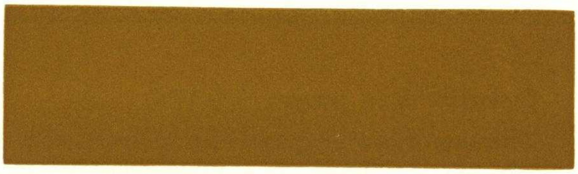
16 COLORS

- Light Blue no. 14

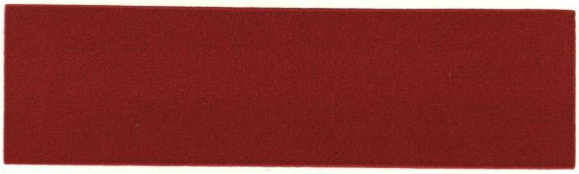
- Light Green no. 8



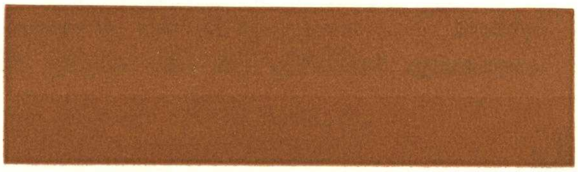
- Light Tan no. 10



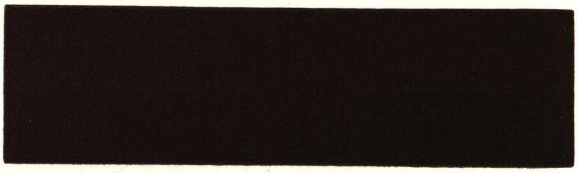
- Bright Gold no. 12



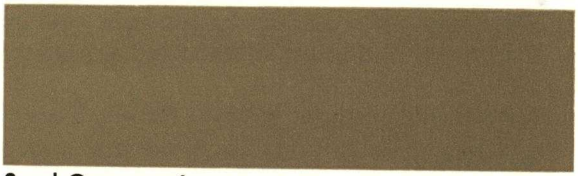
- Rose Red no. 11



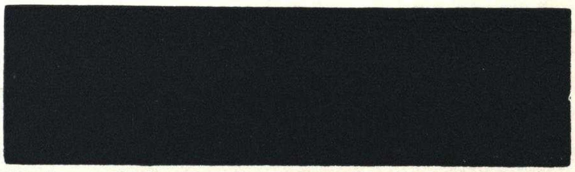
- Warm Beige no. 20



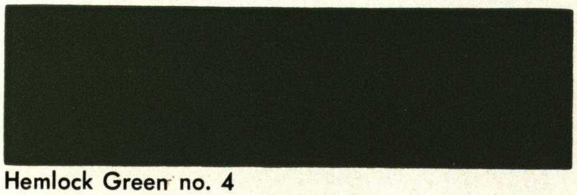
- Brown Umber no. 15



- Sand Gray no. 6



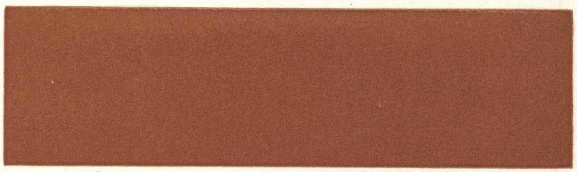
- Wedgwood Blue no. 9



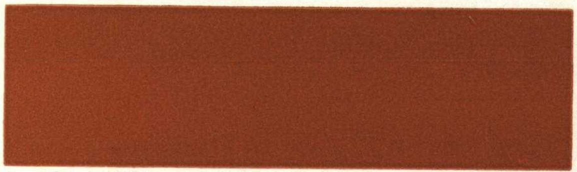
- Hemlock Green no. 4

- Dark Tan no. 2

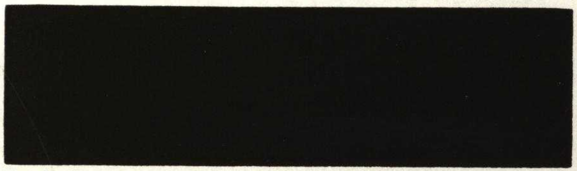
- Golden Beige no. 13



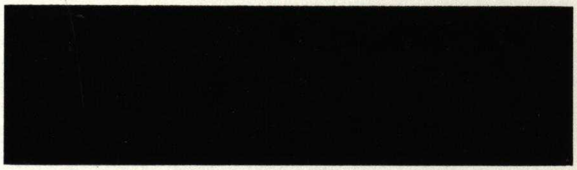
- Rose Pink no. 16



- Coral no. 18

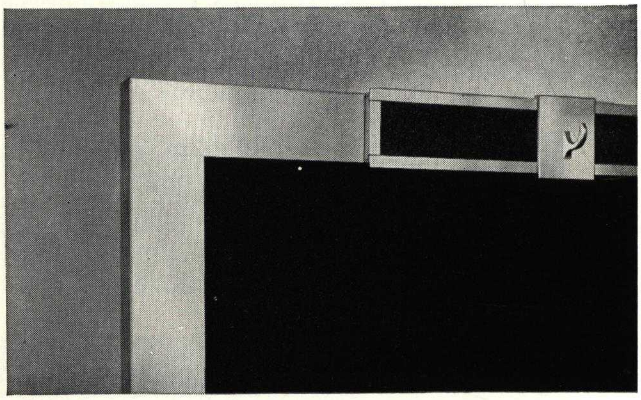


- Earth Brown no. 17



- Black no. 19

Snap-Tite eliminates all visible screws



Details: See pages 12-13

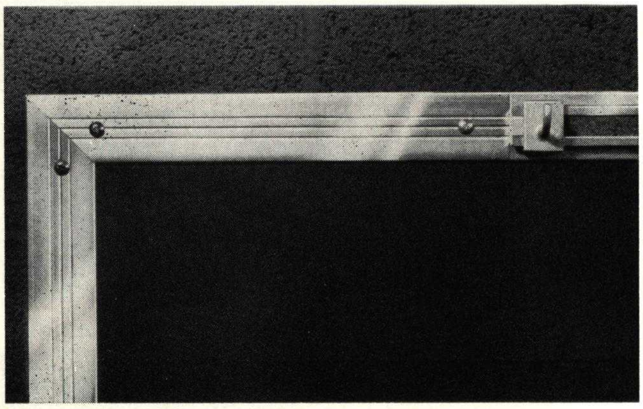
This superior trim has established the highest standards in its many years of performance. Snap-Tite is a trim that meets fully those requirements and features that architects agree are important:

features

durable: Extruded aluminum frames provide extra rigidity and strength which make Snap-Tite a permanent installation for the life of the building.

appearance: Neat and smart, Snap-Tite has an anodized finish which adds to the attractiveness of the modern classroom. There can be no unsightly butt-joints because aluminum extrusion permits installa-

Screw-Tite economy with beauty



Details: See pages 14-15

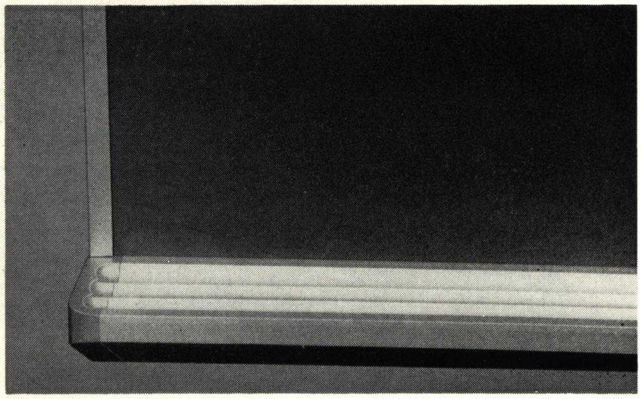
To assist those progressive architects who are seeking new methods of gaining beauty and utility, while reducing costs, Gotham presents Screw-Tite economy trim—extruded anodized aluminum frames for chalkboards and corkboards in single continuous lengths.

Screw-Tite is an extremely efficient, versatile and thoroughly practical approach to the problem of trim.

features

economy: Architects can now specify aluminum

Slip-Tite eliminates grounds



Details: See pages 16-17

The most modern and economical approach to the problem of neat, long lasting aluminum frames. Sliptite completely eliminates grounds, yet maintains the beauty and utility of anodized aluminum frames.

features

economy: The elimination of grounds and simplicity of installation greatly reduces the cost.

tion in single lengths. And, of course, Snap-Tite eliminates all visible screws.

maintenance: None required, for the anodized aluminum eliminates the necessity for painting and upkeep.

variability of design: Snap-Tite trim lends itself to the flexibility of design that architects desire in classroom layout of chalkboards and corkboards.

ease of installation: Snap-Tite trim is easily installed. It requires no special tools and is readily cut and mitred on the job.

---

frames within the price range of steel and wood frames.

ease of maintenance: There are no painting finishing or maintenance problems with Screw-Tite.

durable: Screw-Tite trim looks better and functions better — and for a longer period of time. Its firmness and strength are underscored by the Gotham guarantee.

ease of installation: Screw-Tite is easily installed. It needs no special equipment and can be conveniently cut and mitred on the job.

---

durable: The rigidity and durability of aluminum frames has been proven over a period of many years.

maintenance: No maintenance is required with anodized aluminum frames.

ease of installation: Slip-tite is easily installed. No special tools are required, and the aluminum is easily cut and mitred on the job.

trim

recommended specifications

ALUMINUM *Snap-Tite, Screw-Tite* **OR** *Slip-Tite* **TRIM:**

(a) Furnish and install complete as per details (indicate Snap-Tite, Screw-Tite or Slip-Tite) aluminum trim, chalk trough, map and display rail, and grounds, for all chalkboards, display and bulletin boards on walls, wardrobes, etc., in all class rooms, special rooms, corridors, offices, etc. where indicated on drawings.

(b) All aluminum metal trim shall be dull anodized finish.

(c) All aluminum for trim, chalk trough, wardrobe trim and display board frames shall be extruded shapes of approved sections and of thickness as indicated on detail drawings. All trim and chalk trough shall be in single lengths up to 24 ft. long, straight, true and free of defects.

(d) Sliding map hooks and map winders for map and display rail shall be furnished as specified . . .

(e) **For Snap-Tite only.** Furnish and erect continuous galvanized steel grounds of 16 gauge metal, straight and true, blocked out with metal shims for proper alignment so that face of ground becomes finish plaster line, securely fastened at intervals not over 16" on centers under chalkboards and not over 20" elsewhere. Where cinder concrete blocks or hollow tile blocks are used for partitions, or furring, the grounds shall be secured by toggle bolts of proper size. Where partition walls are to be unplastered, grounds shall be installed in such a manner as to receive extended trim for unplastered walls. Ground pieces may be substituted for continuous grounds on unplastered walls.

(f) **For Snap-Tite only.** Trim and chalk trough clips, of approved sizes, thicknesses and spacings, shall be cadmium plated steel formed to receive snap-on trim and to lap edges of chalkboard not less than ¼". Clamps, of approved sizes, thicknesses and spacings, shall be cadmium plated steel and secured to grounds in such manner as to provide permanent alignment of chalkboard face. Clips and clamps are to be placed adjacent to all joints and adjacent to all corners at horizontal and vertical sections and at intermediate points not over 16" on centers.

(g) **For Screw-Tite only.** All chalk rails and trim shall be drilled in the field to receive cadmium plated screws.

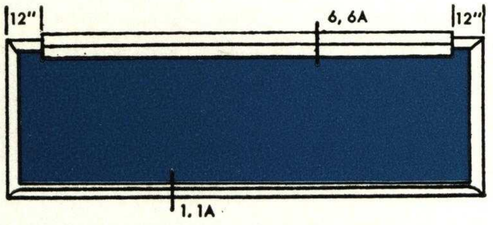
(h) After chalkboards and corkboards have been installed, the aluminum trim shall be completed by erecting all chalk troughs and trim. All work under this heading shall be erected by or under the supervision of the manufacturer of the trim.

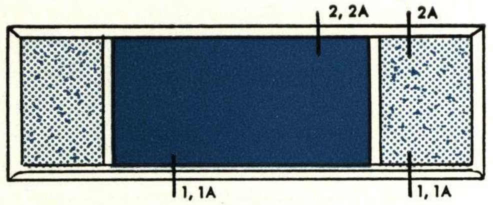
(j) **For Slip-Tite only.** All chalk rails shall be firmly bolted to wall before erection of chalkboards. Map rails shall be bolted through chalkboards to wall surfaces. All remaining perimeter trim shall be held in place by aluminum clips, as detailed.

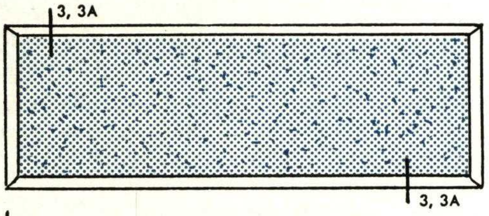
All work under this heading shall be installed under the supervision of the manufacturer of the trim.

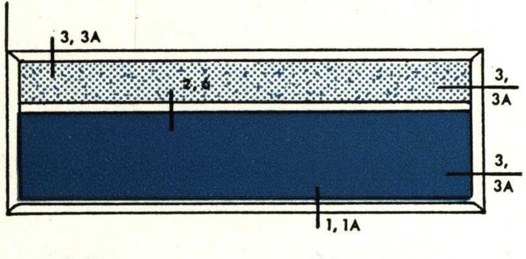
(k) All the above shall be Snap-Tite, Screw-Tite or Slip-Tite aluminum trim as manufactured by the Gotham Chalkboard and Trim Co., Inc.

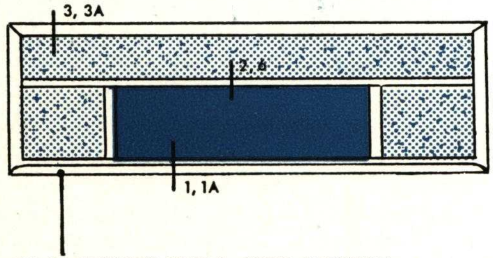
Snap-Tite trim


12"
6, 6A
12"
1, 1A


2, 2A
2A
1, 1A
1, 1A



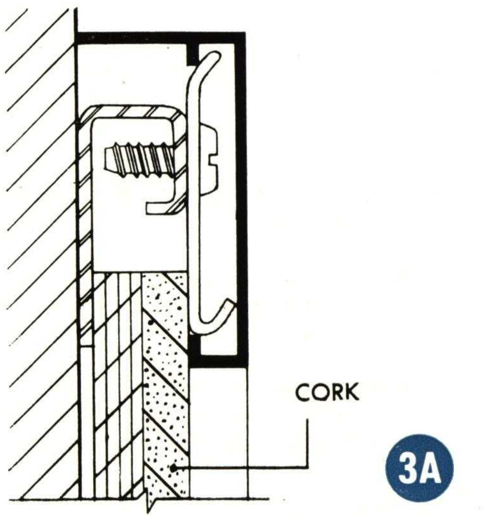

3, 3A
2, 6
3, 3A
3, 3A
1, 1A

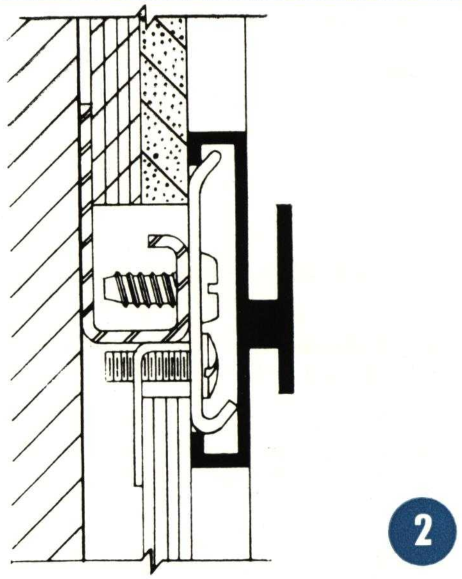


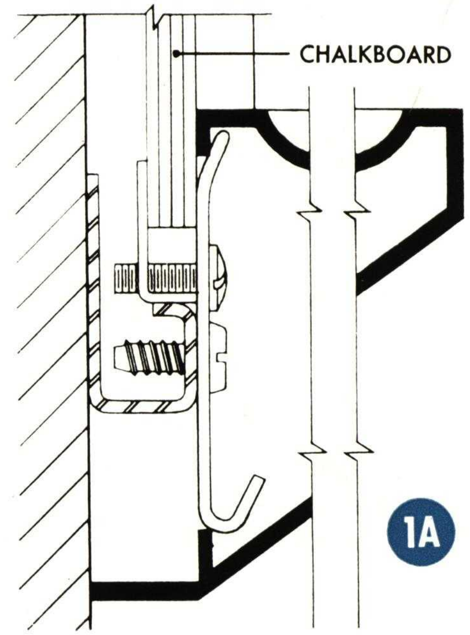
CHALK TROUGH UNDER CORK OPTIONAL

ALL EXTRUDED TRIM IS 1/16" THICK EXCEPT CHALK TROUGH WHICH IS 3/32"

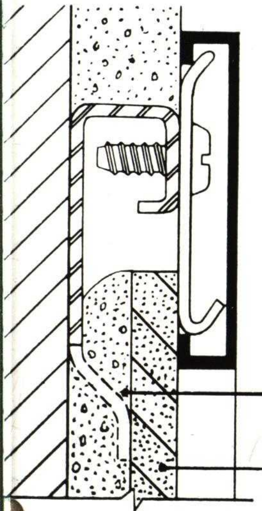
full size details
surface mounted



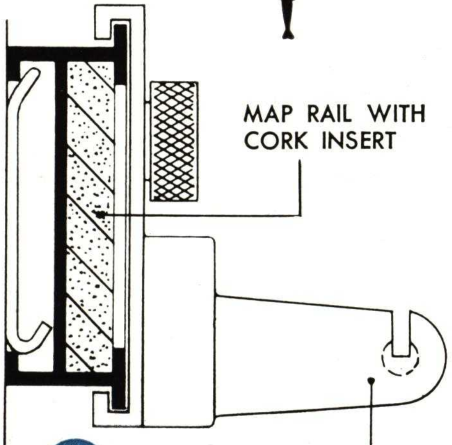



CHALKBOARD
1A

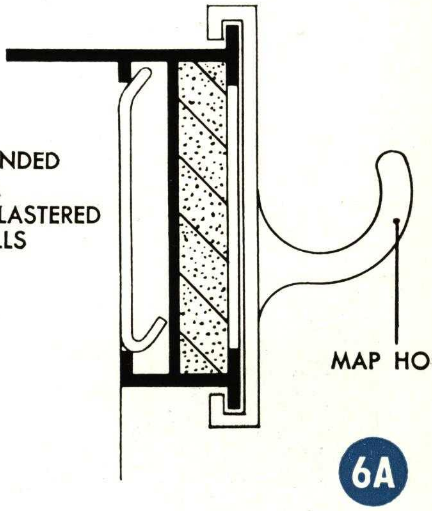
flush with plaster



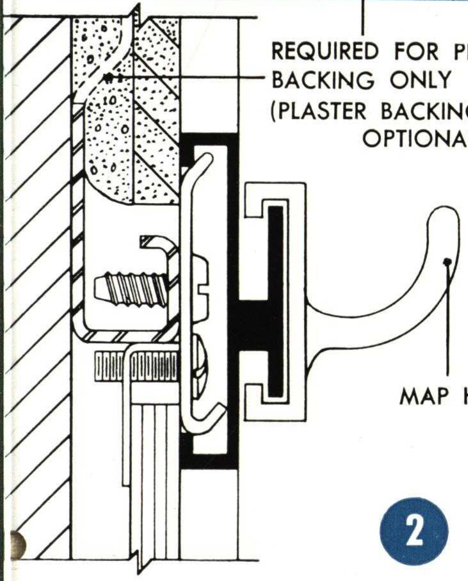
3


MAP RAIL WITH
CORK INSERT
SLIDING MAP
ROLLER BRACKET
FOR 6 OR 6A

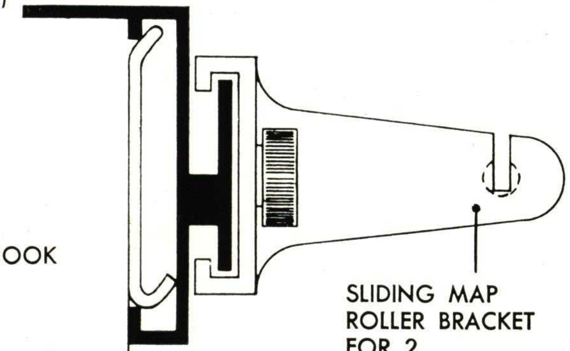
6


EXTENDED
TRIM
UNPLASTERED
WALLS
MAP HOOK

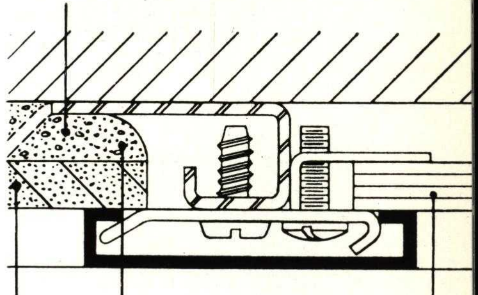
6A


REQUIRED FOR PLASTER
BACKING ONLY
(PLASTER BACKING
OPTIONAL)
MAP HOOK

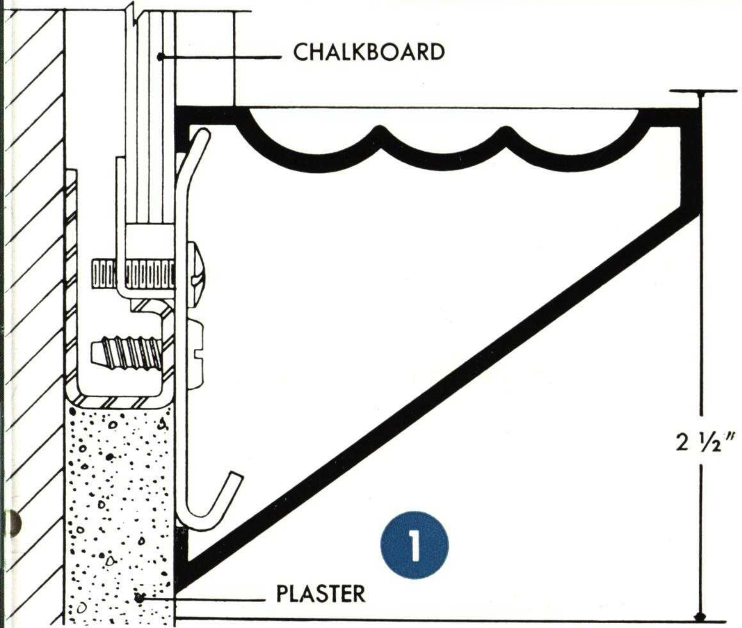
2


SLIDING MAP
ROLLER BRACKET
FOR 2

2A

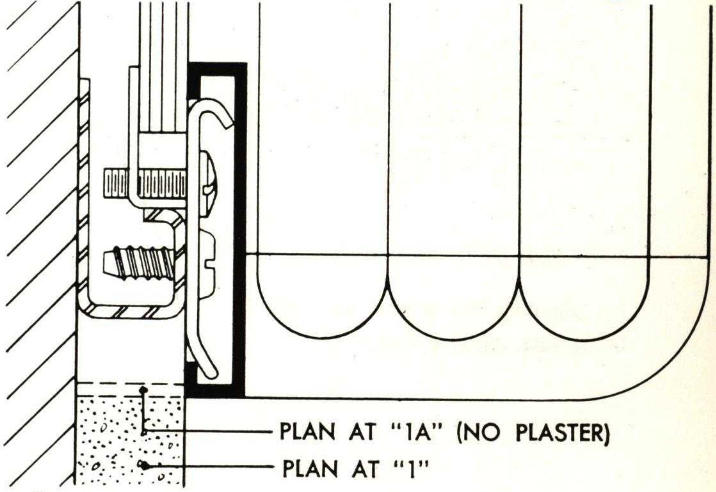

REQUIRED FOR PLASTER BACKING ONLY
(PLASTER BACKING OPTIONAL)
CORK
PLASTER
CHALKBOARD

5

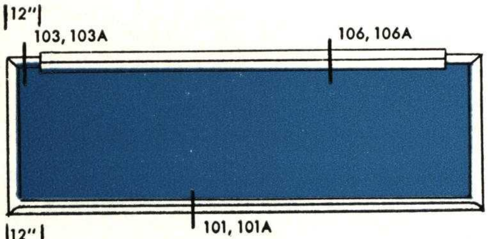

CHALKBOARD
2 ½″
PLASTER

1

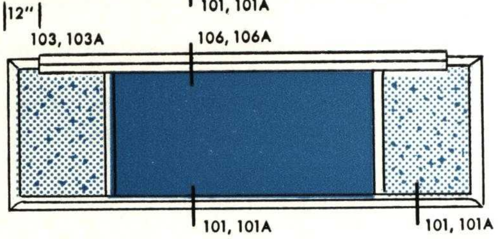
4A **4**


PLAN AT "1A" (NO PLASTER)
PLAN AT "1"

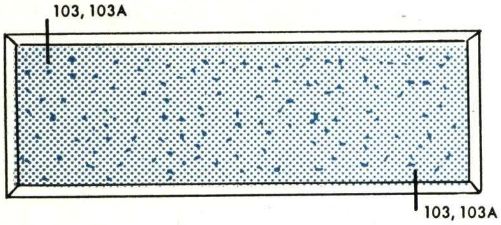
Screw-Tite trim



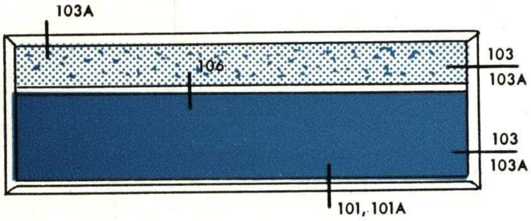
12"
103, 103A
106, 106A
101, 101A



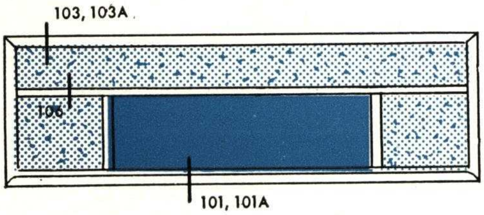
12"
103, 103A
106, 106A
101, 101A
101, 101A



103, 103A
103, 103A



103A
106
103
103A
103
103A
101, 101A

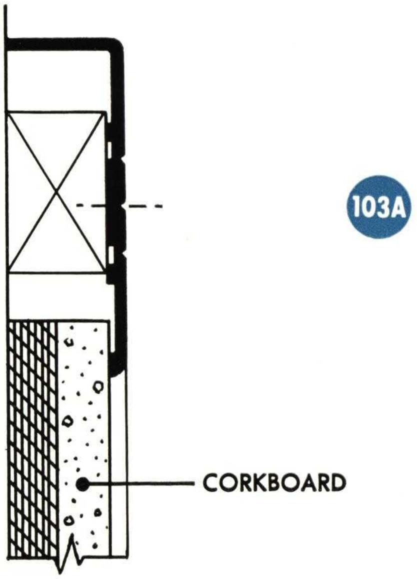


103, 103A
106
101, 101A

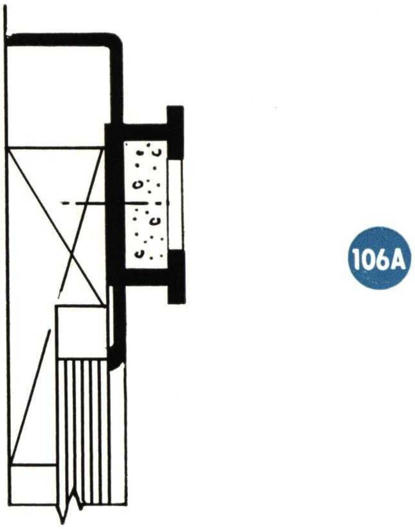
CHALK TROUGH UNDER CORK OPTIONAL

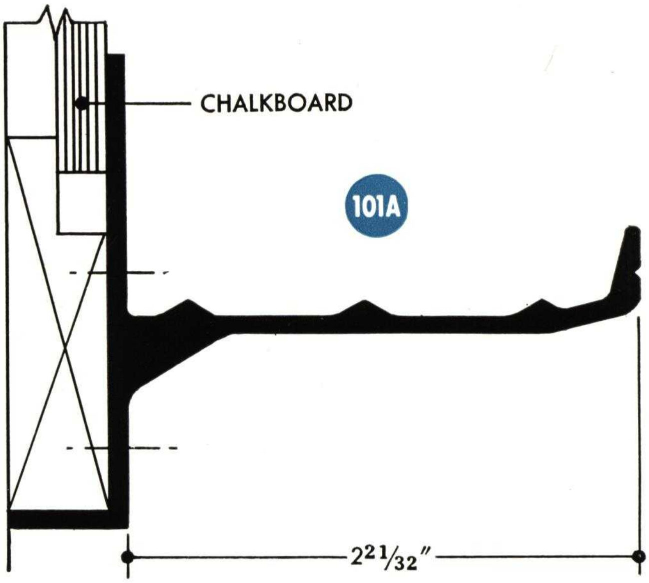
ALL EXTRUDED TRIM IS 1/16" THICK EXCEPT CHALK TROUGH WHICH IS 3/32"

full size details
surface mounted



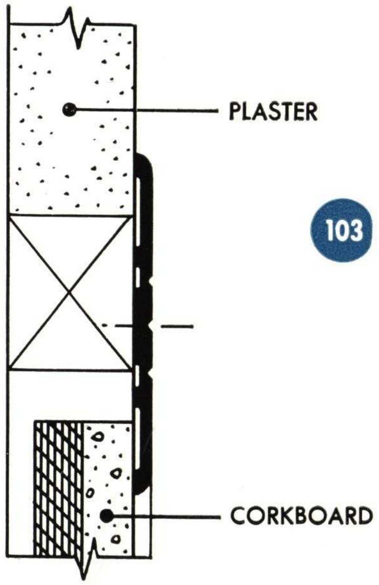
103A
CORKBOARD



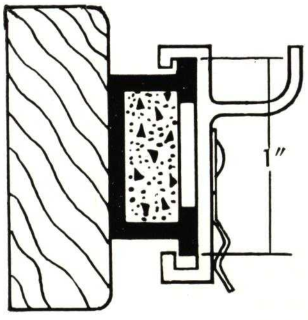


CHALKBOARD
101A
2 21/32"

flush with plaster

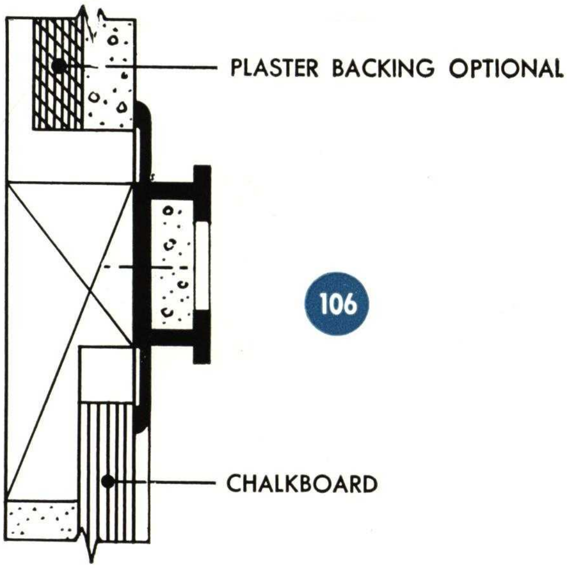

PLASTER
CORKBOARD

103

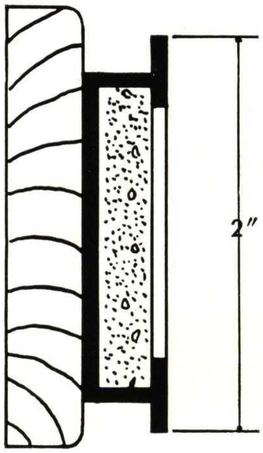


20

MAP RAIL WITH
CORK INSERT FOR WOOD

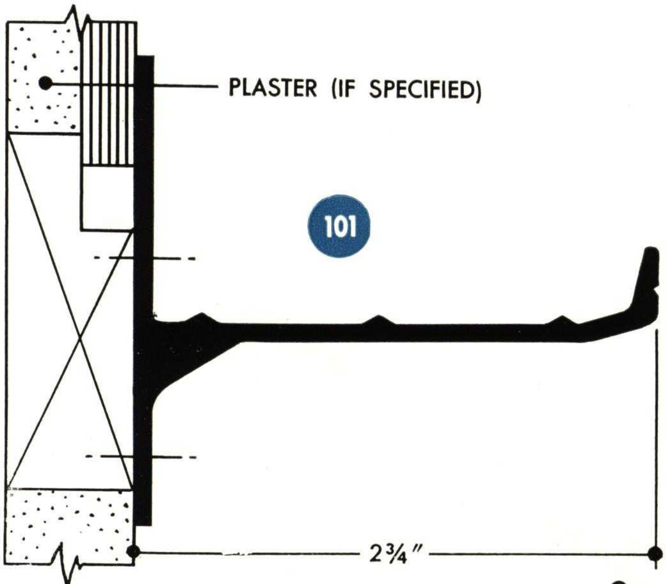

PLASTER BACKING OPTIONAL
CHALKBOARD

106



10

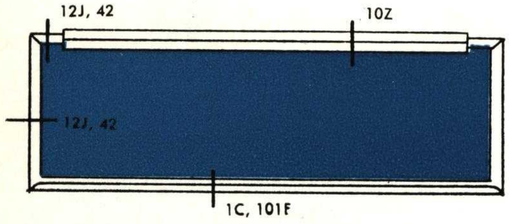
MAP RAIL WITH
CORK INSERT FOR WOOD

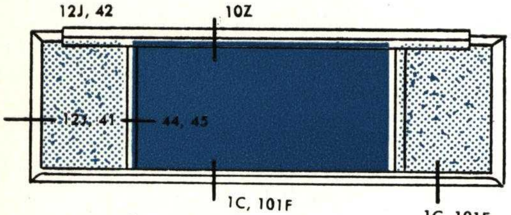

PLASTER (IF SPECIFIED)
2¾″

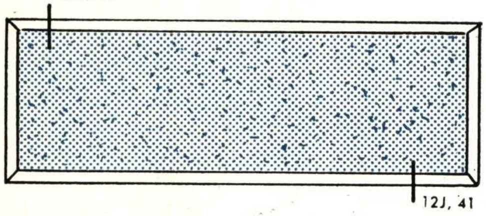
101

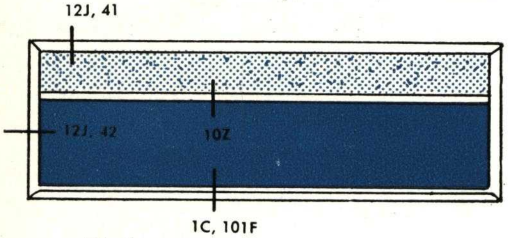
■	ALUMINUM
░	PLASTER
▒	CORK
▩	MASONITE
▤	CHALKBOARD
☒	BLOCKING

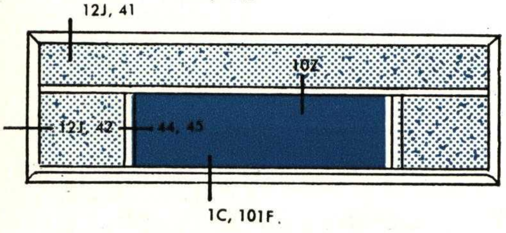
Slip-Tite trim **full size details**

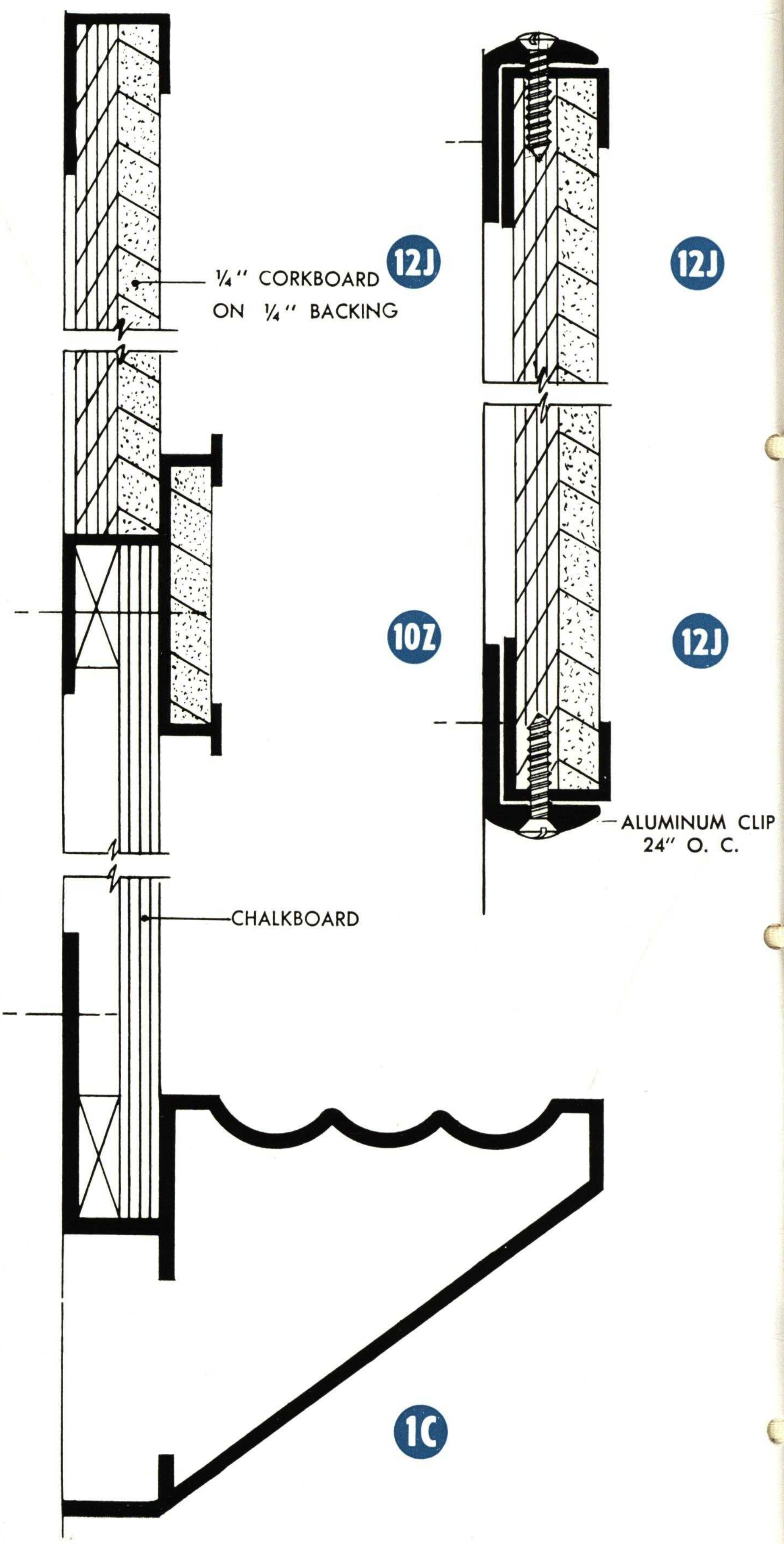

12J, 42
10Z
12J, 42
1C, 101F


12J, 42
10Z
12J, 41
44, 45
1C, 101F
1C, 101F


12J, 41
12J, 41

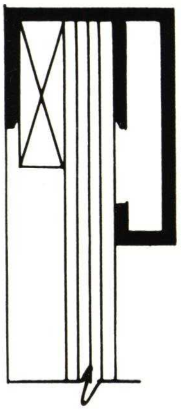

12J, 41
12J, 42
10Z
1C, 101F


12J, 41
10Z
12J, 42
44, 45
1C, 101F


¼" CORKBOARD
ON ¼" BACKING
12J
10Z
CHALKBOARD
1C
12J
12J
ALUMINUM CLIP
24" O. C.

CHALK TROUGH UNDER CORK OPTIONAL

ALL EXTRUDED TRIM IS 1/16" THICK EXCEPT CHALK TROUGH WHICH IS 3/32"



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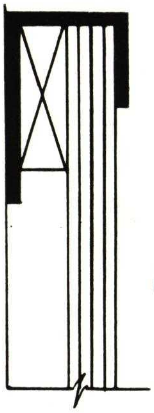
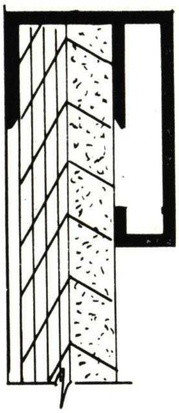


12J



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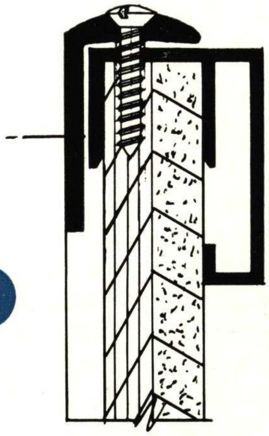

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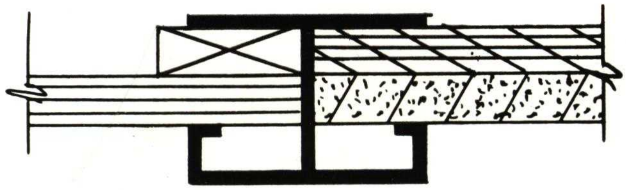

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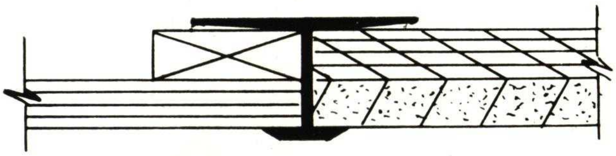

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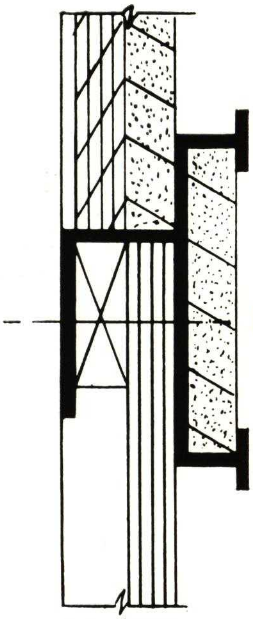
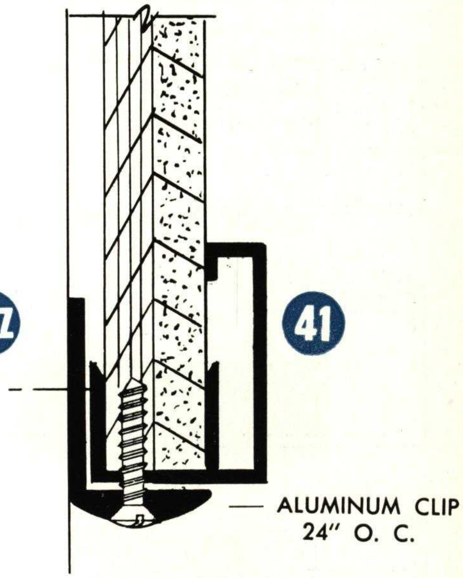
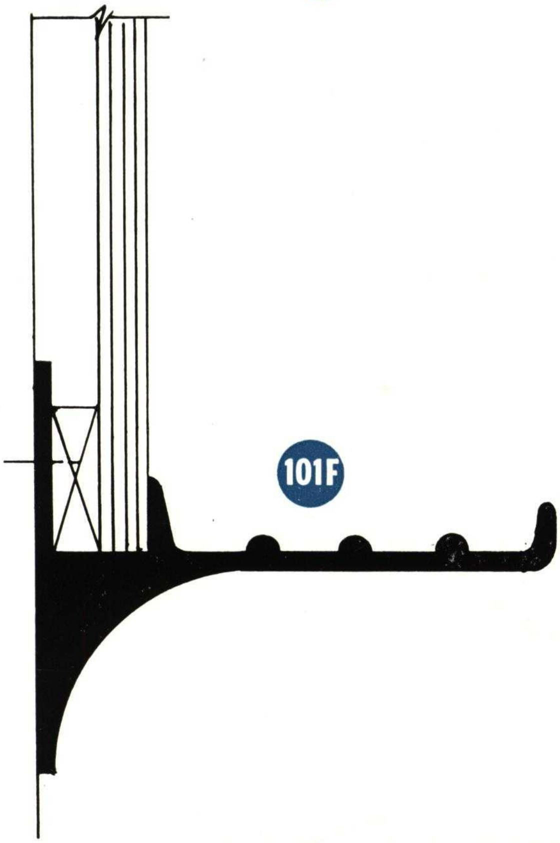


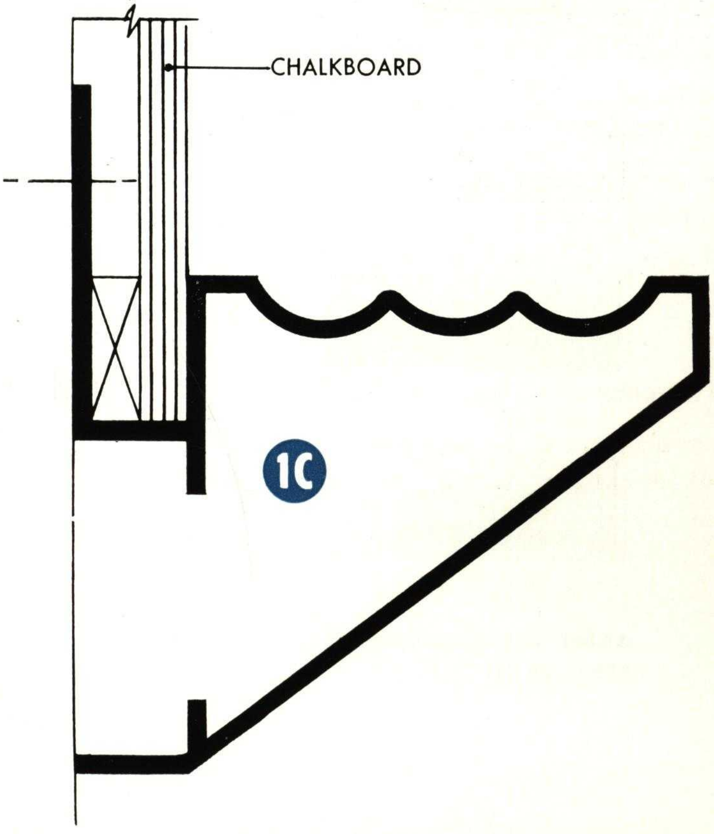
10Z


ALUMINUM CLIP
24" O. C.

41



101F


CHALKBOARD

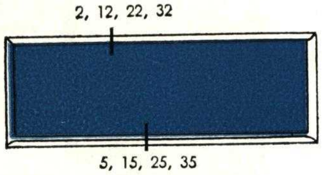
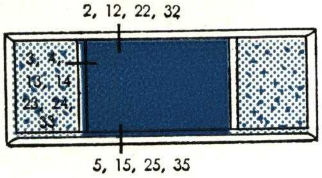
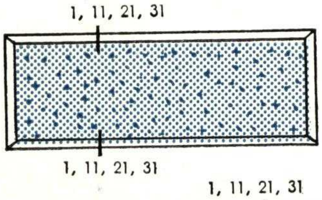
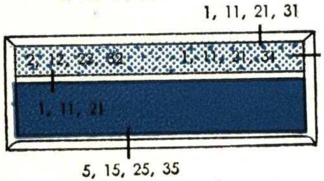
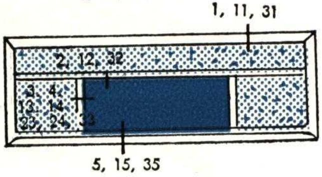
1C

ready framed boards

Gotham's economy Ready-Framed Chalkboard and Corkboard combines ease of installation, flexibility of design and economy of cost. Principles of prefabrication and precision factory production have been employed in the manufacture of Ready-Framed boards thus insuring that specifications will be met. Ready-Framed boards are delivered to the building site completely assembled for quick, simple and economical installation.

ready framed trim

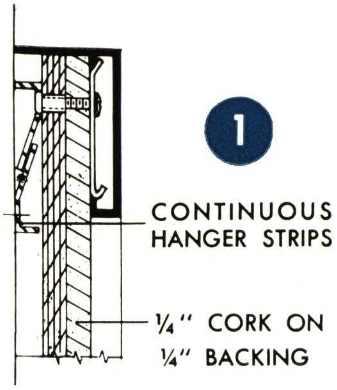
half size details

	SNAP TITE	SCREW TITE	DE LUXE
 2, 12, 22, 32 5, 15, 25, 35	✓	✓	✓
 2, 12, 22, 32 3, 4, 13, 14, 23, 24, 33 5, 15, 25, 35	✓	✓	
 1, 11, 21, 31 1, 11, 21, 31	✓	✓	✓
 1, 11, 21, 31 2, 12, 22, 32 1, 11, 21, 31 1, 11, 21 5, 15, 25, 35	✓	✓	✓
 1, 11, 31 2, 12, 32 3, 4, 13, 14, 23, 24, 33 5, 15, 35	✓	✓	

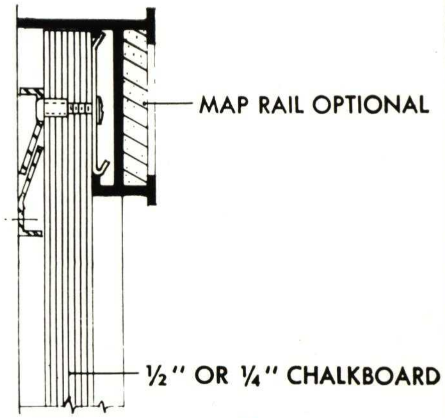
note: For recommended specifications see page 21.

half full size details

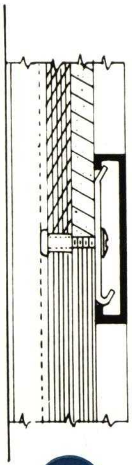
Snap-Tite


CONTINUOUS HANGER STRIPS
¼" CORK ON ¼" BACKING

1


MAP RAIL OPTIONAL
½" OR ¼" CHALKBOARD

2



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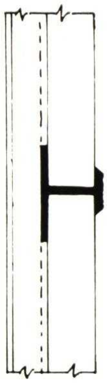

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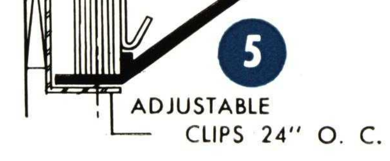
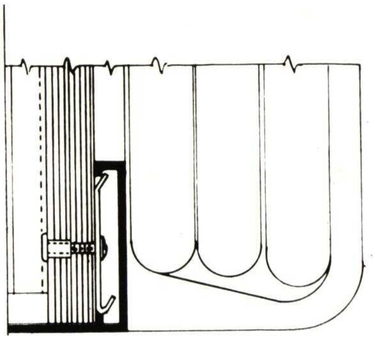
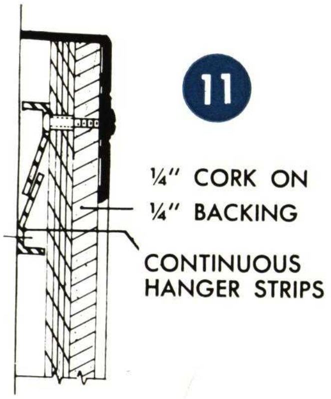

ADJUSTABLE CLIPS 24" O. C.

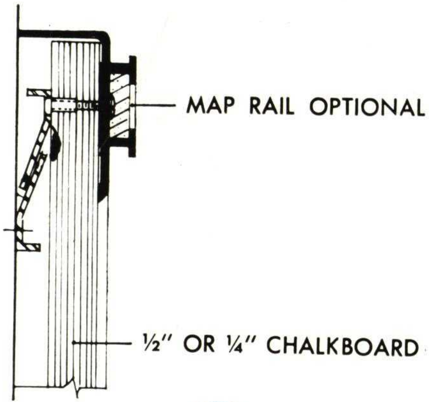
5



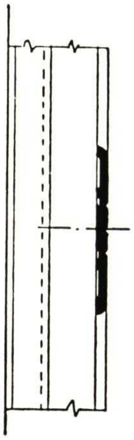
PLAN AT "1"

Screw-Tite


11
¼" CORK ON
¼" BACKING
CONTINUOUS
HANGER STRIPS


MAP RAIL OPTIONAL
½" OR ¼" CHALKBOARD

12



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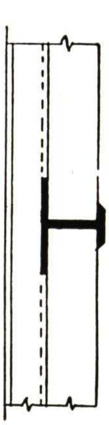

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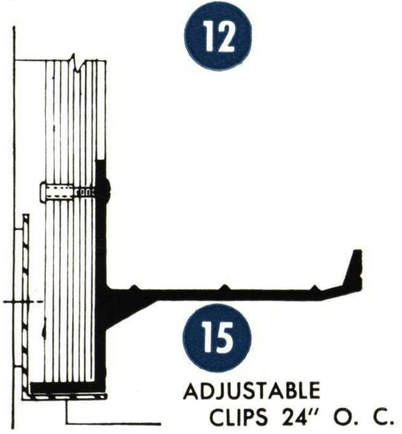
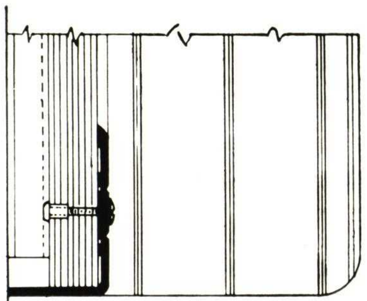
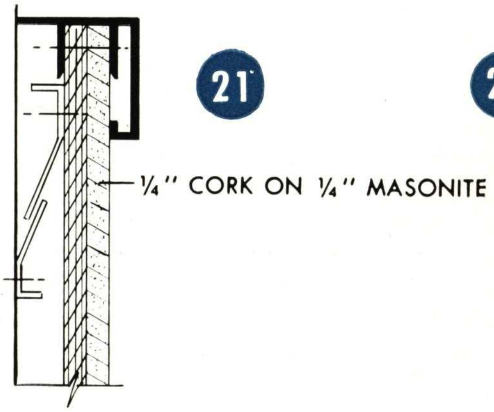
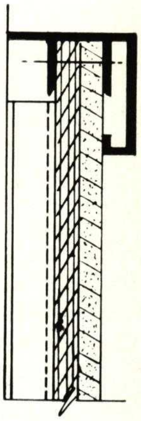

15
ADJUSTABLE
CLIPS 24" O. C.

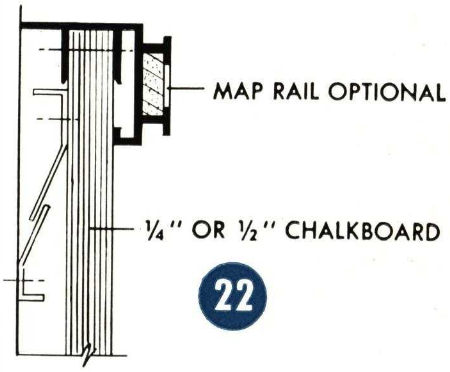


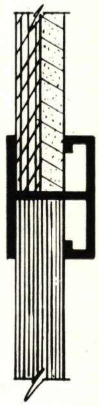
PLAN AT "11"

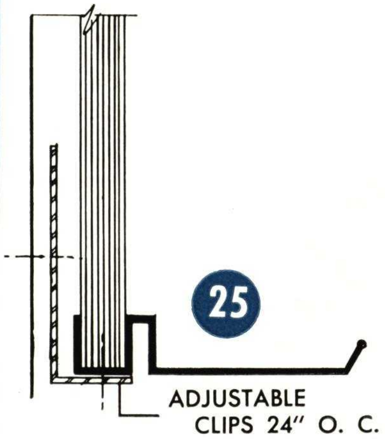
De luxe

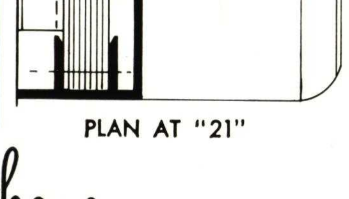

21
¼" CORK ON ¼" MASONITE




MAP RAIL OPTIONAL
¼" OR ½" CHALKBOARD
22




25
ADJUSTABLE
CLIPS 24" O. C.

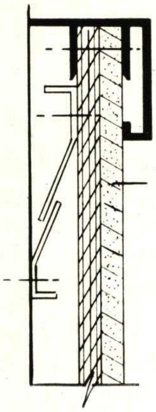


PLAN AT "21"

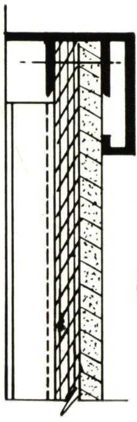
ready framed boards

half full size details

Deluxe


¼" CORK ON ¼" BACKING

21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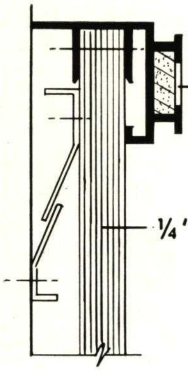
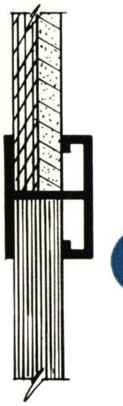

MAP RAIL OPTIONAL

¼" OR ½" CHALKBOARD

22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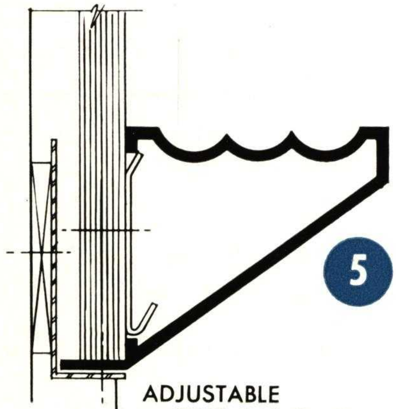
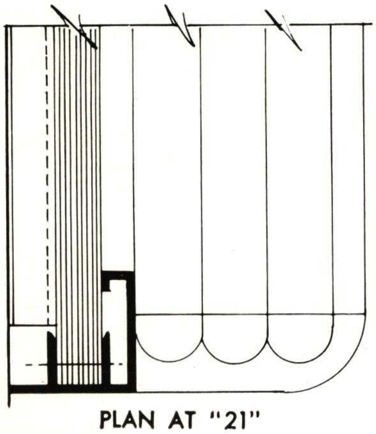
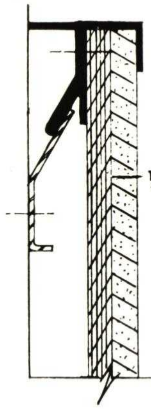

5

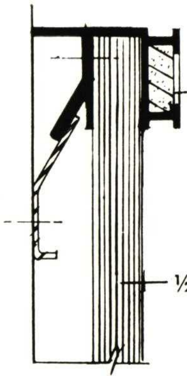
ADJUSTABLE CLIPS 24" O. C.


PLAN AT "21"

"J" Trim

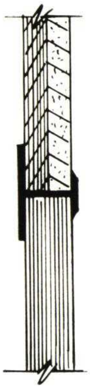

¼" CORK ON ¼" BACKING

31


MAP RAIL OPTIONAL

32

½" OR ¼" CHALKBOARD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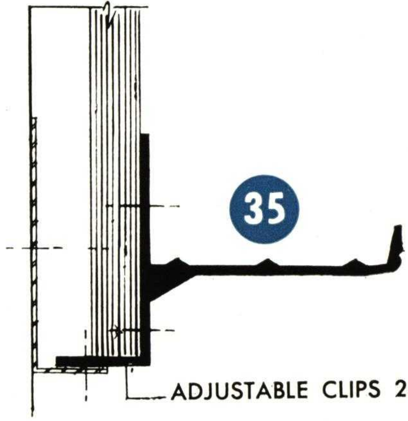
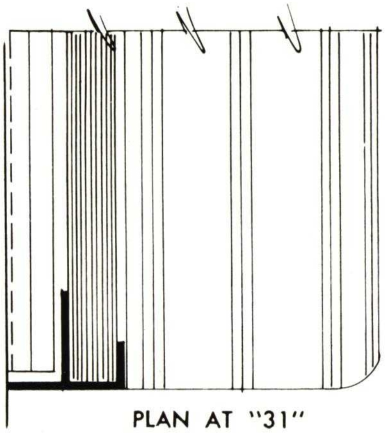

35

ADJUSTABLE CLIPS 24" O. C.


PLAN AT "31"

ready-framed boards

recommended specifications

All chalkboards and corkboards shall be Gotham Ready-framed (specify type) trim. Chalkboards shall be (specify type). Corkboards shall be (specify type). They shall be shipped to the job site completely framed and ready for field installation. All mitres, butt joints, etc., shall be made at the factory and all trim securely fastened to the chalkboards and corkboards.

Continuous 16 gauge galvanized steel hanging bars shall be fastened to all boards at the top of each unit at the factory. Continuous hanging bars shall be furnished for fastening to walls behind chalkboards and corkboards.

Adjustable clips shall be furnished for positioning all boards along bottom edge. These clips shall be installed 24" O.C. Spotting cement shall be furnished for use across horizontal center of all units.

recommended size limitations *

type and thickness of chalkboard and corkboard	"J" Trim	DeLuxe	Screw-Tite	Snap-Tite
¼" composition chalkboards: or ⅛" cork mounted on ⅜" backing or ¼" cork mounted on ¼" backing	12′-0″	12′-0″	12′-0″	12′-0″
½" composition chalkboards: or combination chalkboard-corkboard units	16′-0″	16′-0″	16′-0″	16′-0″
Ceramo-Steel, Vitro-Matic or Hi-Temp steel chalkboards	16′-0″	16′-0″	16′-0″	16′-0″

* These limitations in size are recommended for efficiency, ease of handling and economy of fabrication. Larger size units can be furnished.

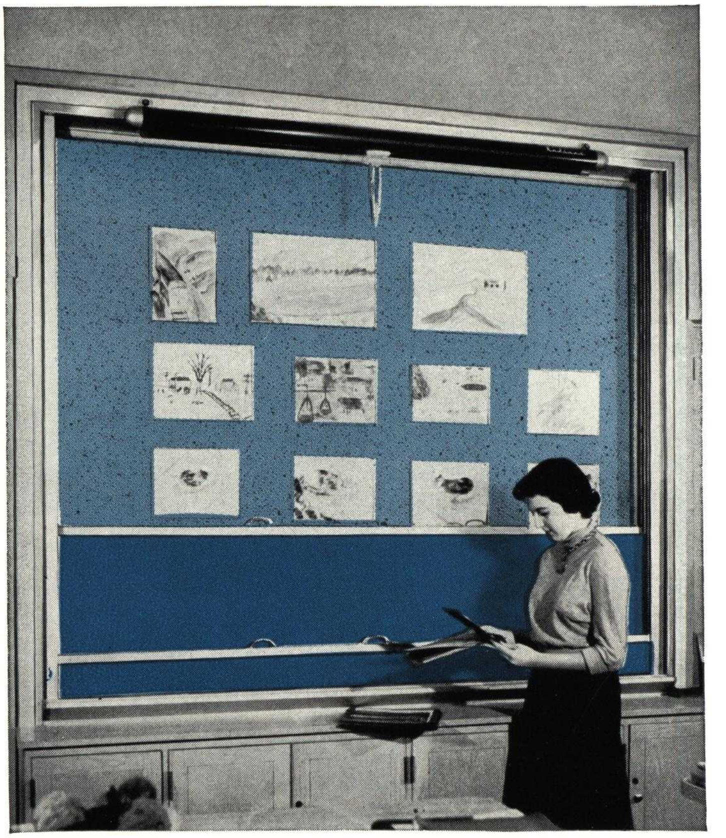
vertical

manually operated

Gotham counter-balanced chalkboards are constructed of steel casing using reinforced extruded chalkboard frames and tracks. Lead weights are used for counter-balancing. Chalkboards are attached to the lead weights with a sprocket chain passing over ball-bearing sheaves. Chalkboard panels can be moved up or down independently of each other. With all leaves in lowered position, the wall behind the chalkboard may be used for projection screen. Special nylon ball bearing rollers insure ease of operation. Maximum recommended size of individual panels is dependent upon type of chalkboards used. For "Ceramo-Steel" or "Vitro-Matic" chalkboard, 10' x 4' is maximum size. For Composition chalkboards, 12' x 4' is maximum size of individual panels. Where larger panels are required an intermediate vertical mullion piece is recommended.

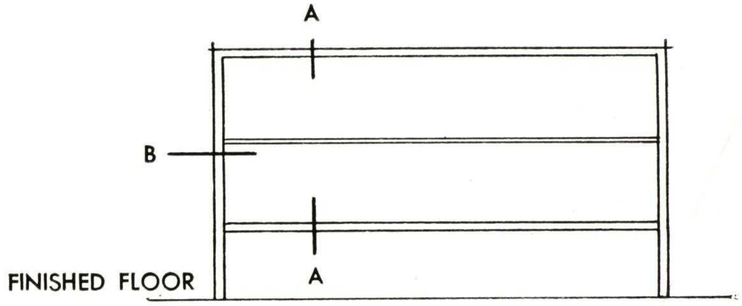
electrically operated

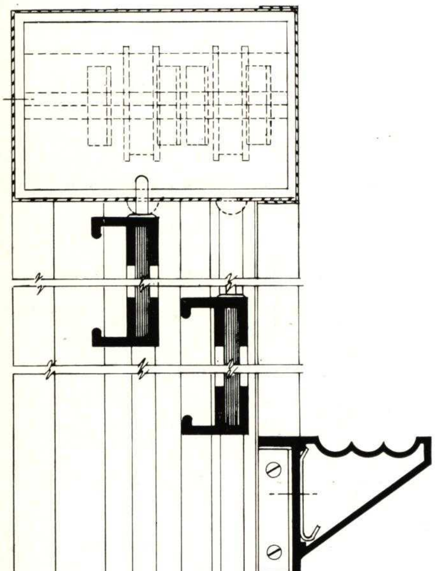
Details and information for electrically operated counter-balanced chalkboards furnished on request. These chalkboards must be custom designed to suit the individual construction problem.



details: quarter full size

item #650

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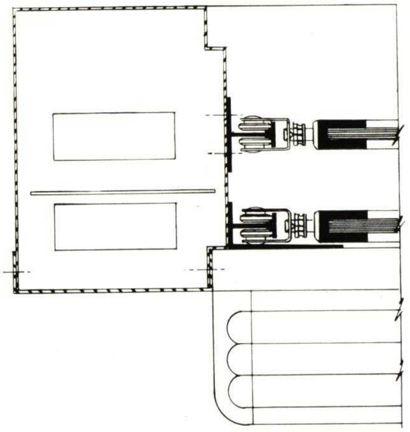

B

horizontal

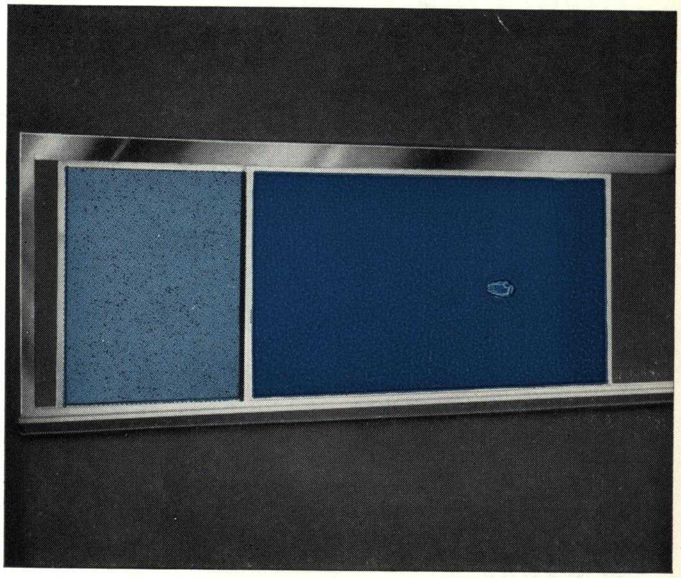
sliding

chalkboards and corkboards

Gotham horizontal sliding chalkboards are constructed of anodized tubular aluminum framing, aluminum frames for chalkboards and aluminum tracks with ball-bearing nylon rollers. Improved overhead type hardware insures maximum ease of operation.

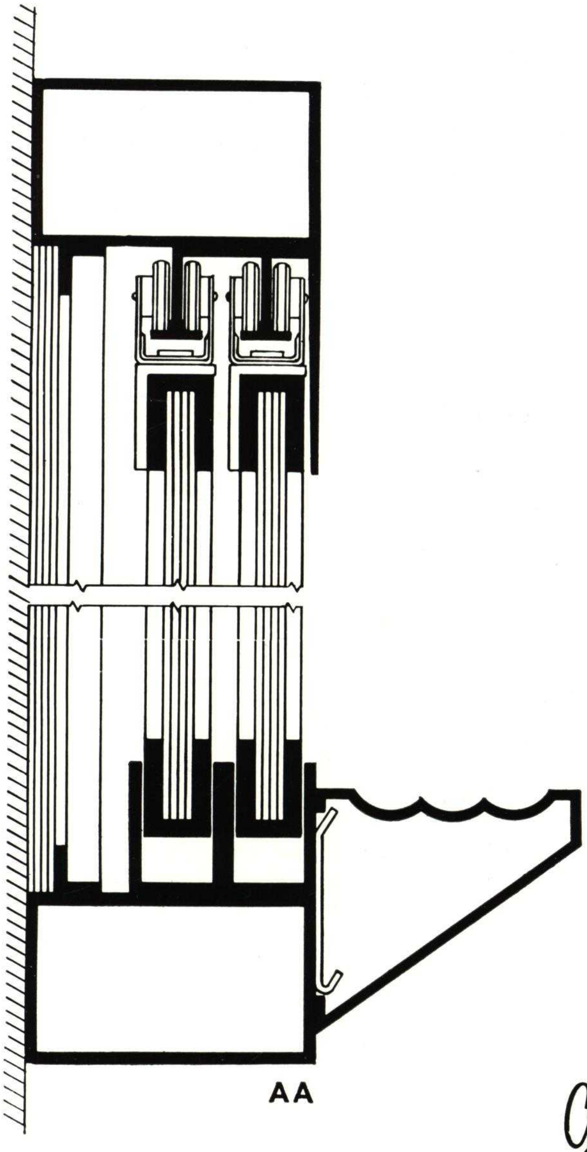
Sliding panels may either be chalkboard or corkboard. Fixed chalkboard or corkboard panel behind sliding panels is optional and may be replaced with a projection screen.

All of Gotham's superior chalkboards may be specified for standard construction.



item #600

details: half full size



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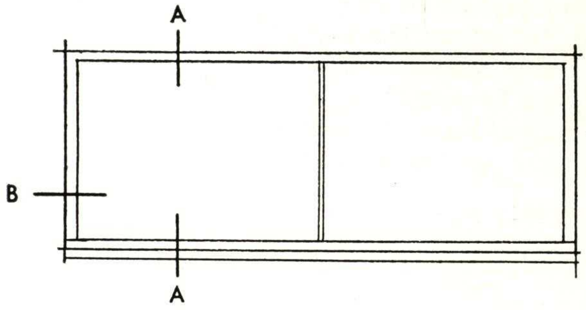
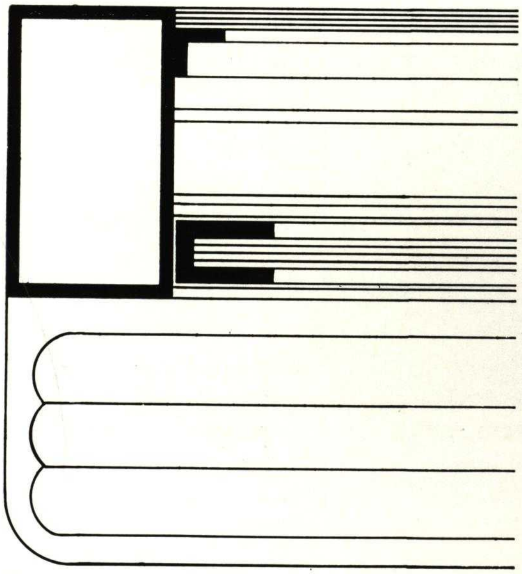
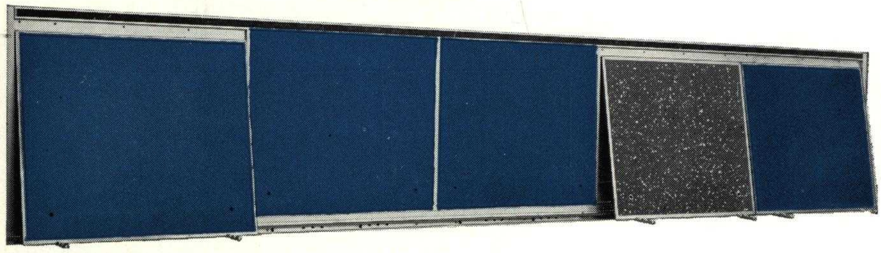




B

reversible easels



item #400

These multi-purpose reversible boards are readily adaptable to all classrooms needs. They are ideal as chalkboards, as tackboards and as adjustable easels. The map and display rail at the top facilitates the hanging of charts and maps and may also be used as a tack strip.

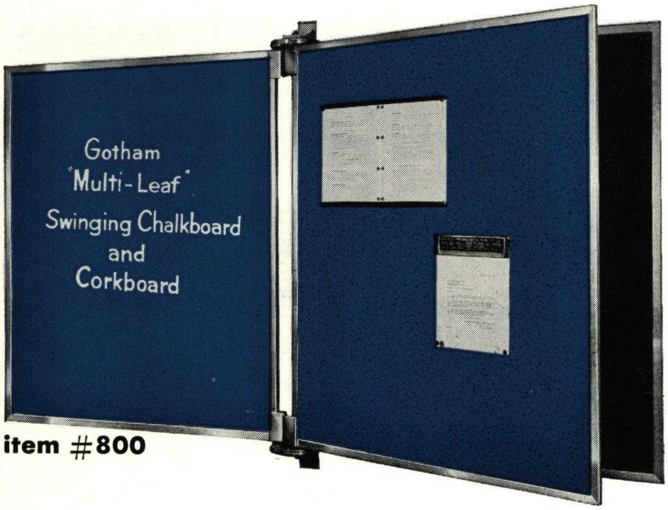
recommended specifications

All reversible easel boards shall be as manufactured by GOTHAM CHALKBOARD & TRIM CO., INC. and shall consist of extruded aluminum framing and channels for chalkboards. Map and display rail at the top shall be provided with sliding map hooks and/or paper clips as specified. The aluminum framing shall be fastened to wood grounds as provided by the Contractor. Arm brackets shall be of aluminum and notched for three different positions. Aluminum paint trays shall be attached to the arm brackets in such a manner as to be removable. The brackets are to be fastened so that they may be swung into a concealed position beneath the chalk tray when not in use.

Easel boards shall be of GOTHAM "Structo-board" on one side and GOTHAM "Unmounted" cork on the reverse side.

All aluminum shall be anodized.

swinging



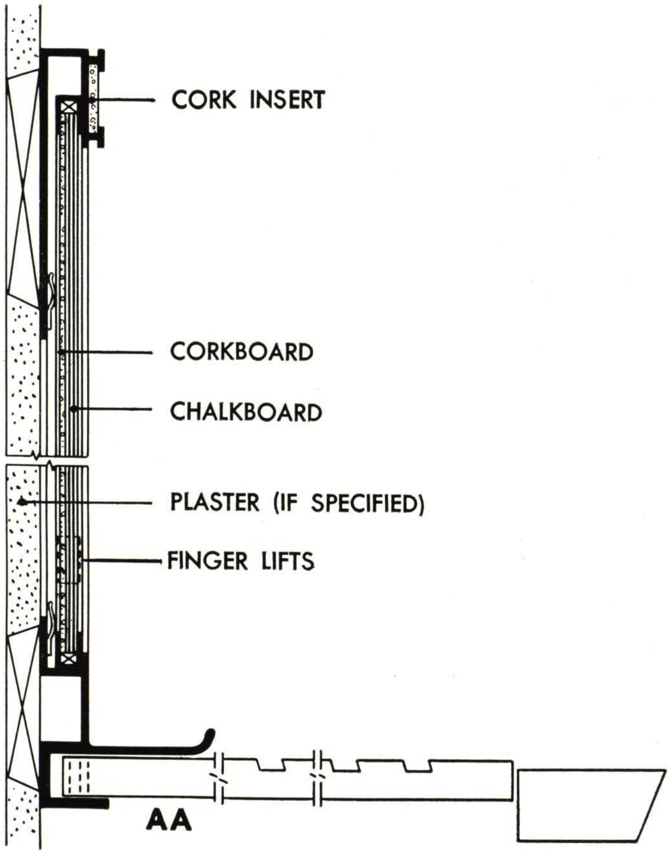
item #800

"Multi-Leaf" boards, framed with extruded aluminum sections, aluminum hardware and cadmium plated steel brackets, are at once economical and broadly adaptable. These boards can be furnished with chalkboard writing surface on one side, two sides, or chalkboard surface on one side and corkboard on the reverse side.

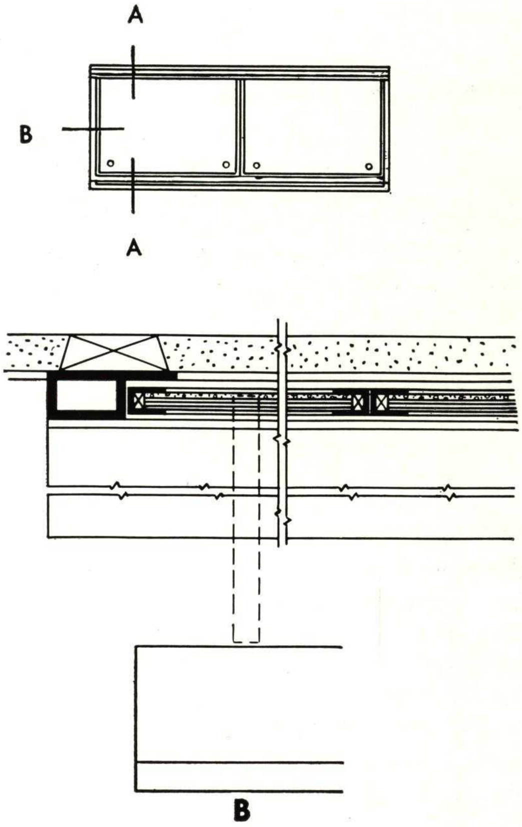
"Multi-Leaf" is fabricated in units of two to six leaves with the maximum size of each leaf 4'-0" x 4'-0". Each leaf opens to a 180° position independently of the other leaves.

Gotham Composition Chalkboards are recommended for use in "Multi-Leaf" panels.

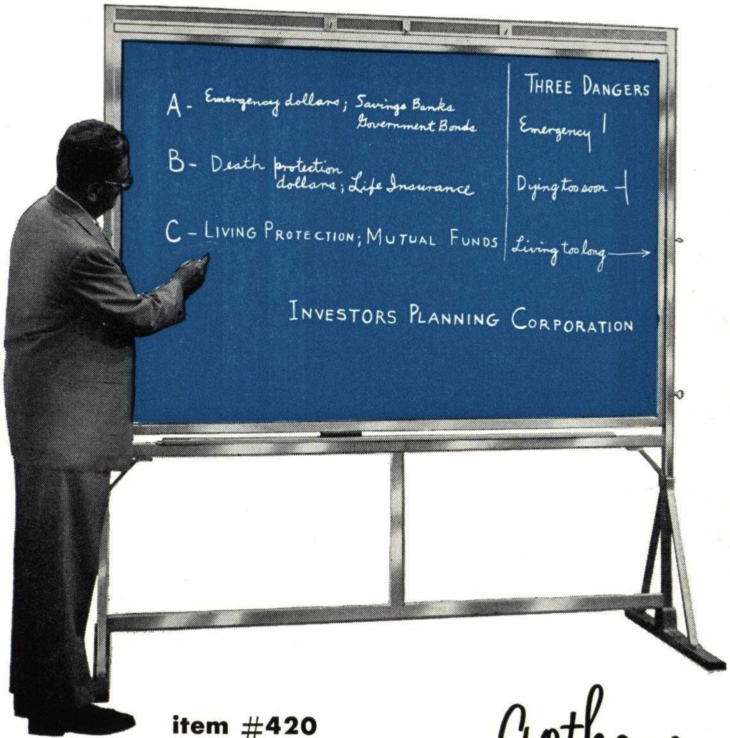
details: quarter full size


CORK INSERT
CORKBOARD
CHALKBOARD
PLASTER (IF SPECIFIED)
FINGER LIFTS
AA

framing



revolving


A- Emergency dollars; Savings Banks Government Bonds
B- Death protection dollars; Life Insurance
C- LIVING PROTECTION; MUTUAL FUNDS
THREE DANGERS
Emergency
Dying too soon
Living too long
INVESTORS PLANNING CORPORATION

item #420

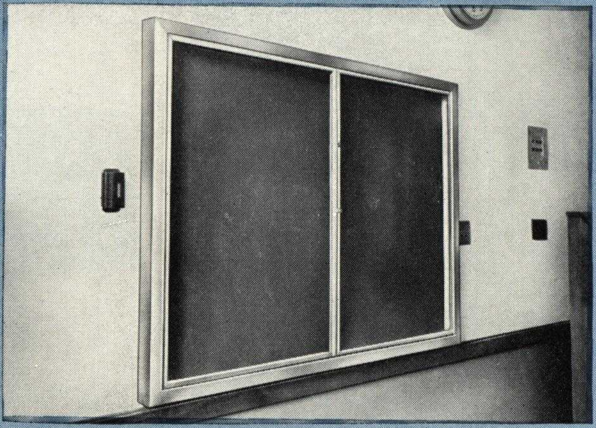
This *"Roll-A-Way"* aluminum-framed two-sided chalkboard, mounted on an all-extruded aluminum stand with ball-bearing rubber casters, offers ready mobility with attractive design.
"Roll-A-Way" chalkboards can be equipped with any of the Gotham chalkboards — surfaced on one or both sides, or with chalkboard on one side and corkboard on the reverse side.
Maximum size of chalkboard panel is 8'-0" x 4'-0". Item 420: Aluminum display rail standard equipment. (As Illustrated)
Item 430: Available without display rail.

cases

Gotham display cases are constructed of anodized extruded aluminum frames and door panels. Piano hinges, locks, knobs, catches, etc. are all solid brass with chromium plating.

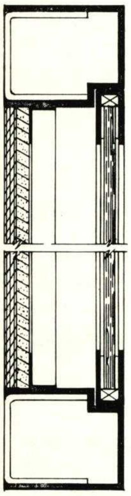
They may be installed on either plastered or unplastered walls and provide an excellent means for posting notices and bulletins in lobbies, corridors and offices. These cases feature a hinged glass door construction. **Sliding doors are also available.**

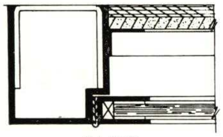
It is recommended that glass be installed at the job site by the glazing contractor on the #300 Series. **#900 Series are glazed at the factory.**



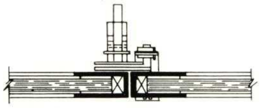
hinged

item #300

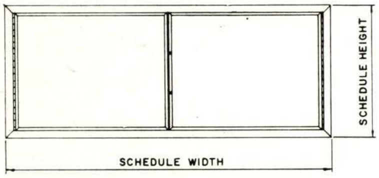




JAMB



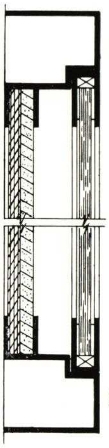
MEETING STILE

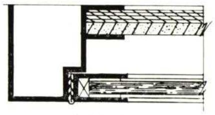


STANDARD SIZES

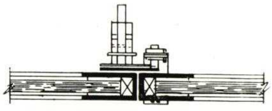
Number	Size	Number of Doors
301	24″ WIDE X 36″ HIGH	SINGLE DOOR
302	30″ WIDE X 42″ HIGH	SINGLE DOOR
303	36″ WIDE X 48″ HIGH	SINGLE DOOR
304	60″ WIDE X 42″ HIGH	TWO DOORS
305	60″ WIDE X 48″ HIGH	TWO DOORS
306	72″ WIDE X 42″ HIGH	TWO DOORS
307	72″ WIDE X 48″ HIGH	TWO DOORS

item #900

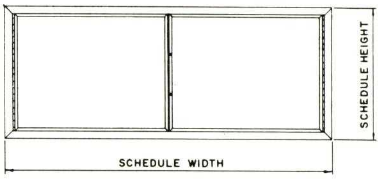




JAMB



MEETING STILE



STANDARD SIZES

Number	Size	Number of Doors
900	25″ WIDE X 36″ HIGH	SINGLE DOOR
950	48″ WIDE X 36″ HIGH	TWO DOORS

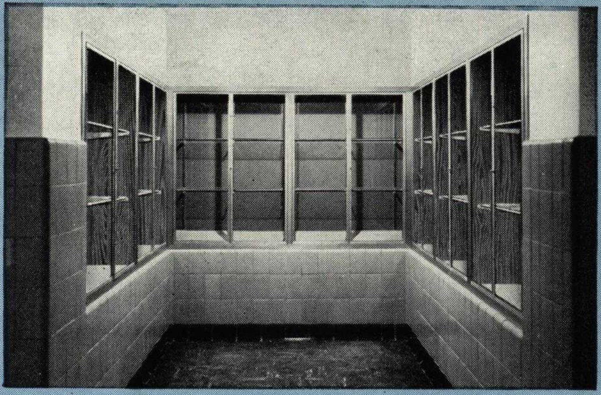
All custom fabricated or non-standard size units for #300 and #900 series will be furnished at extra cost.

cabinets

Gotham recessed type cabinets are constructed of anodized extruded aluminum frames and door panels. Hardware is solid brass with chromium plating.

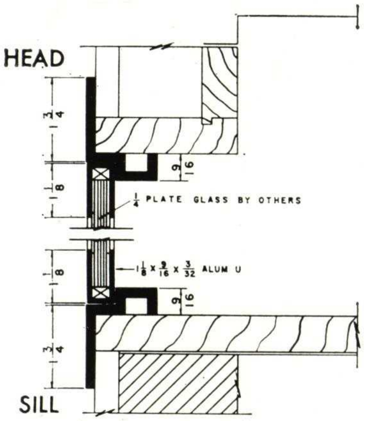
These cabinets provide excellent means for displaying trophies, exhibits, and artwork. Door panels are of hinged or sliding construction and are provided with locks.

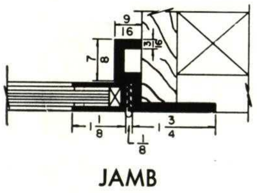
Mill work shall be furnished under mill work specifications. It is also recommended that glazing of doors, glass shelves with brackets be furnished by glazing and hardware contractors, respectively.

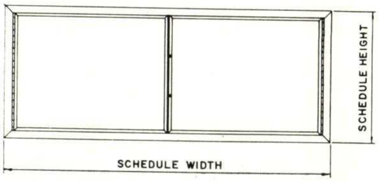


hinged

item #350


HEAD
1 3/4
9/16
1/8
1/4 PLATE GLASS BY OTHERS
1/8
1 1/8 x 3/16 x 3/32 ALUM U
9/16
1 3/4
SILL


9/16
3/16
7/8
1 1/8
1/8
1 3/4
JAMB

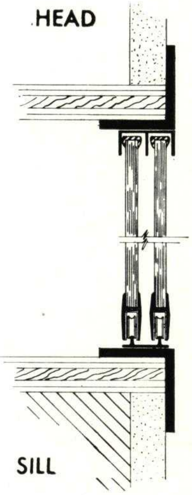

SCHEDULE HEIGHT
SCHEDULE WIDTH

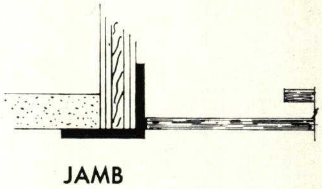
STANDARD SIZES

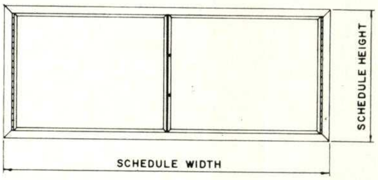
Number	Size	Number of Doors
351	24″ WIDE X 36″ HIGH	SINGLE DOOR
352	30″ WIDE X 42″ HIGH	SINGLE DOOR
353	36″ WIDE X 48″ HIGH	SINGLE DOOR
354	60″ WIDE X 42″ HIGH	TWO DOORS
355	60″ WIDE X 48″ HIGH	TWO DOORS
356	72″ WIDE X 42″ HIGH	TWO DOORS
357	72″ WIDE X 48″ HIGH	TWO DOORS

sliding

item #360






SCHEDULE HEIGHT
SCHEDULE WIDTH

STANDARD SIZES

Number	Size	Number of Doors
364	60″ WIDE X 42″ HIGH	TWO DOORS
365	60″ WIDE X 48″ HIGH	TWO DOORS
366	72″ WIDE X 42″ HIGH	TWO DOORS
367	72″ WIDE X 48″ HIGH	TWO DOORS

GOTHAM

chalkboards

corkboards

aluminum trim

applications

display cases and cabinets

Gotham CHALKBOARD and TRIM CO., INC.
91 WEYMAN AVENUE • NEW ROCHELLE • NEW YORK

23e
Ko

KOROK®

World's Largest Selling
Steel Chalkboard

CHALKBOARD

KOROK INC.
DIVISION THE ENAMEL PRODUCTS COMPANY

KOROK®

permanent modern steel chalkboard

KOROK is the most durable of chalkboards and is maintenance free. Its superior surface texture permits easy writing and erasure. The surface hardness eliminates pampering. Wash with water and any household cleanser when needed and the KOROK Chalkboard will look like new for the life of the building. KOROK is also a magnetic tackboard. With the use of magnets —bulletins, displays and other papers may be supported on the entire surface.

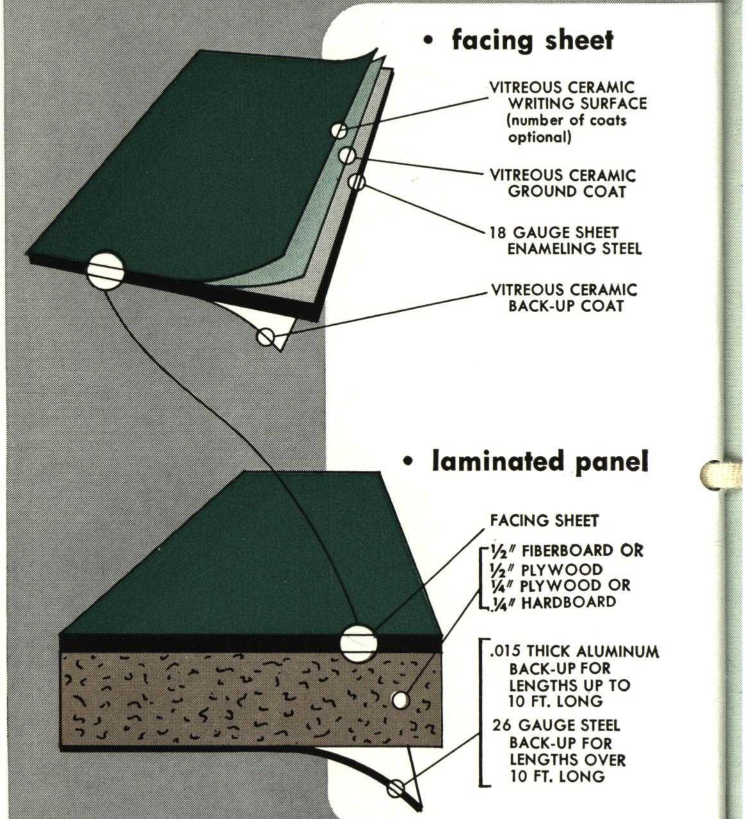
KOROK INC., DIVISION, THE ENAMEL PRODUCTS COMPANY, manufacturer of KOROK ceramic porcelain-on-steel chalkboard is backed by a half century of continuous experience. It is the only ceramic porcelain enameling manufacturer of its kind that not only produces the writing surface but also has national distribution through its own distributors in franchised territories who render a complete installation service.

KOROK MARK I AND KOROK MARK III — For years KOROK Mark I Chalkboard has been the epitome of quality. Now, after thorough testing by an impartial laboratory, KOROK Mark III Chalkboard has been introduced in conjunction with Mark I. Mark III is the optimum balance between maximum in quality and economy. Both are backed by identical guarantees.

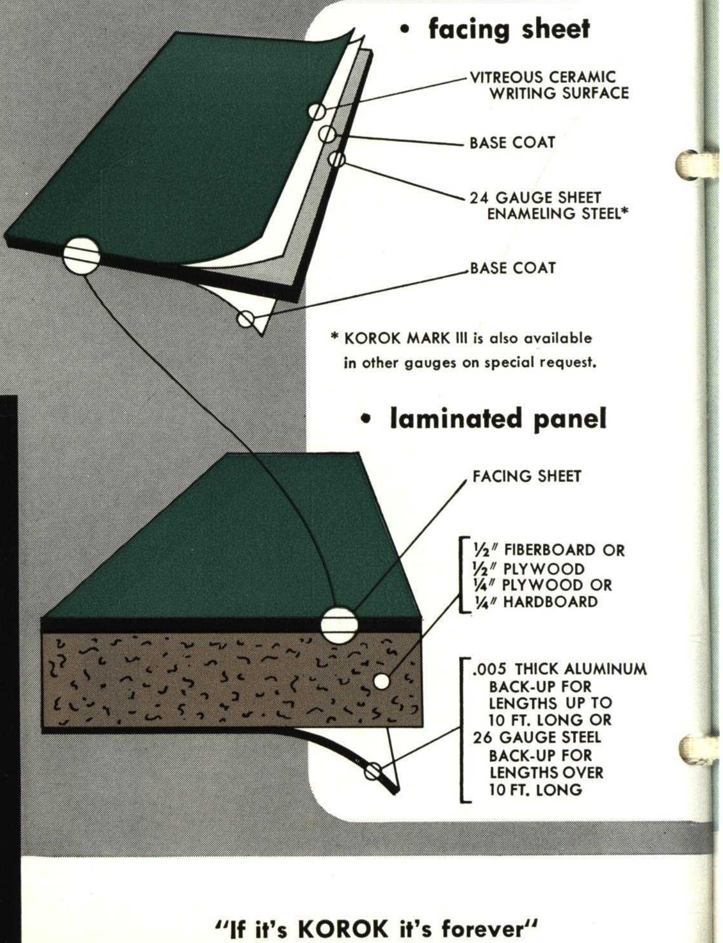
Standard colors—at no extra cost. KOROK green, blue, tan, slate grey and grey, have been scientifically developed in conjunction with lighting engineers and color consultants. Each of these colors have been field tested to provide optimum contrast, reflectance and visability to assure maximum eye ease. Each color blends with or complements the colors most commonly used in today's classrooms.

Projection Grey Chalkboard available in Mark I only, can be used as a projection screen, as well as chalkboard and magnetic tackboard. As a projection screen it provides sharp definition of projected images. Its low color intensity provides excellent writing contrast with special chalk. The practicality of projection grey has been proven in IBM Sales training offices throughout the country.

KOROK MARK 1 CHALKBOARDS


• facing sheet
VITREOUS CERAMIC WRITING SURFACE (number of coats optional)
VITREOUS CERAMIC GROUND COAT
18 GAUGE SHEET ENAMELING STEEL
VITREOUS CERAMIC BACK-UP COAT
• laminated panel
FACING SHEET
½" FIBERBOARD OR
½" PLYWOOD
¼" PLYWOOD OR
¼" HARDBOARD
.015 THICK ALUMINUM BACK-UP FOR LENGTHS UP TO 10 FT. LONG
26 GAUGE STEEL BACK-UP FOR LENGTHS OVER 10 FT. LONG

KOROK MARK 111 CHALKBOARDS


• facing sheet
VITREOUS CERAMIC WRITING SURFACE
BASE COAT
24 GAUGE SHEET ENAMELING STEEL*
BASE COAT
• laminated panel
FACING SHEET
½" FIBERBOARD OR
½" PLYWOOD
¼" PLYWOOD OR
¼" HARDBOARD
.005 THICK ALUMINUM BACK-UP FOR LENGTHS UP TO 10 FT. LONG OR
26 GAUGE STEEL BACK-UP FOR LENGTHS OVER 10 FT. LONG

* KOROK MARK III is also available in other gauges on special request.

7356L green
7552M slate grey
7305Y blue
7551S grey
7405F tan
7552R projection grey (Mark 1 only)

"If it's KOROK it's forever"

specifications

(Architect should select the method of installation before specifying chalkboard. See index to installations on page 5 and specifications and details on pages 6 through 17.)

1. GENERAL—All chalkboards shall be KOROK porcelain enamel steel chalkboards as manufactured by KOROK INC., Division, The Enamel Products Company of Cleveland, Ohio, in accordance with The Performance Specifications for Porcelain Enamel Chalkboards S-104 of The Porcelain Enamel Institute. The chalkboard shall be capable of supporting papers by means of magnets. The writing surface shall be in KOROK Standard colors as selected by architect and shall resist wear and damage from shock and abrasion and shall not dent, shatter or crack. It shall retain its original color, writing and erasing qualities and shall not become glossy or shiny in normal schoolroom use. Steel chalkboards shall be guaranteed, under normal conditions of usage for the life of the building in which they are installed in accordance with the manufacturer's directions.

2. FACING SHEET—*(include here either paragraph 2a or 2b depending on final choice of the Mark I or Mark III facing.)*

alternate 2a—Mark I facing

A vitreous ceramic material shall be fused to both front and back surfaces of 18 gauge enameling iron at temperatures in excess of 1500°F. Thereafter a hard vitreous ceramic chalkboard facing coat shall be fused to the front with controlled thickness to maintain uniformity of color and writability.

alternate 2b—Mark III facing

The chalkboard shall consist of 24 gauge steel with a base coat on front and back surfaces. Thereafter a hard vitreous ceramic chalkboard facing coat shall be fused to the front surface.

3. LAMINATING INSTRUCTIONS—Factory laminated chalkboards shall be balanced and moisture sealed by the use of a core material and aluminum backing sheet. The surface facing and the backing shall be bonded to the core material by means of a special flexible adhesive developed for this purpose with no unbonded areas. The face and back shall not be removable without rupturing the core material nor shall either panel delaminate under normal schoolroom use.

Jointing of chalkboards shall be reinforced with a 14 gauge steel spline tightly fitted into rabbeted grooves. The chalkboard facing shall butt smoothly and exposed metal joint covers shall not be used.

4. CORE MATERIAL—*(Include here either paragraph 4a or 4b depending on choice of Mark I or Mark III Facing.)*

alternate 4a for Mark I facing

The core material shall be either fir plywood or ¼″ standard Masonite as specified by the architect and the hardened aluminum backing sheet shall be .015 in thickness.

alternate 4b for Mark III facing

The core material shall be ¼″ fir plywood or hard board as specified by the architect and the backing sheet of hardened aluminum shall be .005 in thickness.

5. TACKBOARD—*(See pages 18 and 19 for selection and specifications.)*

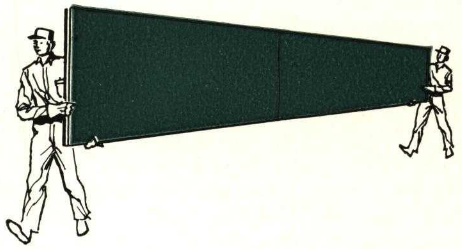
6. TRIM—All exposed aluminum trim shall be 6063T5 anodized satin aluminum finish.

7. ACCESSORIES—shall be as follows: *(Architect should insert schedule, see pages 6 through 17 for selections.)*

8. INSTALLATION—*(Insert specification on installation selected from pages 6 through 17.)*

KOROK®

extra-length chalkboards



NEW. Extra-length ready-framed boards (see Page 11) now available up to 21 feet long in both KOROK Mark I and Mark III chalkboards. Core material is ½-inch fiberboard. Backing sheet material for lengths up to 10 feet is .015 aluminum sheet for Mark I and .005 for Mark III; for lengths over 10 feet backing sheet material is 26 gauge galvanealed sheet steel for both Mark I and Mark III. Continuous factory lamination process affords factory-perfected seams and maximum flatness of both chalkboard and tackboard. One-piece continuous chalktray is pre-fitted and shipped in separate container ready for easy assembly at location.

CAUTION to ARCHITECTS. Extra-length ready-framed boards should be specified only where feasible. It is suggested that the KOROK installer be consulted to determine whether the width of corridors, location of doors, staircases, etc., will permit movement of extra-length boards to location.

standard chalkboard panel sizes

Widths—36″, 42″, 48″.

Lengths—60″, 72″, 80″, 84″, 90″, 96″, 108″, 120″.

Smaller sizes or sizes between standard sizes are also available.

GUARANTEE

All KOROK Chalkboards are guaranteed under normal conditions of usage, for the life of the building in which they are installed in accordance with the manufacturer's directions. Defective panels will be replaced.

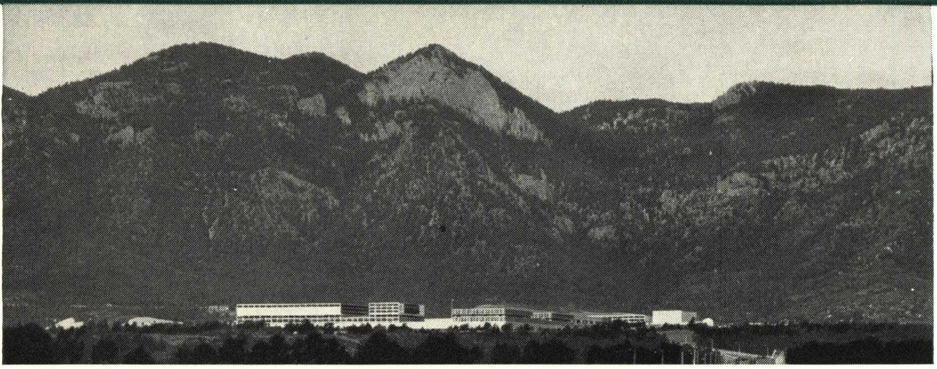
METHODS OF INSTALLATION

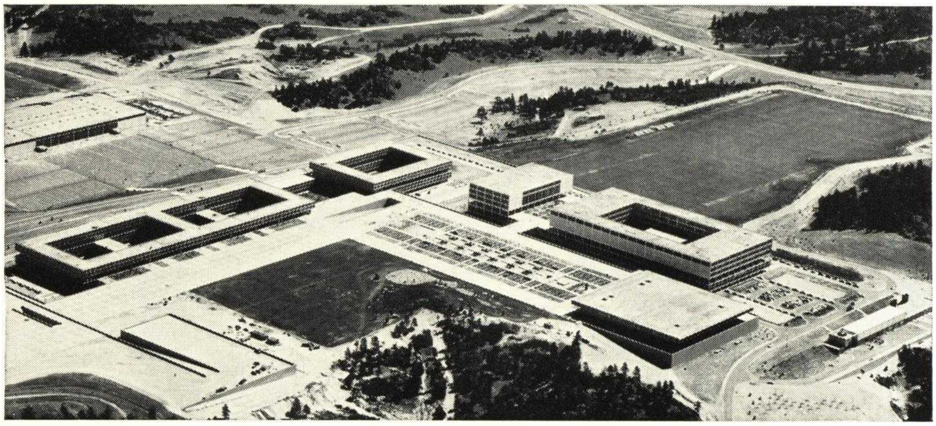
custom
Air Force Academy

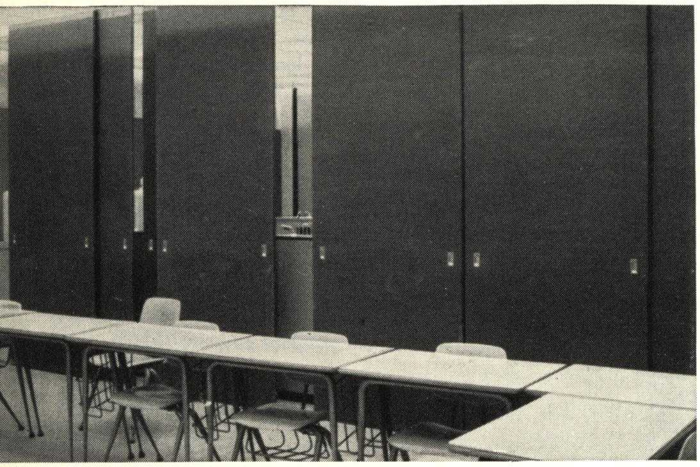
The largest single chalkboard installation in history was completed in 1958 at the United States Air Force Academy at Colorado Springs where 168,000 square feet of KOROK steel chalkboards were used exclusively. Designed by Skidmore Owings and Merrill, Architects, this job involved custom details throughout. It is an outstanding example of how KOROK-trained personnel—from the factory to the final installation team—were coordinated successfully. KOROK—and only KOROK—controls the actual manufacture of steel chalkboards to their final installation.

In special purpose classrooms there are chalkboards with permanent graph lines and in various colors, including KOROK projection grey. Here the versatility and permanence of KOROK steel chalkboards is a vital teaching aid in this up-to-date educational monument.

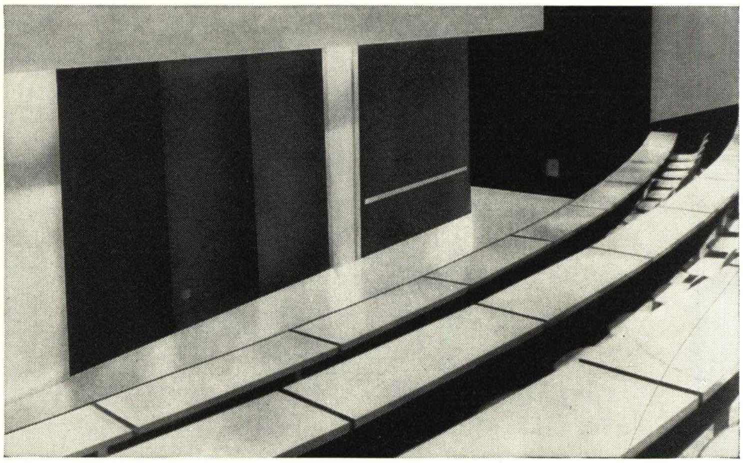
The typical classroom is inside and windowless, the entire front wall area is covered from floor to ceiling with horizontal sliding chalkboards and the remaining three walls are banded with five-foot high chalkboards.





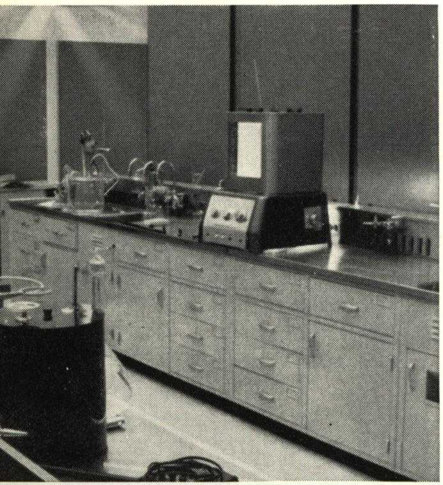


Sliding chalkwalls in chemistry rooms.

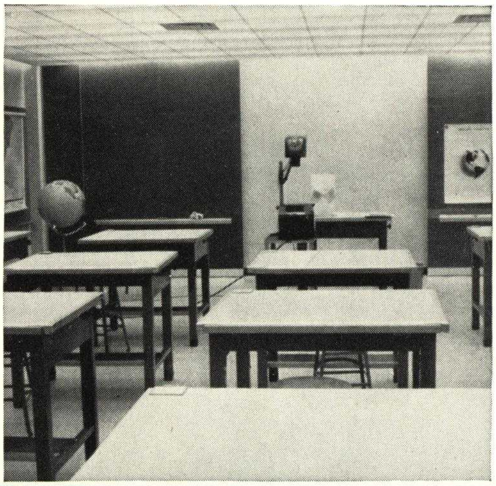


Lecture room amphitheatre with 10 by 10 foot horizontally sliding chalkwall panels.

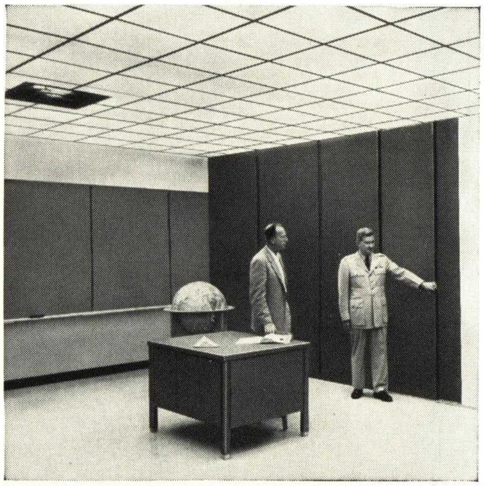
Fixed chalkboards and sliding chalkwalls in typical physics laboratory.



Sliding chalkwall and projection grey chalkboard in drafting room.



Fixed chalkboards and sliding chalkwall in typical classroom.



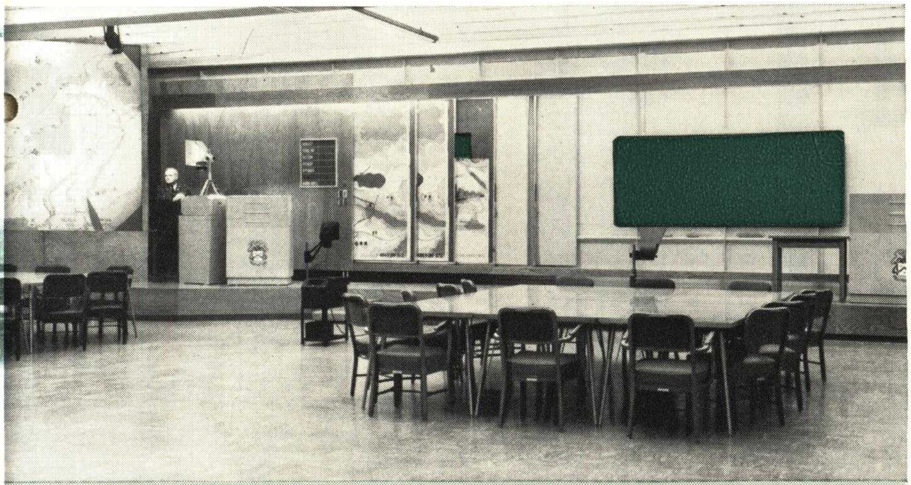
custom
Army Command and General Staff College

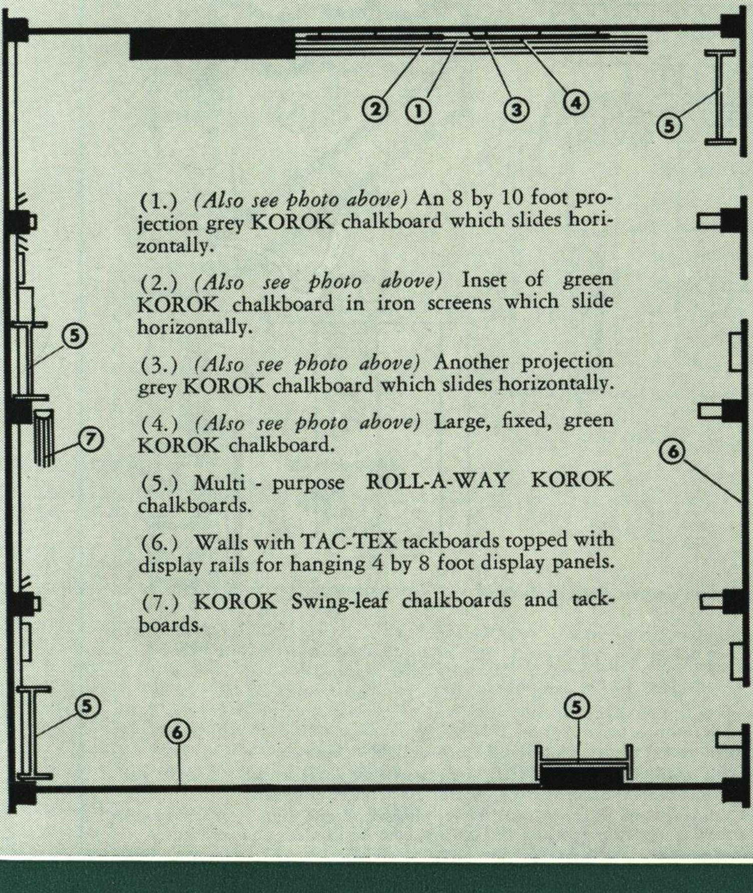
Chalkboards at the U. S. Army Command and General Staff College at Fort Leavenworth, Kansas are floor-to-ceiling horizontal sliding type. In photograph below they are shown partially nested behind the panel hideaway at left center.

Here projection grey boards show the wide versatility of KOROK Steel Chalkboards. Magnetic mock-ups and colored chalk, including fluorescent chalk and charcoal, are superimposed over the projected images to show action and changing conditions.

The multiple uses of KOROK Steel Chalkboards also enable the instructor to demonstrate and explain highly technical and complex subjects which instruction was limited heretofore to costly working models.

KOROK Projection Grey was developed originally to meet specifications of the International Business Machine Corporation for their numerous IBM training centers. Since then this color has been adopted as the standard projection chalkboard color in U. S. Military educational establishments. Special colored and fluorescent chalk has been developed by leading chalk manufacturers for KOROK's Projection Grey Boards.





(1.) *(Also see photo above)* An 8 by 10 foot projection grey KOROK chalkboard which slides horizontally.

(2.) *(Also see photo above)* Inset of green KOROK chalkboard in iron screens which slide horizontally.

(3.) *(Also see photo above)* Another projection grey KOROK chalkboard which slides horizontally.

(4.) *(Also see photo above)* Large, fixed, green KOROK chalkboard.

(5.) Multi - purpose ROLL-A-WAY KOROK chalkboards.

(6.) Walls with TAC-TEX tackboards topped with display rails for hanging 4 by 8 foot display panels.

(7.) KOROK Swing-leaf chalkboards and tackboards.

standard

KOROK, Inc., Division The Enamel Products Company, manufacturer of KOROK ceramic steel chalkboards, is backed by a half century of continuous experience. It is the only ceramic porcelain enameling manufacturer of its kind that not only produces the writing surface but also has a national distribution through its own distributors who render a complete installation service, see page 18.

A fine chalkboard deserves to be properly installed. In this catalog KOROK presents 10 standard methods of installation fully detailed with complete specifications. Each method has been field-tested; each has its specific purpose and its own system of materials; each has the flexibility to give the user the exact combination of chalkboard and tackboard surfaces desired.

INDEX

INSTALLATIONS WITH SNAP-ON TRIM
with factory laminated panels page 6
custom bonded page 7

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VERTICAL SLIDING CHALKBOARD INSTALLATIONS page 13

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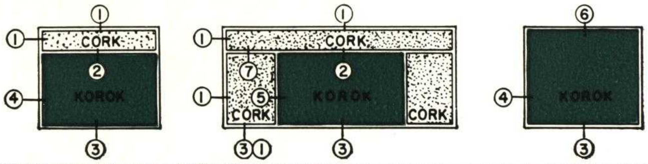
BULLETIN BOARD CASES page 16

DISPLAY OR TROPHY CASE FRONTS page 17

TACKBOARDS page 18

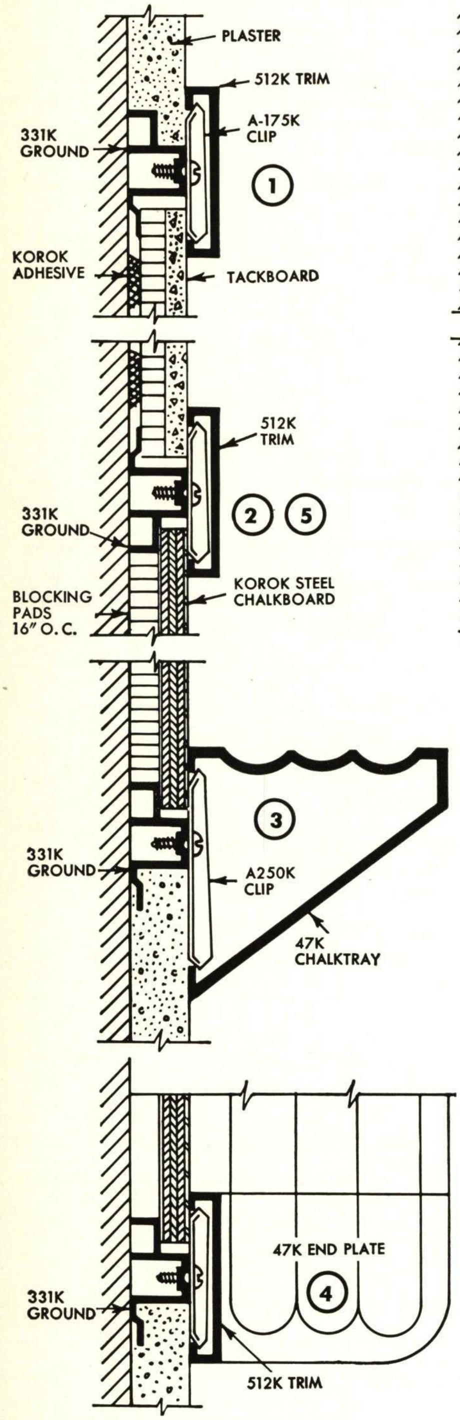
INSTALLATION with SNAP-ON METAL TRIM

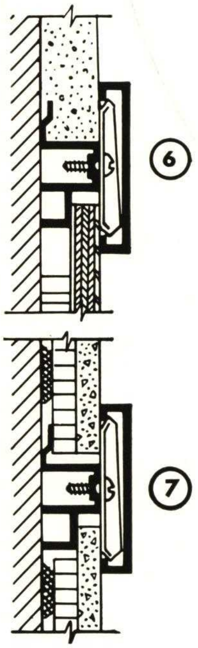
6″ = 1′-0″ Full size details on request


①
①
CORK
②
④
KOROK
③
①
①
CORK
⑦
②
①
⑤
KOROK
CORK
CORK
③①
③
⑥
④
KOROK
③

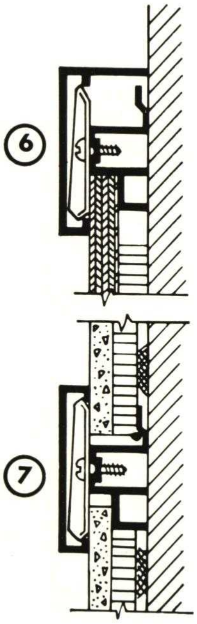
WITH FACTORY LAMINATED PANELS

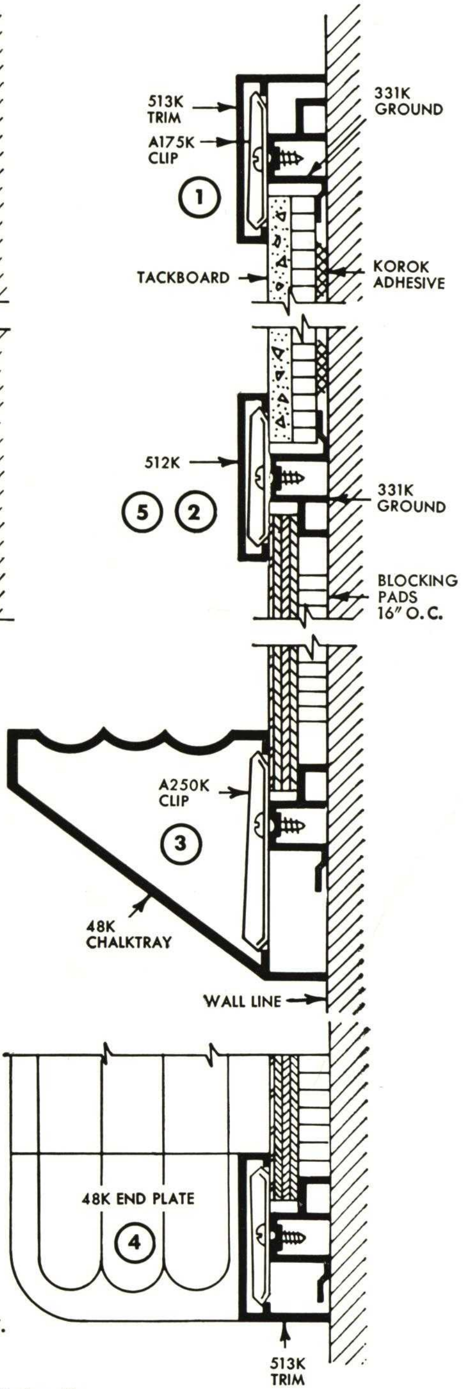
recessed in plaster walls

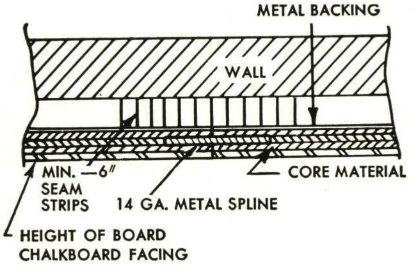

PLASTER
512K TRIM
A-175K CLIP
331K GROUND
①
KOROK ADHESIVE
TACKBOARD
512K TRIM
331K GROUND
② ⑤
BLOCKING PADS 16″ O.C.
KOROK STEEL CHALKBOARD
③
331K GROUND
A250K CLIP
47K CHALKTRAY
47K END PLATE
④
331K GROUND
512K TRIM



surface mounted




513K TRIM
A175K CLIP
331K GROUND
①
TACKBOARD
KOROK ADHESIVE
512K
331K GROUND
⑤ ②
BLOCKING PADS 16″ O.C.
A250K CLIP
③
48K CHALKTRAY
WALL LINE
48K END PLATE
④
513K TRIM


METAL BACKING
WALL
MIN. —6″ SEAM STRIPS
14 GA. METAL SPLINE
CORE MATERIAL
HEIGHT OF BOARD CHALKBOARD FACING

SPLINE DETAIL FOR BUTT JOINT

For selection of display rails and accessories see page 7.

specifications

(Refer to page 3 for general specifications and for chalkboards [specify laminated panel, ¼″ core] and see page 18 for tackboard.)

INSTALLATION

Chalkboard and tackboard shall be recessed (or surface-mounted) with KOROK snap-on aluminum trim as detailed.

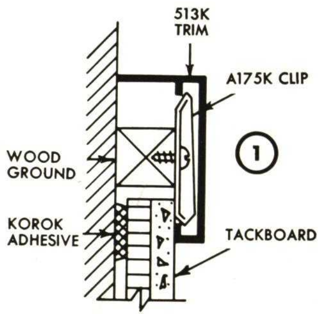
Grounds shall be tempered aluminum (or wood) as detailed; shall be aligned and shimmed to a true plane and shall be secured with screws and rawl plugs, nails, or expansion bolts to suit wall conditions; maximum spacing of fasteners to be on 12″ centers under chalkboard and 20″ centers elsewhere.

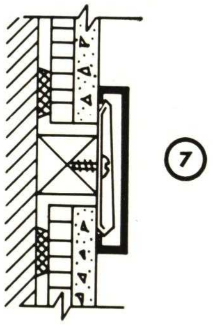
Clips shall be secured with cadmium plated sheet metal screws, maximum spacing 12″ centers under the chalkboard, 20″ centers elsewhere.

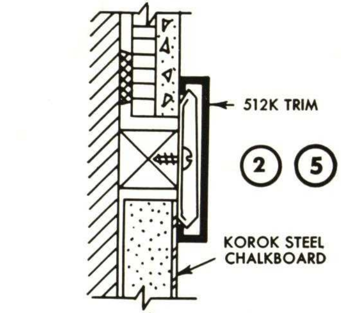
Chalkboard and tackboard shall be set plumb and true using KOROK spotting adhesive applied in spots on 12″ centers, both horizontally and vertically.

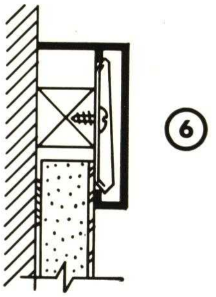
CUSTOM BONDED (field laminated)

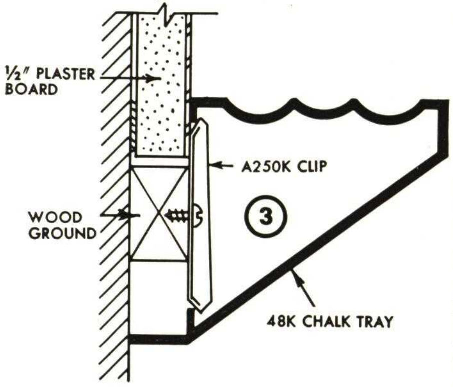
surface mounted

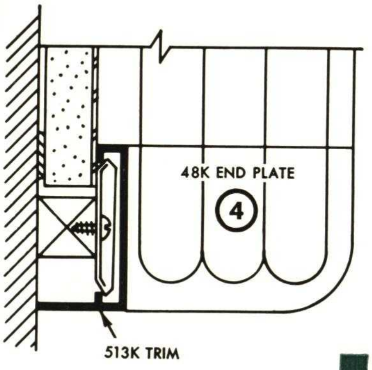

513K TRIM
A175K CLIP
WOOD GROUND
KOROK ADHESIVE
TACKBOARD
①




512K TRIM
② ⑤
KOROK STEEL CHALKBOARD




½" PLASTER BOARD
A250K CLIP
WOOD GROUND
③
48K CHALK TRAY


48K END PLATE
④
513K TRIM

specifications

(Refer to page 3 for general specifications and for chalkboard [specify facing sheet only] and see page 18 for tackboard.)

INSTALLATION

Chalkboard and tackboard shall be Custom Bonded with KOROK snap-on aluminum trim as detailed.

Grounds shall be wood as detailed; shall be aligned and shimmed to a true plane and secured with nails. Clips shall be secured with cadmium plated sheet metal screws, maximum spacing 12" centers are under the chalkboard, 20" centers elsewhere.

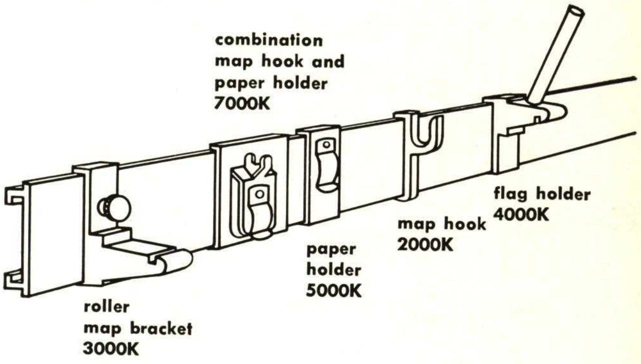
The chalkboard facing shall be bonded with KOROK #200 contact adhesive to ½ inch plasterboard which has been previously bonded to the wall with KOROK #100 adhesive. Within 48 hours the laminated installation shall develop 300 P.S.I. in shear at room temperature. Thereafter, and for the life of the building in which installation is made, there shall be no failure because of climatic changes, freezing, high humidity, or normal expansion and contraction.

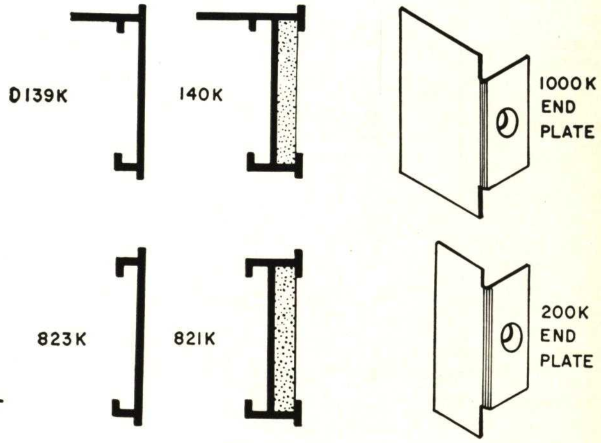
Tackboard shall be mounted to wall with KOROK adhesive.

display rails and accessories

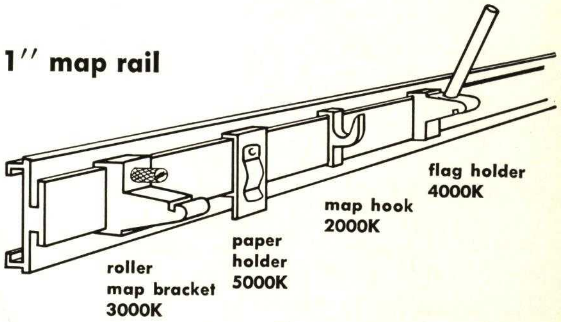
The choice of 2" map rails or 1" map rails will depend upon the personal preference of the architect or educator. KOROK can provide either. Note, however, that cork inserts are available only with the 2" map rail.

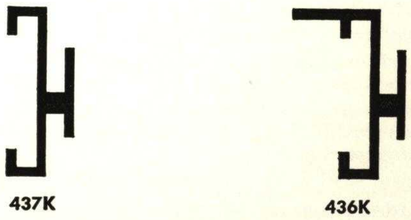
2′′ map rails


combination map hook and paper holder 7000K
flag holder 4000K
map hook 2000K
paper holder 5000K
roller map bracket 3000K


D139K
140K
1000K END PLATE
823K
821K
200K END PLATE

1′′ map rail

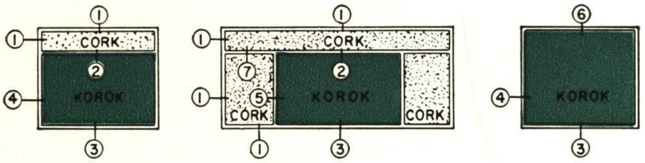

flag holder 4000K
map hook 2000K
paper holder 5000K
roller map bracket 3000K



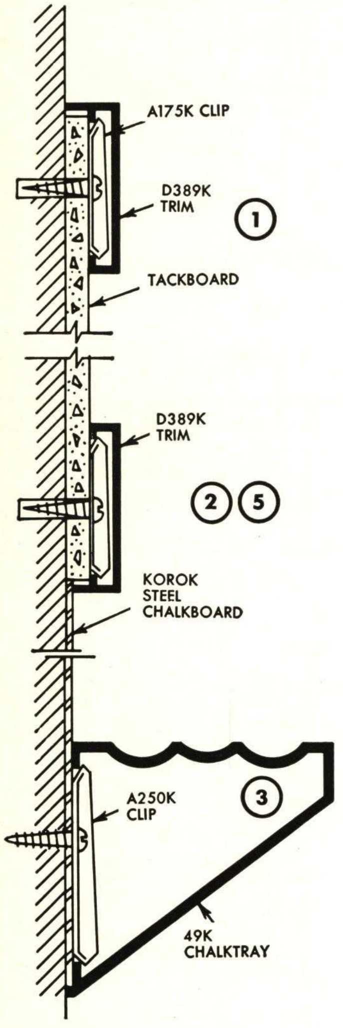
INSTALLATION with SNAP-ON METAL TRIM (concluded)

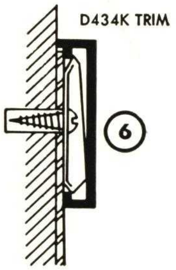
DIRECT TO WALL (facing sheet direct to wall)

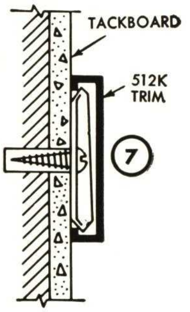
smooth walls only

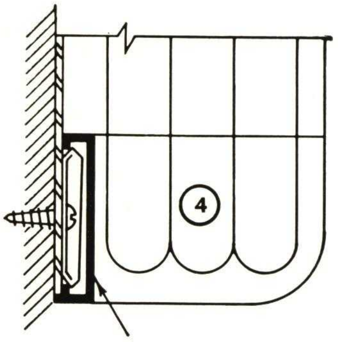

①
CORK
②
KOROK
③
④
⑦
⑤
CORK
⑥

6″ = 1′-0″ Full size details on request.


A175K CLIP
D389K TRIM
①
TACKBOARD
D389K TRIM
② ⑤
KOROK STEEL CHALKBOARD
A250K CLIP
③
49K CHALKTRAY


D434K TRIM
⑥


TACKBOARD
512K TRIM
⑦



specifications

(Refer to page 3 for general specifications and for chalkboard [specify facing sheet only and note that Mark III is recommended for smooth walls only] and see page 18 for tackboard.)

INSTALLATION

Chalkboard and tackboard shall be installed "Direct-To-Wall" (DTW) with KOROK snap-on metal trim as detailed.

Grounds are not required.

The chalkboard shall be KOROK Mark I Facing adhered directly to smooth plaster or masonry wall with KOROK #100 adhesive with no unbonded areas.

Wall areas to be covered shall be built up to a true plane by leveling depressions with KOROK #100. All joints shall be butted and backed with 24 gauge galvanized steel strips.

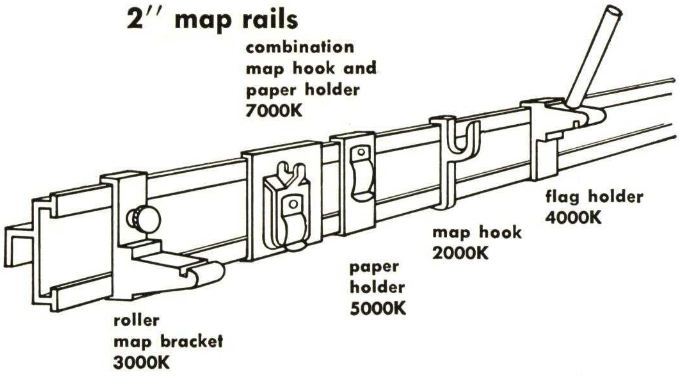
Tackboard shall be mounted to wall with KOROK approved adhesive.

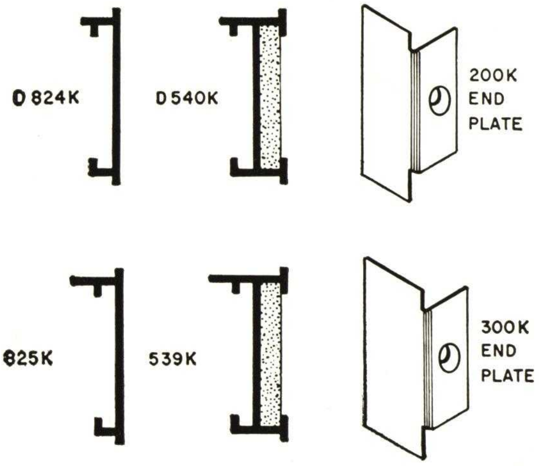
Chalk trough is secured directly to the wall with rawl plugs and screws or expansion bolts as conditions require. Maximum spacing of fasteners shall be on 12″ centers. Top and side mouldings shall be secured in like manner on 20″ centers.

display rails and accessories

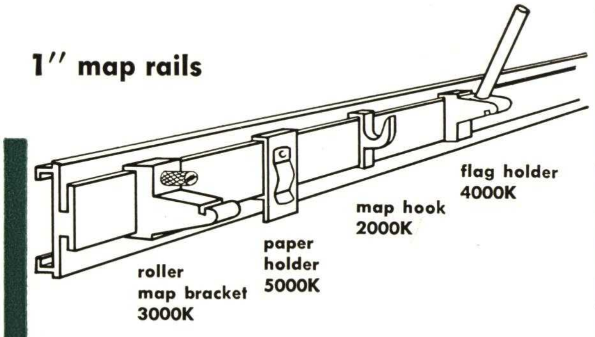
The choice of 2″ map rails or 1″ map rails will depend upon the personal preference of the architect or educator. KOROK can provide either. Note, however, that cork inserts are available only with the 2″ map rail.

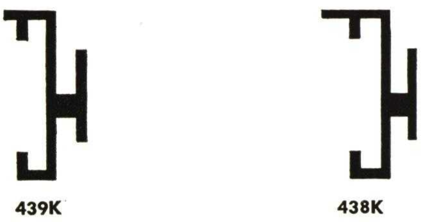
2″ map rails


combination map hook and paper holder 7000K
flag holder 4000K
map hook 2000K
paper holder 5000K
roller map bracket 3000K


D 824K
D 540K
200K END PLATE
825K
539K
300K END PLATE

1″ map rails

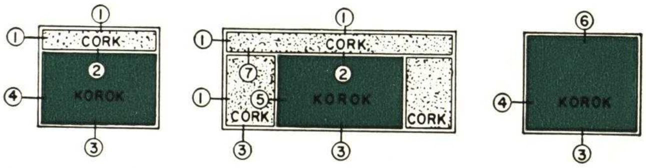

flag holder 4000K
map hook 2000K
paper holder 5000K
roller map bracket 3000K



INSTALLATION with CHANNEL TRIM (field install)

WITH FACTORY LAMINATED PANELS

surface mounted

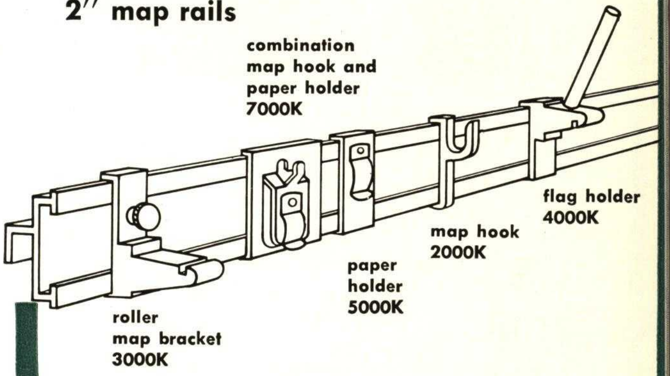

①
①
CORK
②
④
KOROK
③
①
①
CORK
⑦
②
①
⑤
KOROK
CORK
CORK
③
③
⑥
④
KOROK
③

6″ = 1′-0″ Full size details on request.

display rails and accessories

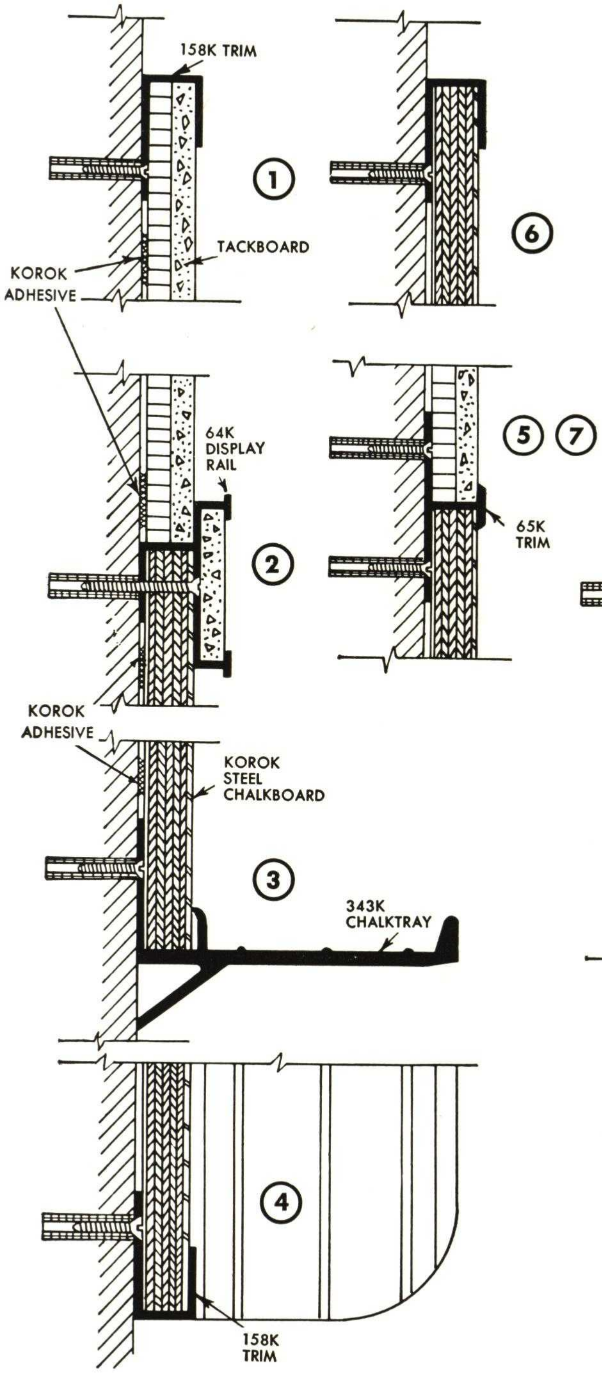
The display rail for this installation always contains a cork insert. Note also the complete line of accessories.

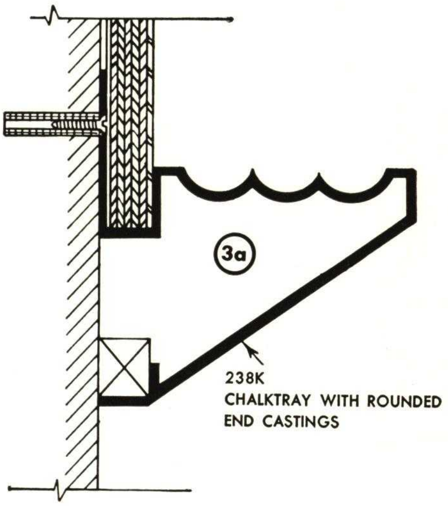
2″ map rails

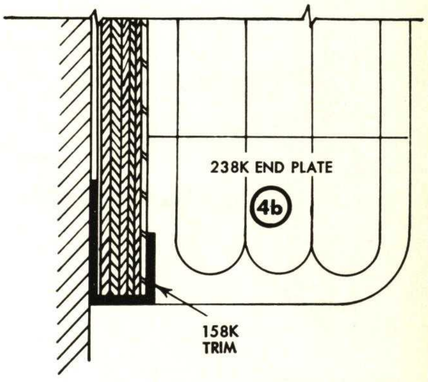

combination
map hook and
paper holder
7000K
flag holder
4000K
map hook
2000K
paper
holder
5000K
roller
map bracket
3000K

no exposed fastenings

The unique design of this system incorporates sturdy construction with concealed fastening. The chalk trough is mounted directly to the wall before the chalkboard is installed. The chalkboard, together with side mouldings, is then locked into place by fastening through the map rail. The fasteners through the display rail are concealed with a cork tack strip.


158K TRIM
①
TACKBOARD
KOROK
ADHESIVE
⑥
64K
DISPLAY
RAIL
②
⑤ ⑦
65K
TRIM
KOROK
ADHESIVE
KOROK
STEEL
CHALKBOARD
③
343K
CHALKTRAY
④
158K
TRIM


③a
238K
CHALKTRAY WITH ROUNDED
END CASTINGS


238K END PLATE
④b
158K
TRIM

specifications

(Refer to page 3 for general specifications and for chalkboard [specify facing sheet only] and see page 18 for tackboards.)

INSTALLATION

Chalkboard and tackboard shall be surface mounted using KOROK channel trim with concealed fastenings as detailed.

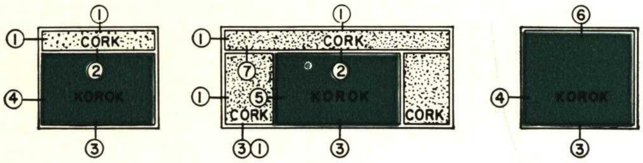
Grounds are not required.

Chalk trough is secured directly to the wall with rawl plugs and screws or expansion bolts as conditions require. Maximum spacing of fasteners shall be on 12″ centers. Top and side moulding shall be secured in like manner on 20″ centers.

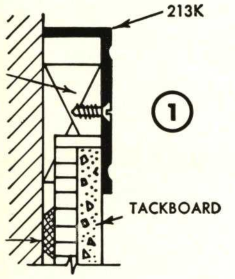
INSTALLATION with SCREW-ON ALUMINUM METAL TRIM

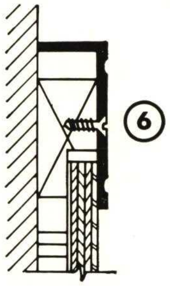
WITH FACTORY LAMINATED PANELS

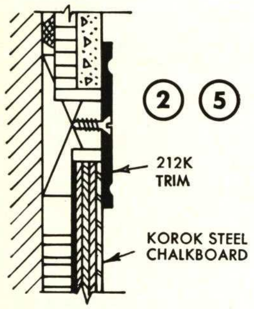
surface mounted with wood grounds

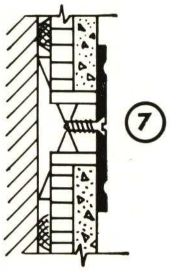

①
①
CORK
②
④
KOROK
③
①
①
⑦
②
①
⑤
CORK
KOROK
CORK
③①
③
⑥
④
KOROK
③

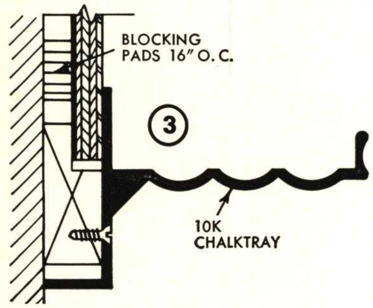
6″ = 1′-0″ Full sized details on request.

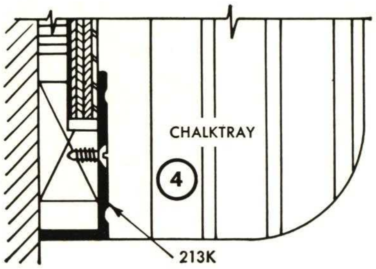

213K
OD
UND
①
TACKBOARD
OK
ESIVE




② ⑤
212K
TRIM
KOROK STEEL
CHALKBOARD

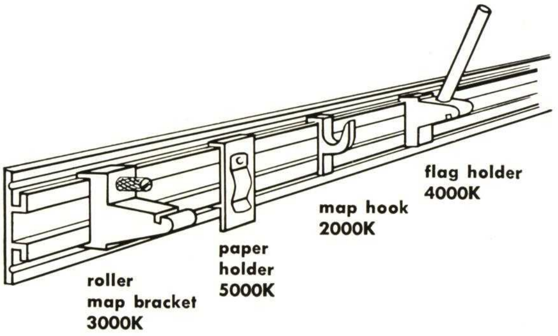



BLOCKING
PADS 16″ O. C.
③
10K
CHALKTRAY


CHALKTRAY
④
213K

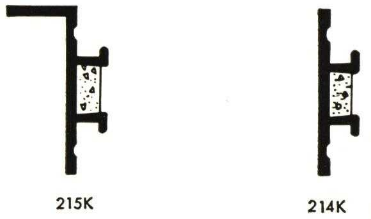
display rails and accessories

This display rail always contains a cork insert. Also note the complete line of accessories.


flag holder
4000K
map hook
2000K
paper
holder
5000K
roller
map bracket
3000K

also used as separate display rail

This display rail is frequently used on plain walls which contain no chalkboards or tackboards where only a display rail is desired. It always contains a cork insert which conceals the nail or screw fastening the rail to the wall.



specifications

(Refer to page 3 for general specifications and for chalkboard [specify laminated panel with ¼″ core] and see page 18 for tackboards.)

INSTALLATION

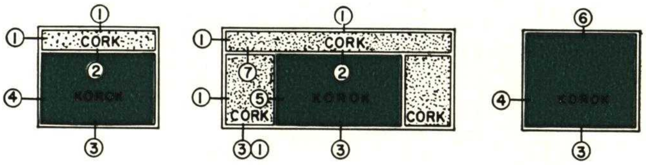
Chalkboard and tackboard shall be surface mounted with KOROK screw-on aluminum trim as detailed.

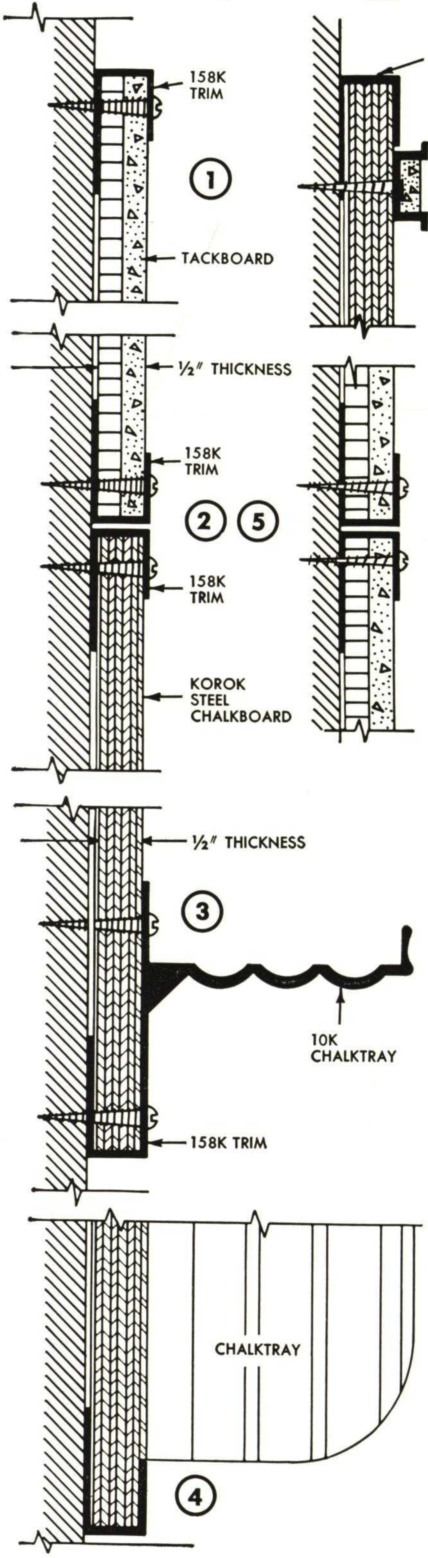
Grounds shall be wood as detailed, shall be aligned and shimmed to a true plane and shall be secured with screws and rawl plugs, nails or expansion bolts to suit wall conditions; maximum spacing of fasteners to be on 12″ centers under the chalkboard and on 20″ centers elsewhere.

The chalkboards and tackboards shall be set plumb and true, using KOROK spotting adhesive applied in spots on 12″ centers, both horizontally and vertically.

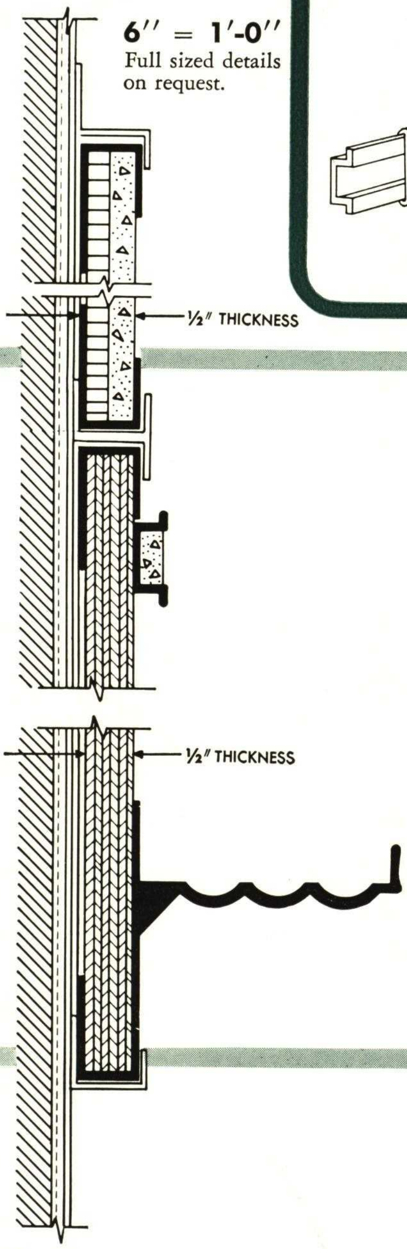
FACTORY LAMINATED AND FRAMED PANELS

surface mounted


①
CORK
②
④
KOROK
③
⑦
⑤
③①
⑥

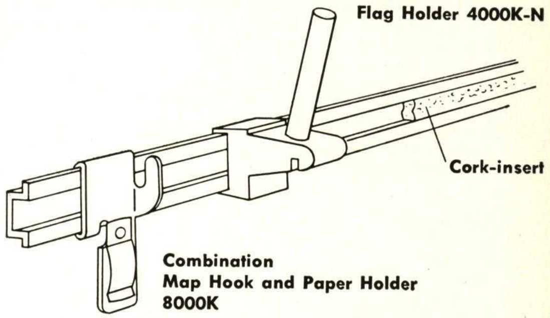

158K TRIM
①
TACKBOARD
½″ THICKNESS
158K TRIM
② ⑤
158K TRIM
KOROK STEEL CHALKBOARD
½″ THICKNESS
③
10K CHALKTRAY
158K TRIM
CHALKTRAY
④
158K TRIM
253K DISPLAY RAIL
⑥
⑦

6″ = 1′-0″
Full sized details on request.


½″ THICKNESS
½″ THICKNESS

display rails and accessories

This neat, effective but inexpensive display rail is also frequently used where only a display rail is required on walls having neither chalkboard or tackboards. The cork insert effectively conceals the means of securing it to the wall.


Flag Holder 4000K-N
Cork-insert
Combination Map Hook and Paper Holder 8000K

methods of installation

fixed (3″—1′-0″)
adjustable

KOROK adjustable hangers with clips are available where vertical adjustment of chalkboard and tackboard is required. Units are preframed at factory and installation is simplified by merely attaching adustable hangers to the wall with approved fasteners to suit job conditions. Panels are held in place with special clips developed for use with hangers. Clips and hangers are of rigid design and fastened in such a manner as to permit easy adjustability to various heights as required.

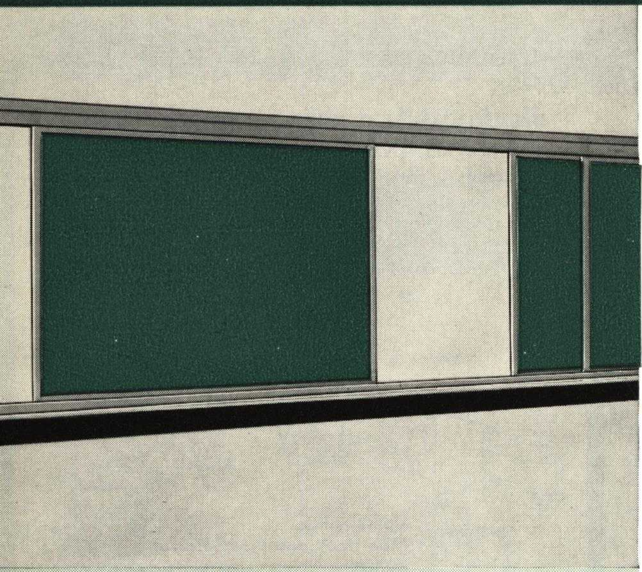
specifications

(Refer to page 3 for general specifications and for chalkboards [specify facing sheet only] and see page 18 for tackboards.)

INSTALLATION

Chalkboards and tackboards shall be factory laminated and preframed, as detailed.
Grounds are not required.
Facing sheet shall be factory laminated to ½″ core material and balanced with moisture-proof backing sheet, and the backing shall be bonded to the core material by means of special flexible adhesive with no unbonded areas.
Preframed boards shall be fastened to the wall by means of screws through the panel or trim. (If adjustable hangers are required substitute the following for the above paragraph:)
Preframed boards shall be installed by means of adjustable hangers and clips.

HORIZONTAL SLIDING INSTALLATIONS



"F" series

Horizontal sliding chalkboards give extra chalkboard and tackboard surfaces with minimum wall space. Chalkboard, projection screen and tackboard can be easily interchanged on the single wall facing the students. Students can see the maximum number of visual aids without turning in their seats.

The teacher can write exams on chalkboards, prepare exhibits, et cetera and keep them concealed until required. Sliding panels can be a combination of chalkboards and tackboards; chalkboards alone; or tackboards alone. Fixed chalkboard or tackboard panels hehind the sliding panels are optional, or this area may be used for a projection screen or storage area.

The details shown are for 2-track units. Units having 1, 3 or 4 tracks are also available; details on request.

Units are available up to and including 24′0″ x 4′0″ with all horizontal trim members to be in one piece. Larger units are made in two or more sections.

specifications

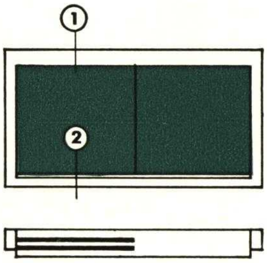
Furnish and install KOROK Horizontal Sliding chalkboard with panel units and track assembly as detailed on drawings.

Chalkboard to be (architect to select KOROK Mark I or Mark III—see page 3).

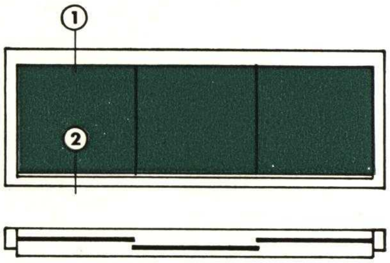
Tackboard to be (as selected by architect—see page 18).

Frame and exposed metal members to be of 6063T5 satin finished anodized aluminum extrusions with all corners reinforced with steel angles to form a rigid frame of sufficient strength to eliminate all vibration and chatter.

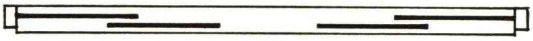
Rolling hardware to be of nylon tipped, ball-bearing rollers of sufficient size and number to enable smooth and easy operation of the panels.



2 track—2 panels



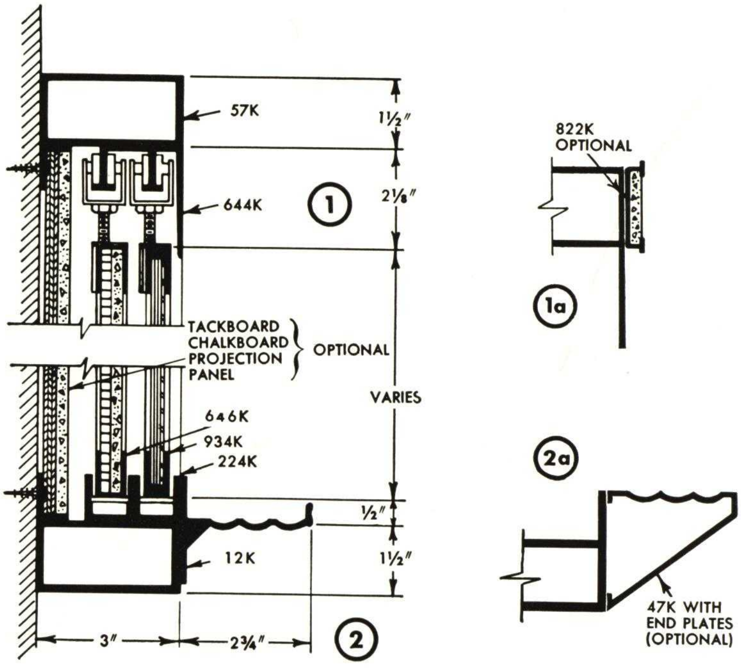
2 track—3 panels



2 track—4 panels

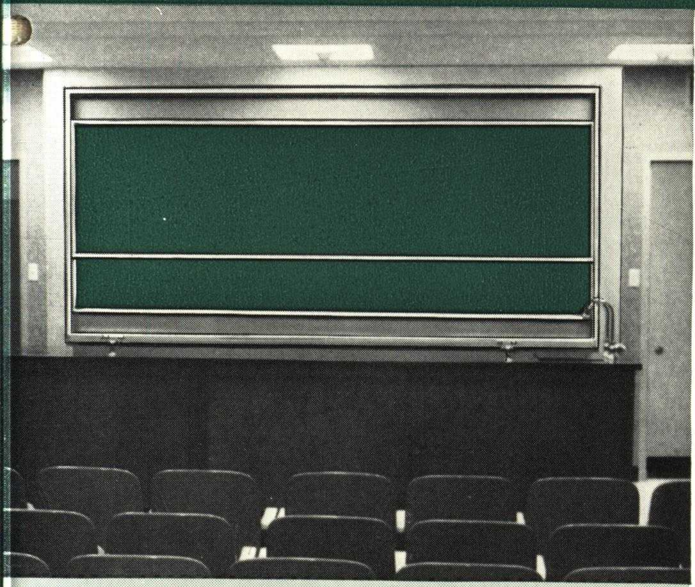
The sketches above show three arrangements of panels in a two track unit. Three or four track units permit even more flexibility of arrangement. KOROK engineers will be happy to work with the architect on special or unusual installations. See pages 3 and 4 of this catalog for a few examples of our custom work.

Scale 3″ = 1′-0″



VERTICAL SLIDING INSTALLATIONS

KOROK®



"E" series vertical sliders

These units provide maximum chalkboard and/or tackboard surface at the focal point in classrooms. The lecturer has the largest possible working surface within a step of his lecturn or microphone.

The panels can be moved up or down independently of each other and both can be lowered below the chalk tray and, when in this position, a projection screen, a fixed chalkboard or a fixed tackboard can occupy the space. See sketches in upper right-hand corner of this page. Note that when the unit is mounted above cabinets only half of the wall can be exposed.

Details show 2 track, 2 panel units. Units with 3 tracks and 3 panels are also available; details on request. KOROK Inc. will also be happy to work with the architect on custom or unusual installations, see pages 3 and 4 of this catalog.

Counterbalanced design assure easy manual operations of panels up to 12 ft. in width. Electric motor operation is recommended for wider units.

specifications

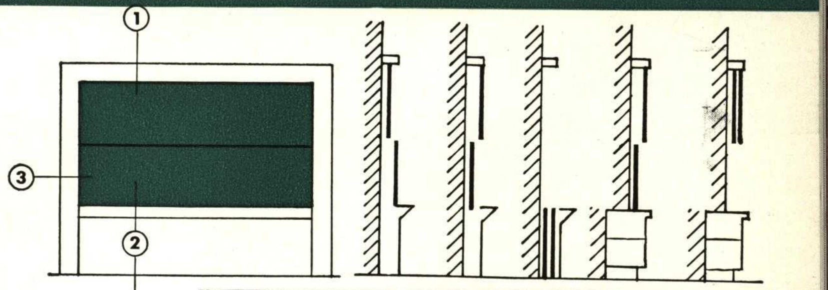
Furnish and install KOROK Vertical Sliding Chalkboard as detailed on drawing. Chalkboard to be KOROK Mark III in standard colors with plywood core and backed with a 24 gauge galvanized steel sheet. Tackboard shall be Tacktex cork in standard colors. Panels shall be trimmed with aluminum angles, anodized satin finished, reinforced with steel to minimized deflection.

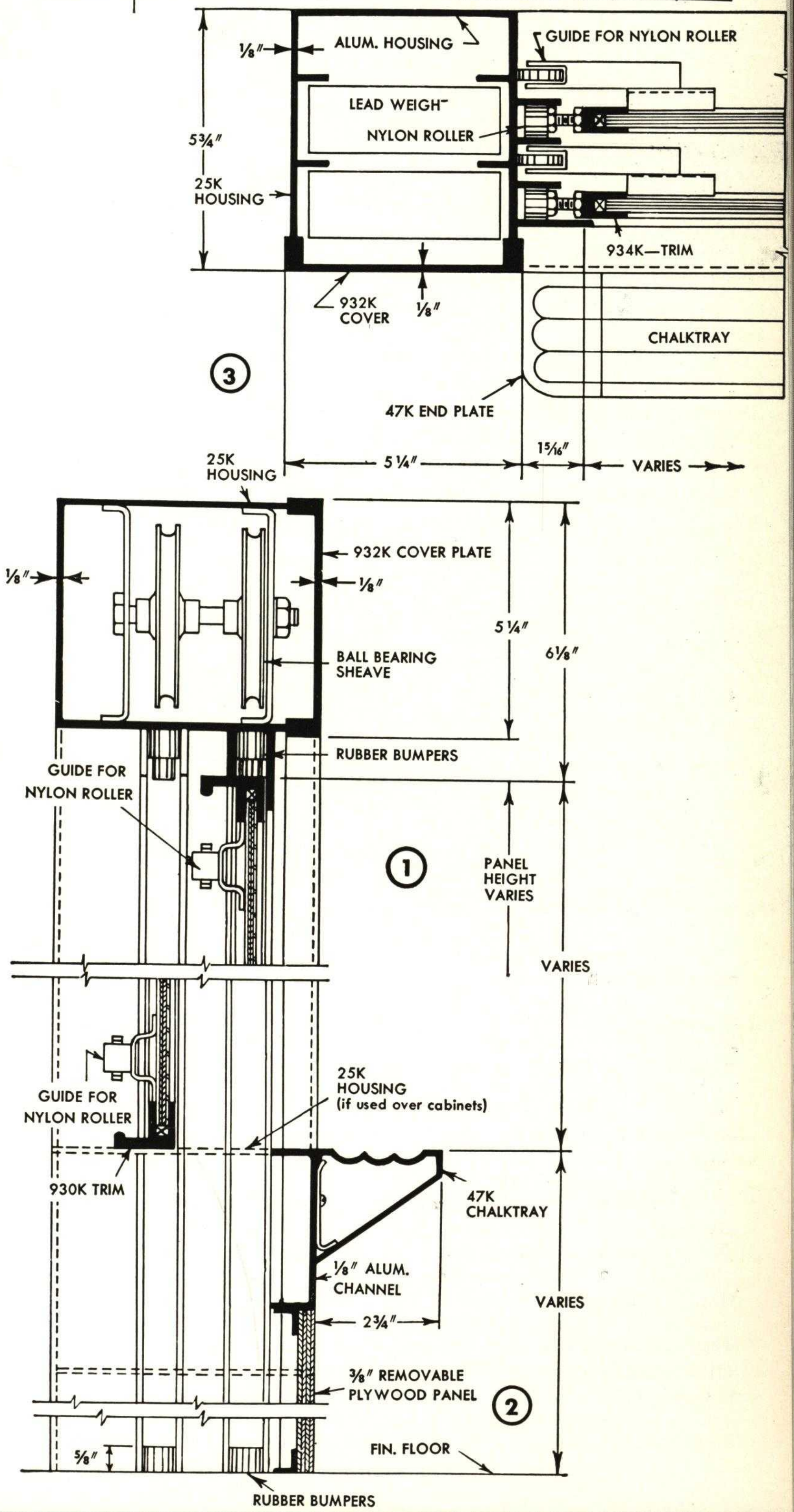
Housing shall be of heavy extruded anodized satin finished, tempered, 6063-ST5 aluminum and designed to carry the complete load independent of walls.

Operation shall be by heavy duty chains and sprockets. Each panel shall be guided by a minimum of 4 self adjusting nylon rollers and 4 nylon tipped guides. Operation shall be easy, smooth, quiet and trouble-free.

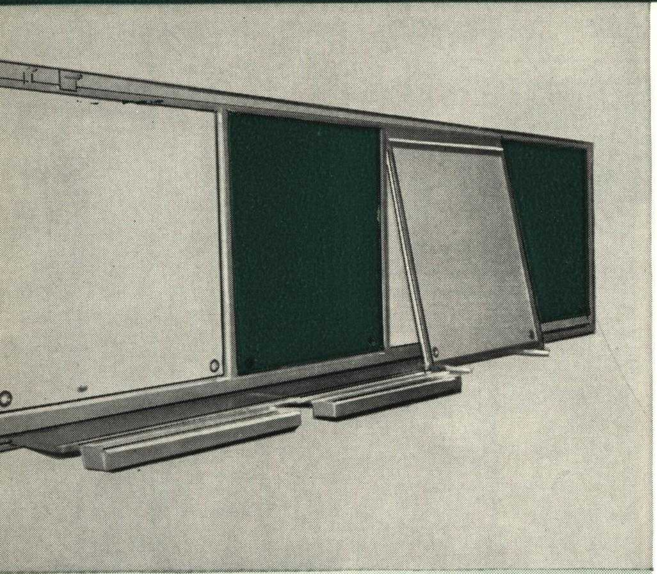
(If unit is to be motor operated add the following:)

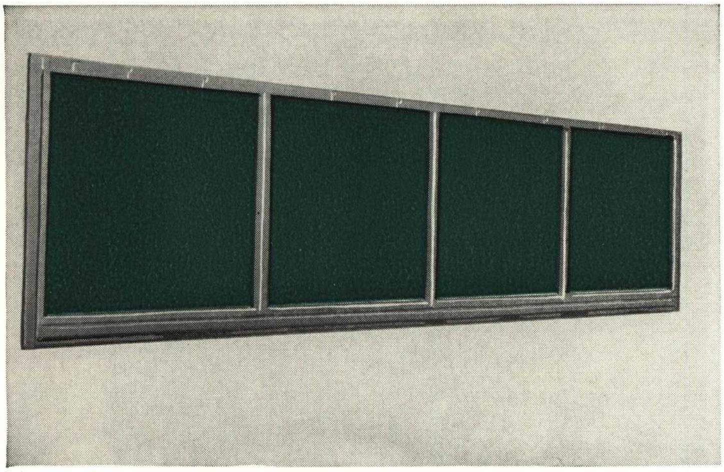
Unit shall be motor operated with an electric motor for each panel. Unit shall be equipped with push button, three position (up, down and stop) control switches and limit switches ready for hook up to 115 volt AC outlet.




⅛″
ALUM. HOUSING
GUIDE FOR NYLON ROLLER
LEAD WEIGH⁻
NYLON ROLLER
5¾″
25K HOUSING
934K—TRIM
932K COVER
⅛″
CHALKTRAY
③
47K END PLATE
25K HOUSING
5 ¼″
1⁵⁄₁₆″
VARIES
⅛″
932K COVER PLATE
⅛″
5 ¼″
6⅛″
BALL BEARING SHEAVE
RUBBER BUMPERS
GUIDE FOR NYLON ROLLER
①
PANEL HEIGHT VARIES
VARIES
25K HOUSING (if used over cabinets)
GUIDE FOR NYLON ROLLER
930K TRIM
47K CHALKTRAY
⅛″ ALUM. CHANNEL
2¾″
VARIES
⅜″ REMOVABLE PLYWOOD PANEL
②
FIN. FLOOR
⅝″
RUBBER BUMPERS

REVERSIBLE EASEL BOARD INSTALLATIONS

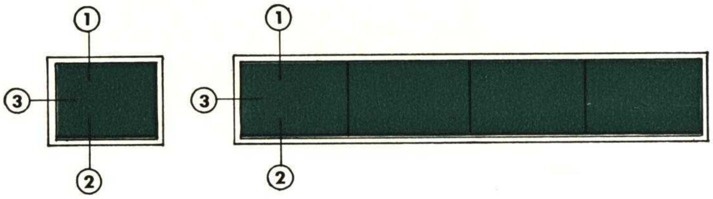




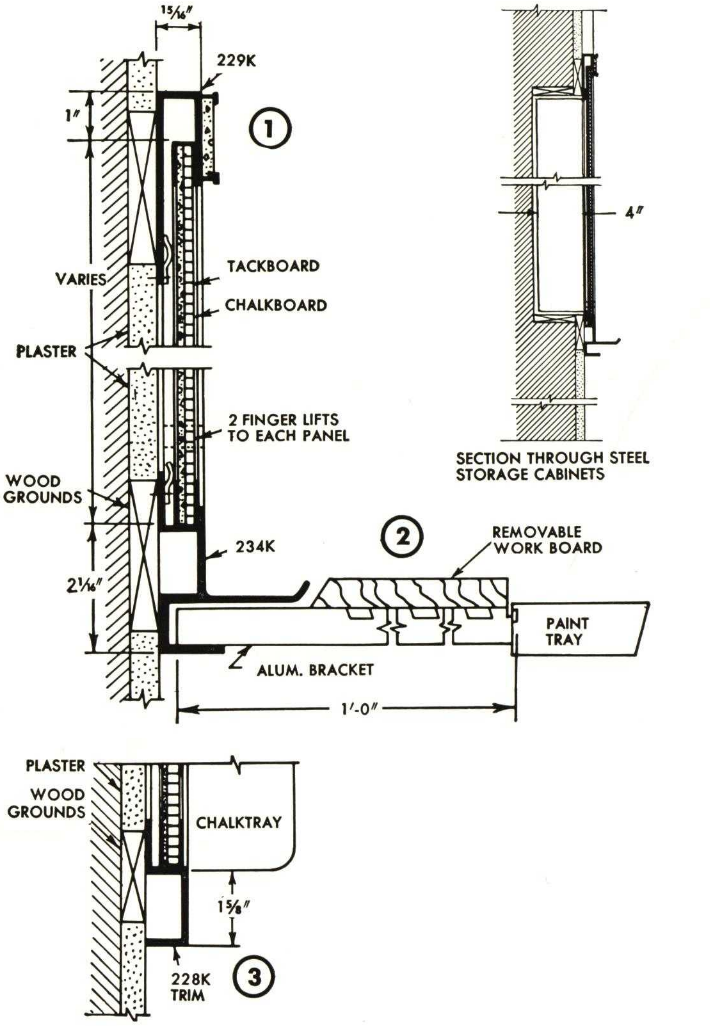
Ideal for multipurpose classrooms, this installation permits chalkboard panels to be removed and reversed converting chalkboard areas into tackboard areas. Or, the panels can be tilted to make easels by using the brackets which swing out from concealed position under chalktray. Steel paint trays are provided for attachment to the easel brackets. These various arrangements are easily set up by students.

Made in single or multiple units with individual panels in any size up to 48″ high and 54″ wide.

To provide additional storage, steel cabinets are available for recessing into the wall in back of the panel.



Scale 3″ = 1′-0″ Full scale details furnished on request.


15/16″
229K
①
1″
VARIES
TACKBOARD
CHALKBOARD
PLASTER
2 FINGER LIFTS TO EACH PANEL
WOOD GROUNDS
234K
②
REMOVABLE WORK BOARD
2 1/16″
PAINT TRAY
ALUM. BRACKET
1′-0″
4″
SECTION THROUGH STEEL STORAGE CABINETS
PLASTER
WOOD GROUNDS
CHALKTRAY
1 5/8″
228K TRIM
③

specifications

Furnish and install KOROK Reversible Easel Boards as shown in plans and elevations. All panels to be easily removable and reversible with chalkboard on one side and tackboard on the other side. Chalkboard shall be (architect to select KOROK Mark I or Mark III—see page 3) in standard KOROK color to be selected. Tackboard to be TAC-TEX.

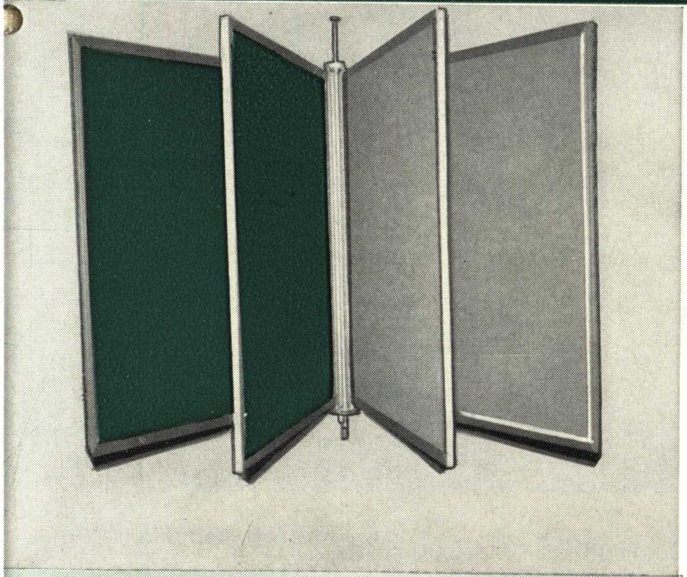
Vinyl tackboard (or TAC-TEX Cork—see page 18) in standard TAC-TEX color to be selected. Frame of individual panels as well as unit frame shall be 6063T5 satin finished anodized aluminum extrusions. Provide finger grip at the bottom of panels. Unit frame shall incorporate concealed spring clips to hold panels rigid when in vertical position for use as chalkboard or tackboard.

Easel brackets shall be notched for three different settings, shall include means to attach paint tray, and shall swing under chalktray when not in use. Steel paint tray shall be provided for each panel.

(If storage cabinets are required, add the following:)

Provide steel storage cabinets as indicated on the drawings. Openings for said cabinets shall be built into the wall by the general contractor; cabinets shall be furnished by the chalkboard supplier.

SWING-LEAF INSTALLATIONS



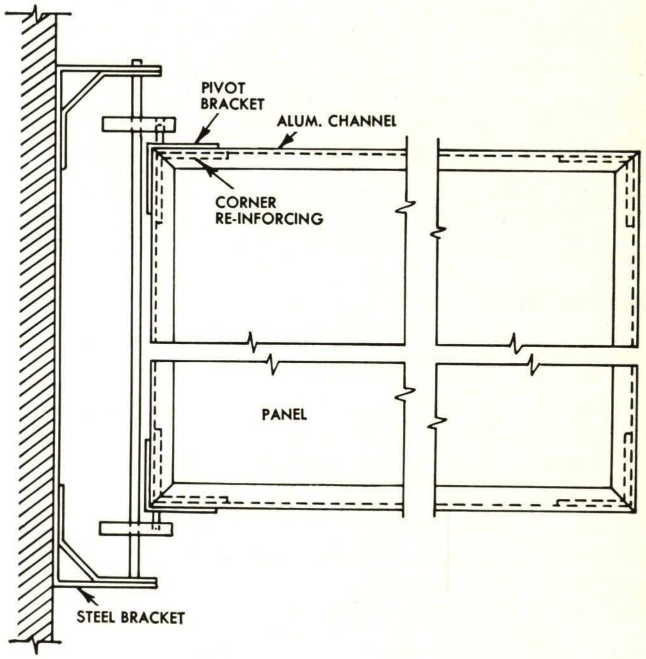
These units facilitate the arrangement of lecture or study aids in the proper sequence. The panels may be turned like the pages of a book as the material they contain is discussed.

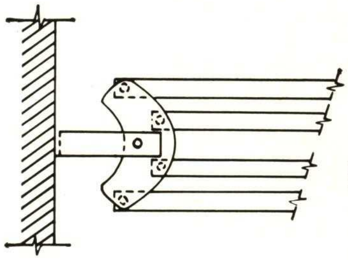
Being very versatile, these units are frequently used to complement other types of installations, see page 5 of this catalog.

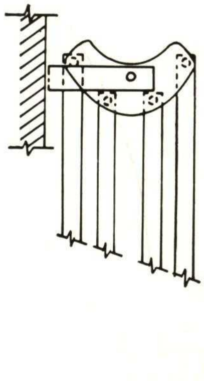
Standard units consist of 2 to 6 panels (units with up to 12 panels are available if specified). Panel can be faced with either chalkboard on both sides or chalkboard on one side and tackboard on the other side, or cork on both sides. Pegboard is also available if specified. KOROK engineers will be happy to work with the architect on special or unusual panels.

When not in use, entire unit swings 180° to either side, and lays flat against wall.

6″ = 1′-0″ no exposed fastenings.




PLAN VIEW
PANELS EXTENDED

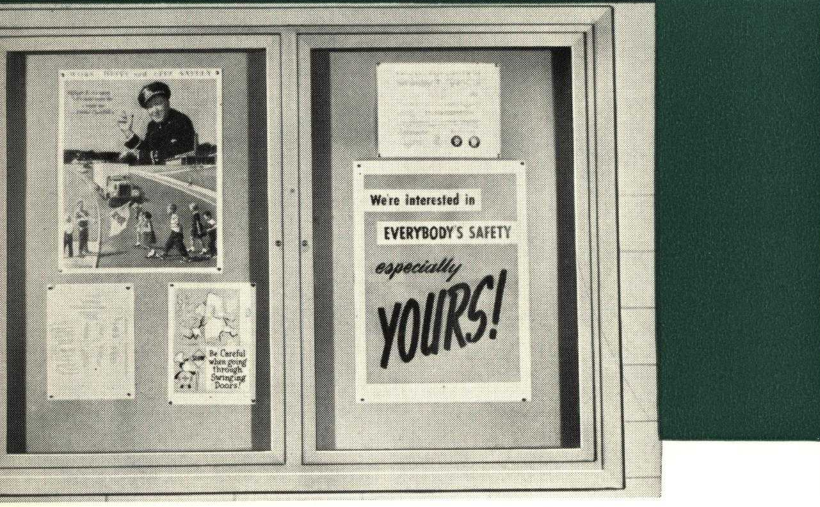

PLAN VIEW
PANELS NEXT TO WALL

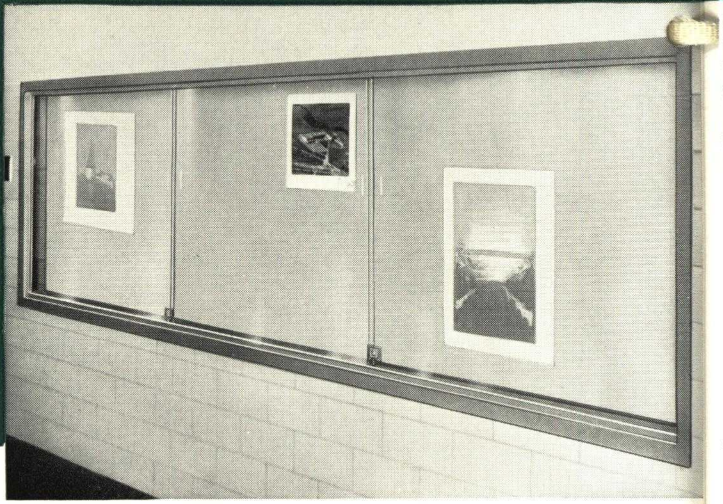
specifications

Furnish and install KOROK Swing Leaf Chalkboard and/or Tackboard Units as shown in plans and elevations. Each unit shall be furnished with ______ panels trimmed with heavy satin finished anodized aluminum channels. Corners of panels shall be reinforced with concealed steel angles and secured with machine screws. Brackets and hardware shall be finished to match frames. All panels shall swing 180° in either direction or fold flat against the wall to either side.

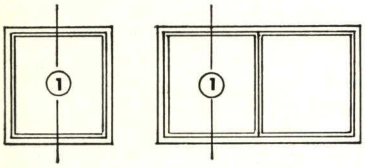
Faces of panels shall be KOROK Mark III Chalkboard and TAC-TEX Cork in standard colors according to the following schedule(s): (Architect to supply schedule.)

BULLETIN BOARD CASES

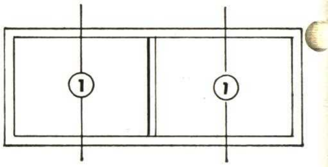

We're interested in
EVERYBODY'S SAFETY
especially
YOURS!
Be Careful when going through Swinging Doors



hinged doors



sliding doors



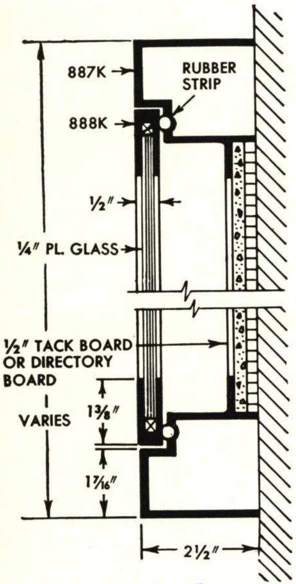
KOROK Bulletin Board Cases are completely factory built, ready to install. Available with either hinged or sliding doors, and complete with lock these cases are suitable for every building type. Easy to install they impart a custom built look to every job.

Available standard sizes (special sizes to order).

Hinged door cases: Overall height up to 54″, overall length up to 24′-0″ in one section, maximum width of doors is 48″.

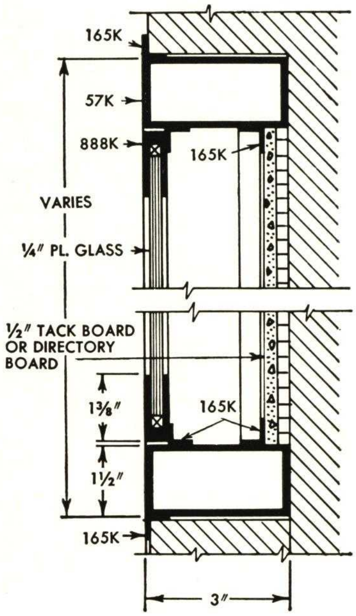
Sliding door case: Overall height up to 54″, overall length up to 24″ in one section, doors of any width.

Series B


887K
RUBBER STRIP
888K
½″
¼″ PL. GLASS
½″ TACK BOARD OR DIRECTORY BOARD
VARIES
1⅜″
1⁷⁄₁₆″
2½″

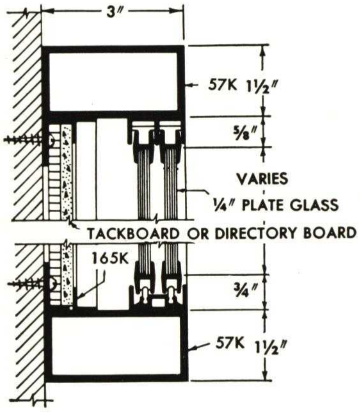
Section ①

Series C


165K
57K
888K
165K
VARIES
¼″ PL. GLASS
½″ TACK BOARD OR DIRECTORY BOARD
1⅜″
165K
1½″
165K
3″

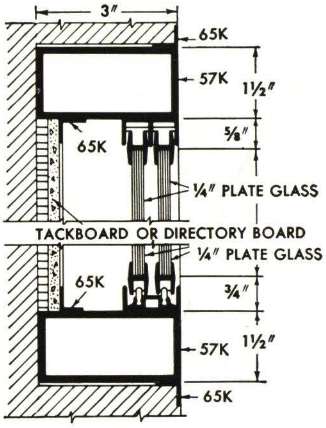
Section ①

Series M-E


3″
57K 1½″
⅝″
VARIES
¼″ PLATE GLASS
TACKBOARD OR DIRECTORY BOARD
165K
¾″
57K 1½″

Section ①

Series M-R


3″
65K
57K
1½″
⅝″
65K
¼″ PLATE GLASS
TACKBOARD OR DIRECTORY BOARD
¼″ PLATE GLASS
65K
¾″
57K
1½″
65K

Section ①

specifications

Furnish and install KOROK Hinged Door Bulletin Board Cases where shown on the plans and elevations. All exposed metal shall be extruded aluminum 6063-ST5 alloy, anodized satin finish. Doors shall be ¼″ plate glass framed with heavy aluminum channels reinforced at all corners. Door framing shall not depend upon the glass for rigidity. Doors shall be equipped with continuous chrome plated brass piano hinges, locks, and elbow catches. The rear wall of the case shall be fitted with TAC-TEX vinyl (or cork, see page 18) Tackboard in standard TAC-TEX color to be selected.

specifications

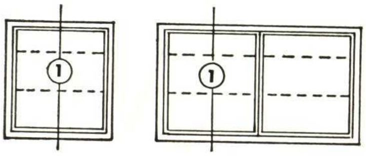
Furnish and install KOROK Sliding Door Bulletin Board Cases were shown in the plans and elevations. All exposed metal shall be extruded aluminum 6063-ST5 alloy, anodized satin finish. Doors shall be ¼″ plate glass with special extruded aluminum "E" moulding at top and bottom and shall be provided with lock. Each door shall have finger slot; doors shall slide smoothly, easily, and quietly and shall have nylon glides at the bottom and rubber guides at the top.

The rear wall of the case shall be fitted with TAC-TEX vinyl (or cork, see page 18) Tackboard in standard TAC-TEX color to be selected.

DISPLAY or TROPHY CASE FRONTS

PUBLICATIONS

hinged doors



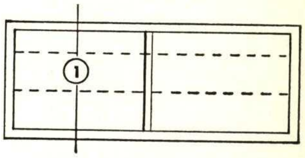
KOROK Display or Trophy Case Fronts are designed as a front for wood cases built by others. Available with either hinged or sliding doors, these fronts can be adopted to meet almost every condition. Easy to install they impart a custom built look to every job.

Available standard sizes (special sizes to order).

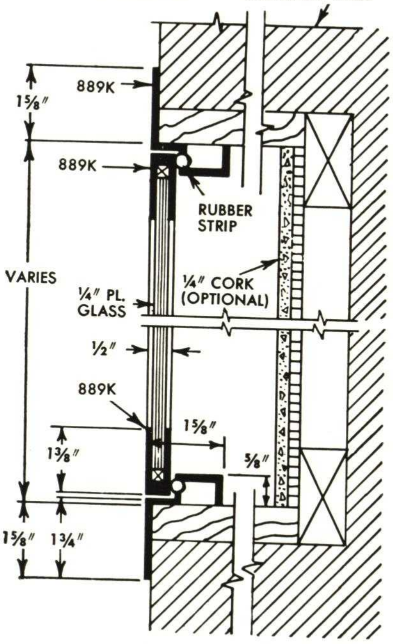
Hinged door cases: Overall height up to 54″, overall length up to 24′-0″ in one section, maximum width of door is 48″.

Sliding door case: Overall height up to 54″, overall length up to 24″ in one section, doors of any width.

sliding doors

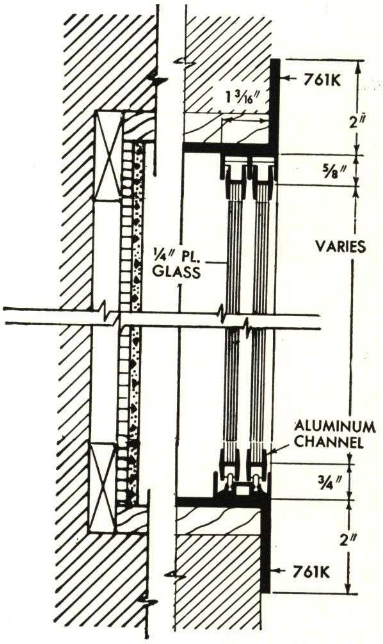


Series D



Section ①

Series N



Section ①

specifications

Furnish and install KOROK Hinged Door Display or Trophy Case Fronts where shown on the plans and elevations. All exposed metal shall be extruded aluminum 6063-ST5 alloy, anodized satin finish. Doors shall be ¼″ plate glass framed with heavy aluminum channels reinforced at all corners. Door framing shall not depend upon the glass for rigidity. Doors shall be equipped with continuous chrome plated brass piano hinges, locks, and elbow catches.

The rear wall of the case shall be fitted with TAC-TEX vinyl (or cork, see page 18) Tackboard in standard TAC-TEX color to be selected.

specifications

Furnish and install KOROK Sliding Door Display or Trophy Case Front where shown in the plans and elevations. All exposed metal shall be extruded aluminum 6063-ST5 alloy, anodized satin finish. Doors shall be ¼″ plate glass with special extruded aluminum "H" moulding at top and bottom and shall be provided with lock. Each door shall have finger slot; doors shall slide smoothly, easily and quietly and shall have nylon glides at the bottom and rubber guides at the top.

The rear wall of the case shall be fitted with TAC-TEX vinyl (or cork, see page 18) Tackboard in standard TAC-TEX color to be selected.

(Note: we suggest that the wooden portion of the display or trophy case, shelves, lighting fixtures, etc. be specified in other more appropriate parts of the specifications.)

KOROK, INC. proudly presents the new TAC-TEX line of tackboards made of KOROK-approved materials. These boards are designed for easy insertion and withdrawal of tacks, yet they hold tacks firmly. Tack holding power is retained even after repeated use of the same spot.

TAC-TEX VINYL

TAC-TEX VINYL TACKBOARDS consist of an embossed, self-healing, pliable vinyl surface laminated to fiberboard or cork with an adhesive specifically formulated for vinyl materials. The vinyl surface is impervious to water; marks made by ink, glue, crayon, etc. can be readily removed with water and mild detergent.

edge treatments

TAC-TEX VINYL TACKBOARD is available with plain edges for use with field-applied trim to match chalkboard trim, with factory-applied aluminum trim, and with wrapped edges when no trim is desired.

colors

TAC-TEX VINYL TACKBOARDS are available in eight standard, bright pastel colors which have been selected and field-tested to harmonize with colors commonly used in decorating contemporary classrooms. Special colors and patterns are available on request.

specifications

All bulletin and tackboard shown in plans and elevations shall be TAC-TEX VINYL No. _____ (see page 19) as furnished by KOROK, INC. in standard color(s) to be selected by architect. Edges shall be (state whether plain, aluminum trimmed or wrapped edges are desired). It shall be installed as detailed, by KOROK-trained personnel, according to manufacturer's instructions and thoroughly cleaned upon completion of installation.

TAC-TEX CORK

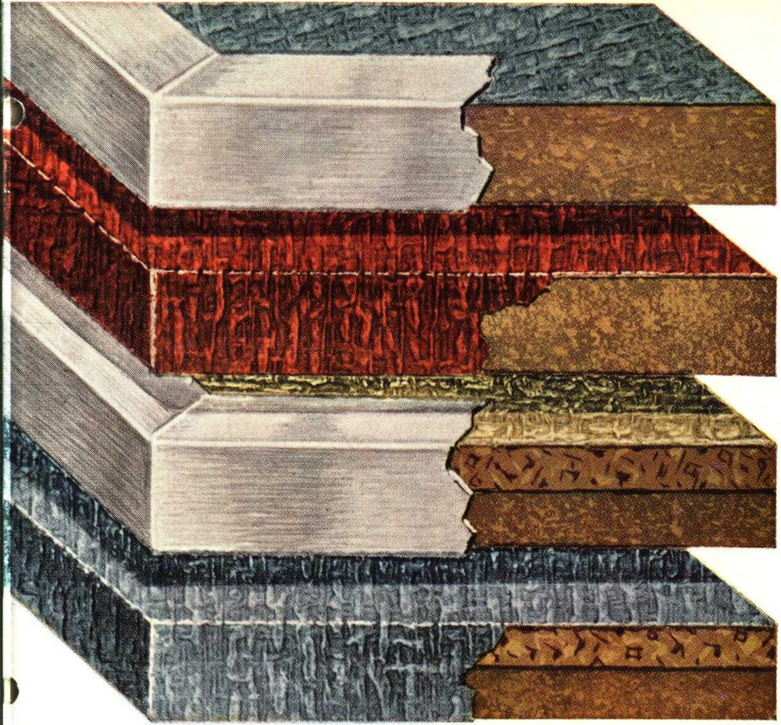
TAC-TEX CORK TACKBOARDS have a plastic impregnated surface for easy cleaning. Dirty finger marks and other smears are readily removed with a damp cloth. More stubborn stains are removed by scrubbing with abrasive soap and hot water. TAC-TEX cork has an exceptionally high cork granule content and has the excellent self-healing properties long associated with cork materials. (TAC-TEX CORK is also available without plastic impregnated surface.)

colors

TAC-TEX CORK is available in three standard colors which are uniform throughout, have excellent light reflectance, and harmonize with colors used in contemporary classroom decor. Special colors are available on request.

specifications

All bulletin and tackboard shown on plans and elevations shall be TAC-TEX CORK with plastic impregnated surface as furnished by KOROK, INC. in standard colors to be selected by architect. It shall be installed by KOROK-trained personnel according to manufacturer's instructions and thoroughly cleaned upon completion of installation. Where drawings indicate that it is to be applied to smooth plaster walls, use top quality linoleum paste. Where mounted cork is required it shall be factory cemented to 1/4″ hardboard for sizes up to 4 feet by 12 feet. For longer lengths it shall be field cemented to hardboard previously affixed to the walls by nails or screws.


type
101-T
type
101-W
type
201-T
type
201-W

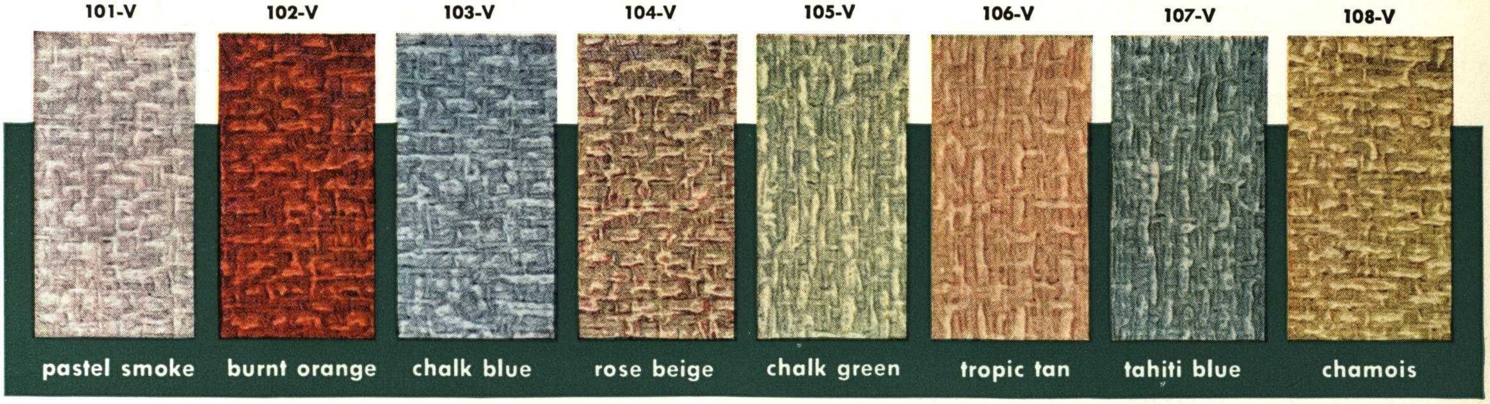
TAC-TEX

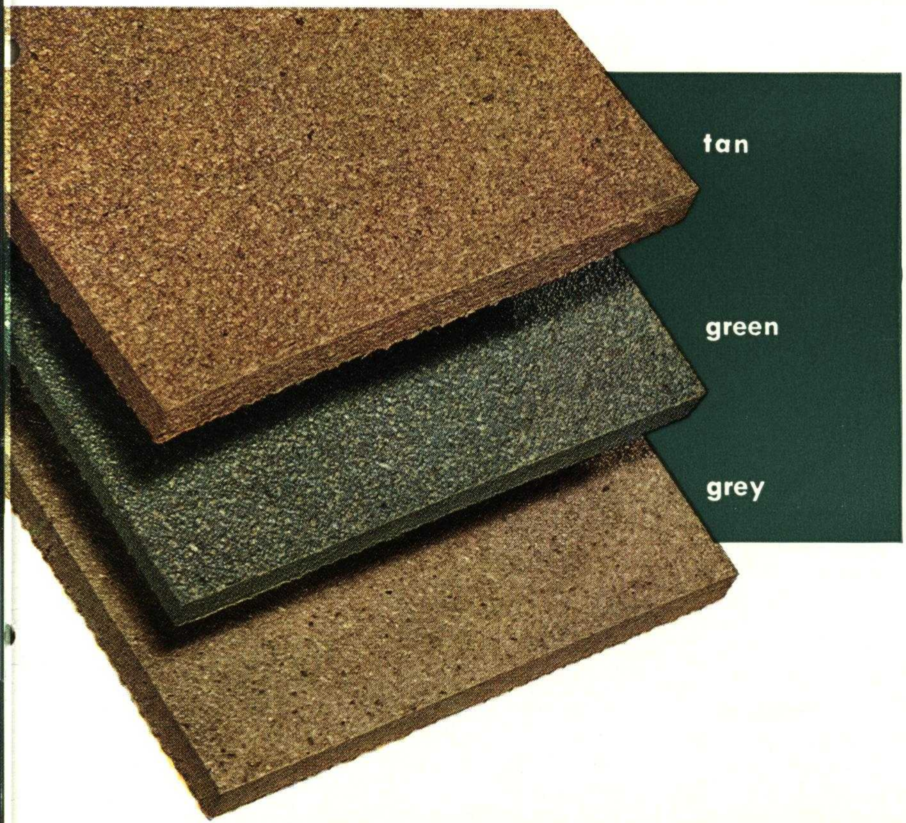
Vinyl covered tackboard in 8 colors.

Maximum standard size 4′-0″ by 14′-0″ by approximately ½″ thick

no.	wgt. per sq. ft.	cork thickness	backing thickness	total thickness
101-T	1 lb.	—	15/32″	½″
101-W	1 lb.	—	⅜″	½″
201-T	1½ lb.	⅛″	⅜″	½″
201-W	2 lbs.	¼″	¼″	½″

8 standard colors (special colors upon request)


101-V
102-V
103-V
104-V
105-V
106-V
107-V
108-V
pastel smoke
burnt orange
chalk blue
rose beige
chalk green
tropic tan
tahiti blue
chamois


tan
green
grey

TAC-TEX

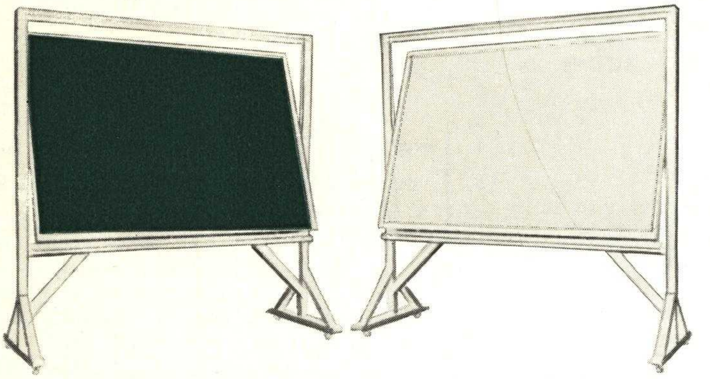
Cork tackboard in 3 colors.

	plain	laminated
standard length (maximum)	90′-0″	16′-0″
standard width (maximum)	6′-0″	4′-0″
thickness overall	¼″	½″
weight per sq. ft.	1 lb.	2 lb.
cork thickness	¼″	¼″
backing	burlap	¼″ hardboard

KOROK® CHALKBOARDS

ROLL-A-WAY chalkboards or tack boards

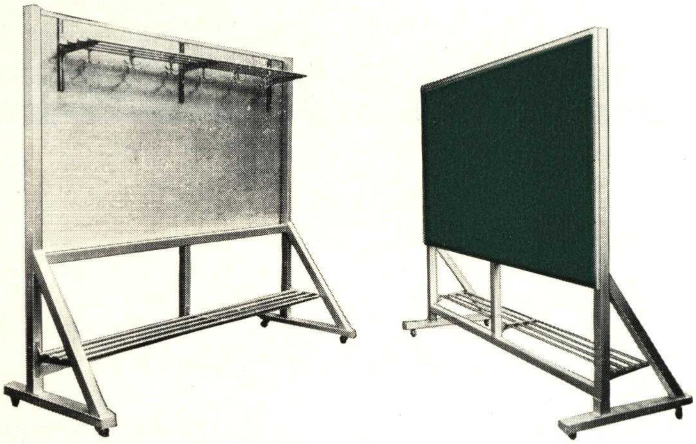
revolving—series H



Revolving Roll-A-Way Chalkboards or Tackboards are available with panel sizes from 3′ x 3′ to 4′ x 8′, with KOROK chalkboard on both sides, or cork one side and chalkboard other side.

Entire unit, including diagonal struts, is constructed of 2″ x 2″ x 1/8″ anodized satin finished aluminum tubing, with heavy aluminum plate corner angles, finish to match. Swivel ball-bearing rubber-wheeled casters permit ease of movement . . . (locking casters are available on request). Panel is framed with aluminum channel; it is centered and perfectly balanced. The panel is pivoted on a steel pin in a brass bushing; locking device is concealed underneath chalktray. To unlock simply pull catch and rotate. Map rail with accessories at head piece are optional equipment.

portable valet—series P-V and aluminum coat and hat and boot rack



Ideal for schools, churches, etc. where closets are unavailable and a combination heavy-duty portable Valet is required. Valet is similar in construction to revolving portable chalkboard except panel is permanently fixed to aluminum frame. Panel sizes are 3′ x 3′ to 4′ x 8′.

Unit is constructed of 2″ x 2″ x 1/8″ square aluminum tubing, anodized satin finish, reinforced with heavy aluminum plate at corners. Ball-bearing casters are optional equipment. KOROK chalkboard or TAC-TEX tackboard is available at front of unit. Reverse side of panel is finished with aluminum paint to match frame. Corkboard is mounted to 3/8″ plywood, which is trimmed with aluminum channel fastened to aluminum frame, thus helping to reinforce entire unit for a rigid portable coat and hat rack. Coat and hat racks are constructed of heavy aluminum tubing with rigid metal supports, available with or without coat hooks.

agent installers

CALIFORNIA
El Monte . . . 9645 East Rush St.
Educational Equipment Co.

CONNECTICUT
See New York, Lynbrook (L.I.)

DELAWARE
See Pennsylvania, Ambler, R.D.

DISTRICT OF COLUMBIA
See Virginia, Arlington

FLORIDA
Jacksonville 4 . . .
1323 W. Church Street
All Florida School Supply Co.
Tallahassee . . . Mill Ave.
W. S. Lee Co., Inc.

ILLINOIS
Chicago 46 . . .
6124 No. Milwaukee Ave.
School Equipment Co.

INDIANA
Indianapolis 5 . . . 2800 E. 39th St.
KOROK, Inc.

KANSAS
Topeka . . .
603 Topeka Blvd., P. O. Box 1014
Building Specialties
& Equipment Co., Inc.
Wichita 7 . . .
1727 East Second St., P. O. Box 523
Building Specialties
& Equipment Co., Inc.

KENTUCKY
See Indiana, Indianapolis

LOUISIANA
New Orleans . . . 833 Howard Ave.
Louisiana School Supply Co.

MAINE
See Massachusetts, Cambridge

MARYLAND
See Virginia, Arlington

MASSACHUSETTS
Cambridge . . . Kendall Square
J. L. Hammett Company

MICHIGAN
Warren . . .
4665 East Eight Mile Road
Peninsular Slate Co.

MINNESOTA
Minneapolis . . .
301-5 S. Fifth Street
FARNHAM'S

MISSOURI
St. Louis 1 . . . 1605 Locust St.
Blackwell, Wielandy Co.
Kansas City . . .
3051 Southwest Blvd.
Kansas City Natural Slate Co.

NEW HAMPSHIRE
See Massachusetts

NEW JERSEY
See New York, Lynbrook (L.I.)
See Pennsylvania, Ambler, R.D.

NEW YORK
Lynbrook (L.I.) . .
147 Scranton Ave.
KOROK, Inc.
Rochester 5 . . . 37-39 Delevan St.
Brisco Sales, Inc.

NORTH CAROLINA
Charlotte . . .
1002 North Graham, P. O. Box 1976
Carolina Chalkboard Co.

NORTH DAKOTA
See Minnesota, Minneapolis

OHIO
Cincinnati 36 . . .
3922 E. Galbraith Rd.
Condit Construction Products, Inc.
Cleveland 18 . . . 1925 Lee Road
Greensteel Chalkboard Co. of Ohio
Columbus . . . 1026 Goodale Blvd.
Condit Construction Products, Inc.
Dayton 3. . . 2800 East Third St.
Condit Construction Products, Inc.

OKLAHOMA
Oklahoma City . . .
607-11 West Grand St.
Dowlings, Inc.

PENNSYLVANIA
Ambler, R. D. . . .
School House Road
Pioneer Blackboard Co.
Dixonville . . 29 Laing Ave.
Greensteel Chalkboard Co.

RHODE ISLAND
See Massachusetts, Cambridge

SOUTH CAROLINA
See North Carolina, Charlotte

SOUTH DAKOTA
See Minnesota, Minneapolis

TENNESSEE
Nashville . . .
158 North Second Ave.
Nashville Products Co.

TEXAS
Dallas . . . 2850 Logan St.
Kearney & Son
Houston 6 . . .
1218 West Main St., P. O. Box 6304
Kearney & Son

VERMONT
See Massachusetts, Cambridge

VIRGINIA
Alexandria . . . 416 Hume Ave.
KOROK, Inc.

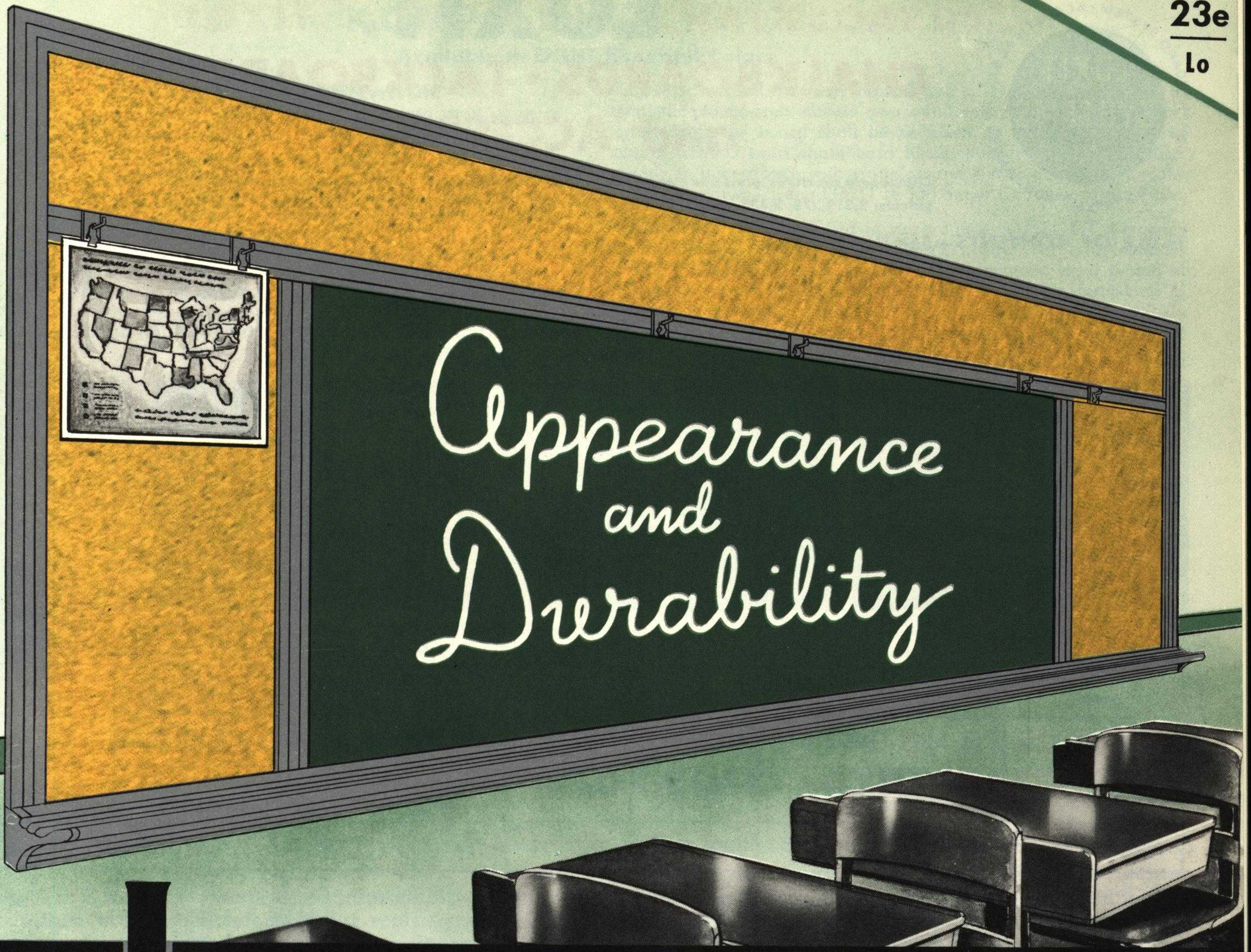
WISCONSIN
Wauwatosa 13 . . .
714 North 109th St.
School Equipment Consultants, Inc.

KOROK INC., Division The Enamel Products Company
World's largest manufacturer of steel chalkboards

23e

Lo

A.I.A.-35-B-11



LOXIT *Complete*
CHALKBOARD SYSTEM

TRU-SNAP TRIM • TACKBOARDS • CHALKBOARDS • TROPHY CASES
BULLETIN BOARDS • VERTICAL AND HORIZONTAL SLIDING BOARDS

A.I.A. 35-B-11

Catalog B. B. 1960

OXIT SYSTEMS, INC., 1217 W. WASHINGTON BLVD. CHICAGO 7, ILL

CHALKBOARD SYSTEM • ACOUSTICAL SYSTEM • MOULDINGS • FLOOR SYSTEM •
LOXIT
SYSTEMS
INC.

Copyright 1960, Loxit Systems, Inc.

LOXIT®

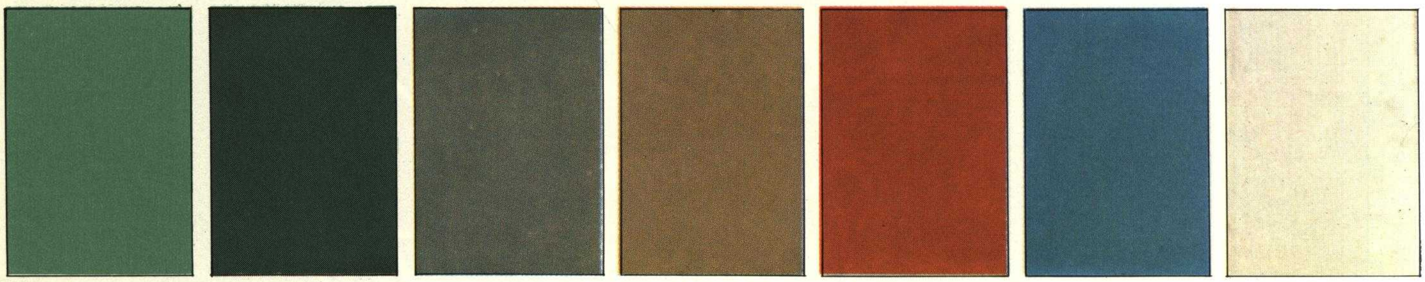
CHALKBOARDS · TACKBOARDS · TRIM and ACCESSORIES

Chalkboard structures, parts and systems illustrated in this catalog are covered by one or more of the following Urbain patents: 2,319,278; 2,338,146; 2,651,852; 2,679,700; 2,285,632; 2,763,937; 2,726,460 and additional patents pending

TABLE OF CONTENTS—*See Back Cover*

LOXIT CHALKBOARDS IN COLOR

Combines the latest scientific chalkboard color design with smart modern interior decoration. Available in the following Chalkboards KOMPO-LUX, PETRALOX, PORCELOX, (Porcelain Steel) and TRU-LUX.



RITE SPRING GREEN	RITE DARK GREEN	RITE GRAY	RITE TAN	RITE CORAL	RITE BLUE	RITE WHITE (IVORY)

BOARD TYPE	RITE SPRING GREEN	RITE DARK GREEN	RITE GRAY	RITE TAN	RITE CORAL	RITE BLUE	RITE WHITE (IVORY)	RITE BLACK
KOMPO-LUX ¼″	RS-100	RD-101	RG-102	RT-103	RC-104	RB-105	RW-106	RBB-107
PETRALOX	PRS-300	PRD-301	PRG-302	PRT-303	PRC-304	PRB-305	PRW-306	PRBB-307
TRU-LUX	TRS-400	TRD-401	TRG-402	TRT-403	TRC-404	TRB-405	TRW-406	TRBB-407

All eight colors are just RITE for low reflectance and high readability. Laboratory tests show a gloss of 3 to 4 on a Photovolt "C" unit. A reflectance of only 12% is shown on a Baumgartner reflectometer. Even after continued writing and erasing, it shows only 15% to 16% reflectance. Proper classroom reflectance should not be over 20%.

COLORED CRAYONS Loxit recommends Binney & Smith "Kleerwae" Colored Dustless Chalkboard Crayons, or approved equal for use with all Loxit Colored Chalkboards.

IMPROVED WASHABLE PETRALOX* CEMENT-ASBESTOS CHALKBOARDS

AVAILABLE in heights of 3½ and 4 feet and lengths of 4, 5, 6, 7, 8 feet. (Can easily be cut to required sizes on job.)

LOXIT PETRALOX CEMENT-ASBESTOS CHALKBOARDS have the fine writing surface and low reflectance for easy reading of high quality chalkboards. They erase easily and completely. They can be washed as often as desired since the finish is waterproof and the boards are treated with a waterproof back coating to seal out moisture. The base material is a combination of asbestos fibers and Portland cement compressed under high pressure to produce a board that has the stone-like characteristics expressed in its trade name—PETRALOX. The board is carefully prepared to provide a proper surface for the finish and assure uniformity in thickness.

Loxit PETRALOX Cement-Asbestos Chalkboards have a negligible co-efficient of expansion and contraction. They are fire-resistant, waterproof, easy to install and easy to maintain.

GUARANTEE: When installed in accordance with Loxit directions and subjected to normal chalkboard usage and maintenance, they are guaranteed against all chalkboard defects including bleeding for a period of ten years. Limited to furnishing of replacement chalkboards only.

TYPICAL LOXIT SHORT SPECIFICATION

All chalkboards shall be Loxit Washable PETRALOX Cement-Asbestos chalkboards PRS-300 RITE SPRING GREEN 3⁄16″ THICK *(or for alternate number and color see color chart above)* as manufactured by Loxit Systems, Inc., 1217 W. Washington Blvd., Chicago 7, Illinois, or approved equal. All chalkboards shall be in one piece up to eight feet long. Where the total length of chalkboards exceeds eight feet, same shall be neatly spliced with a Loxit metal divider strip finished to match the boards. All boards shall be installed strictly in accordance with manufacturer's shop drawings and/or directions using Loxit M-300 Super Adhesive.

LOXIT M-300 SUPER CHALKBOARD ADHESIVES

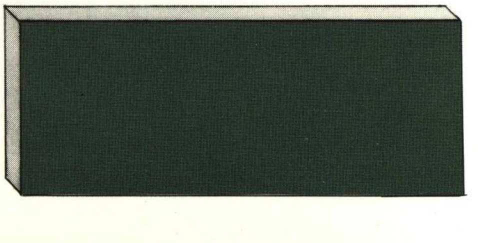
LOXIT
Super CEMENT
LOXIT SYSTEMS INC

A rubber base super adhesive. Easily applied, adheres readily with a firm bond. Available in quarts, gallons and 5-gallon drums. The best adhesive for LOXIT CHALKBOARDS and Loxikork mounted Tackboards. Instructions for proper use on every container.

For LOXITEX TACKBOARDS use M-350 SUPER adhesive.
For unmounted cork use M-250 STIKTITE adhesive.

LOXIT COMPOSITION CHALKBOARDS

KOMPO-LUX • KOMPO-CITE



The LOXIT COMPOSITION LINE of chalkboards meets all classroom requirements—Excellent Writing Surface—Easy Erasing—Strong—Waterproof. They can be washed as often as desired.

Available in ¼″ thickness—in standard heights of 3′—3½′—4′. Lengths of 3′ to 12′ in one piece. Can easily be cut to required sizes on job.

*Indicates Loxit Trademarks

LOXIT KOMPO-LUX* CHALKBOARDS

Available in EIGHT Beautiful Colors

TYPICAL LOXIT SPECIFICATION

Chalkboards shall be LOXIT KOMPO-LUX RS-100 RITE SPRING GREEN ***(or specify alternate number and color. See page 2.)***

¼″ chalkboards as manufactured by Loxit Systems, Inc., 1217 W. Washington Blvd., Chicago 7, Illinois, or approved equal. All boards shall be in one piece up to 12 feet long. Where the total length of chalkboards exceeds 12′ same shall be spliced with Loxit metal divider strips finished to match boards.

All boards shall have a base of smooth, grainless, long-fiber, all-wood material, carefully tempered and waterproofed. The writing surface shall consist of a primer and ground coat which shall be baked to a hard, non-porous surface by high temperature baking. This surface shall be water rubbed and followed with two coats of synthetic-plastic-resin-silicate compound sprayed on mechanically, after which the board shall be re-baked at high temperature to obtain a hard even chalkboard finish. Boards shall be installed strictly in accordance with manufacturer's shop drawings, and/or recommendations, using LOXIT M-300 Super Chalkboard adhesive.

GUARANTEE: When installed in accordance with LOXIT directions and subjected to normal chalkboard usage and maintenance, LOXIT KOMPO-LUX chalkboards are guaranteed for a period of 10 years against all chalkboard defects. Limited to furnishing of replacement chalkboards only.

LOXIT KOMPO-CITE* CHALKBOARDS

Available in TWO Colors Only. KR-99 RITE SPRING GREEN, KRD-98 RITE DARK GREEN

The same painstaking manufacturing care goes into the production of KOMPO-CITE Thrift Chalkboards as in the KOMPO-LUX boards. The same ingredients are used in the finish giving the same hard, non-porous, high-temperature baked texture although the finish is not as thick. The writing surface has the same smooth, even-writing qualities and has the same low reflectance for easy reading. It erases easily and completely and can be washed as often as desired.

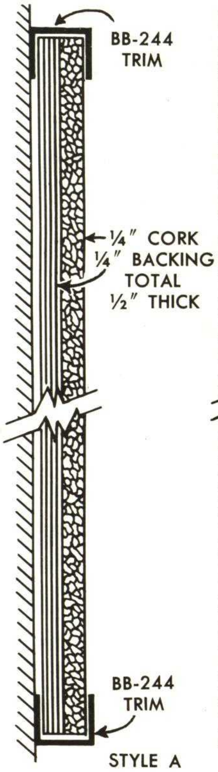
TYPICAL LOXIT SPECIFICATION

All chalkboards shall be LOXIT KOMPO-CITE KR-99 RITE SPRING GREEN ¼″ board or ***(KRD-98 RITE DARK GREEN ¼″ board).***

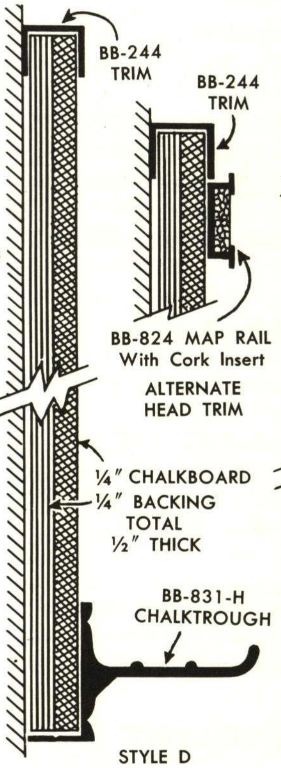
All boards shall be in one piece up to 12 feet long. Where the total length of chalkboards exceeds 12 feet, same shall be neatly spliced with Loxit metal divider strips finished to match boards.

All boards shall have base of smooth, grainless, long fiber all-wood material, carefully waterproofed and tempered. The writing surface shall consist of a primer ground coat which shall be baked and water-rubbed followed with one coat of a synthetic-plastic-resin-silicate compound mechanically sprayed on. Same shall be converted to a hard non-porous surface by high-temperature baking. All boards shall be installed strictly in accordance with manufacturer's shop drawings and/or recommendations using Loxit M-300 Super Chalkboard Adhesive.

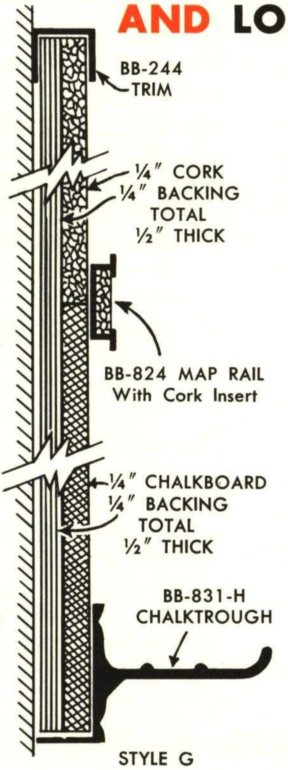
LOXIT "EXCELO" FACTORY PREFABRICATED PETRALOX—KOMPOLUX—KOMPOCITE CHALKBOARDS AND LOXIKORK—LOXITEX TACKBOARDS



STYLE A



STYLE D



STYLE G

This thrift line of easy to install chalkboards and tackboards meets almost every classroom requirement at a reasonable cost.

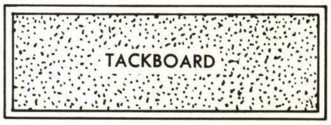
As composite assemblies in types A, B, C, and D, they are available in sizes up to 4′ high by 16′ long. In types G and H in sizes 5′ high by 16′ long. All are ½″ thick.

See page 6 for setting details. See pages 8 and 9 for tackboards. The new "EXCELO" composite chalkboard-tackboard assemblies can also be installed using the LOXIT MIRACLE Chalkboard-Tackboard Setting System. See pages 7 and 12.

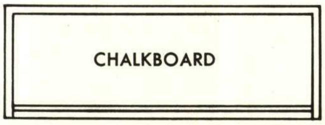
BRIEF "EXCELO" SPECIFICATION

All chalkboards and tackboards shall be LOXIT "EXCELO" factory prefabricated units as per styles and sizes shown on drawings ***(or specify styles and/or sizes here).***

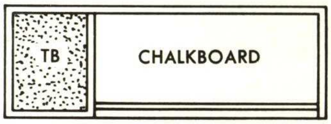
Chalkboards shall be ***(specify kind and color of chalkboards here).*** Tackboards shall be ***(specify kind and color of tackboards here).*** All units shall be installed strictly in accordance with manufacturer's shop drawings and/or recommendations.



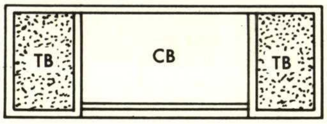
STYLE A



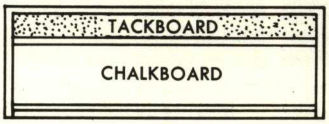
STYLE B



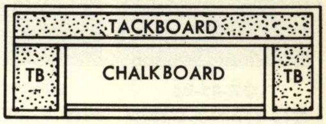
STYLE C-R or C-L



STYLE D



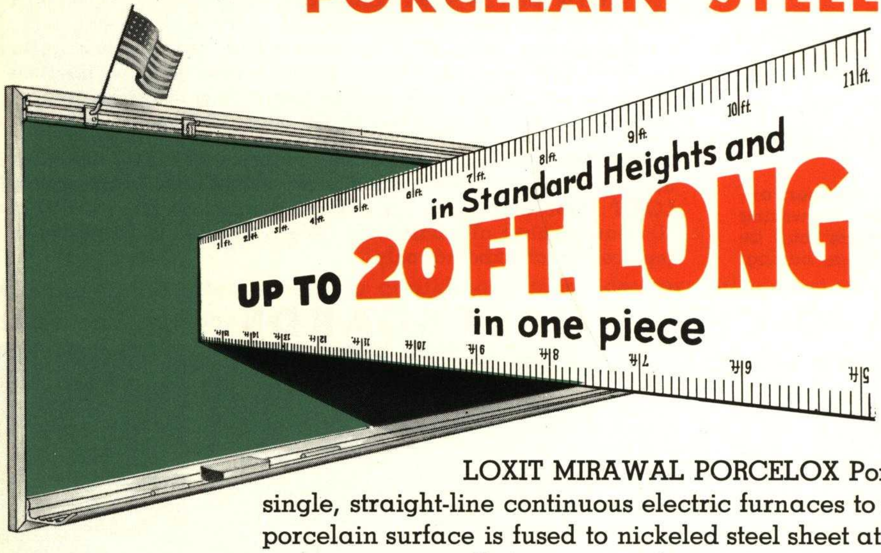
STYLE G



STYLE H

LOXIT MIRAWAL PORCELOX* (See page 12 for another New Board)

PORCELAIN STEEL CHALKBOARDS



Available in eight attractive colors—RITE SPRING GREEN, RITE DARK GREEN, RITE GRAY, RITE TAN, RITE CORAL, RITE BLUE, RITE WHITE (IVORY) AND RITE BLACK.

LOX-85 NU-VICTORY

(Available up to 4′ x 20′ in one piece.) Light gauge porcelain steel face laminated to 3/8″ LOX-A-KORE* with porcelain steel backing to balance chalkboard face sheet.

LOXIT MIRAWAL PORCELOX Porcelain Steel Chalkboards are produced in single, straight-line continuous electric furnaces to make the long lengths possible. The vitreous porcelain surface is fused to nickeled steel sheet at a closely controlled temperature of 1550°F, making it unexcelled as a porcelainized coating for all chalkboard uses.

Available to be trimmed on the job or as "PREFABS"—completely trimmed ready for fast, economical application directly on walls. Magnets can be used with all LOXIT MIRAWAL PORCELOX Chalkboards. Standard Heights 3′—3½′—4′. Standard Lengths in even feet up to 20′ long. ***(Intermediate lengths available on order.)***

CONSIDER THESE ADVANTAGES!

Available to you ONLY in LOXIT MIRAWAL PORCELOX

1. TWO TYPES AVAILABLE

LOX-85 NU-VICTORY LOXIT MIRAWAL PORCELOX—a light gauge porcelain steel chalkboard face sheet laminated to 3/8″ LOX-A-KORE with a porcelainized steel backing. Available up to 4′ x 20′—in one piece. It is approximately 1/2″ thick and will line up with Loxitex and mounted Loxikork tack boards without shimming. It is a balanced panel and can be applied to wall without adhesives, and it stays straight.

LOX-86 NU-IMPERIAL—available up to 4′ x 12′ on special order—laminated to 1/4″ exterior grade plywood with rust resistant metal backing sheet.

2. DURABLE AND PERMANENT

The vitreous inorganic porcelain chalkboard surface will not craze or crack. Shrinkage and expansion is negligible. Will take magnets.

3. SCRATCH AND IMPACT RESISTANT

The flint-hard porcelain surface provides high resistance against scratching and marring. Tests at least 6.5 on scale of Hardness of Minerals.

4. SANITARY AND EASY TO CLEAN

The glass-hard porcelain surface is impervious to acids, odors, greases and solvents. Easily cleaned with a damp cloth.

5. FIREPROOF CONSTRUCTION

LOXIT MIRAWAL PORCELOX chalkboards are fireproof. Will not support combustion.

6. LIGHT WEIGHT—SIMPLE TO INSTALL

The thinness of gauge about 0.020, which is adequate for all chalkboard requirements makes them light in weight, simple to install and easy to handle during erection.

7. EIGHT BEAUTIFUL FADEPROOF SCHOOL COLORS

Rite Spring Green, Rite Dark Green, Rite Gray, Rite Tan, Rite Coral, Rite Blue, Rite White (Ivory), and Rite Black.

8. COLORED CRAYONS

Loxit recommends Binney & Smith "Kleerwae" Colored Dustless Chalkboard Crayons, or approved equal for use with all Loxit Colored Chalkboards.

9. MAINTENANCE FREE AND ECONOMICAL

They are maintenance free except for cleaning. Will meet any reasonable budget both in the construction of the building and in its maintenance.

10. TRIMMED

Available untrimmed to be installed and trimmed on the job, or as "PREFABS" COMPLETELY TRIMMED ready to set in place, using any of the methods shown on page 6 or with the Loxit Miracle Adjustable Chalkboard Setting System as shown on page 7.

SCHEDULE "A"—TYPE—NUMBERS—COLORS

🟩	■	■	🟫	🟥	🟦	■	□
LOX-RS-85 RITE SPRING GREEN	LOX-RD-85 RITE DARK GREEN	LOX-RG-85 RITE GRAY	LOX-RT-85 RITE TAN	LOX-RC-85 RITE CORAL	LOX-RB-85 RITE BLUE	LOX-RBB-85 RITE BLACK	LOX-RW-85 RITE WHITE (Ivory)

LOXIT MIRAWAL PORCELOX* PORCELAIN STEEL CHALKBOARDS

No adhesives are required for Loxit Nu-Victory boards.

A. TYPICAL LOXIT NU-VICTORY PORCELAIN STEEL CHALKBOARD SPECIFICATION

All chalkboards shall be LOXIT MIRAWAL PORCELOX ***(here specify number and color selection taken from color chart "A" such as LOX-RS-85 NU-VICTORY Rite Spring Green Chalkboards)*** as manufactured by Loxit Systems, Inc., 1217 W. Washington Blvd., Chicago 7, Illinois, or approved equal.

Chalkboards shall be high pressure laminated, three ply, fully balanced panels consisting of a light gauge porcelain steel chalkboard facing, (approximately 0.020) laminated to 3/8" LOX-A-KORE to which a porcelain steel backing sheet shall be laminated to balance panel. The chalkboard facing and backing sheets shall be processed in strict accordance with the recognized procedures of the PORCELAIN ENAMEL INSTITUTE for Architecturally Fired Porcelain. The chalkboard surface shall be composed of three coats of porcelain enamel as hereinafter specified. The base metal shall be enameling steel fully covered on both surfaces with a porcelain enamel ground coat and fired at temperatures sufficient to completely fuse the ground coats to the base metal. Base metal having aluminum or other processed firing agents will not be acceptable. On the chalkboard face of the metal sheet an intermediate coat of porcelain shall be applied over the ground coat, after which a writing surface shall be applied over the intermediate coat, both as separate operations and in thicknesses consistent with the standards recognized by the P.E.I. They shall be fired at a closely controlled temperature not less than 1550°F. The writing surface shall have a reflectance not greater than 20% nor less than 15% as recommended by the American Standard for School Lighting—and a hardness of not less than 6.5 when tested by Scale of Hardness of Minerals. The porcelain steel backing sheet shall be processed in the same manner as the chalkboard facing but need not be of chalkboard texture nor match in color.

All chalkboard panels shall be in one piece up to 4 feet in height and 20 feet in length, and in two panels of equal length for spans up to 36 feet inclusive.

Note to Architect: If chalkboards are to be set up and trimmed on the job see page 10 for Loxit TRU-SNAP aluminum trim or page 11 for Loxit SCREW-ON trim and specifications, and add this sentence "where total length of chalkboard assembly exceeds 20′, chalkboard shall be neatly spliced using Loxit metal dividers finished to match boards."

Note to Architect: If chalkboards are to be pre-fabricated—as we strongly recommend—add the prefabrication specification "B" shown below to typical specification "A" above.

B. TYPICAL LOXIT STANDARD PREFAB SPECIFICATION

All Loxit NU-VICTORY Porcelox chalkboard panels shall be completely factory prefabricated and trimmed by manufacturer ready to hang on wall—using Loxit channel section BB-244 S on jambs complete with head returns, combination channel map rail BB-824 S, with cork insert for head trim ***(see page 9 for colors)*** and angle chalktrough BB-830 S for sill. Chalktrough shall be pre-drilled and fitted but shipped separately for safety in transit for assembling at job. Furnish one combination map hook and paper clip for each 24" of map rail and one flag holder and one pair of roller brackets for each length of map rail. All trim and accessories shall be virgin 6063-T5 extruded aluminum anodized with Loxit never-tarnish Glo-Dull® finish. Chalkboard panels shall be secured to wall with screws and plugs and/or toggles as required.

Note to Architect: For short combination prefab and setting chalkboard specifications see page 6.

Note to Architect: See page 6 for specific methods of setting prefabricated chalkboard and tackboard panels as recommended by Loxit. If one of these methods is preferred to the above general clause underlined, substitute for the portion that is underlined the following—using the Loxit Chalkboard Setting System CSS-101 ***(or the alternate method preferred).***

Note to Architect: If the Loxit Miracle Chalkboard Adjustable Setting System is preferred, see page 7, and substitute for the portion that is underlined the following—using the Loxit Miracle Chalkboard Adjustable Setting System CSS-100.

TACKBOARDS—See page 8 for LOXITEX tackboards including prefabs and page 9 for LOXIKORK tackboards including prefabs.

GUARANTEE: Loxit guarantees that all NU-VICTORY LOXIT MIRAWAL PORCELOX chalkboards are manufactured in accordance with the performance specifications established and recommended by the Porcelain Enamel Institute Inc. PEI: S-104 dated August 1956. They are guaranteed to provide satisfactory trouble-free service for the lifetime of the building when installed in same, in accordance with Loxit recommendations and subjected to normal schoolroom usage and maintenance. This guarantee is limited to the furnishing of replacement chalkboards only.

VALUABLE PREFABRICATION INFORMATION

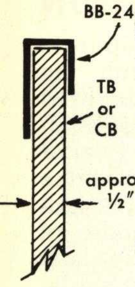
Loxit factory prefabricated "Pre-Fab" Chalkboards and Tackboards not only assure a precision trimmed panel but they greatly simplify the field work by reducing the time, effort and expense of installation to a fraction of what field trimmed boards cost.

In addition, factory prefabricated Chalkboards and Tackboards are far more flexible than field installed and trimmed boards. By using the proper type of board and the proper type of installation the boards are adjustable, and either removable or exchangeable.

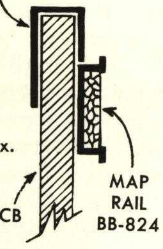
Detail sheets suitable for tracing showing the prefabrication and installation methods of chalkboards and tackboards are available upon request without obligation. See pages 6 and 7.

LOXIT CHALKBOARD-TACKBOARD PREFABRICATION DETAILS

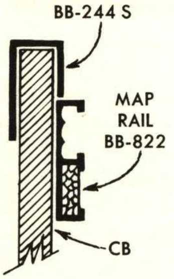
For use with Loxit Porcelox and Tru-Lux Chalkboards (See Pages 3 and 4)


BB-244 S
TB or CB
approx. ½″
CB

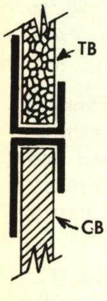
Sect. A


MAP RAIL BB-824

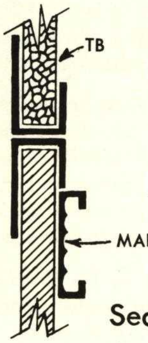
Sect. B


BB-244 S
MAP RAIL BB-822
CB

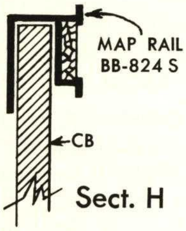
Sect. K



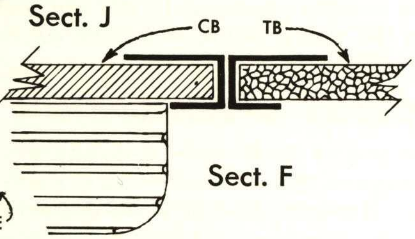
Sect. D


TB
MAP RAIL BB-820
(No Cork)

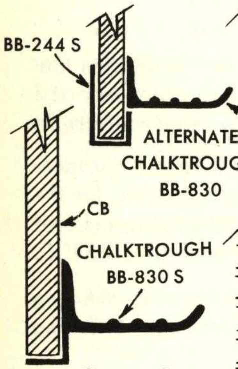
Sect. J


MAP RAIL BB-824 S
CB

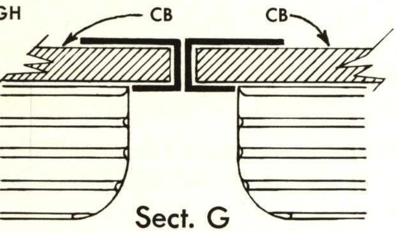
Sect. H



Sect. F

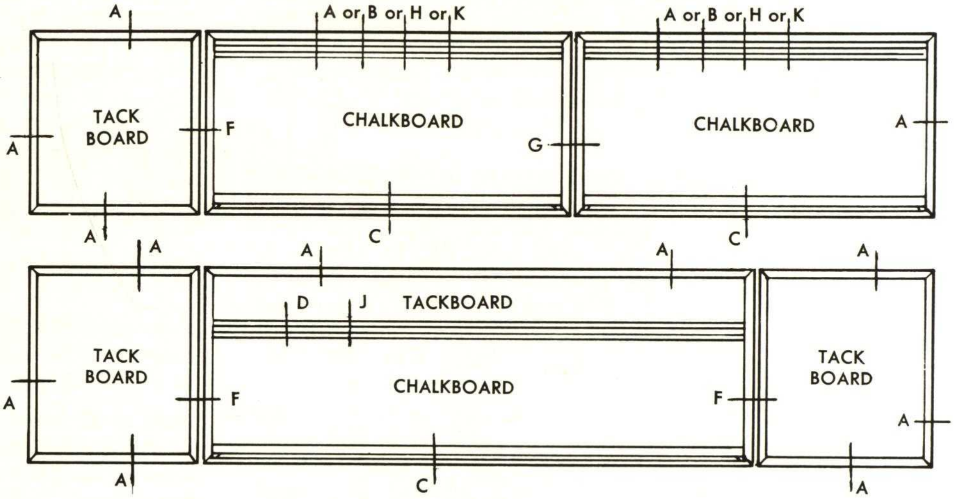

BB-244 S
ALTERNATE CHALKTROUGH BB-830
CB
CHALKTROUGH BB-830 S

Sect. C



Sect. G

TYPICAL CHALKBOARD-TACKBOARD INSTALLATIONS AS SINGLE BOARDS OR IN COMBINATION OF BOARDS


A
A or B or H or K
A or B or H or K
TACK BOARD
CHALKBOARD
CHALKBOARD
A
F
G
A
A
C
C
A
A
A
A
D
J
TACKBOARD
TACK BOARD
CHALKBOARD
TACK BOARD
A
F
F
A
A
C
A

PRE-FABRICATED NU-VICTORY CHALKBOARDS

Available in standard heights and up to 16 feet long in one piece.

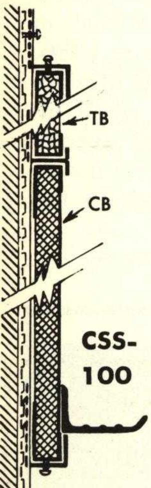
Prefabricated Tackboard Panels ½″ thick (T-901 C, T-501 C, T-401 C) are available up to 4 feet high and 16 feet long—in one piece. Panels using ¼″ cork mounted on ¼″ plywood or ¼″ hard board are limited to 4′ x 12′ in one piece. (See page 9).

Note to Architect: We recommend the use of our typical Standard "Prefab" Specification shown on page 5 as meeting all requirements for this very practical as well as very beautiful new type of chalkboard-tackboard construction, but the Typical Short Combination Prefab-Setting Chalkboard-Tackboard Specification which follows can be used if preferred.

TYPICAL SHORT LOXIT "PREFAB" CHALKBOARD SPECIFICATION—including setting system.

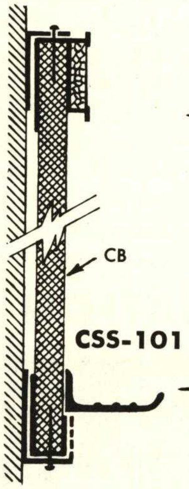
All Chalkboards and Tackboards shall be LOXIT Prefabs as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal, in accordance with the Loxit typical standard prefabrication specification and details. They shall be installed using Loxit Typical Chalkboard Setting System CSS-102. ***(Note to Architect: See page 6 for details showing CSS-100 as well as other alternates). If the Loxit Miracle Chalkboard Adjustable Setting System is preferred change portion underlined to read:*** Loxit Miracle Adjustable Chalkboard Setting System CSS-100.

FIVE TYPICAL SYSTEMS FOR SETTING LOXIT PREFAB CHALKBOARDS (CSS)


TB
CB
CSS-100

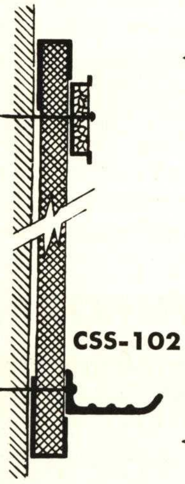
CSS-100

Loxit Miracle Adjustable Chalkboard Setting System



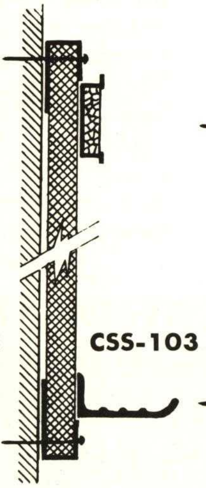
CSS-101

Loxit Angle Bracket Setting System. Secured by wall angle at top and wall angle or channel at bottom. Wall fasteners furnished when ordered.



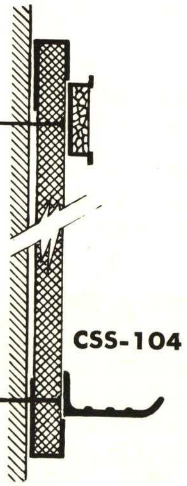
CSS-102

Fastened through Map Rail and Chalktrough. Oval head screws or toggles applied through map rail and chalktrough to wall. Furnished when ordered.



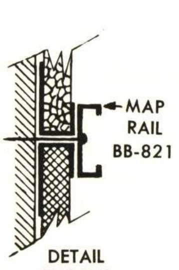
CSS-103

Fastened through Trim. Oval head screws or toggles applied through channel trims directly to wall. Furnished when ordered.



CSS-104

Fastened through Chalkboard with map rail and chalktrough applied after to cover heads of fasteners.

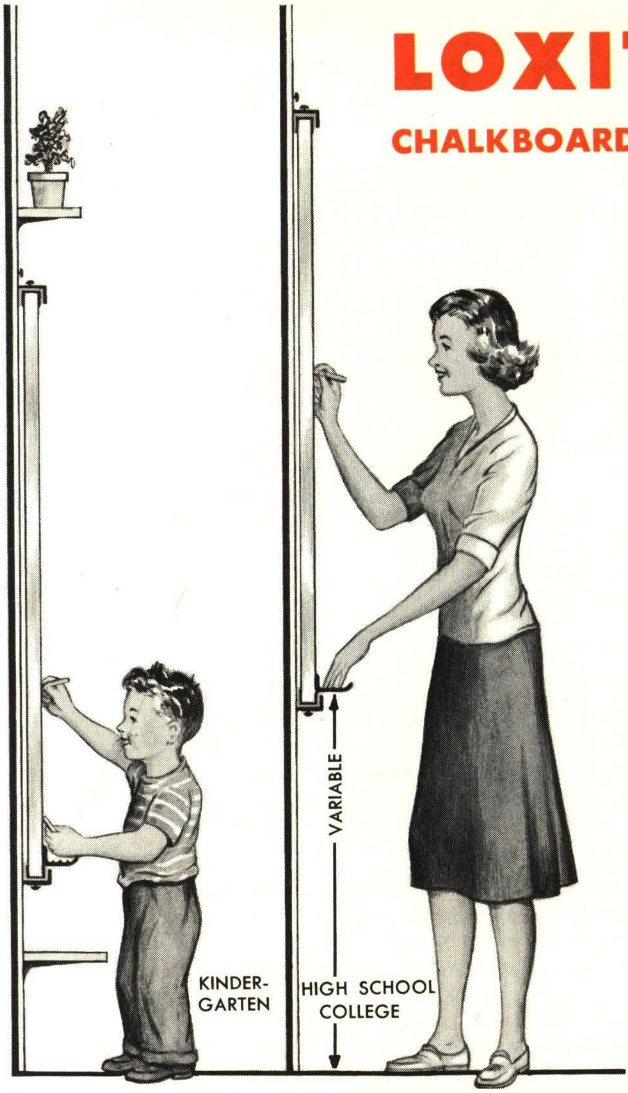

MAP RAIL BB-821

DETAIL SHOWS INTERMEDIATE MAP RAIL CAN APPLY TO ALL EXCEPT CSS-100

Loxit factory prefabricated chalkboard and tackboard panels are the answer to beautifully trimmed boards; quick, easy, practical, economical installation, maximum flexibility in use, including adjustable setting to meet student requirements. Detail sheets suitable for tracing are available upon request without obligation.

LOXIT MIRACLE* ADJUSTABLE

CHALKBOARD-TACKBOARD SETTING SYSTEM No. CSS-100


VARIABLE
KINDER-GARTEN
HIGH SCHOOL COLLEGE

USING LOXIT PREFABRICATED CHALKBOARDS AND TACKBOARDS

Due to rapidly changing school room requirements there is a need for a Chalkboard-Tackboard Setting System that will provide for the rapid, easy, changing of board heights above the floor, as well as for the easy changing of boards for other sizes, colors, locations or combinations.

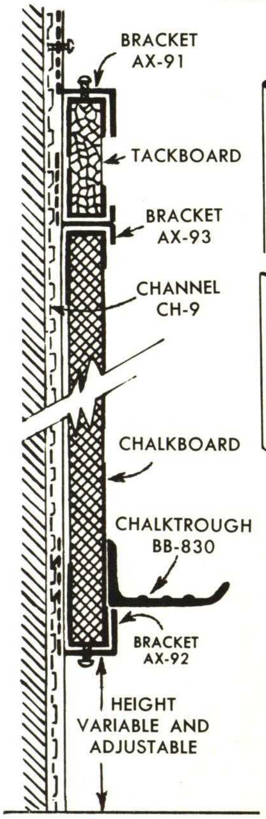
The New LOXIT MIRACLE Adjustable Chalkboard and Tackboard Setting System offers a solution that is practical, safe, economical, easy to install and easy to use, in fact that solves all these problems. All parts are cadmium plated to match Loxit anodized "GLO-DULL" chalkboard trim finish.

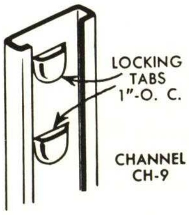
The Loxit CH-9 Standards should be spaced about 30" o.c. and unless detailed or specified otherwise will be furnished on this basis, with quantities and kinds of clips required for the job. They can be installed by any carpenter or maintenance man. Directions accompany each shipment. Detail sheets suitable for tracing available upon request without obligation. Also sample model.

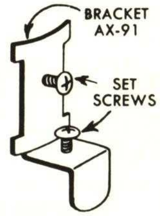
RECOMMENDED LOXIT SHORT SPECIFICATION

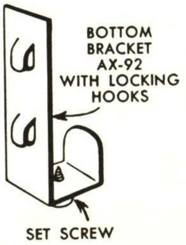
All chalkboards and tackboards shall be installed using the Loxit Miracle Chalkboard Adjustable Setting System CSS-100 as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, strictly in accordance with manufacturer's shop drawings and/or directions.

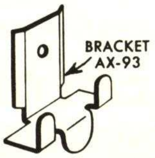
DRAWINGS SHOW THE SIMPLE BRACKETS WHICH HOOK INTO THE STANDARDS

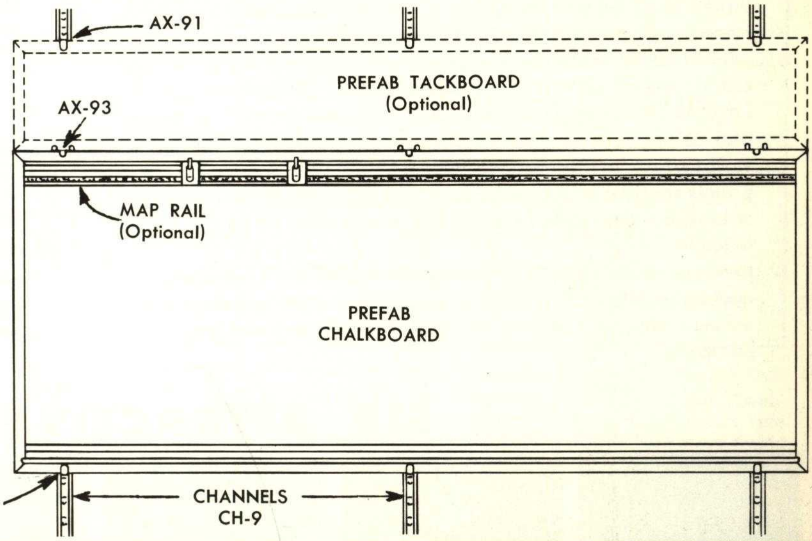

BRACKET AX-91
TACKBOARD
BRACKET AX-93
CHANNEL CH-9
CHALKBOARD
CHALKTROUGH BB-830
BRACKET AX-92
HEIGHT VARIABLE AND ADJUSTABLE

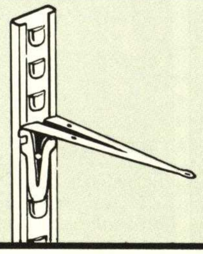

LOCKING TABS 1"-O. C.
CHANNEL CH-9


BRACKET AX-91
SET SCREWS


BOTTOM BRACKET AX-92 WITH LOCKING HOOKS
SET SCREW


BRACKET AX-93


AX-91
PREFAB TACKBOARD (Optional)
AX-93
MAP RAIL (Optional)
PREFAB CHALKBOARD
AX-92
CHANNELS CH-9



NEW LOXIT WONDER* SHELVING SYSTEM

It is adjustable in every dimension, shelf height and spacing, number of shelves and length of assemblies. Brackets are cadmium plated to match Loxit Glo-Dull trim used on chalkboards and tackboards.

It can be used separately or in combination with the Loxit Miracle Chalkboard and Tackboard Setting System, as indicated above.

See page 12 for further details and specifications.

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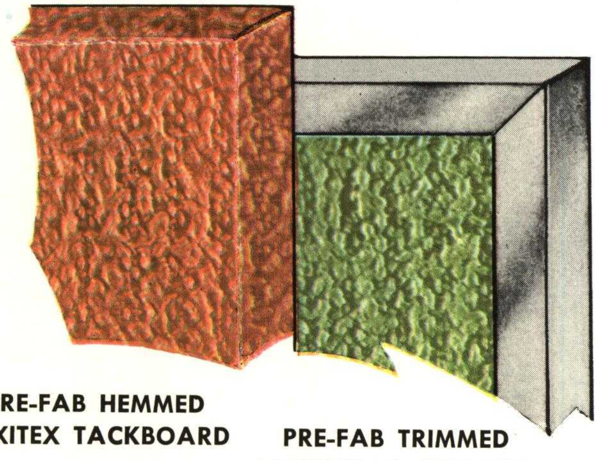
*Above systems covered by Urbain patent No. 2,285,632 and other patents applied for.

LOXIT *Colorful* LOXITEX* TACKBOARDS

The LOXIT LOXITEX line of tackboards provides a surface of genuine VICRTEX electrically-fused vinyl-coated fabrics laminated under high pressure to a treated pulpboard backing. LOXITEX is easily cleaned; is stain, fire and soil-resistant; will not crack, chip, peel or scratch. It is available in six fadeproof colors at no extra cost: Limed, White, Cinnabar Coral, Sand Tan, Celadon Blue, Sandalwood Brown and Willow Green in deep-molded, three-dimensional patterns to eliminate disturbing reflections. LOXITEX tackboards remain pliable and spongy even under long, hard usage. Pins and tacks go in easily, hold tight, and holes are self sealing when tacks are removed.



PRE-FAB HEMMED LOXITEX TACKBOARD

PRE-FAB TRIMMED LOXITEX TACKBOARD

A. TYPICAL LOXIT TACKBOARD SPECIFICATION

All tackboards shown in the drawing and/or called for in the specifications shall be LOXITEX tackboards as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal. They shall be fabricated from genuine heavy weight Vicrtex electrically-fused coated fabrics, in ***(Specify number and color here such as Willow Green T-206X).*** All tackboards shall be factory laminated under high pressure to a backing of treated pulpboard, assuring tight, uniform panels.

B. ***If panels are to be TRIMMED on job add to typical specification "A".*** All panels shall be cut flush on all four sides to be trimmed on job. Where total length of tackboards exceed 12′ the panels shall be neatly spliced with a Loxit metal divider finished in color to match boards.

C. ***If panels are to be furnished with HEMMED EDGES add to typical specification "A".*** All panels shall have hemmed edges with corners neatly tucked in. When total length of tackboards exceeds 12′ long the panels shall be neatly butted together.

D. ***If panels are to be prefabricated add to typical specification "A".*** All panels shall be LOXIT factory prefabricated ready to hang on the wall, using Loxit BB-244 S channel trim on the four sides. Same shall be of virgin 6063-T5 extruded aluminum anodized with the LOXIT never-tarnish GLO-DULL finish to match chalkboards. Panels shall be secured to walls with chrome plated oval head screws and plugs and/or toggles as required ***(or using the Loxit standard CSS-101, or other hanging system preferred as shown on page 6)*** tackboard setting system or approved equal. Furnish and apply Loxit M-350 super Loxit tackboard adhesive to back of panels and/or on walls in globs to bind the central area of panels to wall surface in accordance with manufacturer's directions. All panels shall be in one piece up to 4′ x 12′ long. When the length of tackboard exceeds 12′ long, the panels shall be neatly butted together.

Note to architect: PREFABRICATED Loxitex tackboard panels 4 feet in height are available in one piece up to 16 feet in length at a small increase in cost. If wanted substitute 4′ x 16′ for 4′ x 12′ underlined in prefabrication specifications "D" above.

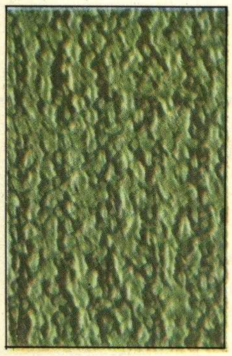
E. ***Note to architect: BALANCED LOXITEX PANELS are available with hemmed edges or as "prefab" for easel use or to hang on walls without the use of adhesives and/or to be set up separately or in combination with chalkboards using the Loxit Miracle Adjustable Chalkboard and Tackboard Setting System. The length of balanced Loxitex panels for these uses is limited to 8′ long since no adhesives are required. It is possible to easily, quickly and economically relocate the panel or exchange them for panels of other sizes, colors or finish.***

F. ***If wall hung hemmed edged Balanced Loxitex tackboards are wanted add the following to typical specification "A".*** All panels shall be BALANCED panels with edges hemmed and corners neatly tucked in ready to hang on wall without adhesives. Same shall be applied to walls, using chrome plated oval head screws, washers and plugs and/or toggles as required for a secure, neat and workmanlike job strictly in accordance with manufacturer's shop drawings and/or directions. All panels shall be in one piece up to 4′ x 8′ in size.

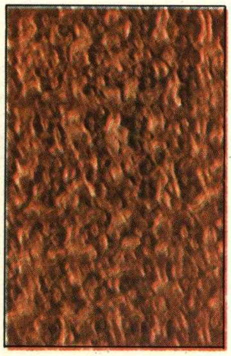
G. ***If wall hung "Prefab" Balanced Loxitex tackboards are wanted add the following to the above specifications "A".*** All panels shall be Balanced Loxitex panels completely prefabricated ready to install without the use of adhesives. Same shall be trimmed on all four sides with Loxit BB-244 S channel trim which shall be virgin 6063-T5 extruded aluminum anodized with the never-tarnish Loxit Glo-Dull finish. All panels shall be secured to wall with the Loxit CSS-101 ***(or CSS-103—see page 6)*** Tackboard Setting System strictly in accordance with manufacturer's shop drawings and/or directions. All panels shall be in one piece up to 4′ x 8′ in size.

H. ***If Prefab Balanced Loxitex Tackboards are to be installed separately or in connection with chalkboard using the LOXIT MIRACLE Adjustable Chalkboard Setting System, substitute the following for the underlined portion of specification "G".*** All panels shall be installed using the LOXIT MIRACLE Adjustable Chalkboard Setting System CSS-100.

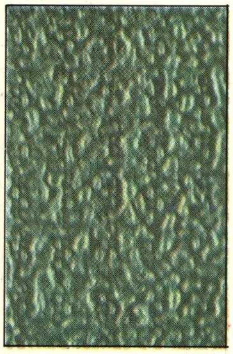
SIX ATTRACTIVE COLORS



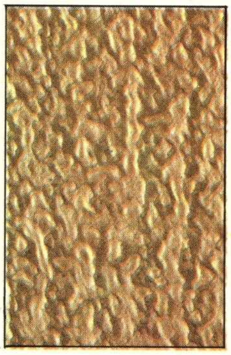
WILLOW GREEN
T-206X



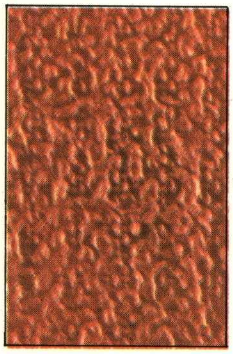
SANDALWOOD BROWN
T-204X



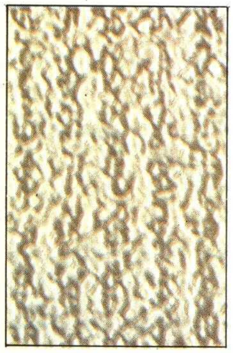
CELADON BLUE
T-202X



SAND TAN
T-205X

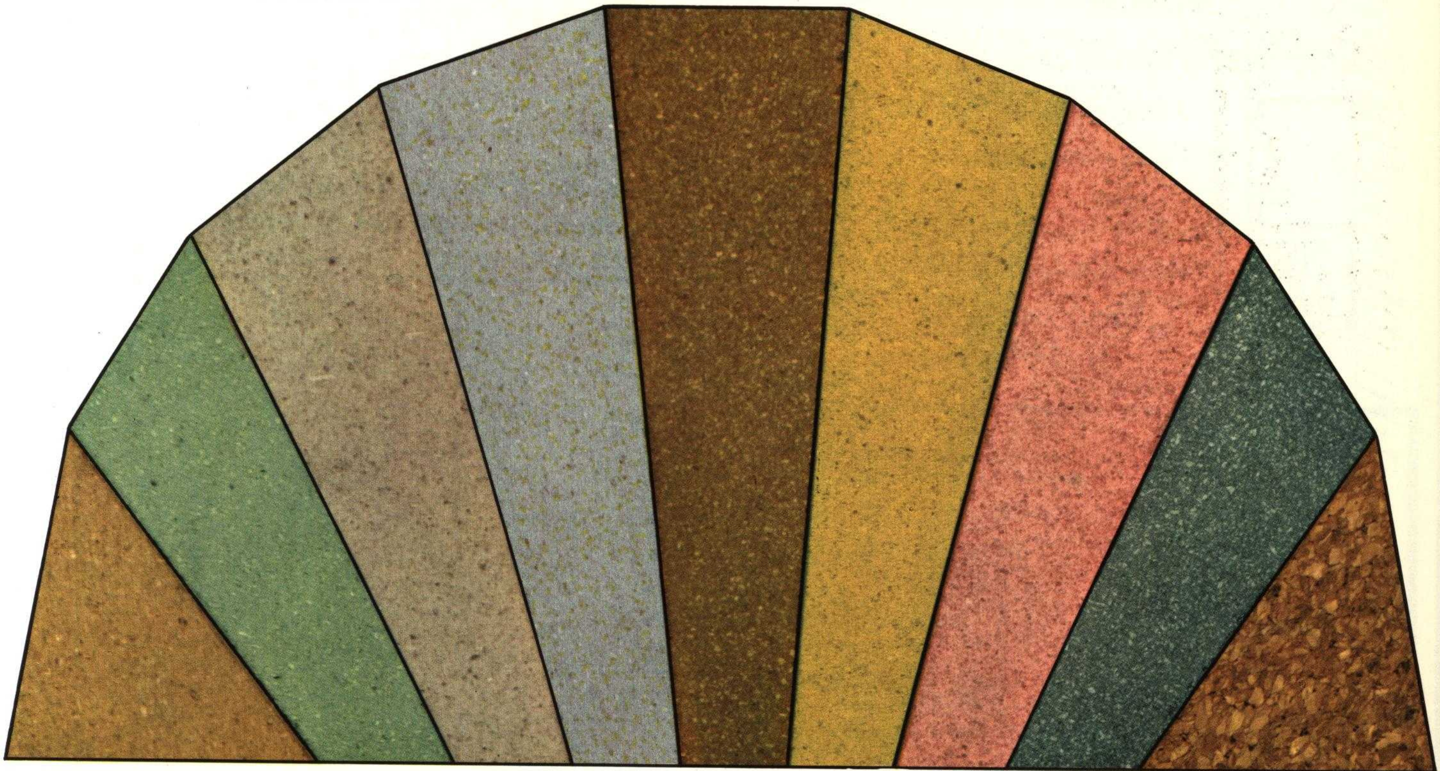


CINNABAR CORAL
T-203X



LIMED WHITE
T-201X

LOXIT LOXIKORK* TACKBOARDS



SCHEDULE OF LOXIT LOXIKORK TACKBOARDS

UNMOUNTED			MOUNTED USING					
			¼″ PLYWOOD		¼″ HARD BOARD		⅜″ PULPBOARD	
No.	Thickness	Item	No.	Total Thickness	No.	Total Thickness	No.	Thickness Total
T-900	⅛″	Harvest Tan	—	—	—	—	T-901C	½″
T-902	¼″	Harvest Tan	T-902A	½″	T-902B	½″	—	—
T-500	⅛″	Roadside Green	—	—	—	—	T-501C	½″
T-502	¼″	Roadside Green	T-502A	½″	T-502B	½″	—	—
T-302	¼″	Twilight Gray	T-302A	½″	T-302B	½″	—	—
T-1102	¼″	Sky Blue	T-1102A	½″	T-1102B	½″	—	—
T-400	⅛″	Sun Tan	—	—	—	—	T-401C	½″
T-402	¼″	Sun Tan	T-402A	½″	T-402B	½″	—	—
T-1302	¼″	Golden Tan	T-1302A	½″	T-1302B	½″	—	—
T-1202	¼″	Seashell Rose	T-1202A	½″	T-1202B	½″	—	—
T-602	¼″	Leaf Green	T-602A	½″	T-602B	½″	—	—
T-700	⅛″	Eze-Tac	—	—	—	—	T-701C	½″
T-702	¼″	Eze-Tac	T-702A	½″	T-702B	½″	—	—

All ¼″ corks available unmounted in full rolls or cut to size. All ⅛″ corks available in full rolls only. All of above corks are furnished with burlap back except T-700 EZE-TAC.

TYPICAL SHORT SPECIFICATION—All tackboards shall be LOXIKORK tackboards as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal. ***(Here specify name and number of board selected from schedule above).*** Boards shall be in one piece up to 4 x 12 feet. Where splices are required same shall be butted in a neat workmanlike manner ***(or if preferred, specify Loxit metal divider finished to match cork).*** All boards shall be set strictly in accordance with manufacturer's shop drawing and/or directions using Loxit M-300 super adhesive for mounted cork or M-250, if unmounted.

Note to Architect: Certain Prefabricated Loxikork tackboards are available in one piece up to 4 x 16 feet. When wanted use the following specification.

PREFABRICATED LOXIKORK SPECIFICATION—All tackboards shall be Loxikork prefabricated tackboards as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal. Same shall be Loxit number T-901 C ***(choose T-501 C or T-401 C if preferred).*** They shall be in one piece up to 4 x 16 feet. They shall be trimmed on all sides with Loxit BB-244 S channel trim which shall be virgin 6063-T5 extruded aluminum, anodized with Loxit never-tarnish Glo-Dull finish to match chalkboards. All boards shall be set strictly in accordance with manufacturer's shop drawings and/or directions using screws and plugs and/or toggles, and Loxit super adhesive M-300 following instructions on container as required.

BALANCED PREFAB LOXIKORK SPECIFICATION—All tackboards shall be Loxit Prefabricated BALANCED LOXIKORK Tackboards as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois. Boards shall be in one piece up to 4 x 8 feet. They shall be trimmed on all sides with Loxit BB-244 S channel trim. All trim shall be virgin 6063-T5 extruded aluminum anodized with Loxit never-tarnish Glo-Dull finish to match chalkboards. Same shall be installed as separate units or in combination with chalkboards using Loxit Miracle Adjustable Setting System CSS-101 strictly in accordance with manufacturer's shop drawings and/or directions.

LOXIT M-250 STIKTITE ADHESIVE

(For *unmounted* cork only)

Loxit M-250 Stiktite adhesive was developed especially for the installation of UNMOUNTED cork and NOT for use with Loxikork Mounted Panels or Chalkboards—See box below. Use strictly in accordance with directions on each container. Available in quart, gallon, and five gallon containers.

For Loxitex use LOXIT M-350 Super Adhesive
For Loxit Chalkboards and mounted cork use LOXIT M-300 Super Adhesive

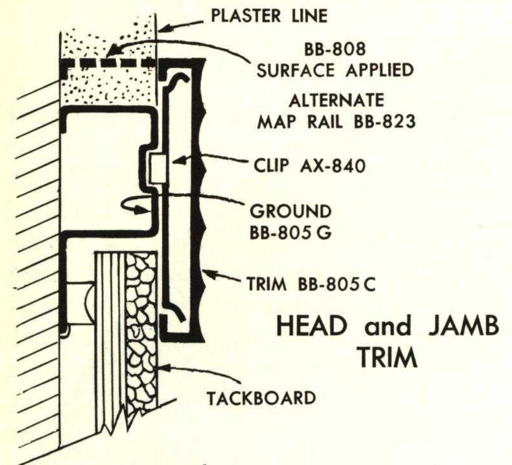
†Due to the high cost of raw materials these three colors are available only on special order.

LOXIT *TRU-SNAP*®
CHALKBOARD and TACKBOARD ALL ALUMINUM TRIM

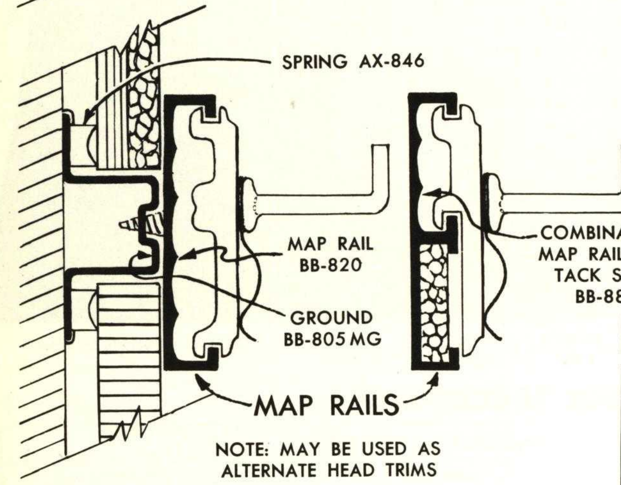
Details Show Recessed Type Trim

Surface Applied Trim indicated by dotted lines

Chalkboards, Pages 2, 3, 4 and 12 Tackboards, Pages 8 and 9

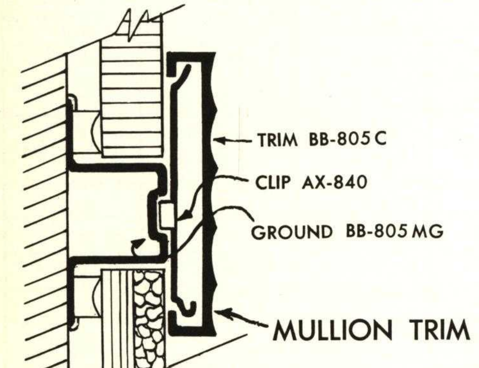

PLASTER LINE
BB-808
SURFACE APPLIED
ALTERNATE
MAP RAIL BB-823
CLIP AX-840
GROUND
BB-805 G
TRIM BB-805 C
TACKBOARD

HEAD and JAMB TRIM

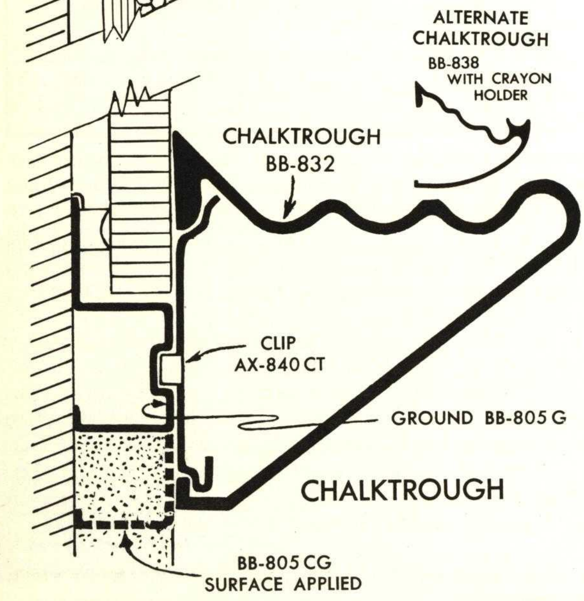

SPRING AX-846
MAP RAIL
BB-820
GROUND
BB-805 MG
COMBINATION
MAP RAIL AND
TACK STRIP
BB-882

MAP RAILS

NOTE: MAY BE USED AS ALTERNATE HEAD TRIMS

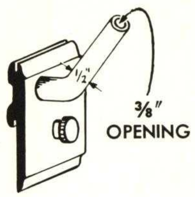

TRIM BB-805 C
CLIP AX-840
GROUND BB-805 MG

MULLION TRIM


ALTERNATE
CHALKTROUGH
BB-838
WITH CRAYON
HOLDER
CHALKTROUGH
BB-832
CLIP
AX-840 CT
GROUND BB-805 G
BB-805 CG
SURFACE APPLIED

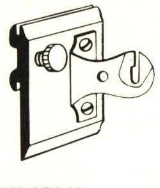
CHALKTROUGH

FLAG HOLDER



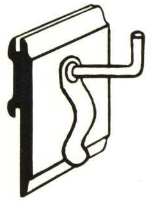
AX-821 FH

ROLLER BRACKETS



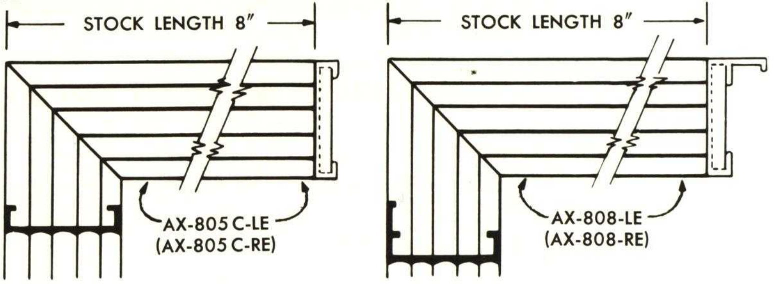
AX-821 LB
AX-820 RB
ROLLER BRACKETS
FURNISHED IN PAIRS

COMBINATION MAP HOOK and PAPER CLIP



THIS ACCESSORY USED WITH MAP RAILS BB-821, BB-822 AND BB-823

RETURN FITTINGS


STOCK LENGTH 8"
STOCK LENGTH 8"
AX-805 C-LE
(AX-805 C-RE)
AX-808-LE
(AX-808-RE)

THESE RETURN FITTINGS ARE USED TO RETURN JAMB TRIM AT TOP OF BOARD WHEN MAP RAILS SERVE AS HEAD TRIM

TYPICAL LOXIT SHORT *TRU-SNAP* TRIM SPECIFICATION

SCOPE AND MATERIALS—Furnish and install all chalkboards and tackboards using Loxit Tru-Snap extruded virgin 6063-T5 aluminum alloy chalkboard trim as manufactured by Loxit Systems, Inc., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal. Same shall be anodized in the Loxit never-tarnish GLO-DULL finish. Furnish in stock lengths to be cut, mitered and fitted on job. Same shall be complete with Loxit grounds as required.

TRIM—All jamb, mullion and head trim shall be Loxit fluted type trim. BB-805 C or BB-808 as required on job. ***(Plain trim is available if preferred).*** Same shall be complete with return corner fittings as required.

MAP RAILS—Where map rails are called for, same shall be Loxit BB-822 or BB-823 combination cork strip and map rail as required by job. ***(Note to Architect: Specify BB-820 if plain map rail without cork is preferred).***

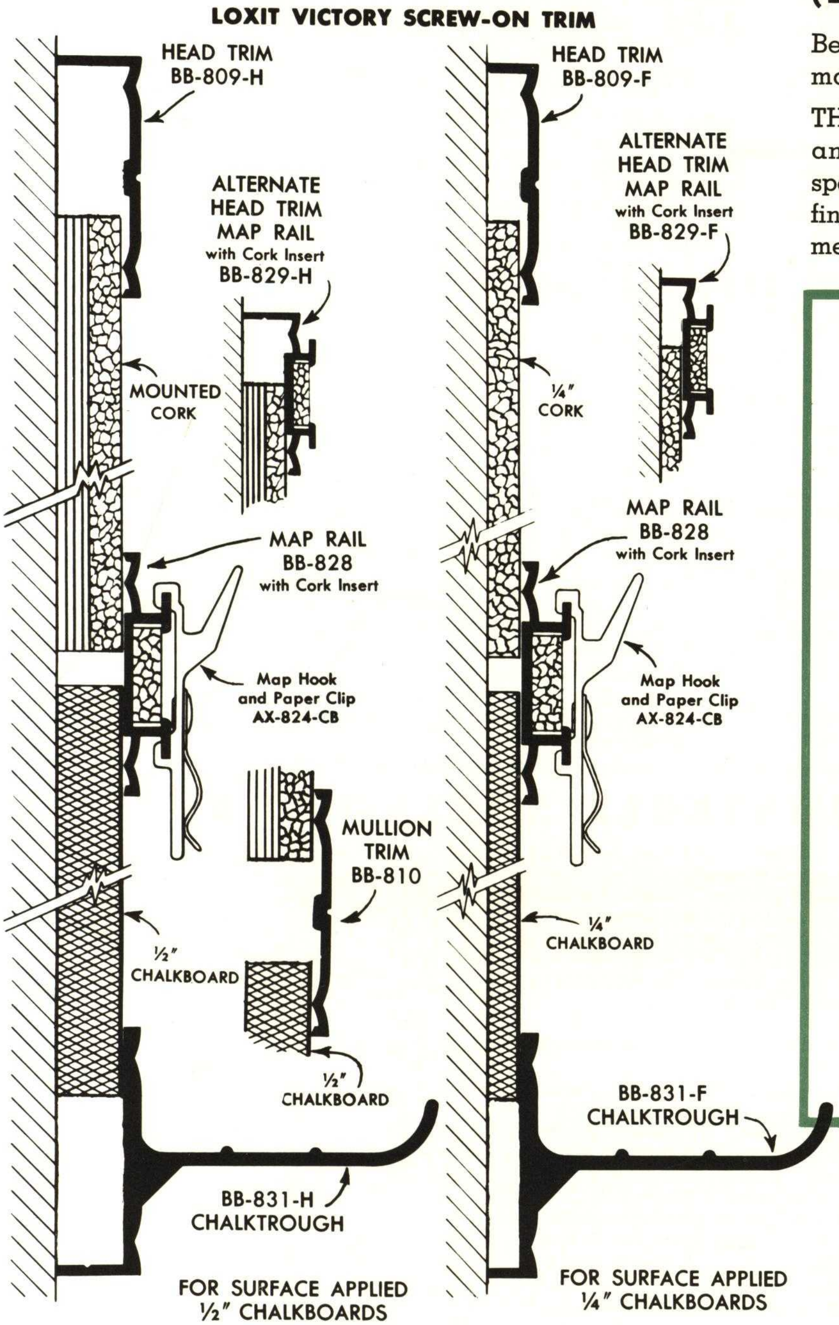
CHALK TROUGHS—Chalk trough shall be Loxit closed horizontal type trough BB-832 complete with sweep-out end fittings. ***Note to Architect: If inclined closed type with crayon groove at the front is preferred, specify BB-838.***

ACCESSORIES—Contractor shall provide one pair of roller brackets and one flag holder for each run of map rail and one combination Loxit map hook and paper clip for each 24" of map rail.

SHOP DRAWINGS—Contractor shall furnish shop drawings to be provided by LOXIT SYSTEMS, INC. for architect's approval before starting job. He shall furnish manufacturer with complete information including overall job dimensions and such drawings, specifications and details as may be required by manufacturer in order to provide adequate shop drawings. All work shall be done strictly in accordance with manufacturers shop drawings and/or directions.

PROTECTION—The contractor shall be responsible for protection when, as, and if required.

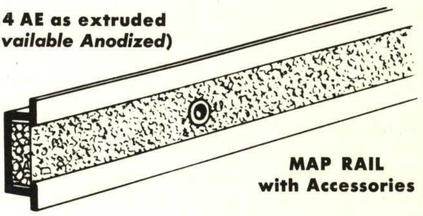
LOXIT VICTORY*
SCREW-ON ALUMINUM CHALKBOARD TRIM
(DOES NOT REQUIRE GROUNDS)


LOXIT VICTORY SCREW-ON TRIM
HEAD TRIM BB-809-H
ALTERNATE HEAD TRIM MAP RAIL with Cork Insert BB-829-H
MOUNTED CORK
MAP RAIL BB-828 with Cork Insert
Map Hook and Paper Clip AX-824-CB
MULLION TRIM BB-810
½″ CHALKBOARD
½″ CHALKBOARD
BB-831-H CHALKTROUGH
FOR SURFACE APPLIED ½″ CHALKBOARDS
HEAD TRIM BB-809-F
ALTERNATE HEAD TRIM MAP RAIL with Cork Insert BB-829-F
¼″ CORK
MAP RAIL BB-828 with Cork Insert
Map Hook and Paper Clip AX-824-CB
¼″ CHALKBOARD
BB-831-F CHALKTROUGH
FOR SURFACE APPLIED ¼″ CHALKBOARDS

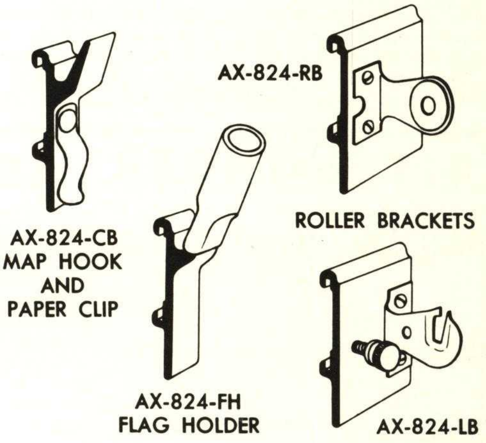
Beautiful in appearance, easy to apply, simple to maintain.

THE LOXIT VICTORY Screw-On Trim is the answer to the applied after trim problem for ease, speed in erection, neat appearance, permanent finish and simple maintenance, at a cost that will meet an average budget.

BB-824 AE as extruded
(also Available Anodized)


MAP RAIL
with Accessories

This popular map and cork strip can be used on old or new jobs. It is easy to install and is very attractive. This is one of the most versatile map rails on the market.


AX-824-RB
ROLLER BRACKETS
AX-824-CB MAP HOOK AND PAPER CLIP
AX-824-FH FLAG HOLDER
AX-824-LB

TYPICAL LOXIT SHORT SCREW-ON TRIM SPECIFICATION

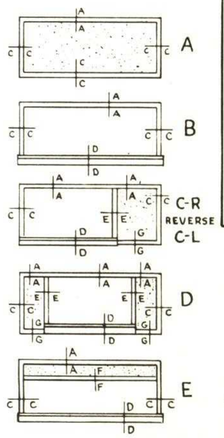
SCOPE AND MATERIAL—Furnish and install all chalkboard and tackboard trim as required by plans and specifications using LOXIT VICTORY SCREW-ON trim as detailed and specified in manufacturers 1958 chalkboard catalog or approved equal. Same shall include map rails, either as intermediate rails or as head trim as required. Furnish one combination map hook and paper clip for each 24″ of map rail; one flag holder and one pair of roller brackets for each span of map rail. Same shall be of virgin 6063-T5 aluminum alloy anodized in the Loxit never tarnish GLO-DULL finish. Materials shall be furnished in stock lengths to be cut, mitered and fitted on the job as required.

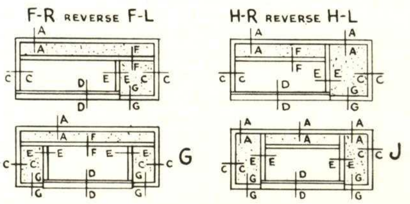
SHOP DRAWINGS—Contractor shall furnish shop drawings to be provided by LOXIT SYSTEMS, INC. for architect's approval before starting job. He shall furnish manufacturer with complete information including overall job dimensions and such drawings, specifications and details as may be required by manufacturer in order to provide adequate shop drawings. All work shall be done strictly in accordance with manufacturers shop drawings and/or directions.

PROTECTION—The contractor shall be responsible for protection when, as, and if required.

SCHEDULE OF TRIM SELECTION

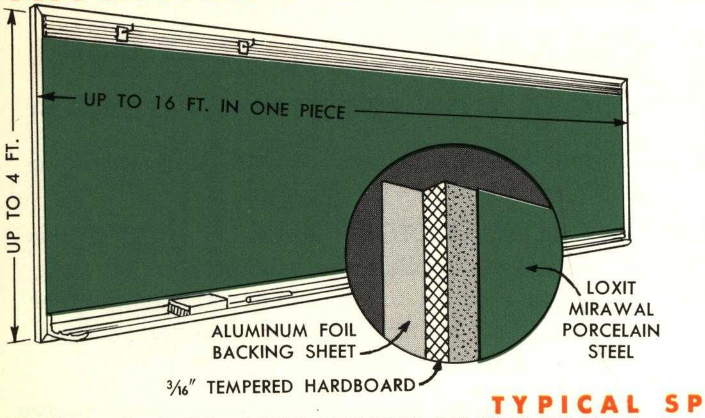
RECESSED TYPE INSTALLATION		SURFACE APPLIED TYPE INSTALLATION	
SECTION	TRIM NO.	SECTION	TRIM NO.
A-A	BB-805C, BB-820, BB-822	A-A	BB-808 OR BB823
C-C	BB-805 C	C-C	BB-808
D-D	BB-832, BB-838	D-D	BB-832, BB-838 (used with Grounds BB-805CG)
E-E	BB-805 C	E-E	BB-805 C
F-F	BB-820 OR BB-822	F-F	BB-820 OR BB-822
G-G	BB-805C, BB-832 BB-838	G-G	BB-808, BB-832, BB-838


A
B
C-R REVERSE C-L
D
E


F-R REVERSE F-L
H-R REVERSE H-L
G
J

ANOTHER NEW LOXIT PORCELAIN STEEL CHALKBOARD

LOX-88 NU-SIMPLON


UP TO 16 FT. IN ONE PIECE
UP TO 4 FT.
ALUMINUM FOIL BACKING SHEET
LOXIT MIRAWAL PORCELAIN STEEL
3/16" TEMPERED HARDBOARD

This Loxit Mirawal Porcelain Steel Chalkboard is available in standard heights and up to 16′ long—and a full 3/16″ thick. It is available in the eight Loxit colors. (See page 4).

It can be pre-trimmed with a simple edging or applied direct to the wall to be trimmed after installation.

The same LOXIT MIRAWAL PORCELAIN STEEL sheet that is now used in its NU-VICTORY and NU-IMPERIAL boards is laminated to a 3/16″ tempered hard board which has been sealed against wall moisture with an aluminum foil vapor barrier backing sheet. The total thickness is 3/16″ plus.

This is a top quality PORCELAIN STEEL CHALKBOARD in a thrift price bracket. It writes beautifully, erases easily and can be washed as often as desired. It is easy to install and simple to maintain. LOXIT guarantees its new LOX-88 NU-SIMPLON Porcelain Steel Chalkboard as it does all of its products, in accordance with its high quality standards of doing business.

TYPICAL SPECIFICATIONS

Chalkboards shall be LOXIT LOX-RS-88 NU-SIMPLON Rite Spring Green Porcelain Chalkboard ***(or specify color and symbol RD, RG etc. as shown on page 4)*** as manufactured by Loxit Systems, Inc., 1217 W. Washington Blvd., Chicago 7, Illinois, or approved equal.

Porcelain Steel Chalkboard facings shall be high pressure laminated to 3/16″ tempered hardboard core panels which shall be back-sealed against moisture absorption with a vapor barrier composed of a sheet of aluminum foil laminated under high pressure.

The chalkboard facings shall be processed in strict accordance with the recognized procedures of the PORCELAIN ENAMEL INSTITUTE for Architecturally Fired Porcelain.

The base metal shall be enameling steel fully covered on both faces with a porcelain enamel ground coat and fired at temperatures sufficient to completely fuse the ground coat to the base metal. Base metal having aluminum or other processed firing agents will not be acceptable. A writing surface of porcelain shall be applied over the ground coat, as a separate operation, in a thickness consistent with the standards recognized by the P. E. I., and shall be fired at a closely controlled temperature not less than 1550° F. The writing surface shall have a reflectance not greater than 20% nor less than 15% as recommended by the American Standard for School Lighting—and a hardness of not less than 6.5 when tested by Scale of Hardness of Minerals.

All chalkboard panels shall be in one piece up to 4 feet in height and 16 feet in length, and in two panels of equal length for spans up to 32 feet inclusive. Where the total length of chalkboard exceeds 16′—and the boards are not pre-trimmed—they shall be neatly spliced with a Loxit metal divider strip furnished to match the board.

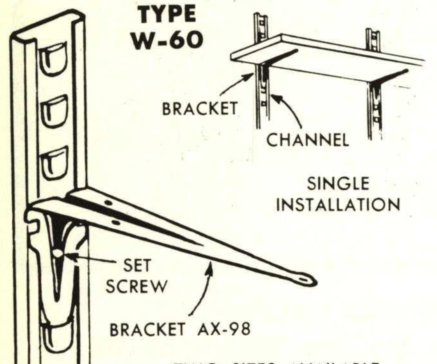
NOTE TO ARCHITECT: If boards are to be pre-trimmed specify— "All chalkboards shall be factory pre-trimmed with LOXIT GLO-DULL chalkboard edging. Furnish and install LOXIT BB-830 chalktrough and LOXIT BB-824 map rail with one map hook per 18″ of map rail, one pair of roller brackets and one flag holder per chalkboard unit."

If boards are to be trimmed after installation, specify — "All boards after installation shall be trimmed with LOXIT VICTORY SCREW-ON aluminum chalkboard trim. Furnish one map hook per 18″ of map rail, one pair of roller brackets and one flag holder per chalkboard unit."

All boards shall be installed strictly in accordance with manufacturer's shop drawings and/or directions, using LOXIT M-300 super chalkboard adhesive. ***(Specify back-plastering or other backing to build up a thickness of greater than 3/16″ if required).***

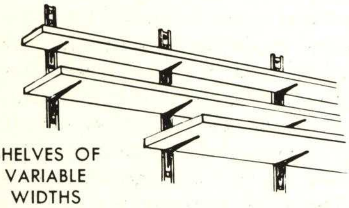
LOXIT WONDER* ADJUSTABLE SHELVING SYSTEM

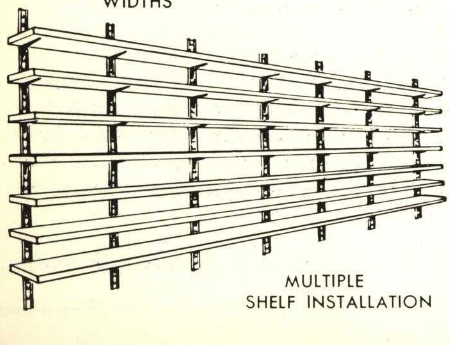
TYPE W-60



TWO SIZES AVAILABLE

3½″ for shelving up to 5″
7½″ for shelving up to 10″


SHELVES OF VARIABLE WIDTHS


MULTIPLE SHELF INSTALLATION

Loxit Wonder Adjustable Shelving System Type W-60 can be used separately or in combination with the Loxit Miracle Chalkboard Adjustable System by setting the narrow shelf above the board for various types of small displays, models, flowers, etc. and the wider shelf under the board for books and articles normally used in the class room. Very handy for one or a few short shelves hung on the wall almost anywhere and at any height—or for a stand of shelves as shown.

The new Loxit WONDER Shelving System is adjustable in every dimension. Shelf heights, shelf spacing, number of shelves, length of assemblies. Brackets are cadmium plated to match the Loxit Glo-Dull trim used on chalkboards and tackboards.

The brackets interlock in standards and when locked cannot be moved without unlocking.

Both types W-60 and W-70 are thrifty, neat, simple, practical and safe. They provide adjustable shelf assemblies that any carpenter or maintenance man can put up, adjust or move in a few minutes.

TYPICAL SHORT LOXIT SHELVING SPECIFICATION

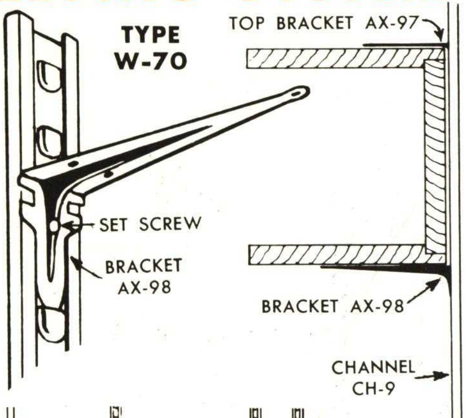
TYPE W-60—Adjustable shelves shall be furnished as shown on drawings and/or called for in specifications using the Loxit Wonder adjustable shelving system Type W-60 as manufactured by Loxit Systems, Inc., 1217 W. Washington Blvd., Chicago 7, Illinois. Shelving shall be furnished by others. They shall be installed strictly in accordance with manufacturer's shop drawings and/or directions.

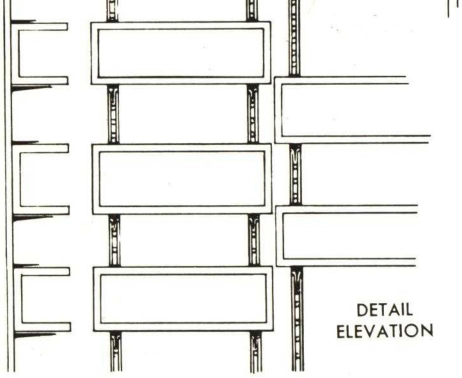
TYPE W-70—Loxit "Wonder" Adjustable Box Shelving System Type W-70 is a box type set up with almost unlimited possibilities in design and scope, and use of color and materials.

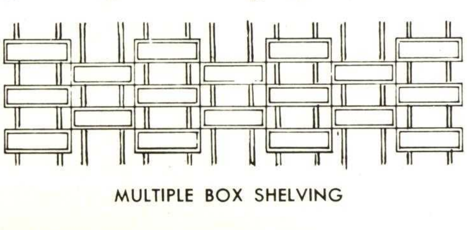
Note to Architect: If type W-70 is preferred simply substitute the type designated W-70 for W-60 in above specifications.

Detail sheets suitable for tracing available upon request without obligation, also sample models of standards and brackets.

TYPE W-70

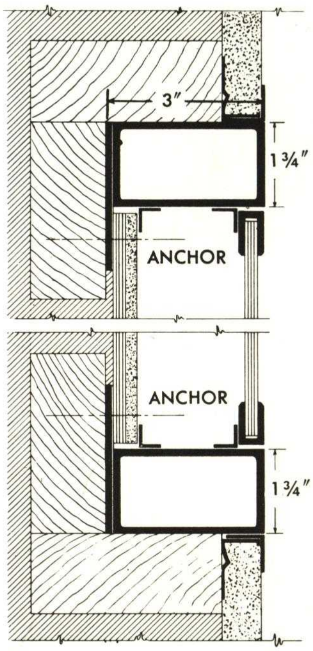


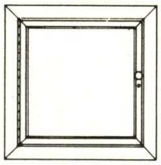

DETAIL ELEVATION


MULTIPLE BOX SHELVING

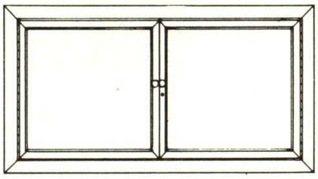
LOXIT *VICTORY* BULLETIN BOARDS

RECESSED IN WALL

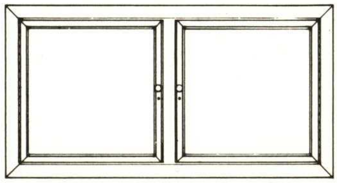

3"
1 3/4"
ANCHOR
ANCHOR
1 3/4"



TYPE BX-1-H SINGLE DOOR

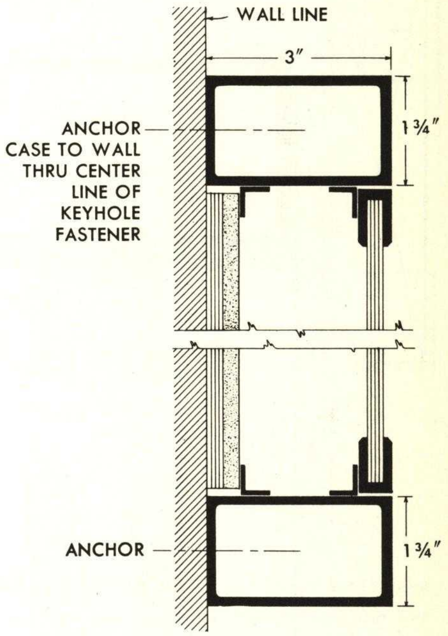


TYPE BX-2-H DOUBLE DOOR



TYPE BX-3-H DOUBLE DOOR W/MULLION
TYPE BX-4-H FOUR DOORS W/MULLION

SURFACE APPLIED


WALL LINE
3"
ANCHOR CASE TO WALL THRU CENTER LINE OF KEYHOLE FASTENER
1 3/4"
ANCHOR
1 3/4"

TYPICAL SPECIFICATIONS

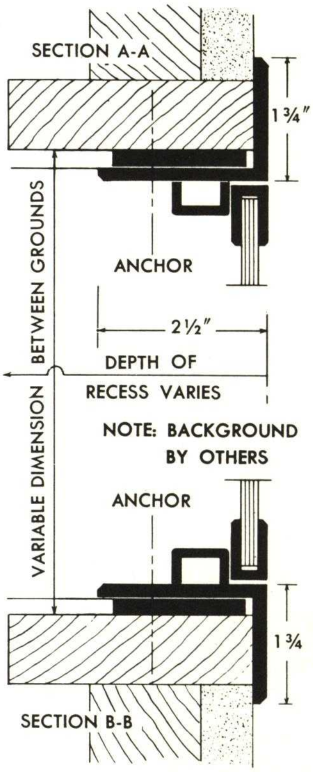
Furnish and install LOXIT (or approved equal) VICTORY Model Bulletin Boards Type______ ***(specify type here)*** in sizes as shown in plans. All metal used in cases to be virgin 63-S extruded aluminum alloy fully anodized in accordance with LOXIT GLO-DULL process. Background of cases to be LOXIKORK ***(specify type cork here)***.

STANDARD SIZES

Hinged swing glass doors
TYPE BX-1-H Single Door: 18" x 24", 20" x 30", 24" x 36", 36" x 48".
TYPE BX-2-H Double Door: 60" x 42", 60" x 48".
BX-2-S available with sliding doors
TYPE BX-3-H Double Door w/mullion: 72" x 48"
TYPE BX-4-H Four Doors w/mullion: 120" x 48"
Note: Special sizes to order. All sizes mentioned O. D.

LOXIT *VICTORY* VARIABLE DEPTH TROPHY AND DISPLAY CASES

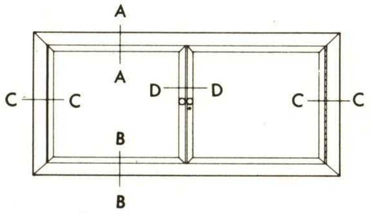
TYPE TX-9-H
HINGED DOORS

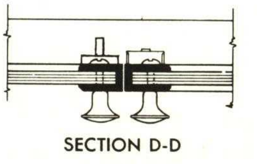

SECTION A-A
1 3/4"
ANCHOR
BETWEEN GROUNDS
2 1/2"
DEPTH OF RECESS VARIES
VARIABLE DIMENSION
NOTE: BACKGROUND BY OTHERS
ANCHOR
1 3/4
SECTION B-B

Hinged or Sliding Glass Doors

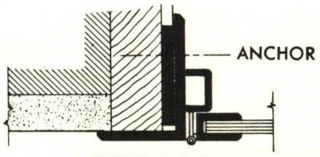
Furnish and install LOXIT VICTORY Model (or approved equal) aluminum deep recess Trophy Case Type ______ ***(specify type TX-9-H or TX-9-S)*** as manufactured by LOXIT SYSTEMS INC. 1217 West Washington Blvd., Chicago. All aluminum sections to be virgin 63-S extruded aluminum alloy fully anodized in accordance with LOXIT GLO-DULL process. Same shall be to dimensions as shown in plans and in accordance with manufacturers shop drawing as approved by architect.

NOTE TO ARCHITECT: Although all material can be furnished by LOXIT it is suggested that such items as Glass Shelves, Adjustable Standards and Electrical Fixtures be placed in the Glazing, Hardware and Electrical Specifications.

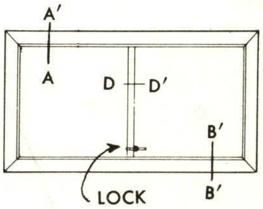

A
A
C
C
D
D
C
C
B
B

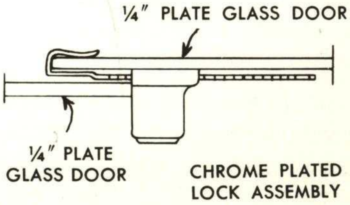


SECTION D-D



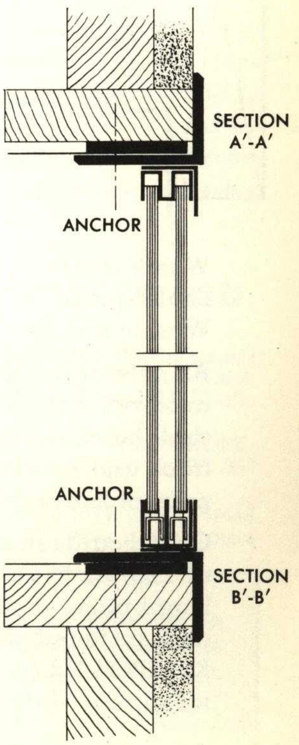
SECTION C-C


A'
A
D
D'
B'
B'
LOCK

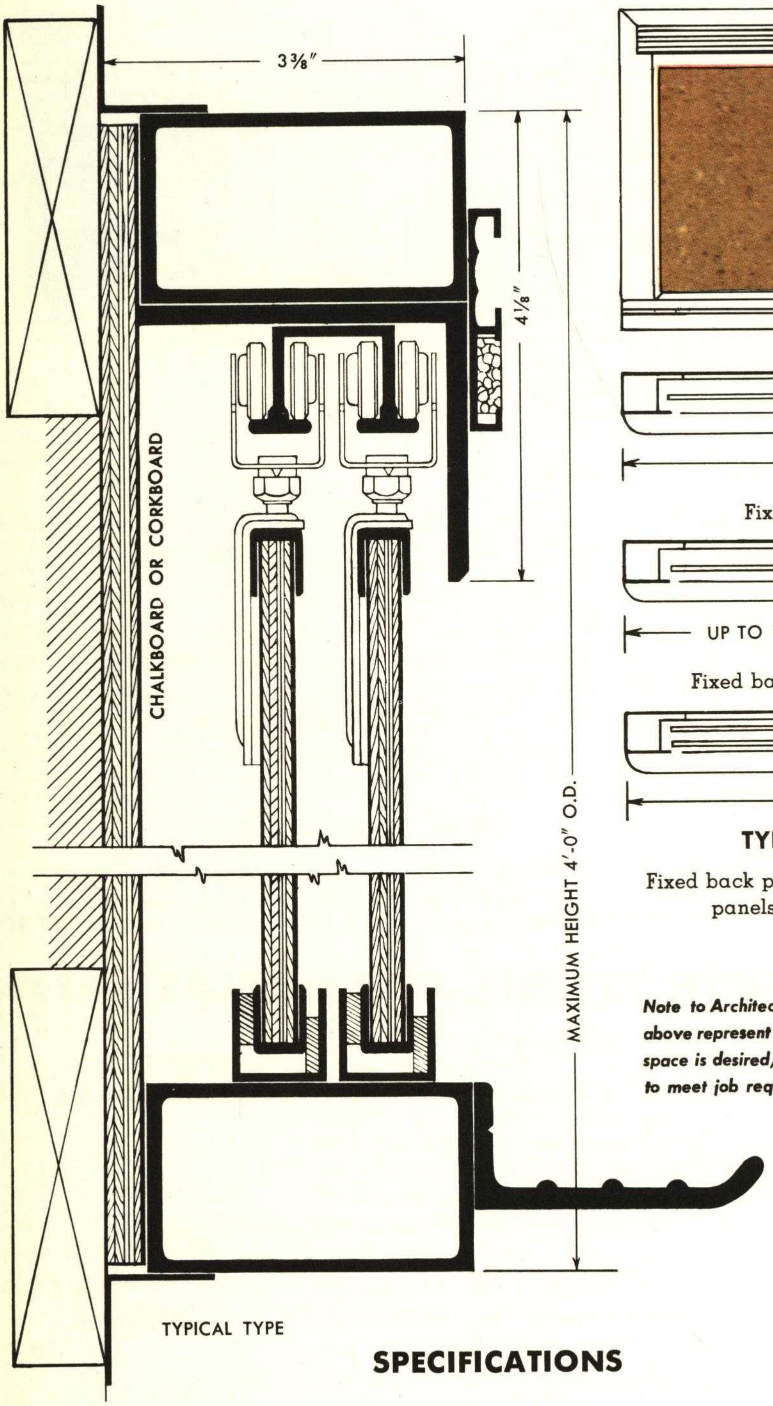

1/4" PLATE GLASS DOOR
1/4" PLATE GLASS DOOR
CHROME PLATED LOCK ASSEMBLY

SECTION D'-D'

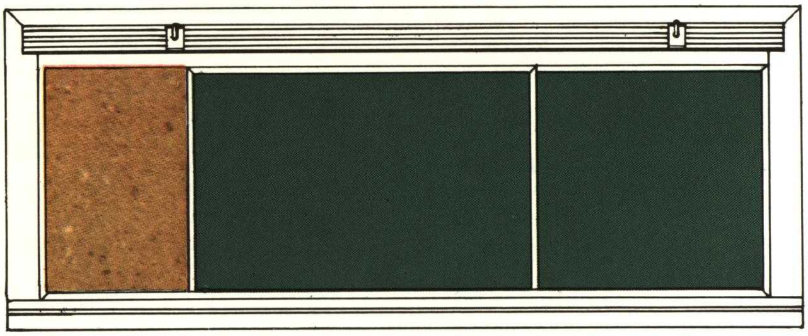
TYPE TX-9-S
SLIDING DOORS


SECTION A'-A'
ANCHOR
ANCHOR
SECTION B'-B'

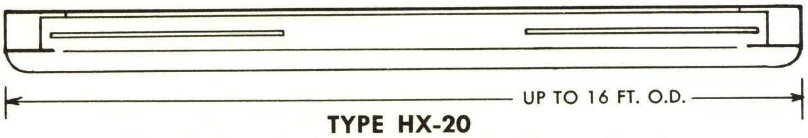
LOXIT *VICTORY* HORIZONTAL SLIDING CHALKBOARDS



TYPICAL TYPE

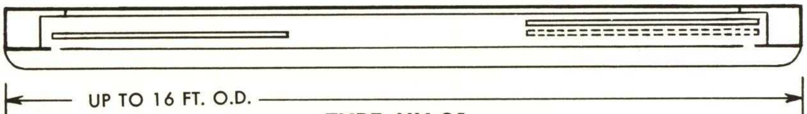


TYPICAL ELEVATION



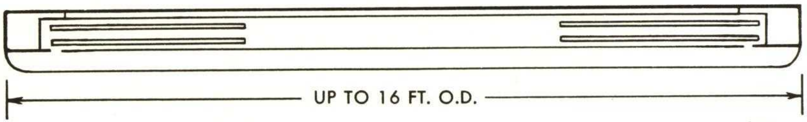
TYPE HX-20

Fixed back panel with two sliding panels on one track.



TYPE HX-21

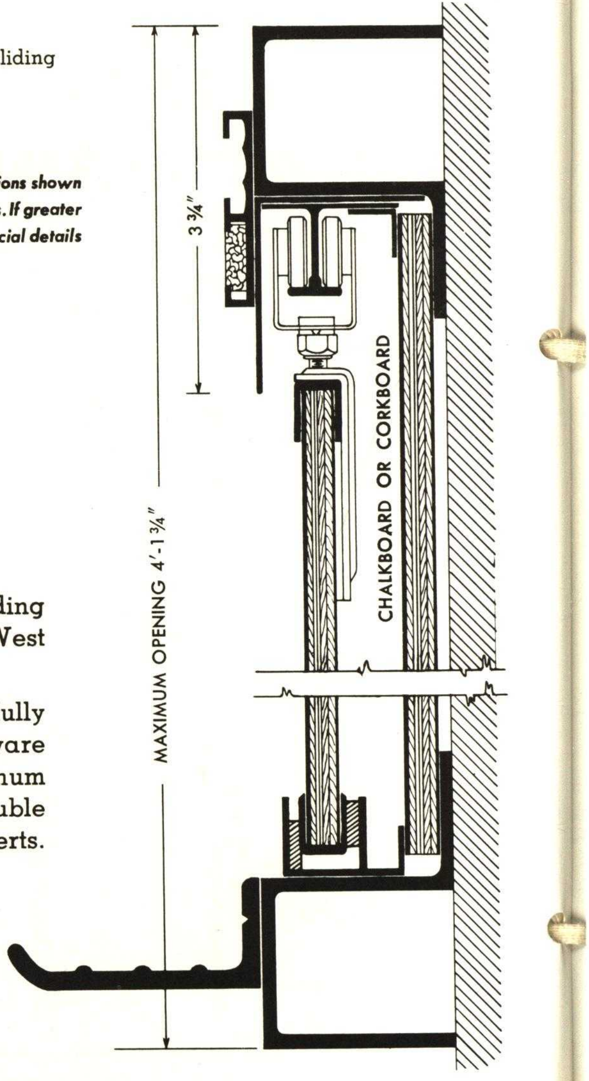
Fixed back panel with two sliding panels each on separate track.



TYPE HX-22

Fixed back panel with four sliding panels on two tracks.

Note to Architect: 16' O. D. dimensions shown above represent standard assemblies. If greater space is desired, we will furnish special details to meet job requirements.



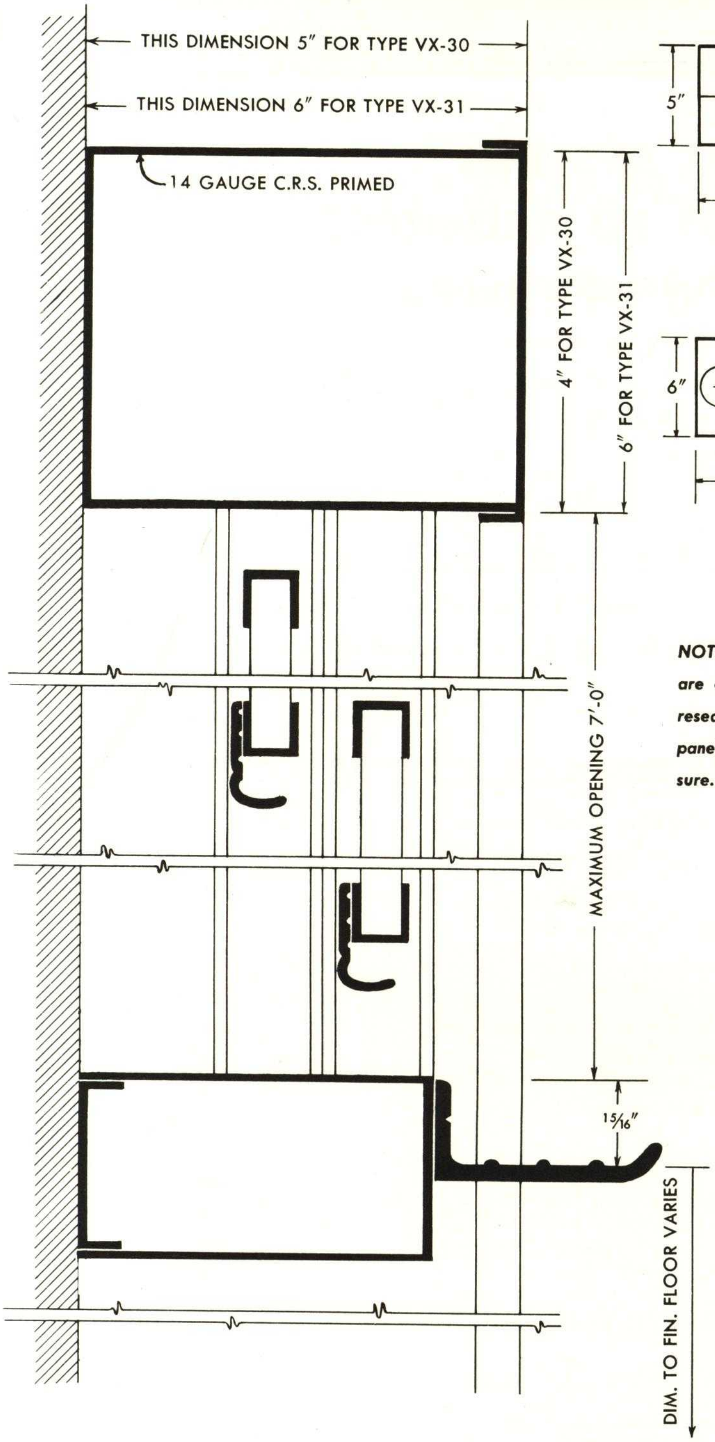
SPECIFICATIONS

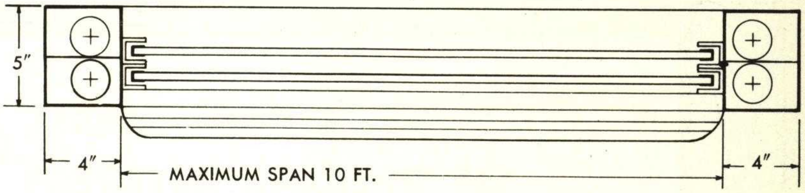
Where shown on plans furnish and install LOXIT Victory horizontal sliding chalkboards as manufactured by LOXIT SYSTEMS INC., 1217 West Washington Blvd., Chicago 7, Illinois, or approved equal.

All outer framing to be virgin 63-S extruded aluminum, heat treated, fully anodized in accordance with LOXIT GLO-DULL process. Sliding hardware shall be of overhead design consisting of heat treated extruded aluminum track and matching formed steel bracket carriages equipped with double pairs of heavy duty nylon rollers with self lubricating ball bearing inserts.

Chalkboards shall be of balanced panel design triple-ply laminated at 125 psi. to insure minimum panel deflection. Each sliding chalkboard panel shall be furnished in one piece free of joints and splices and surfaced with LOXIT RITE GREEN (or DARKRITE GREEN) KOMPO-LUX (or PORCELOX) finish. Manufacturer shall submit detailed shop drawings for Architects approval.

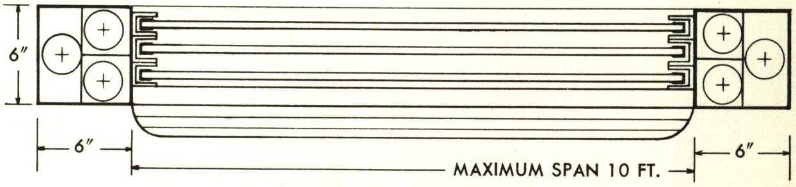
LOXIT *VICTORY* VERTICAL SLIDING CHALKBOARDS


THIS DIMENSION 5″ FOR TYPE VX-30
THIS DIMENSION 6″ FOR TYPE VX-31
14 GAUGE C.R.S. PRIMED
4″ FOR TYPE VX-30
6″ FOR TYPE VX-31
MAXIMUM OPENING 7′-0″
1 5/16″
DIM. TO FIN. FLOOR VARIES



TYPE VX-30

With Two Vertical Sliding Panels. Fixed Panel Background Optional.



TYPE VX-31

With Three Vertical Sliding Panels

***NOTE TO THE ARCHITECT:** The free-sliding chalkboard panels in LOXIT'S vertical assemblies are engineered to meet the exact span and load requirements of each specified unit. Our research has provided us with panel construction designs which offer an absolute minimum of panel deflection through the center line of the board when subjected to direct horizontal pressure. LOXIT free-sliding chalkboards will not warp.*

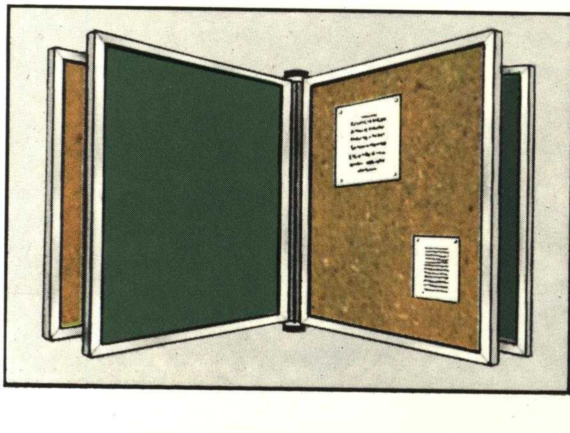
SPECIFICATIONS

Where shown on plans furnish and install LOXIT VERTICAL SLIDING CHALKBOARDS Type VX-30 (or VX-31), as manufactured by LOXIT SYSTEMS INC., 1217 West Washington Blvd., Chicago 7, Illinois.

All outer framing to be 14 ga. CRS with baked prime coat. Head assembly shall have machined aluminum pulley blocks equipped with pressed steel, self lubricated, ball bearing sheaves. Jamb track and guide members shall be of heat treated extruded aluminum fully anodized in accordance with LOXIT GLO-DULL process.

Sliding chalkboards to be of balanced panel design, triple-ply laminated at a minimum of 125 psi with thickness engineered to insure minimum panel deflection. Chalkboard surface shall be LOXIT RITE GREEN (or DARKRITE GREEN)—KOMPO-LUX (or PORCELOX) furnished in one piece free of joints and splices. Vertical edges of chalkboard panels shall be equipped with non-friction guides. Manufacturer shall submit detailed shop drawings for Architects approval.

LOXIT *VICTORY* "EASY-TO-SEE-AND-USE" SWING PANEL BULLETIN BOARD



Brackets are heavy semi-circular, beautifully finished fittings in which the panels pivot to a full 180° position. All trim is Loxit *GLO-DULL aluminum finish which stays permanently beautiful. It is designed to match the Loxit TRU-SNAP Chalkboard Trim.

All panels are finished both sides with RITE GREEN Chalkboard or LOXIKORK. Available in standard units of 4, 5, or 6 panels in sizes 36″ x 36″, 36″ x 42″, 36″ x 48″.

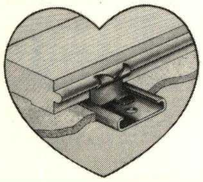
Special sizes and combinations of panel finishes—including RITE GREEN lined or scored boards—available on order.

*Reg. U. S. Pat. Office

LOXIT VICTORY REVERSIBLE EASEL BOARDS are available on order. Blueprints including scale details suitable for tracing and complete Loxit specifications covering same are available to architects on request.

OTHER LOXIT SYSTEMS
OF SPECIAL INTEREST TO ARCHITECTS

Literature, Catalogs and Samples Available



LOXIT FLOOR LAYING SYSTEM

The Loxit wood floor laying system is designed to lay ordinary tongue and groove strip flooring mechanically. It is composed of a channel with turned-in edges and a uniquely designed clip. No nails, no adhesives, no wood sleepers. Limits expansion and compensates for reasonable contraction in wood floors. Especially recommended for large areas, and on concrete slab construction.

TYLALUX
TYLAWOOD
LOXIT
MIRACLE
WALL PANELS

LOXIT MIRACLE PLASTIC PREFINISHED DECORATIVE WALL PANELS

Available in a variety of wood grain and marble finishes. Panels in eight colors in plain, tile and triline patterns. New catalog in full color available on request.

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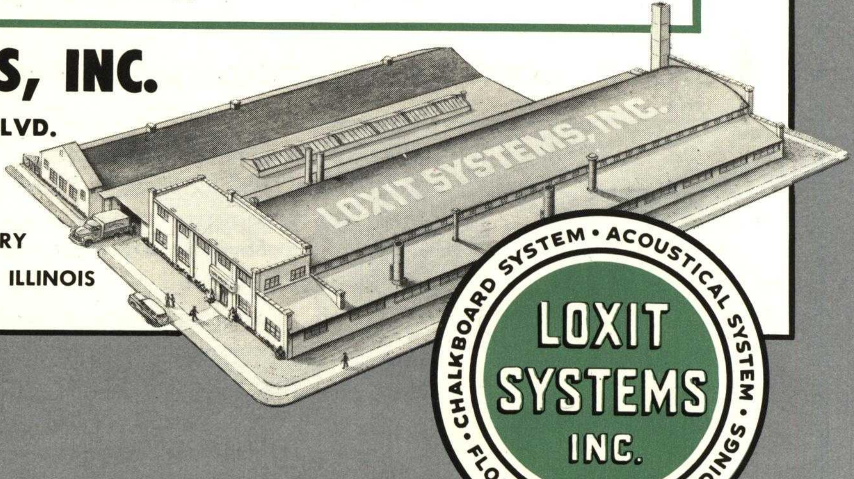
There is No Substitute for Quality
and Prompt, Efficient Service

LOXIT SYSTEMS, INC.

1217 W. WASHINGTON BLVD.
CHICAGO 7, ILLINOIS

FACTORY
MONTICELLO, ILLINOIS


LOXIT SYSTEMS, INC.

CHALKBOARD SYSTEM • ACOUSTICAL SYSTEM • MOULDINGS • FLOOR SYSTEM •
LOXIT
SYSTEMS
INC.

23e
Mi

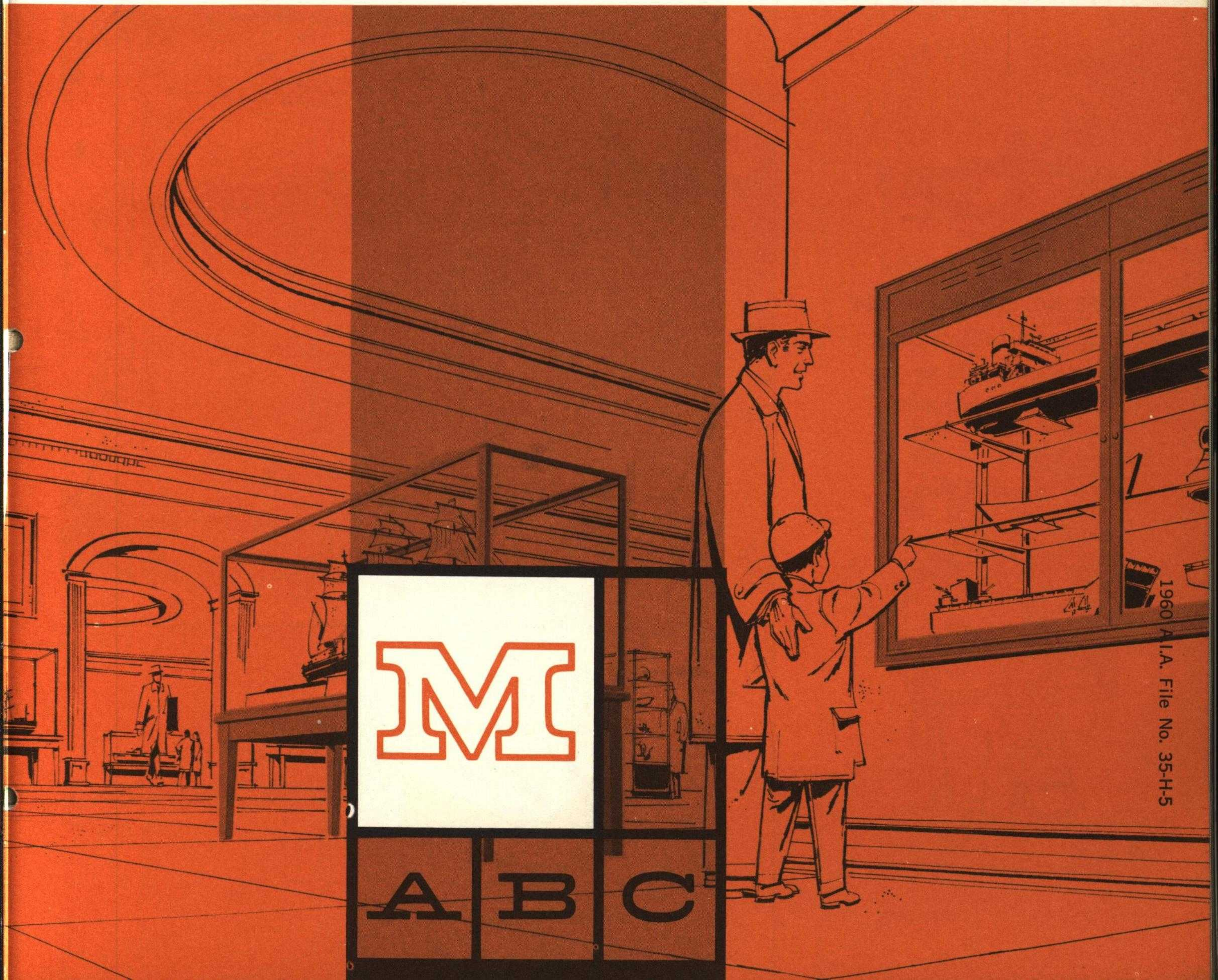
1960 A.I.A. File No. 35-H-5

THE MICHAELS ART BRONZE CO.

EXHIBIT CASES

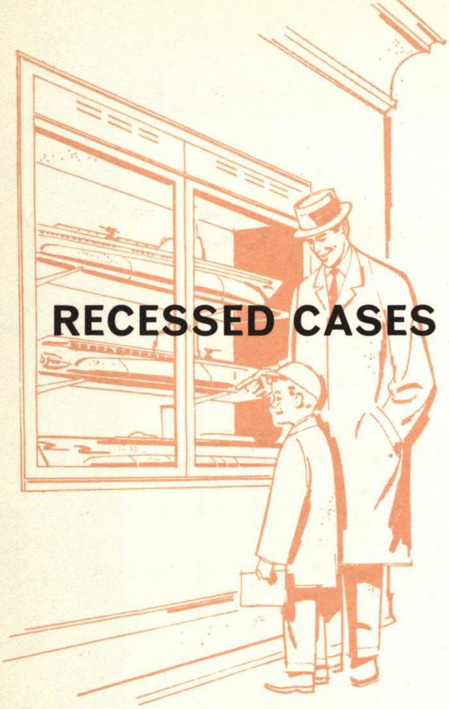
RECESSED CASES • TABLE CASES

AISLE CASES • WALL CASES



1960 A.I.A. File No. 35-H-5

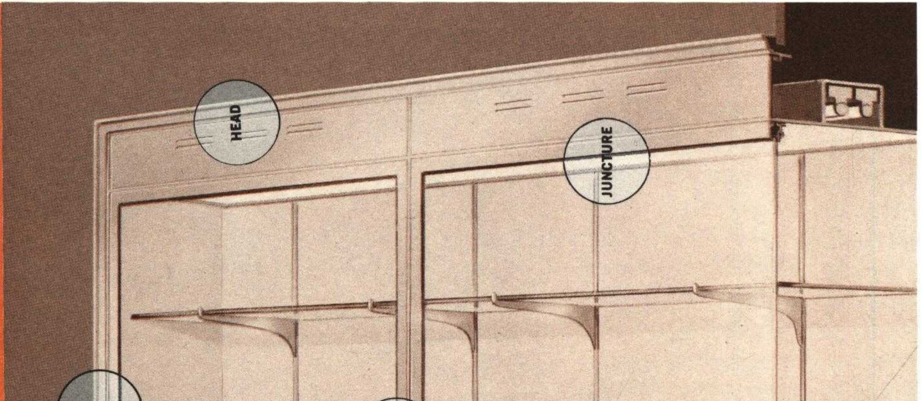
RECESSED CASES



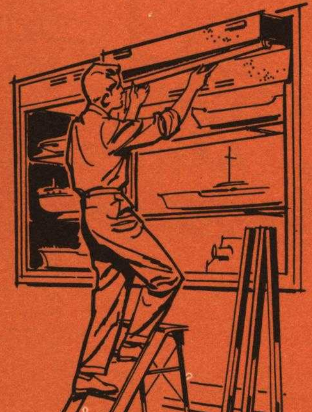
DESCRIPTION: Recessed exhibit cases are available with bronze or aluminum frames. If specified, removable panels may be substituted for standard hinged panels. Interiors may be wood or metal and may accommodate cork (bulletin case) or a grooved (directory cases) backboard. Case dimensions are variable to suit the wall openings or displayed materials. Glass shelving is ¼" plate with polished edges as required. Heavier shelving may be supplied on request. All shelves are supported on corner brackets or arm brackets. An overhead double line fluorescent light reflector is featured in Case #350, adjustable front to back for best lighting effect. Servicing is easy as the lighting unit is extractable through the front hinged access panel. Cases may be used singularly or in continuous runs with mullion dividers and diaphragms.

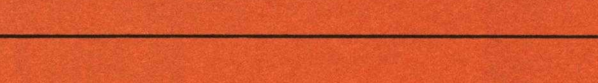
MODELS:

No. 350—Wall Case, adjustable overhead lighting and hinged access panel.
No. 300—Wall Case, fixed overhead lighting serviced from case interior.
No. 360—Bulletin Case, lighting omitted, but available. Cork faced backboard.
No. 370—Directory Case, lighting omitted, but available. Grooved backboard for changeable lettering.
No. 380—Poster Case, fixed overhead lighting and cork faced backboard.



TYPE NO. 350 WALL CASE
Front hinged access panel may be lowered to service adjustable lighting unit.





Double line light reflector is adjustable front to back.

LIGHTING ACCESS DETAIL

SPECIFICATIONS:

1. GENERAL CONDITIONS

a. The General Conditions of the contract for the construction of buildings, standard form of the American Institute of Architects and the Supplementary General Conditions are part of this contract.

2. SCOPE

a. Contract for this portion of the work shall furnish all materials, equipment, services and labor required for the fabrication, delivery and erection of case specified herein except electrical connections.

b. Materials

Frames	Anchors and Fasteners
Glass	Locks
Enclosure	Hardware

c. Shop drawings shall be submitted for this portion of the work for approval by the architect. No work shall be started until the shop drawings have been approved.

3. CASE MANUFACTURER

a. All exhibit cases shall be Type No. ____ as manufactured by the Michaels Art Bronze Co., Inc., as detailed on the contract drawings.

b. Cases of other qualified manufacturers shall be considered only by written approval of the architect prior to the bidding due date.

4. MATERIALS

a. Frame—Extruded aluminum alloy 6063-T5 or extruded architectural bronze alloy.

b. Glass—¼″ polished plate or other as specified.

c. Interiors—special as required for type.

d. Locks—Paracentric locks are standard in locked cases.

e. Hardware—Shelving supports are corner brackets or arm brackets as specified.

5. FINISH

a. Satin finish is standard for both aluminum and bronze. Other special finishes are available on request.

6. ERECTION

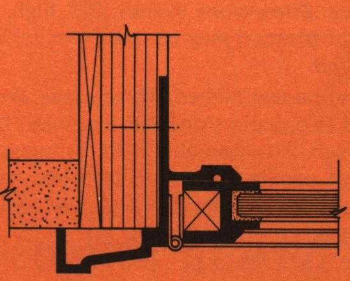
a. Erection shall be performed only by highly skilled mechanics experienced in this type of work, and under the direct supervision of a qualified representative of the case manufacturer.

b. Adjustment of the case shall be performed by the manufacturer after completion of the entire job.

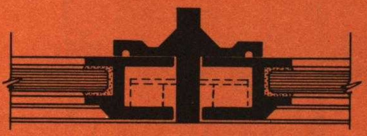
c. Final cleaning and protection of finishes shall be the responsibility of the general contractor, who shall be required to provide suitable protection for the work during and after installation.

STANDARD DETAILS

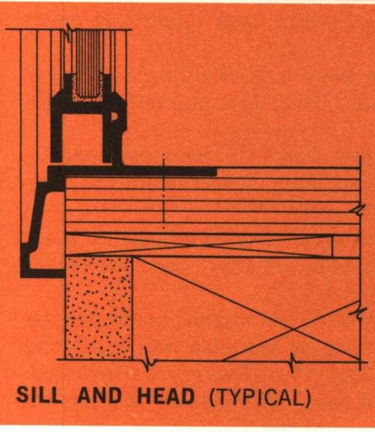
SCALE: HALF SIZE



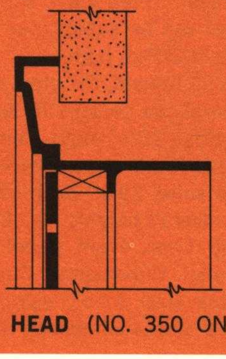
JAMB



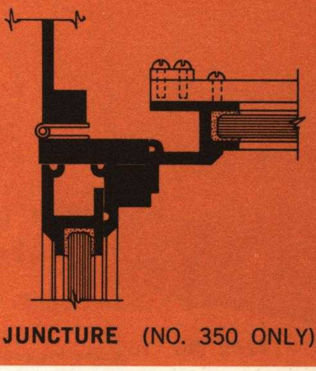
MULLION



SILL AND HEAD (TYPICAL)



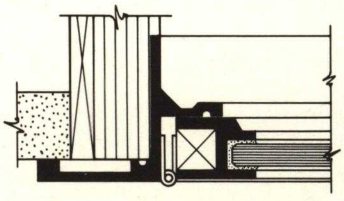
HEAD (NO. 350 ONLY)



JUNCTURE (NO. 350 ONLY)

CONTEMPORARY DETAILS

SCALE: HALF SIZE



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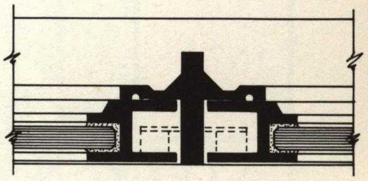
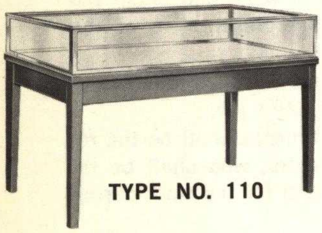


MULLION

TABLE, AISLE AND WALL CASES:

DESCRIPTION: Michaels' exhibit cases are tastefully designed to blend with the quiet dignity of monumental building types. They have been used successfully in museums, art galleries, libraries, universities, clubs, banks, or governmental buildings. All Michaels' exhibit cases have interlocking metal frames built to guard against the ingress of dust, vermin and moisture. Cases can be completely dismantled and reassembled by ordinary mechanics.



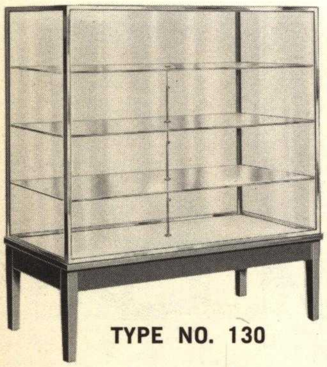
TYPE NO. 110

TABLE CASES:

No. 110 – Top lid hinged, having two point lock and lid supports. Dimensions overall: 36″ high, 60″ wide, 28″ deep. Base 29½″ high. Also available with apronless table.

No. 111 – Dimensions same as Type No. 110, except base is 26½″ high. Also available with apronless table.

No. 120 – Top sloped lids hinged, having two point lock and lid supports. Dimensions overall: 39″ high at center, 36″ high at side, 60″ long, 47½″ deep. Base 29½″high. Also available with apronless table.



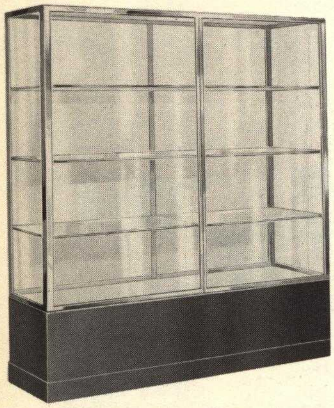
TYPE NO. 130

AISLE CASES:

No. 150 – Two hinged panels on each side. Six glass shelves adjustable every inch, supported by arm brackets on center standards. If preferred, removable panels can be substituted for hinged panels. Dimensions overall: 78″ high, 79⅝″ wide, 32″ deep. Base 20½″ high. Interior diaphragms of plywood may be used. Similar cases composed of any number of panel sections can be supplied.

No. 160 – End panels hinged. Three glass shelves adjustable every inch, supported on corner brackets and telescopic standards at center. Dimensions overall: 66″ high, 60″ wide, 24″ deep. Base 18½″ high. Also available with apronless table.

No. 170 – End panels hinged. If preferred, removable panels can be substituted for hinged panels. Dimensions overall: 74″ high, 68″ wide, 34″ deep. Base 32½″ high. Also available with apronless table.



TYPE NO. 160

WALL CASES:

No. 130 – Front panels hinged. Six glass shelves adjustable every inch. Solid back panels. If preferred, removable panels can be substituted for hinged panels. Dimensions overall: 78″ high, 83⅝″ wide, 15¾″ deep. Base 20½″ high. Similar cases composed of any number of panel sections can be supplied.

No. 140 – Front panel hinged. Three glass shelves adjustable every inch. Solid back panel. If preferred, removable panel can be substituted for hinged panel. Dimensions overall: 78″ high, 42″ wide, 15¾″ deep. Base 20½″ high.

No. 180 – Front center panel hinged. Six glass shelves adjustable every inch. Solid back panels. If preferred, removable panel can be substituted for hinged panel. Dimensions overall: 78″ high, 69¼″ wide, 15¾″ deep. Base 20½″ high. Center section 37⅝″ wide.

No. 190 – Corner wall case. Front center panel hinged. Three glass shelves adjustable every inch. Two back panels are solid, 29⅝″ deep overall. Two end panels are 16⅛″ deep and center face panel is 18¾″ wide. Overall height, 78″. Base height, 20½″.

No. 200 – Suspended Wall Case. Front panel hinged. If preferred, removable panel can be substituted for hinged panel. Dimensions: Should be determined by available wall space and type of exhibits. Suggested size: 37½″ wide, 47½″ high, 13½″ deep. Two glass shelves adjustable every inch. Similar cases composed of any number of panel sections can be supplied.

Complete catalogue on Time-Tight exhibit cases is available on request.

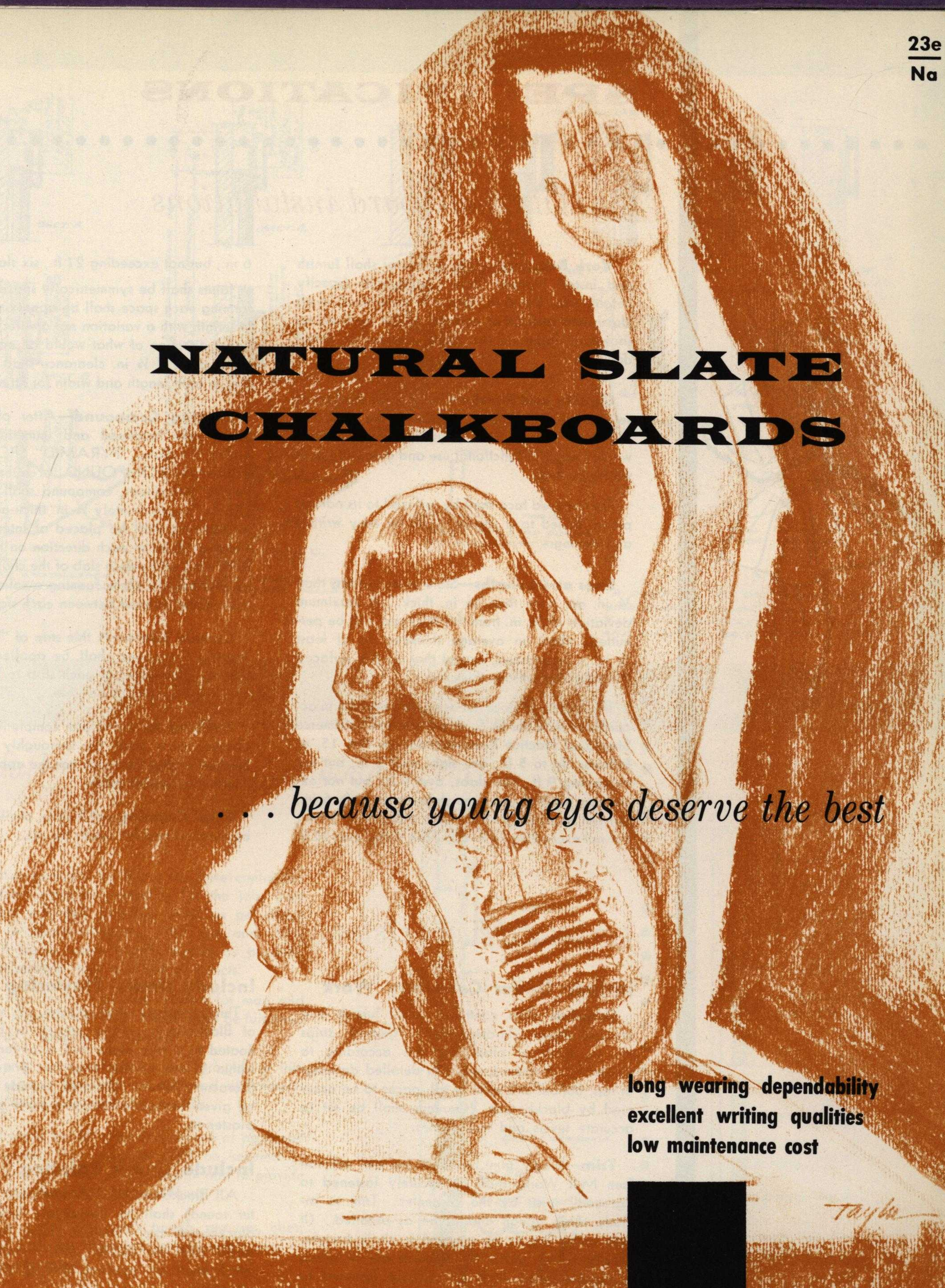
THE MICHAELS ART BRONZE CO., P. O. BOX 668, COVINGTON, KY.

Plant and Office: Kenton Lands Road–Erlanger, Kentucky

MANUFACTURERS OF ARCHITECTURAL METAL PRODUCTS SINCE 1870

Metal Curtain Walls • Windows • Entrance Doors • Custom Store Fronts •

Railings • Ecclesiastical Work • Bank Equipment • Tablets & Signs • Astragals • Exhibit Cases



NATURAL SLATE CHALKBOARDS

. . . because young eyes deserve the best

long wearing dependability
excellent writing qualities
low maintenance cost

natural slate . . . 500 million years in the making

NATURAL SLATE BLACKBOARD CO. *pen argyl, pennsylvania*
MEMBER—PENNSYLVANIA SLATE PRODUCERS GUILD

SPECIFICATIONS

for slate chalkboard installations

Work Required—This contractor shall furnish and install Natural Slate Chalkboards (specify height: 3 ft., 3 ft. 6 in., and 4 ft. stock sizes) in all classrooms and other portions of the building as shown or noted on the plans, sections or detail drawings.

Quality and Finish—Chalkboards shall be of selected natural slate as quarried in the U. S. A., free from ribbons and physical properties that would impair its functional use and durability as a writing surface.

The exposed face shall be surfaced to its natural plane, honed to a smooth finish for easy writing and erasing.

Sizes and Lengths—Slate to be not less than ¼ in. nor more than ⅜ in. thick. A maximum deviation of 1/16 in. from this thickness will be permitted, when an average thickness of at least ¼ in. is maintained, except that double surfaced slate shall be uniform thickness.

The lengths of slabs in each space shall be in accordance with the U. S. Department of Commerce Simplified Practice Recommendations No. 15, as follows: Up to 5 ft., one slab; over 5 ft., but not exceeding 9 ft., two slabs; over 9 ft., but not exceeding 13 ft. 6 in., three slabs; over 13 ft. 6 in., but not exceeding 18 ft., four slabs; over 18 ft., but not exceeding 22 ft. 6 in., five slabs; over 22 ft. 6 in., but not exceeding 27 ft., six slabs.

Joints shall be symmetrically spaced, i.e., slabs forming each space shall be approximately equal in length with a variation not greater than 3 in. in either direction of what would be equal spacing. Allowance of ¼ in. clearance shall be made at trim in both length and width for fitting.

Spotting Compound—After plastered surfaces have hardened and immediately before setting the slate, "PYRAMID" SPOTTING and BEDDING COMPOUND or other approved fibrous, bituminous, compound shall be applied. "Spots" approximately ¼ in. thick and 4 to 6 in. in diameter shall be placed at intervals not exceeding 18 in. in each direction on back of each slab, after which each slab of the chalkboard shall be pressed into place forming a solid continuous, even plane, jointed between each slab.

Cement Joints—A thin strip of "PYRAMID" Jointing Compound shall be applied to the adjoining joint edges of each slab to form as tight and invisible joint as possible.

Rubbing Joints—Upon completion of setting, uneven joints shall be thoroughly honed and finished so that the space has the appearance of a continuous smooth plane.

Final Cleaning—All slate chalkboards shall be cleaned and left ready for use.

correlative provisions

Include Under Carpentry Work

Grounds—This contractor shall furnish and securely fasten kiln-dried wood "ground" strips (¾ in. thick or other thickness according to plastering) in accordance with detailed drawings at top, bottom and ends of all spaces to be occupied by blackboards. Grounds shall be set to accurate levels and true planes.

Trim—Wood trim furnished by the millman (see Mill Work) shall be securely fastened to "ground" strips by the carpenter. Trim to include chalk trough and apron as detailed. (If wire covers are to be installed in chalk troughs, specify here.) After Blackboards are installed, a quarter round shall be securely fastened to surrounding trims and chalk trough, firmly holding slate in place. Carpenter contractor will be responsible for any damage to Blackboards in so doing.

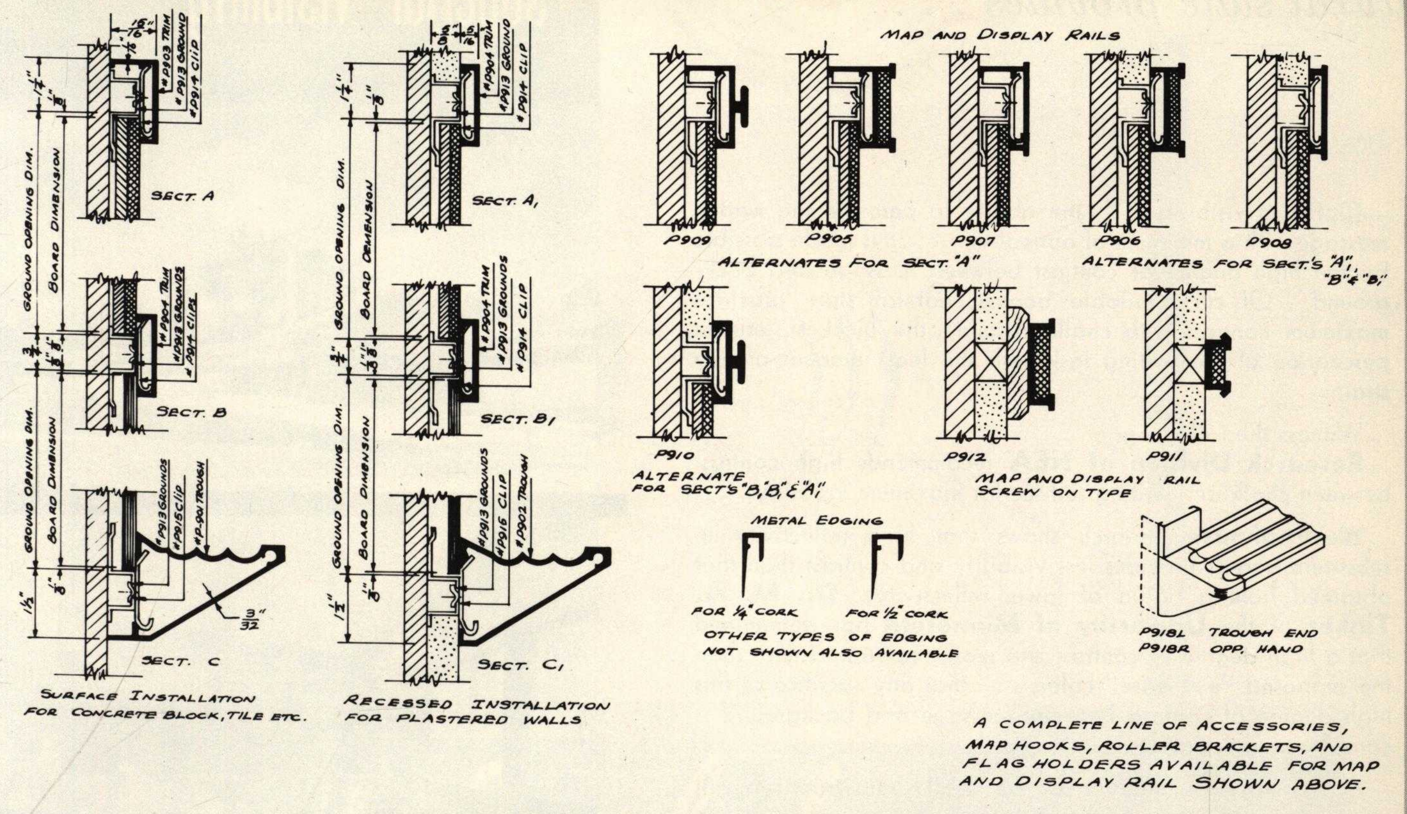
Include Under Plastering Work

This contractor shall plaster all spaces back of Blackboards with a scratch or brown coat, floated to a true plane and in perfect alignment within ¼ in. of the face of ground strips (Carpentry Work). Unfurred outside walls shall be given two coats of damp-proof paint before plastering.

Include Under Painting

All Blackboard trim (except inner loose quarter round) shall be completely finished before Blackboards are installed. Inner loose quarter round shall be finished (all except last coat, which shall be applied after quarter round is attached).

Painting contractor will be responsible for any damage to Blackboards by varnish or other painter's finish.


15/16"
1/16"
#P903 TRIM
#P913 GROUND
#P914 CLIP
1 1/4"
1/8"
SECT. A
GROUND OPENING DIM.
BOARD DIMENSION
3/4"
1"
1/8"
#P904 TRIM
#P913 GROUNDS
#P914 CLIPS
SECT. B
#P913 GROUNDS
#P915 CLIP
#P-901 TROUGH
1 1/2"
3/32"
SECT. C
SURFACE INSTALLATION
FOR CONCRETE BLOCK, TILE ETC.
5/16"
#P904 TRIM
#P913 GROUND
#P914 CLIP
SECT. A1
#P904 TRIM
#P913 GROUNDS
#P914 CLIP
SECT. B1
#P913 GROUNDS
#P916 CLIP
#P902 TROUGH
SECT. C1
RECESSED INSTALLATION
FOR PLASTERED WALLS
MAP AND DISPLAY RAILS
P909
P905
P907
P906
P908
ALTERNATES FOR SECT. "A"
ALTERNATES FOR SECT.'S "A1", "B" & "B1"
P910
ALTERNATE
FOR SECT'S "B, "B1" & "A1"
P912
P911
MAP AND DISPLAY RAIL
SCREW ON TYPE
METAL EDGING
FOR 1/4" CORK
FOR 1/2" CORK
OTHER TYPES OF EDGING
NOT SHOWN ALSO AVAILABLE
P918L TROUGH END
P918R OPP. HAND
A COMPLETE LINE OF ACCESSORIES, MAP HOOKS, ROLLER BRACKETS, AND FLAG HOLDERS AVAILABLE FOR MAP AND DISPLAY RAIL SHOWN ABOVE.

correlative provisions for metal trim

Metal trim furnished by either the slate contractor, or applicable contractor prevailing for the job, shall be aluminum with dull alumilite finish, as per detail illustrated, or approved equal. All trim and chalk trough shall be in single lengths insofar as possible, and shall be straight, true, and free of defects.

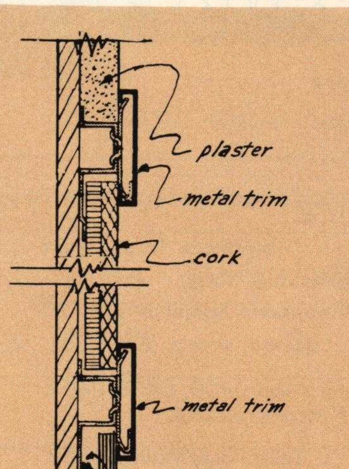
Sliding map hooks and map winders for map and display rail, together with flag holders, shall be furnished as specified. Specify (quantities).

Furnish and erect continuous metal grounds in true alignment, securely fastened by approved attachments for either plastered or unplastered walls.

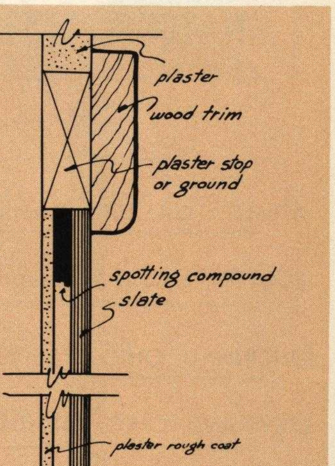
Trim and chalk trough clips and clamps of approved sizes, thicknesses, and spacings shall be secured to grounds in such a manner to receive trim and to provide permanent alignment of chalkboard face.

Samples of metal trim, chalk trough, grounds, clips, and clamps shall be submitted for approval prior to starting the erecting work.

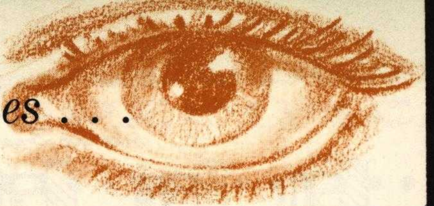
After chalkboards and corkboards have been installed, the chalk trough and metal trim shall be attached to the clips and clamps in an approved workmanlike manner, subject to the approval of the architect.


plaster
metal trim
cork
metal trim
spotting compound
slate
spotting compound
metal chalk trough
plaster

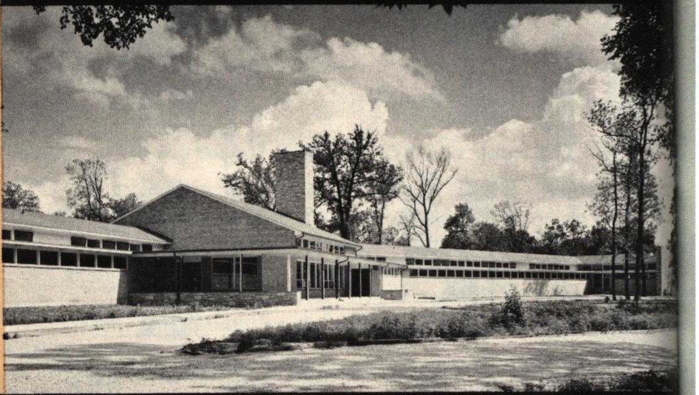
METAL TRIM

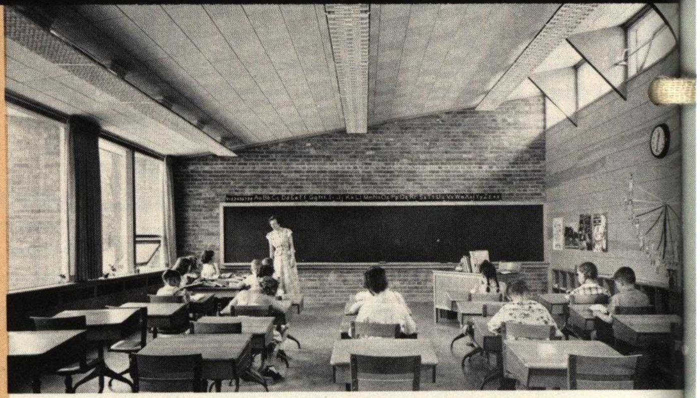

plaster
wood trim
plaster stop or ground
spotting compound
slate
plaster rough coat
slate
spotting compound
wood chalk trough
trim
plaster stop or ground

WOOD TRIM



natural slate provides . . . superior visibility





Optimum visibility . . . the ability to perceive the written message with a minimum of optical effort . . . is made possible by the high degree of contrast between message and background. Of all available boards, natural slate provides maximum contrast with chalk, assuring the quickest, easiest perception of the writing task with the least amount of eye strain.

Witness the following:

Research Division of NEA recommends high contrast between chalk and writing surface for maximum visibility.

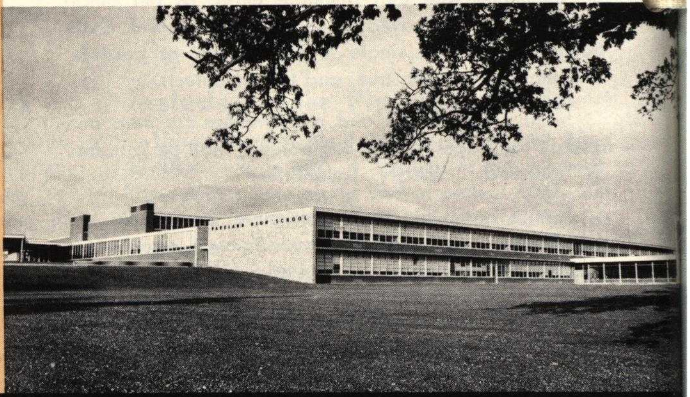
Westinghouse research shows that high reflectivity in substitute boards provides less visibility and contrast than that obtained from a board of lower reflectivity. **Dr. M. A. Tinker** of the **University of Minnesota** has determined that a high degree of contrast is a more important factor than the supposed "eye ease" colors . . . that any sacrifice of this high degree of contrast between message and background is considered undesirable.

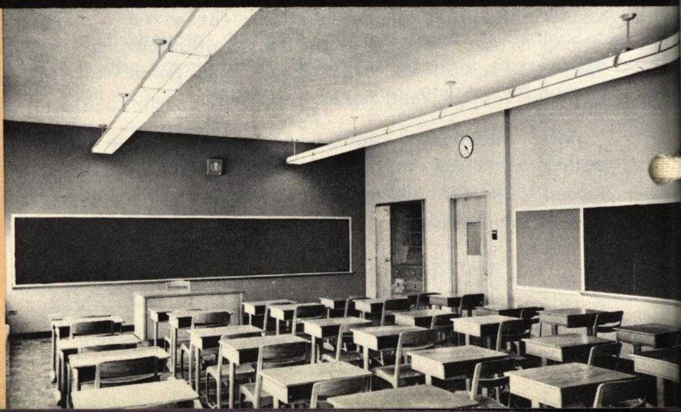
A thorough examination of the chalkboard question will prove Natural Slate to be easiest to see . . . to budget . . . to adapt to color schemes . . . best attention catcher . . . having longest life . . . best writing qualities. An honest appraisal of these facts will show that Natural Slate was, is and will be the classic chalkboard for classrooms past, present and future.

There are reasons which prompted the choice of slate chalkboards in such exemplary schools as are pictured here.

ABOVE: Clyde R. Lyon School, Glenville, Ill.
Perkins & Will, Architects-Engineers, Chicago, Ill.

BELOW: Parkland High School, Orefield, Penna.
H. F. Everett & Assoc., Architects-Engineers, Allentown, Pa.





NATURAL SLATE BLACKBOARD CO.

branch offices

ATLANTA, GA., 1690 Monroe Drive, N. E.
Telephone Trinity 1084

BOSTON, MASS., 43 Prospect St., Somerville, Mass.
Telephone Somerset 6-5720

CINCINNATI, OHIO, 1726 Young St.
Telephone Avon 0400, 0401, 0402

CLEVELAND, OHIO, 741 Hanna Bldg.
Telephone Main 1-5552

LANCASTER, PA., 312 Lime St.
Telephone Express 2-1125

MINNEAPOLIS, MINN., 1121 Dartmouth Ave., S. E.
Telephone Federal 9-2783

NEW YORK, N. Y., 110 E. 42nd St., Room 1806
Telephone Oxford 7-3367

PHILADELPHIA, PA., Yale & Harvard Roads, Swarthmore, Pa.
Telephone Kingswood 3-5700

PITTSBURGH, PA., 901 Standard Life Bldg.
Telephone Court 1-0678

WASHINGTON, D. C., 6123 Chillum Place, N. E.
Telephone Tuckerman 2-2265

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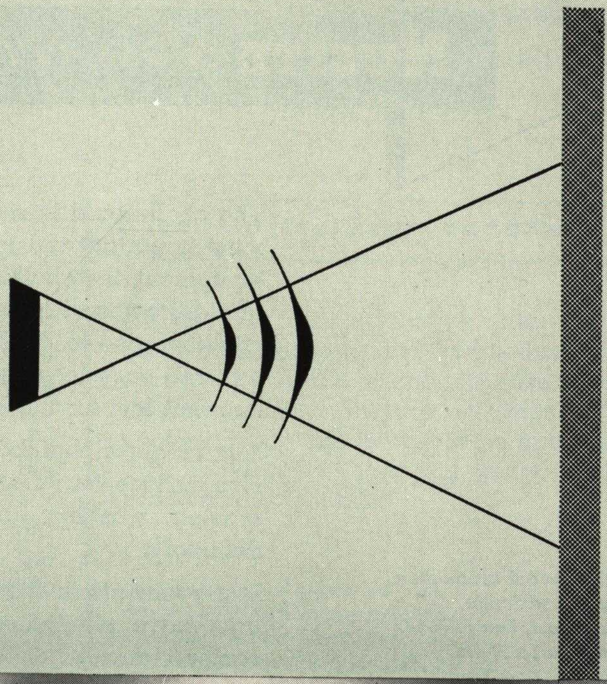


the Green book OF CHALKBOARDS AND CORKBOARDS

- **NUCITE** glass chalkboard 1
- silicate composition chalkboards 2
- other chalkboards 3
- **APEX** cork bulletin board 4
- aluminum framing 5
- glass-door bulletin board 6
- trophy or display case 7
- custom chalkboards, corkboards 8

PARTICIPATING IN SCHOOLROOM PROGRESS, U.S.A.

New York Silicate Book Slate Co., Inc.
quality and integrity since 1865

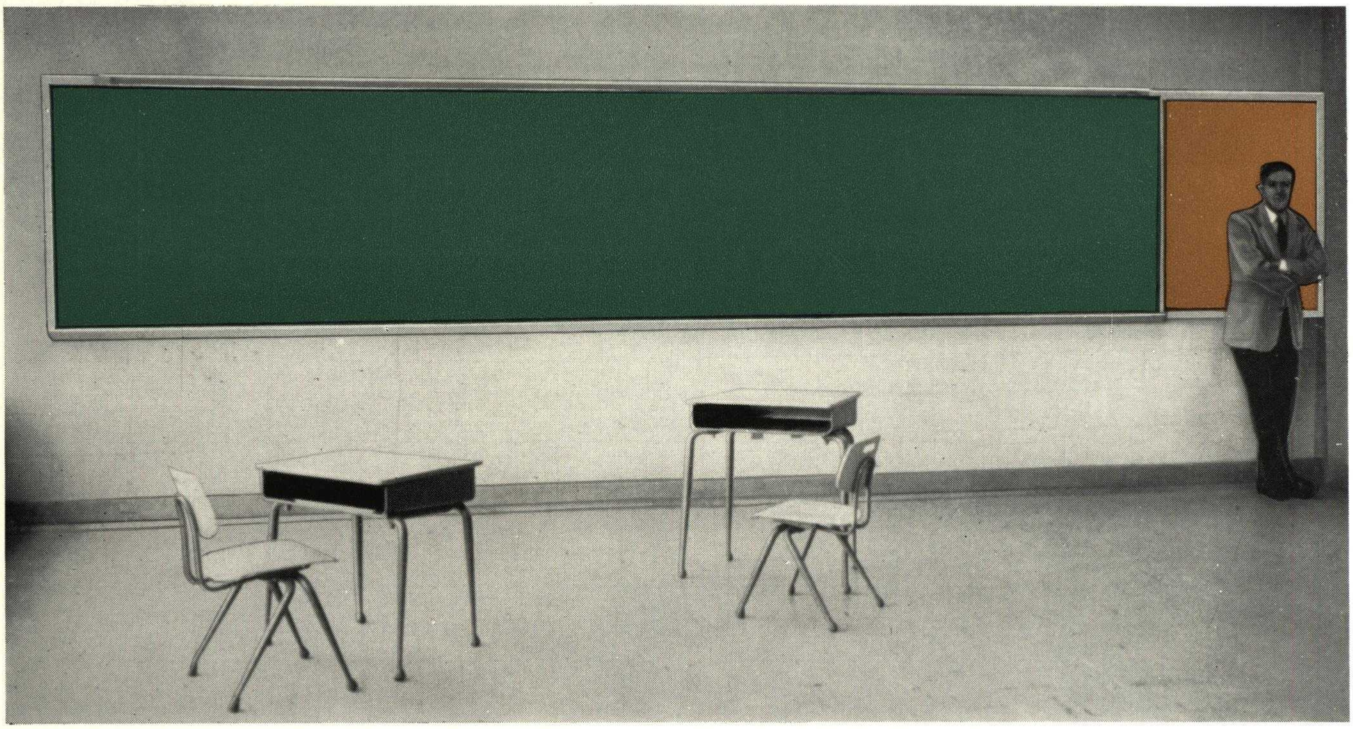
NUCITE® *glass chalkboard*

The chalkboard is recognized as a major teaching tool . . . as the most important aid to quick visual presentation. Of all classroom equipment, the chalkboard is the most heavily used. Consequently, in classrooms of all types, there is today a definite trend to *quality* chalkboards—to chalkboards that retain their writing surface . . . that are easy to erase, to wash . . . that never become slick, shiny . . . that last for the life of the building . . .

NUCITE *glass* chalkboard—because of its permanently fused abrasive surface on its smooth glass base—presents the finest writing, erasing, washing and wearing qualities available. It lasts indefinitely.

Improvements in the manufacturing process made over five years ago, have eliminated the breakage problem and make NUCITE easier to erase.

a recent NUCITE chalkboard installation . . . the new South Junior and Senior High School, Great Neck, Long Island, New York . . . architect: La Pierre, Litchfield and Partners, New York



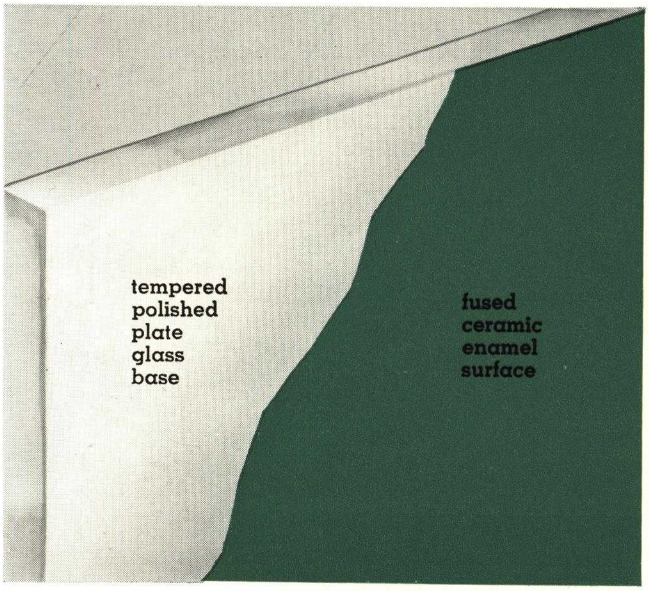
NUCITE glass chalkboard, because of its inherent attributes and its serene colors, is today appreciated by both architects and officials of elementary schools and high schools, of colleges and universities, of hospitals and office buildings. It is, we believe, the largest selling manufactured chalkboard in the United States: 800 installations last year in new schools alone from Florida to Oregon. For the model classrooms aboard the train "Schoolroom Progress USA" now touring the country, NUCITE was selected *exclusively*.

Yet NUCITE chalkboard is priced competitively with those of inferior characteristics.

NUCITE glass chalkboard 1

glass, the unsurpassed base

NUCITE is a *tempered glass* chalkboard—the only tempered glass chalkboard made in the United States. In its manufacture, polished plate glass is sprayed with a colored ceramic enamel (essentially a glass) containing an aluminum oxide abrasive. At 1150 F, this enamel is permanently fused into the surface of the softened glass. Then, under actively controlled temperatures, the glass, with its fused surface of ceramic enamel and abrasive, is given the proper amount of temper—to increase its strength to several times that of ordinary plate glass.


tempered polished plate glass base
fused ceramic enamel surface

NUCITE, under normal classroom usage, is guaranteed for the life of the building—against fading . . . against becoming slick or shiny . . . against ever wearing smooth . . . against warping. It is interesting to note that never has it been necessary to fulfill this guarantee—although there are today approximately 20,000 installations of NUCITE chalkboards in daily use, and some are 20 years old!

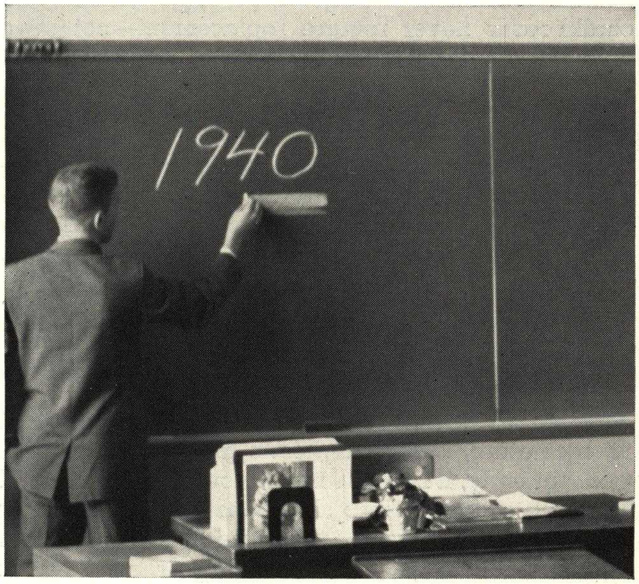
the NUCITE guarantee

The surface of NUCITE is guaranteed to last indefinitely. It is guaranteed for the life of the building against fading out or becoming slick or shiny or becoming warped under normal classroom usage. Should any NUCITE glass chalkboard become broken (outside of willful or accidental damage) within 20 years after installation, it will be replaced free of charge.

year-after-year endurance

All the attributes of NUCITE glass chalkboard—its excellent writing surface, its freedom from fading or shining or wearing smooth, its ease of maintenance, its unusual strength—are not impaired by time or usage. Every advantage is *permanent.* Thus, NUCITE chalkboards, over the years, prove the most economical to install.

an installation 20 years old . . .
North Senior High School addition,
Great Neck, Long Island, New York . . .
architect: Reginald E. Marsh, New York



The unretouched photograph above is a typical illustration of the permanence of NUCITE chalkboard—and Neatsnap aluminum framing. Installed in 1940, these NUCITE chalkboards still look new, modern. Despite 15,000 estimated erasings and frequent washings, they continue to provide an excellent writing surface with strong, sharp contrast. They retain their original color. They do not require resurfacing. On the opposite page is a recent installation in the same school district.

combination of advantages

superior writing surface

The writing surface of NUCITE is incomparable. It is close-grained—yet permits the greatest possible contrast. It "holds" the chalk, never allows it to skip. It cannot wear smooth, slick. It erases and washes easily. Day after day, even under extensive use, it retains its abrasive surface, its high readability.

low maintenance costs

Because NUCITE chalkboard is permanent, because it never becomes slick or shiny with use, it can be washed every day without ill effects. Should it become dirty, it can be scrubbed clean with soap and water. It takes ordinary chalk (the better grades, of course, erase more easily). Most important: NUCITE chalkboards never require replacement—not even refinishing or resurfacing.

strength, resistance to shock

Because NUCITE chalkboard is composed of *tempered* glass, it is inherently strong, tough—and remarkably resistant to shock. Experience in installations in all types of schools shows, conclusively, that NUCITE chalkboards are far more resistant to breakage than slate chalkboards.

non-absorbent, non-warping structure

Because the NUCITE chalkboard is basically glass, it is, by nature, both non-porous and non-absorbent. Consequently, it remains impervious to moisture and odors. It cannot absorb chalk dust. It is practically stain-proof. And NUCITE, because it is glass, offers another advantage: it cannot warp or bend out of shape.

easy, attractive installation

NUCITE chalkboard is readily installed either in conventional wood framing or in economical aluminum framing (full details in section 5). It is available in lengths up to 140 inches. On longer runs, the inconspicuous joint is filled in with a compound of the same color as the chalkboard.

excellent delivery

Due to the resources of the manufacturer, excellent delivery service on NUCITE chalkboards is assured at all times. A large stock is carried at the factory, ready for immediate shipment. To facilitate ordering, New York Silicate Book Slate Co. maintains an extensive network of distributors throughout the country—in fact, the largest in the chalkboard field.

proof of performance

A partial list of colleges and universities in which NUCITE has recently been installed:

Brandeis University
Brown University
College of the City of New York
Cornell University
Duquesne University
Morris Harvey College
Indiana University
Iowa State College
Louisiana State University
North Carolina State College
Ohio State University
Oklahoma State University
Portland State College
Temple University
Texas Christian University
University of Chicago
University of Illinois
University of Maryland
University of Pittsburgh
University of Tennessee
University of Washington
Wisconsin State College

A partial list of public and private schools in which NUCITE has been installed during the past year:

Birmingham Junior-Senior High School, Birmingham, Michigan
Architect: Smith, Tarapata, MacMahan, Inc.

The John Marshall High School, Rochester, Minnesota
Architect: Ellerbe & Co.

E. H. Wadewitz Orthopedic School, Racine, Wisconsin
Architect: Warren S. Holmes Company

Grover Cleveland High School, Buffalo, New York
Architect: Pauly, Hauck and Welch

Erie County Technical Institute, Buffalo, New York
Architect: Duane Lyman and Associates

Church of the Assumption School, Morristown, New Jersey
Architect: Neil J. Convery

Plainedge High School, Plainedge, New York
Architect: Jagow and Heidelberger

Robinwood Elementary School, St. Louis, Missouri
Architect: Charles W. Lorenz

James Madison Jr. High School, Appleton, Wisconsin
Architect: Raymond N. LeVee

Deerfield Terrace School, Linden, New Jersey
Architect: Finne, Finne and Poggi

St. John the Evangelist R. C. School, Buffalo, New York
Architect: Mortimer J. Murphy

Coon Rapids Junior High School, Anoka, Minnesota
Architect: Toltz, King, Duvall, Anderson & Associates

Lincoln Park High School, Lincoln Park, Michigan
Architect: Eberle M. Smith Associates, Inc.

Abraham Clark High School, Roselle, New Jersey
Architect: Ernest T. Brown

Jefferson Jr. High School, Jefferson Twp., Pennsylvania
Architect: Joseph Hoover

Arnold School, Newport, Kentucky
Architect: Edward J. Beiting, Jr.

Affton Elementary School, St. Louis, Missouri
Architect: William B. Ittner, Inc.

Dundalk Sr. High School, Dundalk, Maryland
Architect: Smith and Veale

North Hills Sr. High School, West View, Pennsylvania
Architect: Ingham, Boyd and Pratt

Seton High School, Cincinnati, Ohio
Architect: L. P. Cotter, Maguolo and Quick

Villa Madonna Academy, Covington, Kentucky
Architect: Edward J. Schulte, Elmer H. Schmidt

St. Elizabeth Academy, St. Louis, Missouri
Architect: A. F. & Arthur Stauder

West Jr. High School, Green Bay, Wisconsin
Architect: Foeller, Schober, Berners, Safford & Jahn

West Frederick Jr. Sr. High School, Frederick, Maryland
Architect: Hopkins and Pfeiffer

easy-on-the-eye colors

Nucite glass chalkboard is available in the four serene colors shown below—plus black.

These colors were not selected for their appearance value alone. Other factors were taken into account: amount of light reflection . . . clearness of visual image. These colors provide sufficient contrast to the white chalk image—yet require the least possible visual effort (eye strain).

Green
Gray
Blue
Tan

Green is the most specified color (more than 80% of installations). Gray, due to recent emphasis on color dynamics, is second; it is neutral, harmonizes with any color scheme. Blue and tan are being specified for certain rooms in new schools. Black is almost identical in appearance to first-quality natural stone slate.

Because the colors are permanently fused into the glass base, they never fade. *And all colors are available at the same price.*

specifications, technical data

installation

Nucite glass chalkboard can be installed in most conventional framing systems. "Neatsnap" aluminum framing is particularly recommended. Nucite can also be installed in aluminum framing with wood grounds, wood framing and grounds, or in prefabricated units mounted on Masonite Quartrboard. Consult section 5.

Wood or fibre board blocking should be used between Nucite and the wall as noted below. Butting joints can be made smooth and filled with Seloc joint compound which matches the chalkboard in color.

sizes

minimum: 1.5 by 2 feet
maximum: 6 feet by 11 feet 8 inches
standard: *height*—3½, 4 feet
length—5, 6, 7, 8, 9 feet

weight

unboxed: 3.32 pounds per square foot
boxed: 4.5 pounds per square foot

specifications

All chalkboards shall be Nucite by the New York Silicate Book Slate Co., Inc., and shall be furnished in .... (specify color or colors: green, blue, tan, gray, black).

The chalkboards shall be made of ¼-inch tempered plate glass, onto the surface of which has been fused a colored vitreous material impregnated with an abrasive throughout its entirety. The surface shall resist wear, shall not chip, and shall retain its original color and writing and erasing qualities without fading or becoming glossy or shiny.

Continuous blocking of wood or fibre board shall be placed behind each vertical abutting joint (to keep the sections firm), and also on 2-foot centers half way between top and bottom of each piece. Blocking must not be lighter in color than the Nucite.

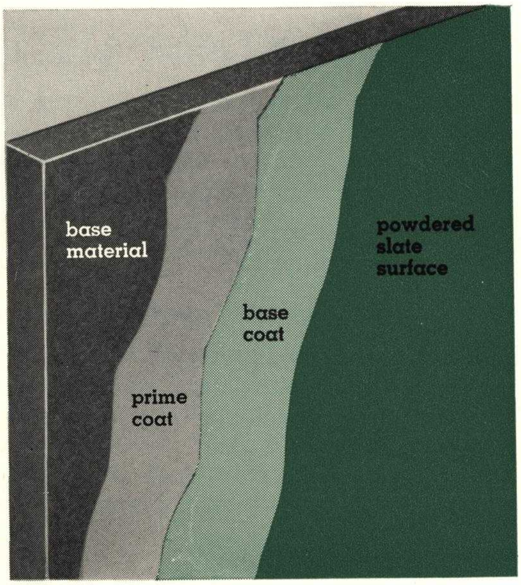
Where abutting joints occur, they shall be filled with Seloc joint compound. Where two abutting pieces of Nucite do not meet on an even plane at the joint, the low points should be built up to meet the high points. The use of spotting compounds is prohibited. After joints have thoroughly dried the boards shall be washed clean.

silicate composition chalkboard

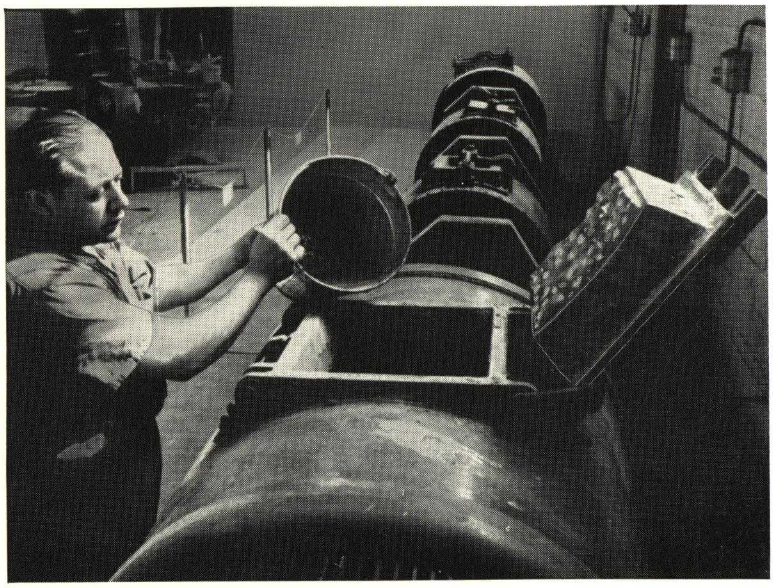
with powdered slate surface

These chalkboards have long been well known for their superior writing surface—a surface that takes the chalk easily and is easy to erase. This is natural—because New York Silicate Book Slate Co. is the oldest and largest manufacturer of chalkboards in the country—with over 25,000 square feet of its new plant devoted to producing composition chalkboards. Regal is the oldest brand name.

The secret of these chalkboards is their surface material: the world famous Diamond Brand slating compound. This compound is made in our own factory by an exclusive formulation which homogenizes pulverized stone slate particles with the other necessary ingredients. Three coats are applied to each composition chalkboard. Each application is allowed to dry for at least one day.



All silicate composition chalkboards have three carefully applied surface coats.



Even the exclusive surface material, Diamond Brand slating compound is made in our own plant.

guarantee

Under normal classroom conditions, the silicate composition chalkboards manufactured by New York Silicate Book Slate Co. are guaranteed to give satisfactory service for ten years from date of installation. This guarantee applies to materials only and does not cover cost of installation.

silicate composition chalkboard

2

type	description	advantages	sizes, ft		weight lb per sq ft
			height	length	
REGAL	Three coats of slating on the surface of 3/16 in. temper treated hardboard.	Finest low price chalkboard manufactured. Only temper treated board in its field. Manufactured continuously for 90 years.	3½, 4	to 16	1.1
PARAGON	Three coats of slating on the surface of ¼ in. temper treated hardboard. Waterproof back coating optional.	A quality composition chalkboard at low cost. Has writing and wearing qualities as fine as those of any composition chalkboard.	3½, 4	to 16	1.6
PARAGON DOUBLE	Three coats of slating on surface. Base is ½ in. consisting of 2 pieces ¼ in. temper treated hardboard laminated together. Waterproof backing standard.	Same fine quality as Paragon. With increased rigidity. Flush joint method of installation can be used with Seloc joint compound.	3½, 4	to 16	3.3
ARMOR	Three coats of slating on surface of ¼ in. Tempered Masonite Presdwood. Special high quality waterproof backcoating.	Highest quality composition chalkboard yet available at moderate cost. Cannot be broken with hammer. Guaranteed against warping or bulging under normal conditions.	3½, 4	to 16	1.7
STONE-BESTOS	Two coats alkalai resistant paint and three finished coats of slating on the surface of 3/16 in. cement asbestos sheet made from Portland cement and asbestos fibers. Special high-quality waterproof back coating.	Finest chalkboard available on cement asbestos sheet. Unlike inferior chalkboards in this field, absolutely will not bloom or blister.	3½, 4	to 12	1.2

installation

Composition boards can be installed in Neatsnap framing with steel or wood grounds or in Silco or wood framing. For details consult section 5.

Best method of installation is securing to wall with "Grippo Adhesive", or high-grade linoleum cement. (Linoleum cement does not have sufficient adhesion to hold Paragon Double and "Grippo" must be used.) Alternate installation is by hanging on nails from top wood grounds. Boards will then hang as curtain and weight will keep them straight. Holes should be drilled in board before installing to prevent cracking of surface.

If installation is in aluminum frame with clips, boards cannot be cemented to wall. In this type of installation wood blocking must be inserted between the back of board and masonry. Such blocking shall be in vertical strips not less than 2" wide and on centers of 24".

Flush joints can be made by using our Seloc joint compound or our "Writo Metal Joints" H-strips finished same as boards can be used.

standard colors

dark green, green, olive green, blue, gray, light tan, cocoa, coral, black.

Green, blue, gray and light tan match NUCITE glass chalkboard colors pictured on page 5. All standard colors are available at the same price.

specifications

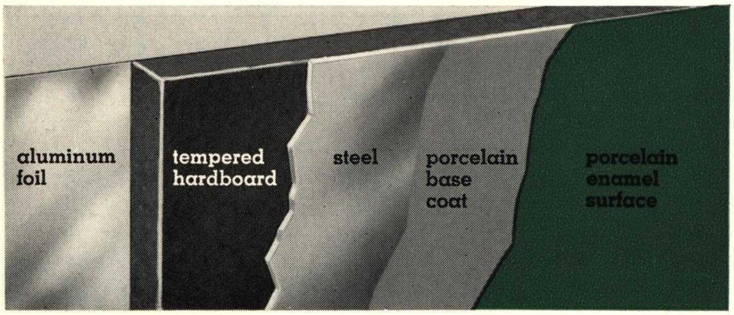
All chalkboard (blackboards) shall be .... (specify brand name) as manufactured by the New York Silicate Book Slate Company or approved equal. They shall be furnished in .... (specify color or colors; standard colors are dark green, green, blue, tan, gray, and black).

Chalkboards shall be of best quality and manufactured so as to consist of .... (*include description from table above*). All joints shall be flush and even and all chalkboards installed in accordance with the manufacturer's instructions.

other chalkboards

Nysteel chalkboards

Nysteel is a steel chalkboard with a porcelain enamel surface. Its chief advantage is its excellent writing surface. It withstands hard use for many years. It is highly resistant to chipping from impact—in fact, more resistant than other chalkboards of porcelain enamel steel. It remains free from warpage and delamination. Nysteel is manufactured in accordance with specifications recommended by the Porcelain Enamel Institute.



Nysteel is manufactured by a special, continuous process. The steel, with its porcelain enamel face, is laminated, under heat and pressure, to ¼-inch hardboard. To the back of the hardboard, a heavy aluminum foil backing is applied. Nysteel takes its place as the finest low-cost porcelain steel chalkboard on the market.

color: green, gray, blue, tan, black.

sizes: height: 3, 3.5, 4 feet; lengths: up to 10 feet

guarantee

The green Nysteel chalkboard surface is guaranteed against becoming slick or shiny and to give satisfactory service under normal classroom usage for a period of not less than twenty years after installation. The chalkboard is also guaranteed against delamination under normal conditions. Guarantee covers materials only and does not include cost of installation.

specifications

All chalkboards shall be green Nysteel as manufactured by the New York Silicate Book Slate Co., Inc., or approved equal. Facing sheet shall be enameling iron not less than .015 inch thick with nickel deposit on both sides. Surface shall consist of two coats of porcelain enamel containing proper abrasives to provide a uniform surface for chalk-taking and erasure. Each coating shall be applied in the high-temperature porcelain enamel range (approximately 1550°). Chalkboard facing shall be laminated to ¼-inch thick tempered hardboard backing by the application of neoprene base contact adhesive under heat and pressure to absolutely insure against delamination. As a moisture barrier and panel stabilizer, a .0015-inch skin of aluminum foil shall be laminated to the back of the tempered hardboard panel. Nysteel shall be installed in accordance with recommendations for composition chalkboards (page 7).

Nyco natural slate blackboard

Slate, because of its excellent writing surface, is still used extensively. In fact, first-quality natural slate and Nucite chalkboards have the finest writing surfaces of any chalkboards available. However, because slate is a mined product, there are many qualities available.

Nyco slate—the well-known brand of New York Silicate Book Slate Co.—is Pennsylvania natural slate at its top quality. It is low in lime content and has a carborundum-rubbed surface. Nyco slate is the finest quality natural slate blackboard.

color: black

sizes:

maximum: 6 by 4 feet
standard: *height:* 3, 3.5, 4 feet
length: 4, 5, 6 feet

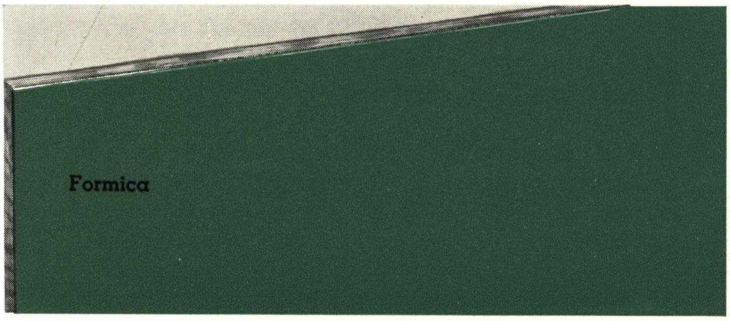
specifications

Blackboards shall be Nyco natural slate by the New York Silicate Book Co., Inc., or approved equal. Material shal be finest quality selected natural slate, even in color and texture and free from ribbons or imperfections that would impair its use or durability as a writing surface. The exposed surface shall have a satin finish in accordance with accepted standards. Slate shall be quarried in the United States and thickness shall be maintained between the limits of ¼ and ⅜ inch.

Blackboards shall be installed in accordance with manufacturer's recommendations. Joints shall be fitted to provide a continuous writing surface. After installation, all boards shall be washed clean.

Formica chalkboard

Green Formica chalkboard, the result of seven years of research and development, is a good quality chalkboard at relatively low cost. It has one of the finest writing surfaces obtainable. It takes a full, clean chalk mark with deep contrast. Erasure is quick and easy. It can be washed with water as often as necessary and is not harmed by normal cleaning solvents. It is more permanent than top-grade composition chalkboards—but costs only slightly more. Formica chalkboard is the lowest priced quality chalkboard.



The Formica sheet is a high-quality synthetic resin-base laminate, of the thermosetting type. It is cured under high temperature and extreme pressure. Ordinarily it is laminated to Quartrboard, and can be cemented or nailed in place as easily as composition chalkboards. The 3/64 inch unmounted sheet may be applied directly to finished plaster walls. Its light weight lowers shipping costs. It is distributed throughout the country by New York Silicate Book Slate Co.

types available

- 3/64-inch unmounted sheet
- sheet laminated to ¼-inch Masonite Quartrboard
- sheet laminated to ¼-inch Masonite Quartrboard with raw Formica backup sheet

color: green

sizes: *height:* 3.5 and 4 feet; *length:* 4, 5, 6, 8 and 10 feet

guarantee

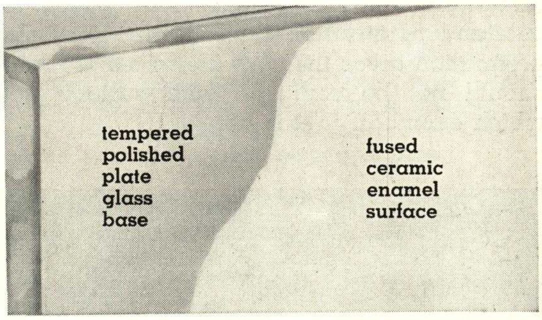
The green Formica chalkboard surface is guaranteed against becoming slick or shiny and to give satisfactory service under normal classroom usage for a period of 20 years after installation. Guarantee covers surface material only and does not include cost of installation.

specifications

The chalkboard shall be green Formica by the New York Silicate Book Slate Co., Inc. The surface shall be composed of a thermosetting synthetic resin combined with fast-action pigments placed on a phenolic impregnated paper core and cured under pressure. Chalkboards shall be installed in accordance with manufacturer's recommendations for composition chalkboards (page 7).

NURITE glass crayon board

NURITE crayon board—available in ivory only—is intended for use where color or permanence of image is desired. It is recommended for art rooms and science rooms—also for limited use in classrooms. It is particularly suited to conference rooms and airline terminals. It is often incorporated into sliding chalkboards (section 8) and can double as a projection screen.



NURITE crayon board is ¼-inch tempered, polished plate glass, to which a non-abrasive vitreous enamel is permanently fused.

Ezy-Rase water-soluble wax crayons are available in six colors for use with NURITE. Markings are easily removed with dry flannel or any damp cloth.

color: ivory

sizes: same as NUCITE (page 5)

specifications

Crayon boards shall be ivory NURITE by the New York Silicate Book Slate Co., Inc., and shall be installed by the chalkboard sub-contractor.

The crayon board shall consist of ¼-inch thick tempered plate glass with a special ivory ceramic enamel fused to its surface. The nature of this surface shall be that it retain its original ivory color, its writing and erasing qualities for the lifetime of the building in which it is installed. (Due to care and control of the ivory color occasional surface flecks may appear. These do not affect writing and shall be considered allowable variations.)

NURITE shall be installed in the same manner as NUCITE. (Section 1).

APEX cork bulletin board

plastic impregnated

Today's highly visual teaching methods require more display area, more bulletin boards. For this important part of the classroom, cork proves the most satisfactory . . . the most durable medium . . . the most economical over the years. Unlike substitute materials, cork does not disintegrate with constant use.

APEX cork bulletin board is cork in its finest form. It is a combination of pure cork, linseed oil and pigment—and contains the absolute minimum of fillers. It is burlap-backed and is a full ¼-inch thick. While hot, it is impregnated under roller pressure with U-F (urea-formaldehyde) plastic. This plastic, is added as standard at no advance in cost. The plastic impregnation gives the cork increased washability. It should not be confused with surface treatments which eventually wear off.

Ordinary cork bulletin boards absorb dirt and grime . . . are difficult to clean. Plastic impregnated APEX cork can be wiped clean with a damp cloth.

advantages

easy maintenance, washability

Because APEX cork is impregnated with U-F plastic, it is easy to clean, easy to wash. It allows dirty finger marks and messy chalk dust to be wiped off with a damp cloth . . . stubborn dirt and most pen and pencil marks to be scrubbed clean with abrasive soap and hot water. Consequently, APEX cork bulletin board is easy to maintain, easy to keep in excellent condition—even after years of hard usage.

self-healing surface

APEX is completely self-healing due to its very high content of fine cork granules. Thumb-tack holes disappear immediately from the surface. They do not cause disintegration as in substitute materials. Thus, APEX can be given rugged use day after day, year after year. It *retains* its usefulness.

uniform color surface

There is a definite reason APEX cork bulletin board has a surface of inherently uniform color—it is made *without sanding*. Thus, APEX does not have the usual speckled appearance characteristic of all other cork boards. Its surface is completely monotone, decidedly pleasing in appearance—and unusually smooth.

availability

APEX cork bulletin board, in all colors, is made ¼-inch thick. It is also available in tan ⅛-inch thick. APEX cork can be cemented to ¼-inch Masonite Quartrboard or other backing material in sizes up to 4 by 12 feet. Without backing, it can be cemented to finished white plaster in sizes up to 72 inches by 90 feet. This is the widest cork bulletin board available. It can also be obtained without plastic impregnation.

guarantee

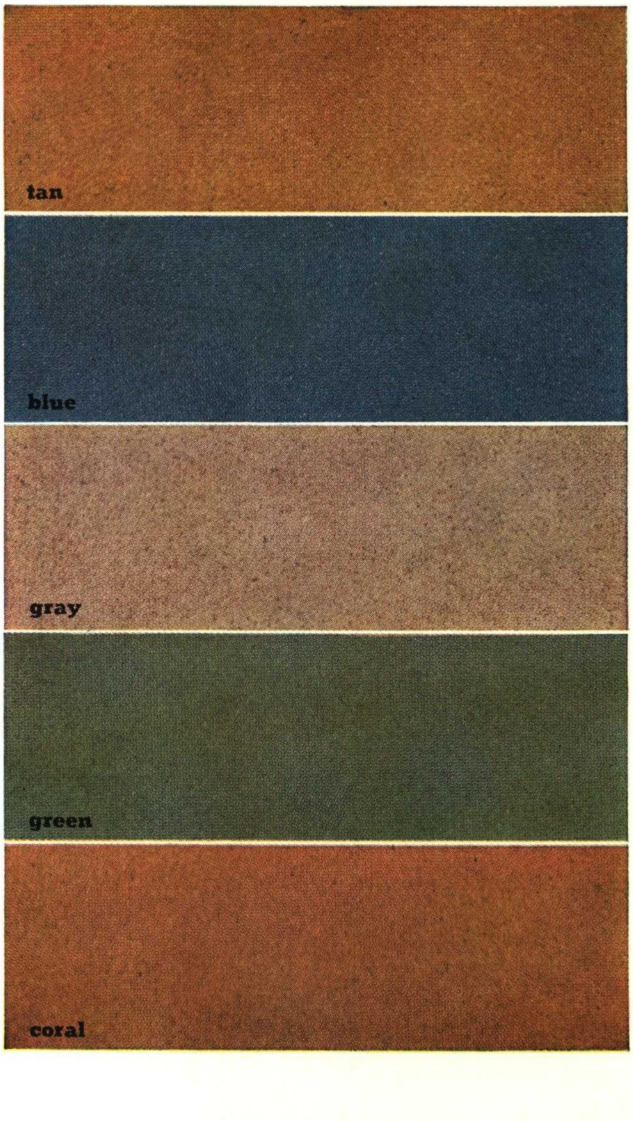
APEX cork is guaranteed to be free from manufacturing defects. The New York Silicate Book Slate Co. assumes sole responsibility for the quality of this product.

Apex cork bulletin board | 4

easy-on-the-eye colors

Apex cork bulletin board is now available in five attractive but muted colors (the widest color range on the market). All five colors have been specially selected for minimum eye strain. In addition, these colors are sufficiently muted to blend with colored chalkboards, and with the wall colors used in today's classrooms. Further, Apex colors are so soft they harmonize with themselves; two (or more) colors can be used in the same classroom.

Apex corkboards have only two color price groups: one for tan, one for all the other colors.



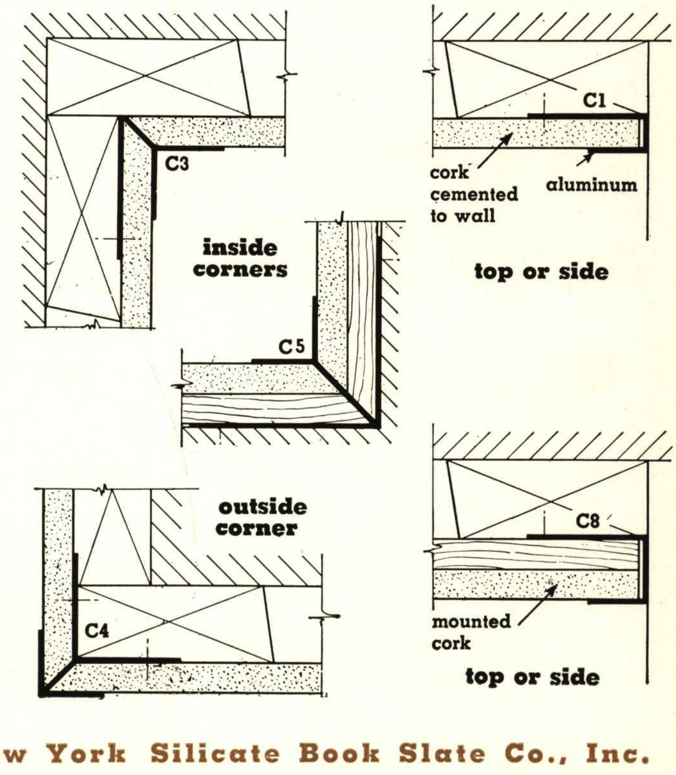
specifications

The bulletin or tack board shall be .... (insert color: tan, gray, blue, green, coral) ¼-inch Apex cork, plastic impregnated, as furnished by the New York Silicate Book Slate Co., Inc. It shall be installed according to manufacturer's recommendations and shall be thoroughly cleaned after installation.

On smooth plaster walls, the Apex corkboard shall be applied directly to a finished white coat of plaster trowelled smooth, or to a brown coat which should be steel-trowelled to a smooth finish. The adhesive shall be a first-grade linoleum cement. (Where moisture resistance is necessary or where the cork is applied to the brown coat of plaster, Grippo rubber-base adhesive shall be used.)

On unplastered walls, the Apex corkboard shall be cemented to ¼-inch thick Masonite Quartrboard, the maximum size piece being 4 by 12 feet. For longer lengths, aluminum H strips shall be used to cover the joints. (If joint strips are to be eliminated for longer lengths, the backing shall first be cemented or nailed to the wall and the cork shall be cemented to the backing.)

aluminum C-trim



aluminum framing

for chalkboards, cork bulletin boards

prefabricated **simple design, sturdy construction**

specifications

All chalkboard and corkboard framing shall be prefabricated as manufactured by the New York Silicate Book Slate Co., Inc.

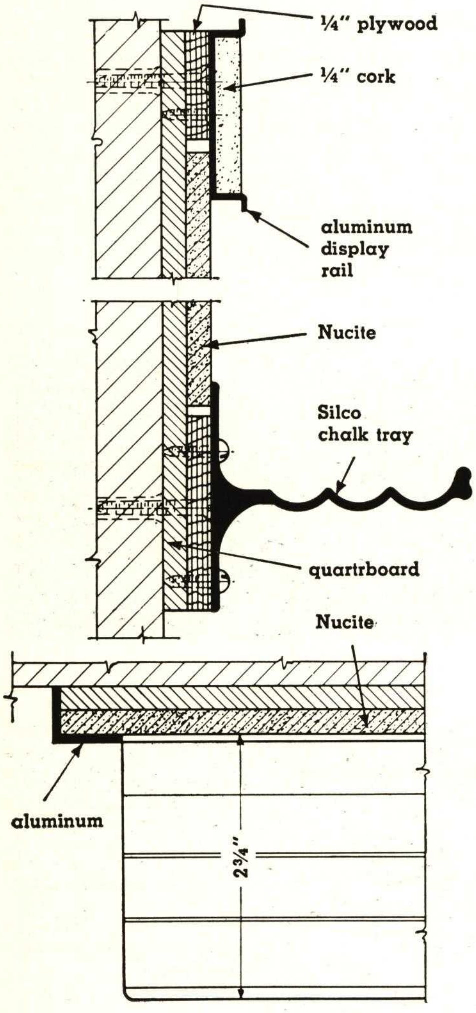
Nucite Prefab glass chalkboard units (see section 1 for specification) shall be prefabricated—with exception of chalktray and top display rail which are to be precut, but installed at jobsite. Unit is to consist of continuous sheet of Quartrboard with NUCITE laminated to its face and ¼-inch plywood filler strips laminated top and bottom. Aluminum angle shall run full length of vertical edges.

Nysteel Prefab chalkboard units (see section 3 for specification) shall be prefabricated—with exception of chalktray and top display rail which are to be precut, but installed at jobsite. Aluminum angle shall run full length of vertical edges.

Chalkboard shall be secured to wall with Grippo adhesive and fastened through face at top and bottom. Chalktray and display rail shall be installed after fastening to wall, concealing mounting screws.

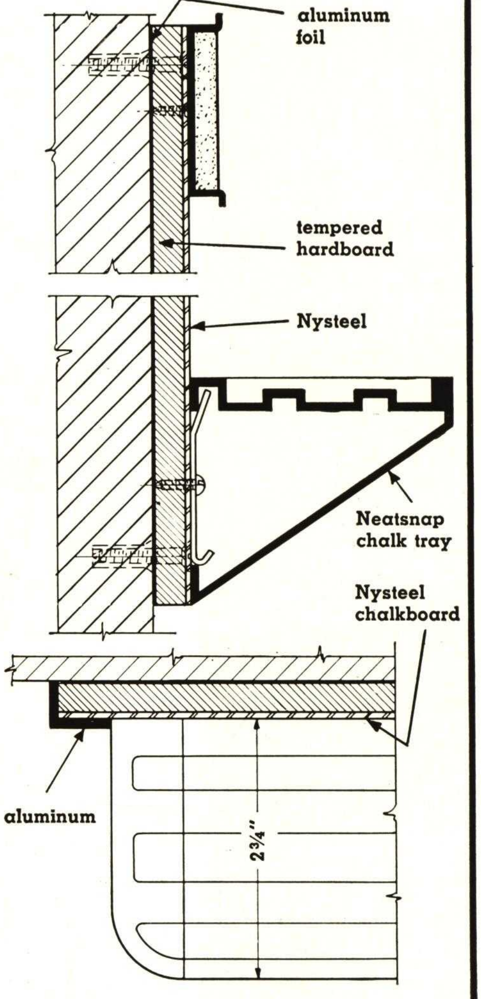
Apex Prefab cork bulletin boards (see section 4 for specification) shall be prefabricated. Cork shall be mounted on Quartrboard and trimmed with aluminum C8 trim. Unit shall be installed in aluminum clips previously installed on wall.

Nucite prefab


¼" plywood
¼" cork
aluminum display rail
Nucite
Silco chalk tray
quartrboard
Nucite
aluminum
2¾"

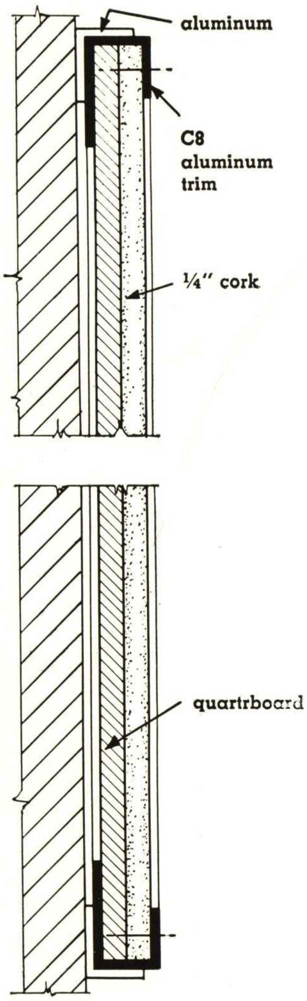
Silco chalk tray

Nysteel prefab


aluminum foil
tempered hardboard
Nysteel
Neatsnap chalk tray
Nysteel chalkboard
aluminum
2¾"

Neatsnap chalk tray

corkboard prefab


aluminum
C8 aluminum trim
¼" cork
quartrboard

NEATSNAP

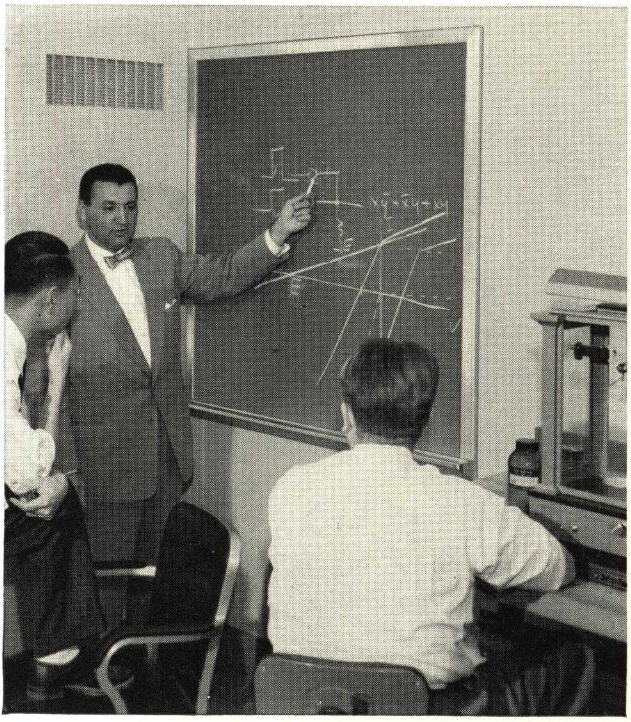
This aluminum framing has many features: it is free from visible fastenings; its corners are mitered; it is aluminited; it has a clean, distinctive appearance. Yet it costs only slightly more than wood framing—in fact, less when wood finishing and maintenance are considered.

For permanency, NEATSNAP is installed in pre-drilled galvanized steel grounds. However, it can be installed in wood grounds. It rests firmly on the grounds, rather than in tension clips.

NEATSNAP accessories, such as flag holders, are now available in extruded aluminum to match the framing. (They are the same as SILCO accessories, shown on page 17, but larger.)

Details are shown on following pages.

NEATSNAP *framing and* NUCITE *chalkboard at the International Business Machines Research Center, Poughkeepsie, New York architects: Voorhees, Walker, Smith & Smith*



specifications

chalkboard, bulletin board frames with steel gronnds

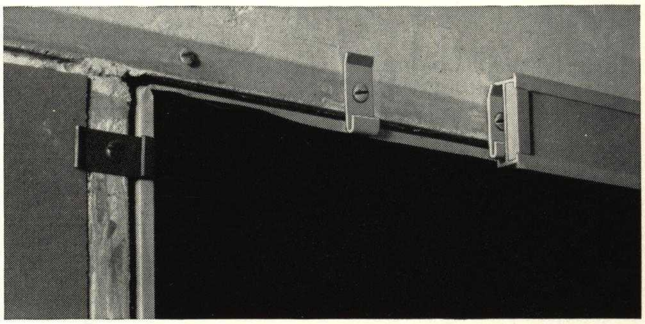
This subcontractor shall furnish and erect all chalkboard and bulletin board framing, all chalkboards and bulletin boards.

All chalkboard and tackboard framing shall be NEATSNAP as manufactured by the New York Silicate Book Slate Co., Inc., and shall be furnished in stock lengths to be cut on job to suit. All aluminum shall be in one piece, in lengths up to 21 feet. Extruded aluminum framing shall be virgin 63S alloy. It shall be given deep acid etching to produce satin finish and then alumilited.

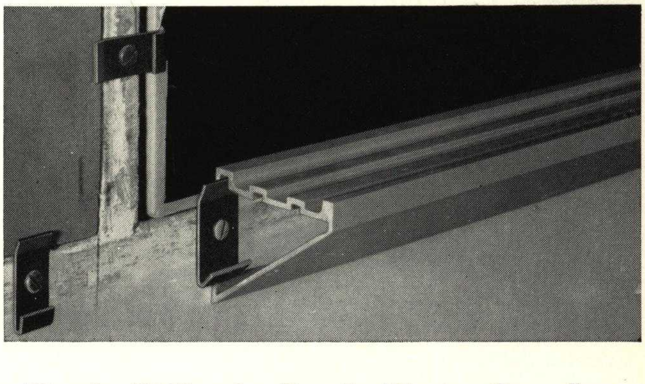
The continuous 16-gauge galvanized grounds shall be set to dimensions specified and shall be accurately aligned with steel shims and securely fastened to rough wall. Fastenings shall be made through holes provided and shall be applied at intervals of not over 12 inches under chalkboards, and not over 20 inches elsewhere. Before manufacturing, this sub-contractor shall take field measurements and shall be responsible for fitting boards properly. The chalkboards shall rest firmly on the grounds for their entire distance.

Molding clips (secured with sheet metal screws) shall be staggered and spaced not more than 16 inches apart with extra clips at corners. Chalk tray clips shall be spaced not over 12 inches apart. After boards have been installed, extruded aluminum trim shall be snapped into place. Ends of chalk tray shall be closed by the attachment of die-cast aluminum end plates.

Map winders, flag holders, map hooks and paper clips shall be extruded aluminum and exactly match the finish of the framing. The number of each to be used shall be determined by the architect.

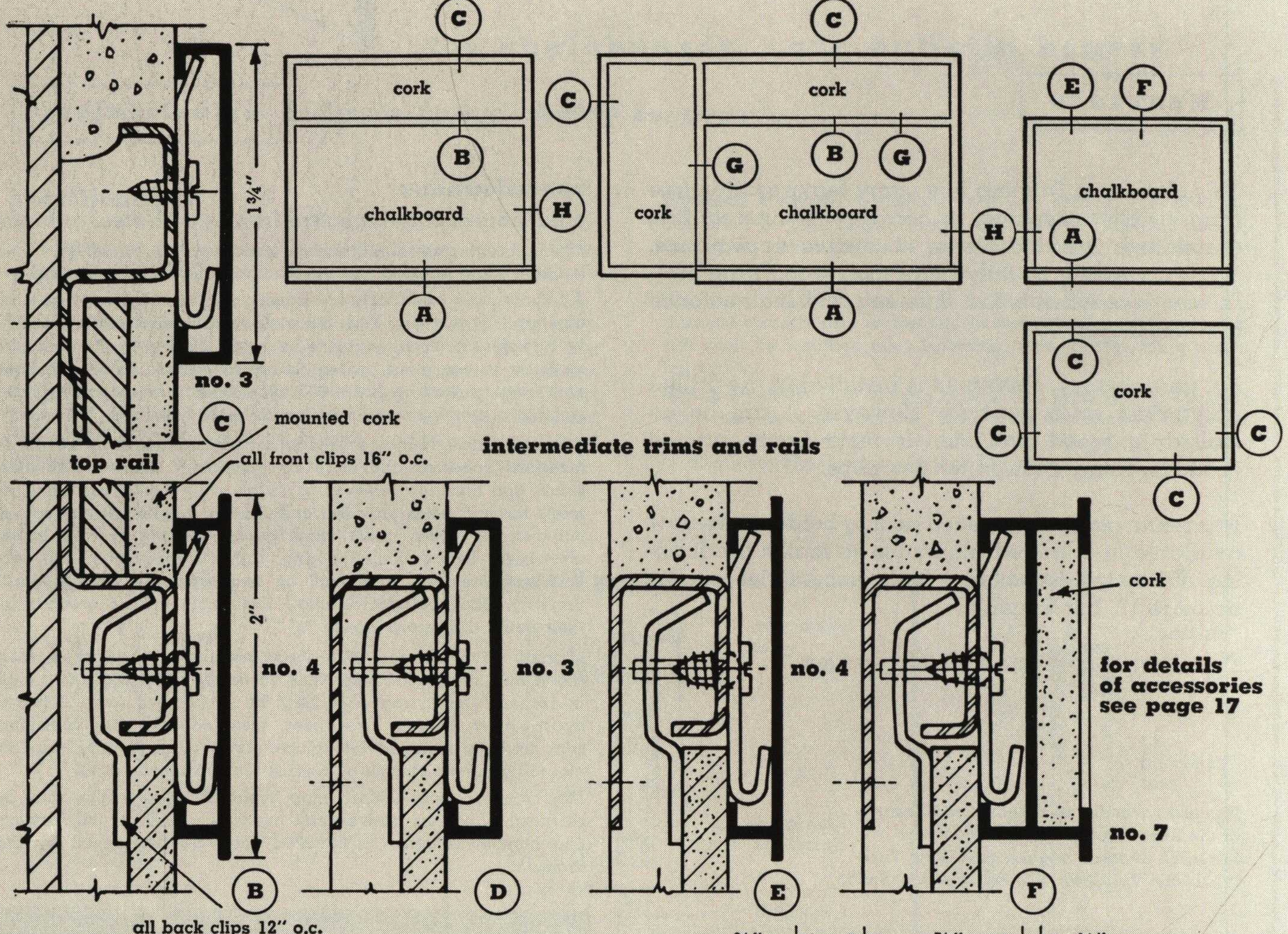


chalkboard secured by turning clips vertically and then tightening front clips to set plane



NEATSNAP with steel grounds

plain trim—*for recessing into plastered walls*

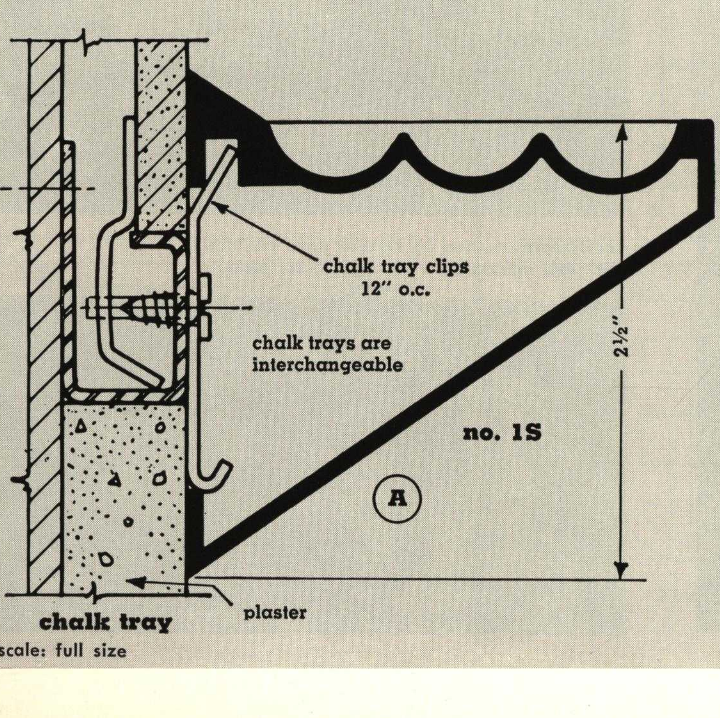

1¾"
no. 3
C
cork
B
chalkboard
H
A
C
C
cork
G
B
G
cork
chalkboard
H
A
E
F
chalkboard
A
C
cork
C
C
C
mounted cork
all front clips 16" o.c.
2"
no. 4
B
all back clips 12" o.c.
no. 3
D
no. 4
E
cork
no. 7
F

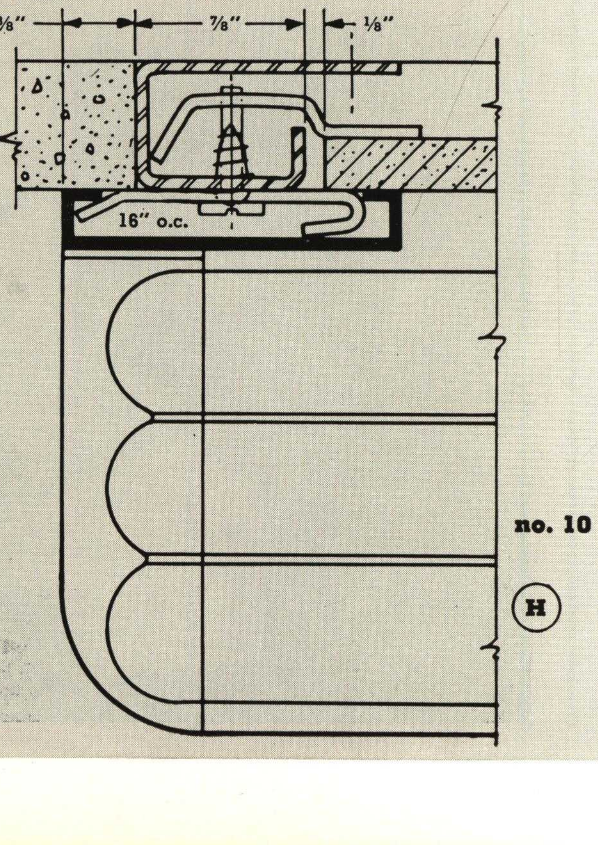
top rail

intermediate trims and rails

for details of accessories see page 17

intermediate rail

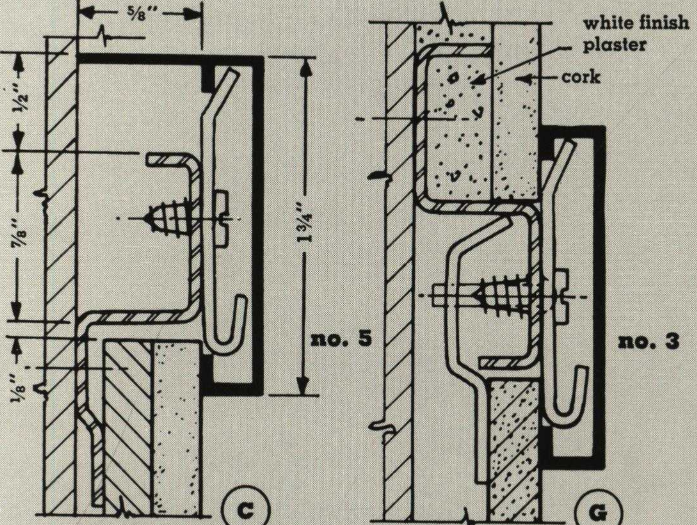

chalk tray clips 12" o.c.
chalk trays are interchangeable
2½"
no. 1S
A
plaster


⅜"
⅞"
⅛"
16" o.c.
no. 10
H

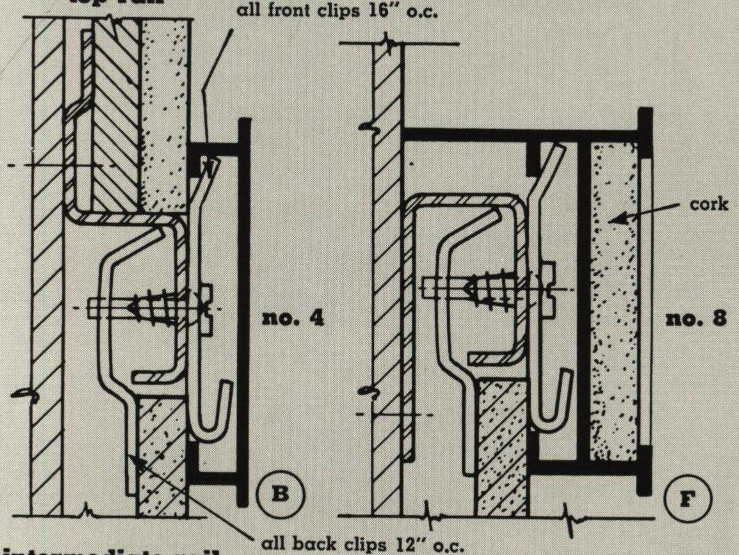
chalk tray

scale: full size

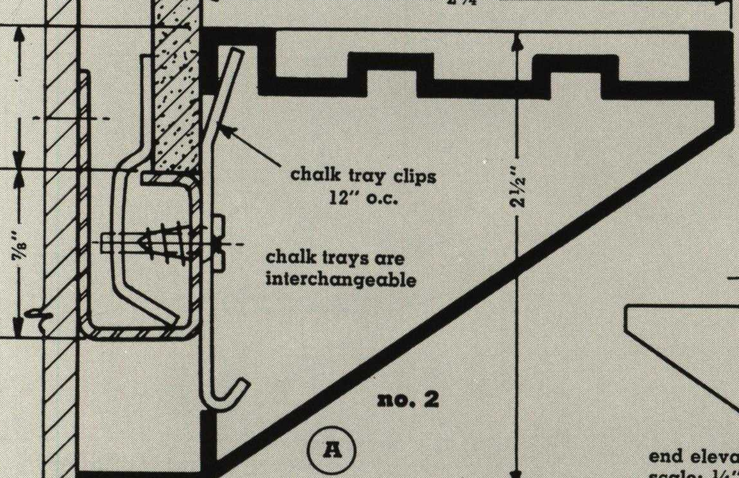
extended trim—*for surface application*


5/8"
1/2"
7/8"
1/8"
1 3/4"
no. 5
C
white finish plaster
cork
no. 3
G

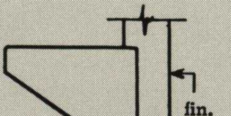
top rail


all front clips 16" o.c.
no. 4
B
cork
no. 8
F
all back clips 12" o.c.

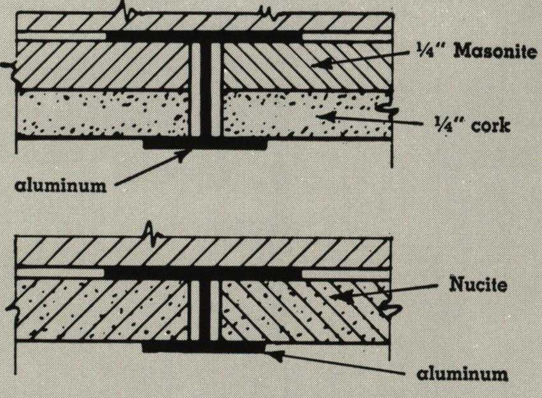
intermediate rail


2 3/4"
2 1/2"
7/8"
7/8"
chalk tray clips 12" o.c.
chalk trays are interchangeable
no. 2
A

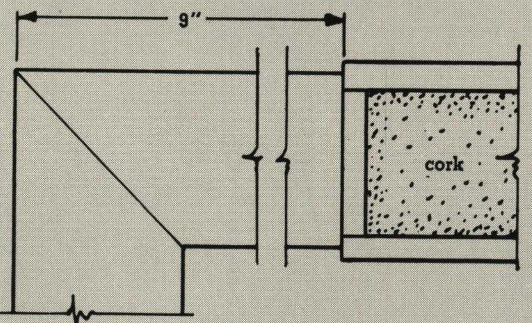
chalk tray



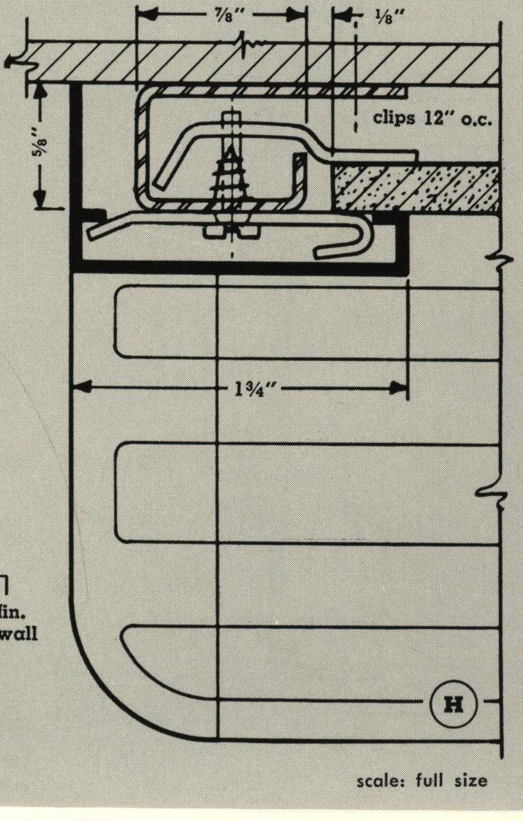
end elevation
scale: 1/4"-1'0"


1/4" Masonite
1/4" cork
aluminum
Nucite
aluminum

aluminum intermediate joiners for both Neatsnap and Silco trims

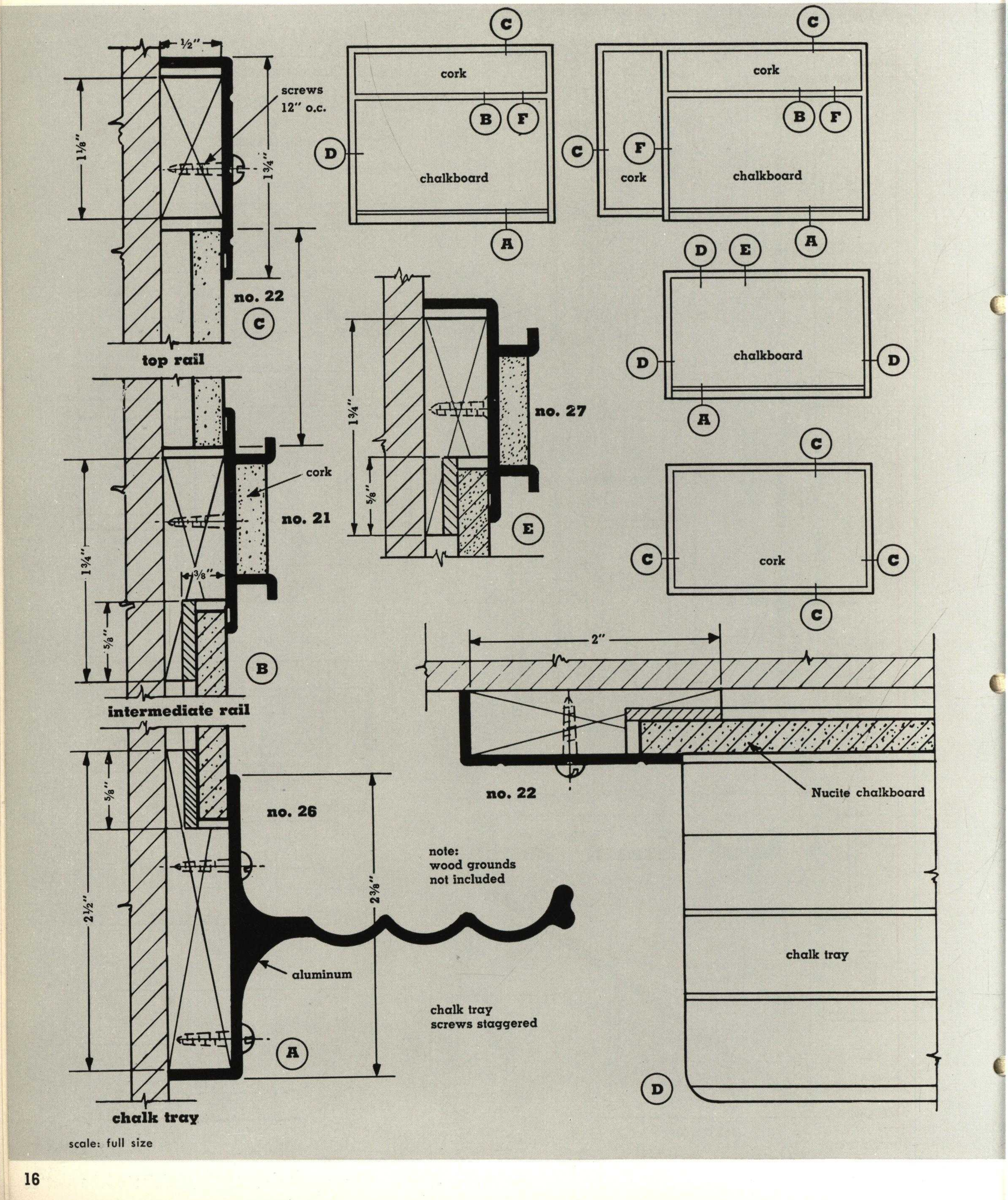


display railtop for finished wall


7/8"
1/8"
clips 12" o.c.
5/8"
1 3/4"
H

scale: full size

SILCO screw-on type


½"
1⅛"
1¾"
screws 12" o.c.
no. 22
C
top rail
1¾"
⅝"
⅜"
cork
no. 21
B
intermediate rail
⅝"
2½"
2⅜"
no. 26
aluminum
A
chalk tray
1¾"
⅝"
no. 27
E
C
cork
B
F
D
chalkboard
A
C
cork
B
F
C
F
cork
chalkboard
A
D
E
D
chalkboard
D
A
C
C
cork
C
C
2"
no. 22
Nucite chalkboard
chalk tray
D

note:
wood grounds
not included

chalk tray
screws staggered

scale: full size

specifications

This sub-contractor shall furnish and erect all chalkboard and bulletin board framing, all chalkboards and bulletin boards.

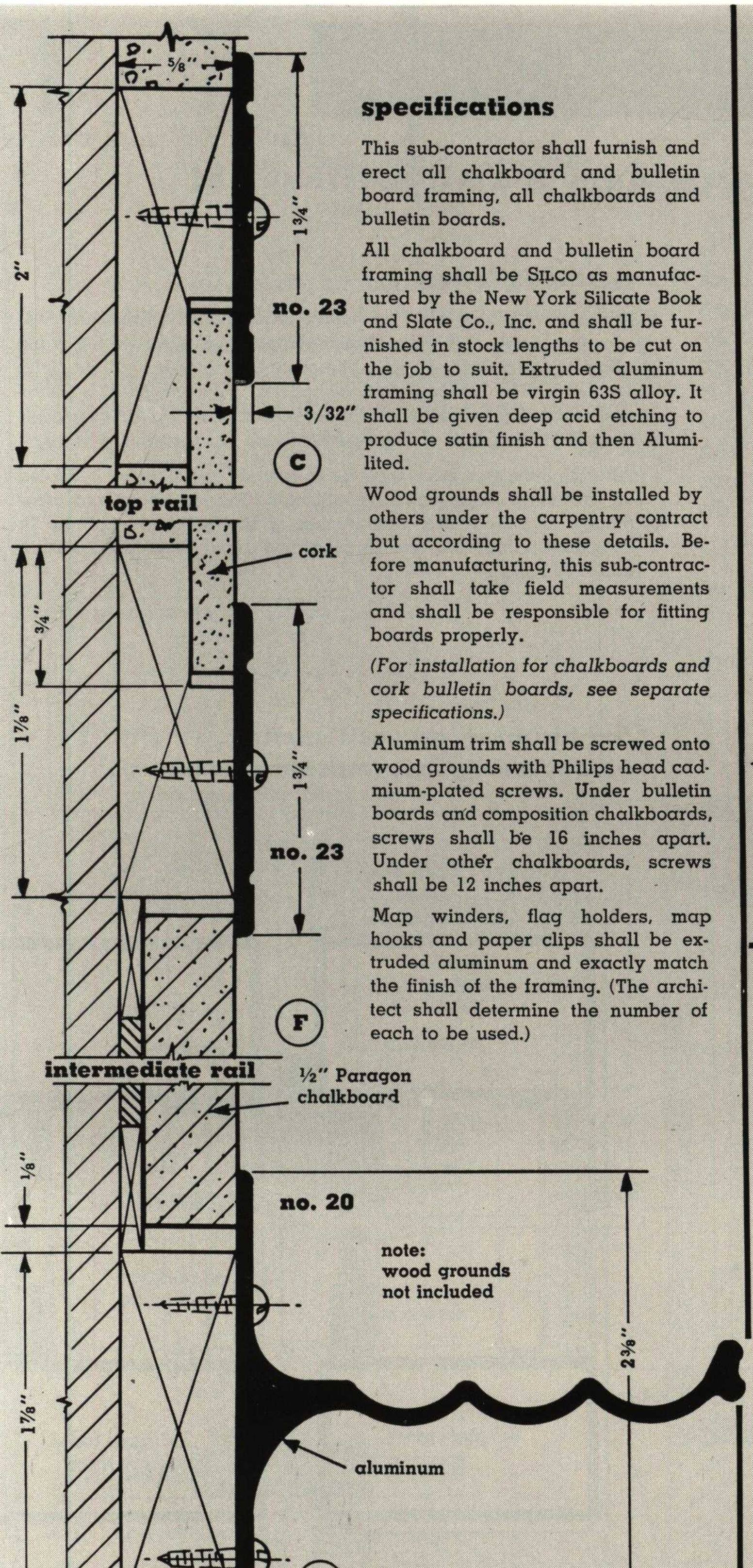
All chalkboard and bulletin board framing shall be Silco as manufactured by the New York Silicate Book and Slate Co., Inc. and shall be furnished in stock lengths to be cut on the job to suit. Extruded aluminum framing shall be virgin 63S alloy. It shall be given deep acid etching to produce satin finish and then Alumilited.

Wood grounds shall be installed by others under the carpentry contract but according to these details. Before manufacturing, this sub-contractor shall take field measurements and shall be responsible for fitting boards properly.

(For installation for chalkboards and cork bulletin boards, see separate specifications.)

Aluminum trim shall be screwed onto wood grounds with Philips head cadmium-plated screws. Under bulletin boards and composition chalkboards, screws shall be 16 inches apart. Under other chalkboards, screws shall be 12 inches apart.

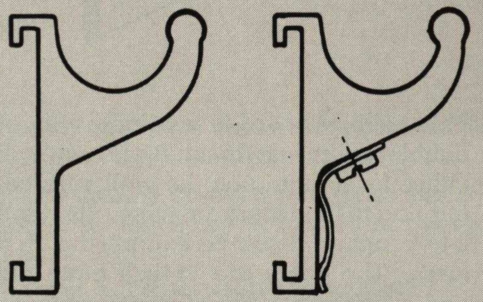
Map winders, flag holders, map hooks and paper clips shall be extruded aluminum and exactly match the finish of the framing. (The architect shall determine the number of each to be used.)



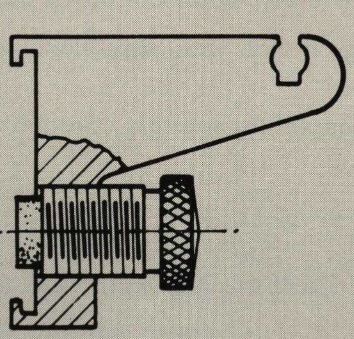
aluminum display rails

Silco accessories

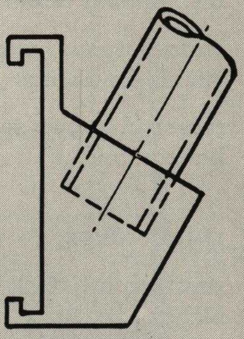
Neatsnap accessories are the same design as Silco accessories—but larger in scale.



map hanger with and without paper clip

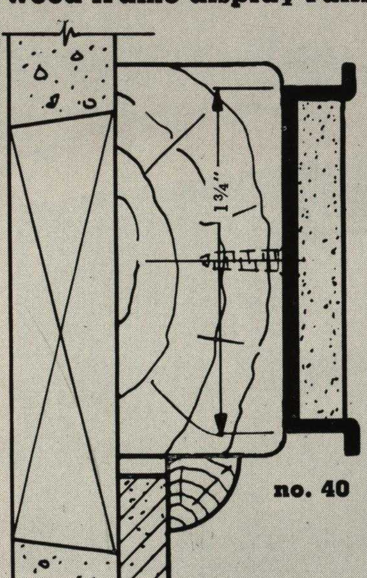


map winder

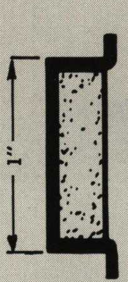


flag holder

wood frame display rails



no. 40



no. 24A

scale: full size

glass-door bulletin board

with aluminum framing (item 35)

This bulletin board is available with either single or double doors—or in multiple units. It is designed either for hanging on the wall surface or for recessing into the masonry opening. Its depth ranges from 2 to 6 inches. It can be equipped with fluorescent fixtures. The doors are ¼-inch plate glass. The case and frame are made of strong aluminum alloy with alumilite finish. The continuous piano hinges are stainless steel. The rear panel is either cork or mirror. Sliding doors are also available on all units.

surface type: hung on wall with blind hangers; no visible fastenings

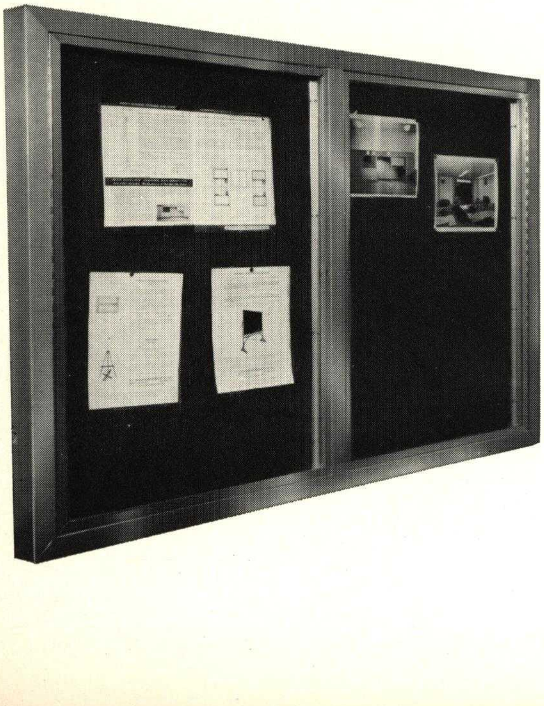
recessed type: secured to masonry through cork background

stock sizes

single door: 18x24, 20x30, 24x36, 30x42, 36x36, 36x48 inches

double door: 60x42 inches *(with or without center mullion)*

special sizes: any size up to 5x12 feet

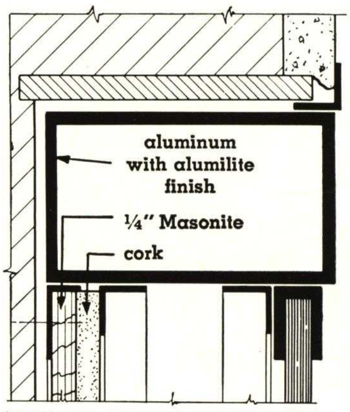


specifications

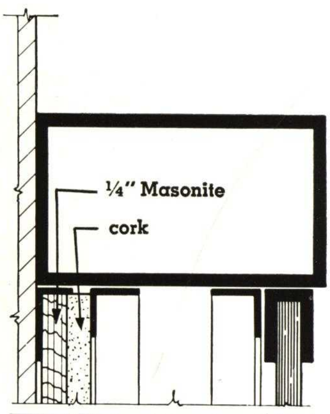
The hollow tubing shall be virgin aluminum alloy no. 63S with alumilite finish. All other aluminum parts shall be of the same alloy and in the same finish. The continuous hinges shall be stainless steel. The framing shall be mitered true and shall be fitted and secured to make neat, durable construction. No welding shall be acceptable (as it shows spots through the alumiliting).

All aluminum and steel shall be in gauges and sizes as indicated on drawings. Depth shall be indicated. The hardware and other fittings and the entire construction of the cabinets shall be in accordance with the standards of the New York Silicate Book Slate Co., Inc.

for hanging on wall surface or recessing into masonry opening



section of cabinet built in wall
scale: one-half full size



section of cabinet hung on wall
scale: one-half full size

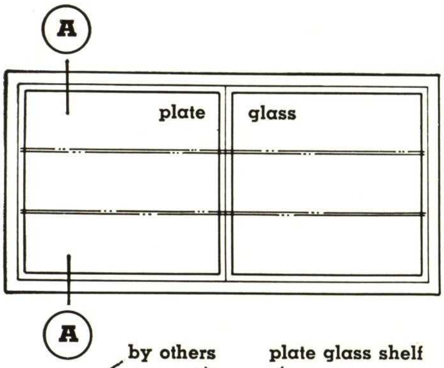
trophy or display case

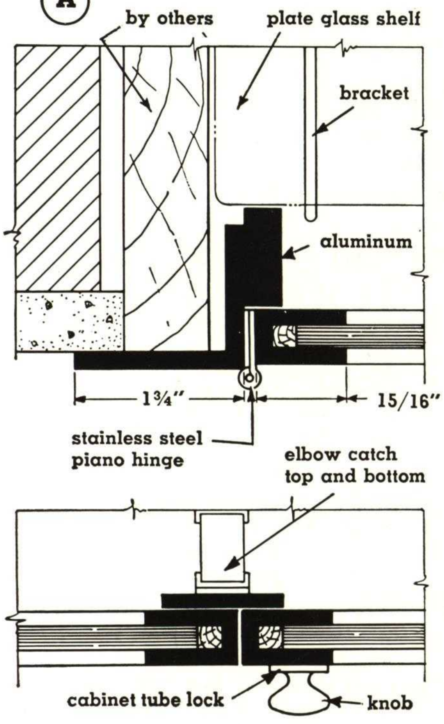
variable depth

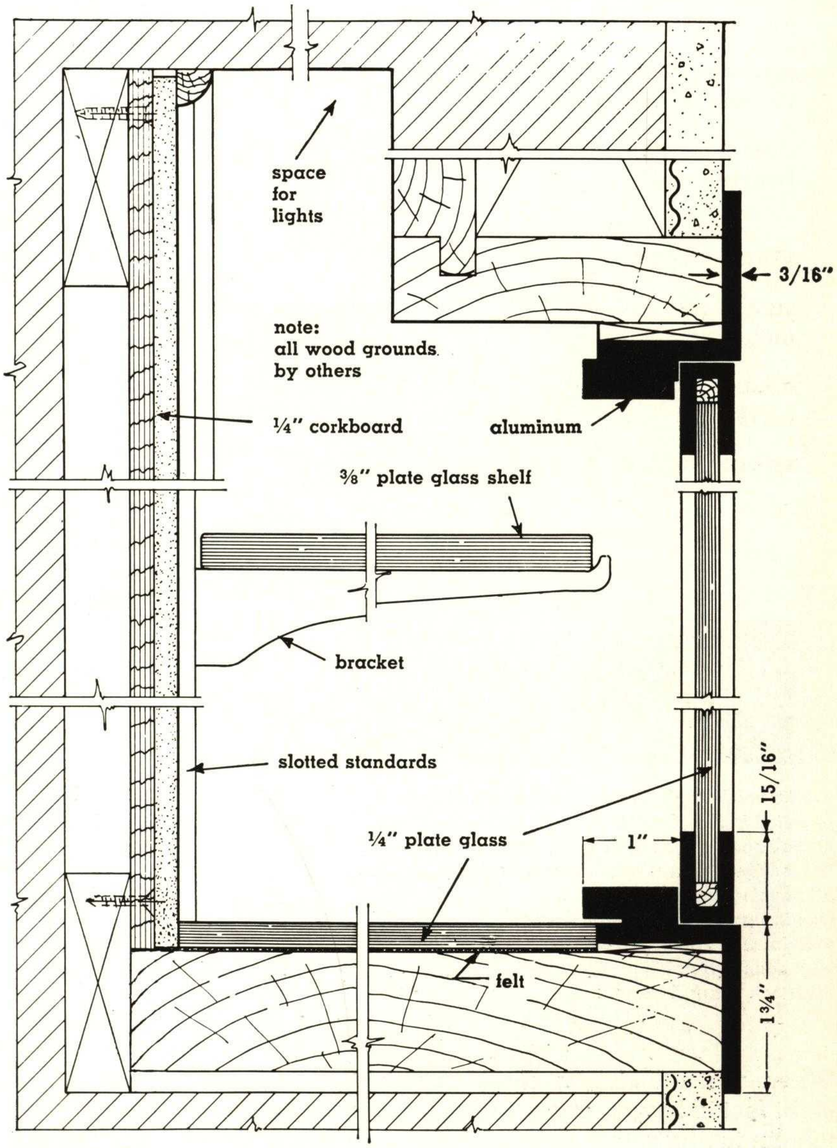
This unit is designed for corridor or lobby use—with frame to match those of classroom chalkboards and cork boards. It is designed for recessing into the masonry opening, its depth determined by the wall thickness. Its width and height vary according to requirements. It may be either single or multiple with hinged or sliding glass doors. This unit is also available with fixed doors and rear access panel.

If desired, the adjustable brackets and glass shelves may be installed by either the hardware or glazing sub-contractor.

Specifications and full-size details on request.


A
plate
glass
A


by others
plate glass shelf
bracket
aluminum
1¾″
15/16″
stainless steel piano hinge
elbow catch top and bottom
cabinet tube lock
knob


space for lights
3/16″
note: all wood grounds by others
¼″ corkboard
aluminum
⅜″ plate glass shelf
bracket
slotted standards
¼″ plate glass
1″
15/16″
felt
1¾″

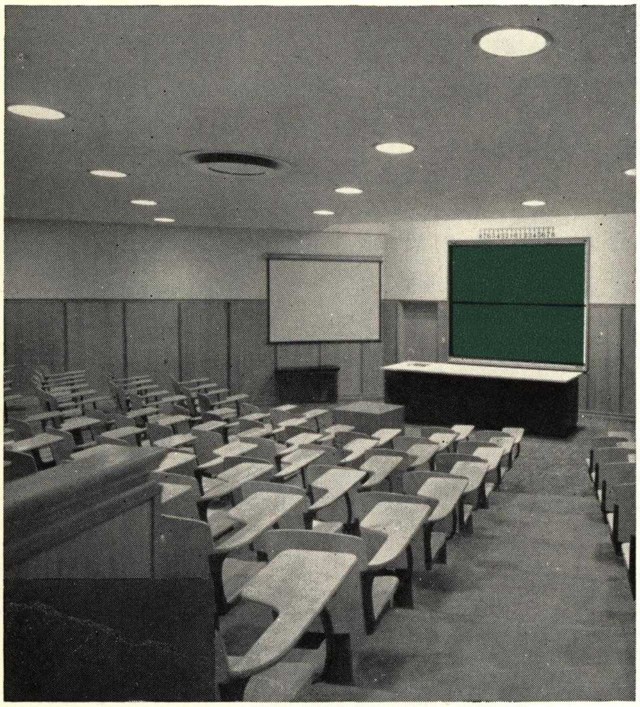
section AA
scale: one-half full size

custom chalkboards and corkboards

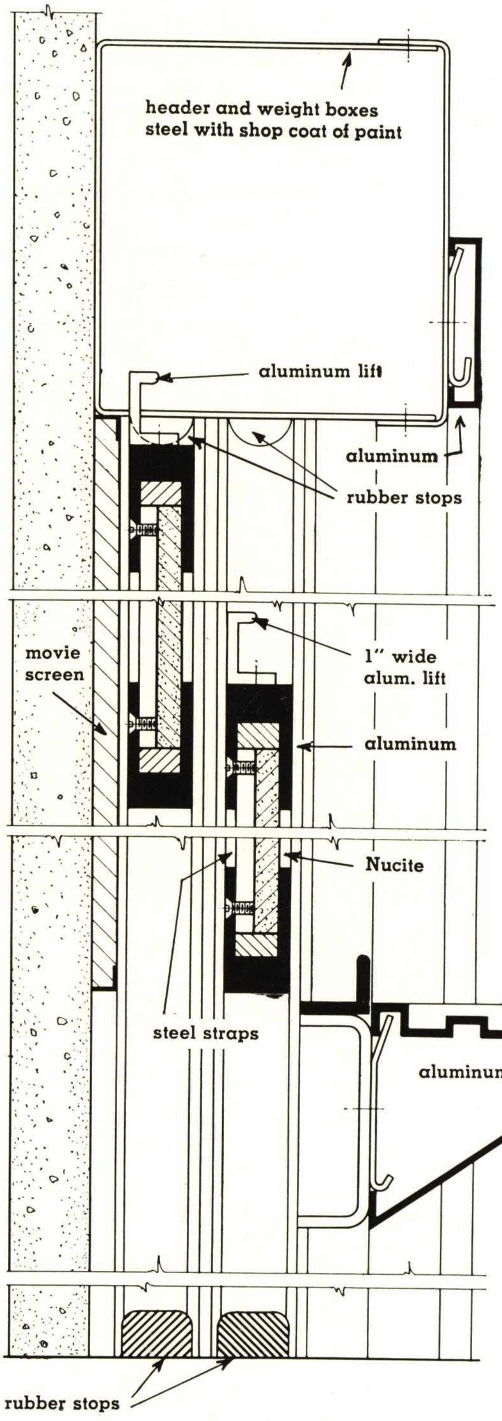
vertical sliding

Vertical sliding boards give maximum working area at the focal point in lecture halls. They are carefully built to give years of service. They are manually operated or motor driven. NUCITE glass chalkboards should be used as they do not warp.

Sliding chalkboards can be built with one or more panels and with or without fixed rear panel. Any one of these panels can be a motion picture screen. In addition to units made of steel, we also make them entirely of alumilited aluminum or in any type of wood.



Vertical sliding chalkboards—of green NUCITE—installed in the physics lecture hall in the Fondren Hall of Science, Southern Methodist University, Dallas, Texas . . . manually operated . . . all housing made of steel . . . framing and chalk trough made of aluminum . . . balanced pulleys, roller chain, lead counterweights used . . . architect: Mark Lemmon.


header and weight boxes
steel with shop coat of paint
aluminum lift
aluminum
rubber stops
movie screen
1" wide alum. lift
aluminum
Nucite
steel straps
aluminum
rubber stops

scale: one-half full size

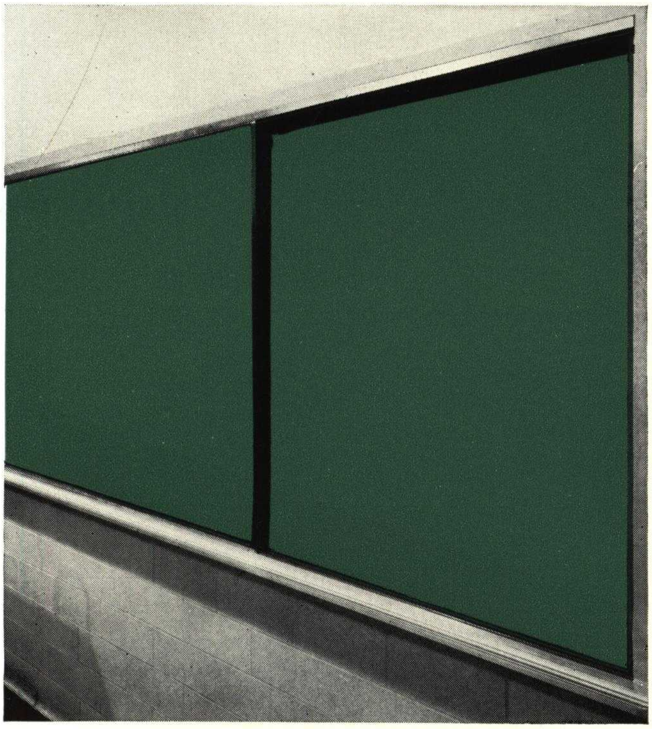
When vertical sliding chalkboard panels exceed eight feet in length, they shall be framed within aluminum tubing rather than aluminum channel.

Full-size details and specifications on request.

horizontal sliding

Horizontal sliding chalkboards give extra working area without increase in wall space.

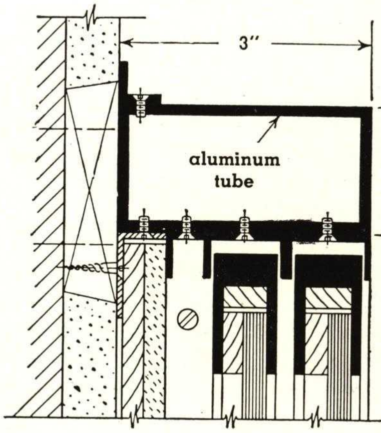
Chalkboard, corkboard, crayon board and projection screen may be combined for best effect. A stationary back panel should be included. Horizontal units move on nylon rollers in stainless steel tracks on the principle of sliding doors.

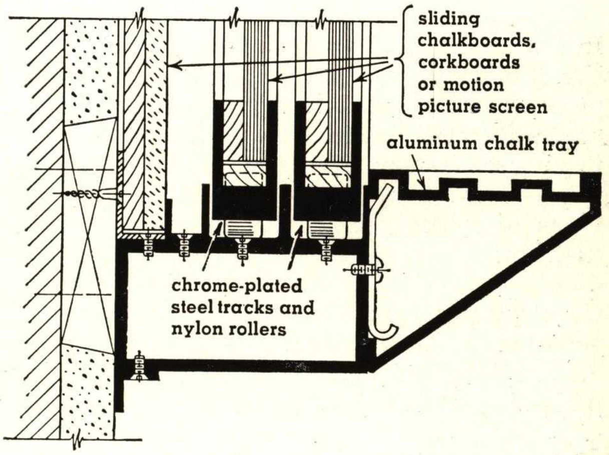


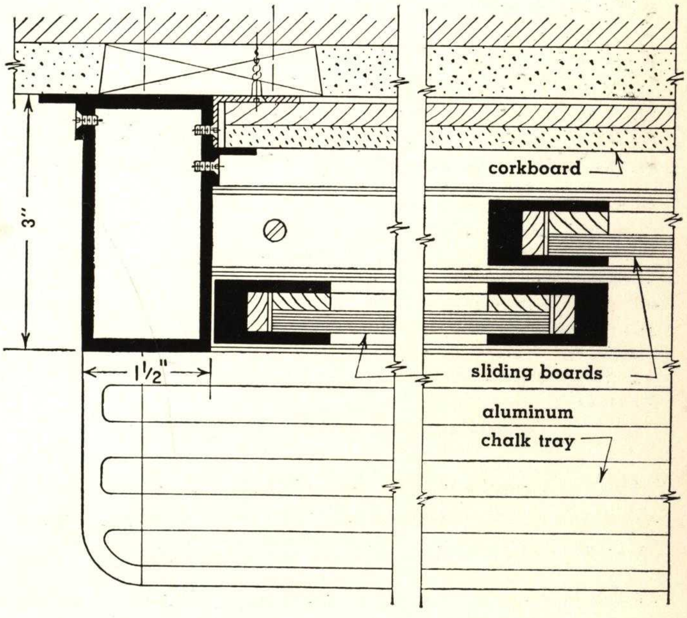
Nucite ***sliding chalkboards installed at the University of Bridgeport, Bridgeport, Connecticut***

a partial list of installations

Babylon High School, Babylon, New York
Architect: Eggers and Higgins
American Hospital Association Building, Chicago, Illinois
Architect: Schmidt, Garden & Erikson
Torrejon Air Base, Spain
Monsanto Chemical Corp., St. Louis, Missouri
St. Luke's Hospital, Fargo, North Dakota
Architect: William F. Kurke and Assoc.
Tulane University Center, New Orleans, Louisiana
Architect: Curtis and Davis
Plainedge High School, Plainedge, New York
Architect: Jagow and Heidelberger
Public School No. 7, Manhattan, New York
Architect: Perkins and Will
Institute of the City, Caracas, Venezuela
Johns Hopkins Hospital, Baltimore, Maryland
Harvard University, Cambridge, Massachusetts
Architect: Perry, Shaw, Hepburn and Dean
Mutual Benefit Life Insurance Co., Newark, New Jersey

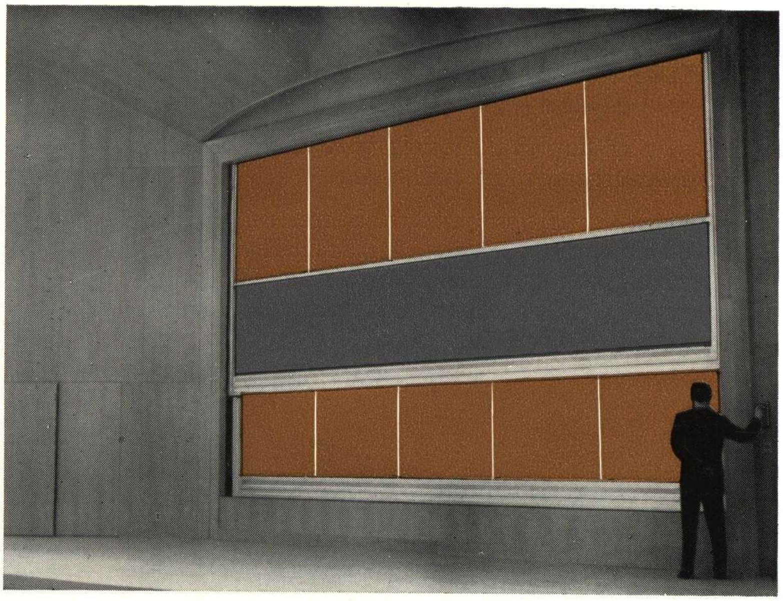

3"
1½"
aluminum tube


sliding chalkboards, corkboards or motion picture screen
aluminum chalk tray
chrome-plated steel tracks and nylon rollers


3"
1½"
corkboard
sliding boards
aluminum chalk tray

sliding and stationary

The engineering ability of New York Silicate Book Slate Co. is well illustrated by the recently completed custom installations at right:

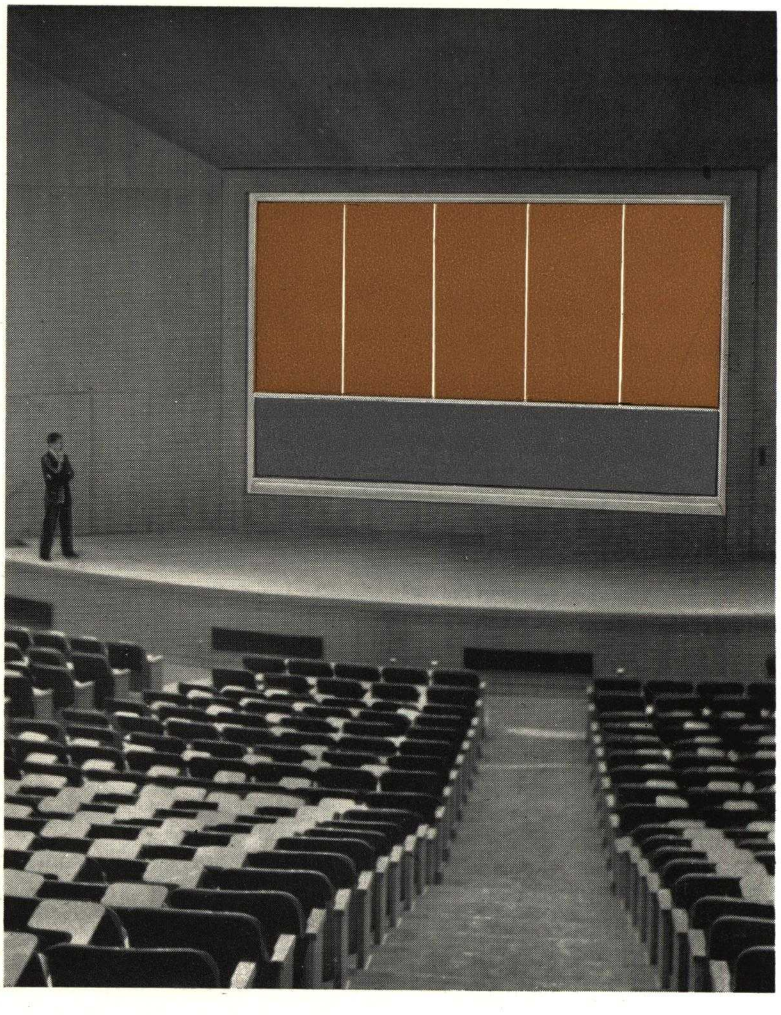


Three of these—in Thayer Hall at the United States Military Academy at West Point, New York—were the result of close cooperation with the architects, Gehron & Seltzer, and used approximately 30,000 square feet of grey Nucite chalkboard.

The fourth—in Massachusetts Institute of Technology, Cambridge, Massachusetts—was developed in cooperation with the architects, Skidmore, Owings & Merrill, New York, N. Y.

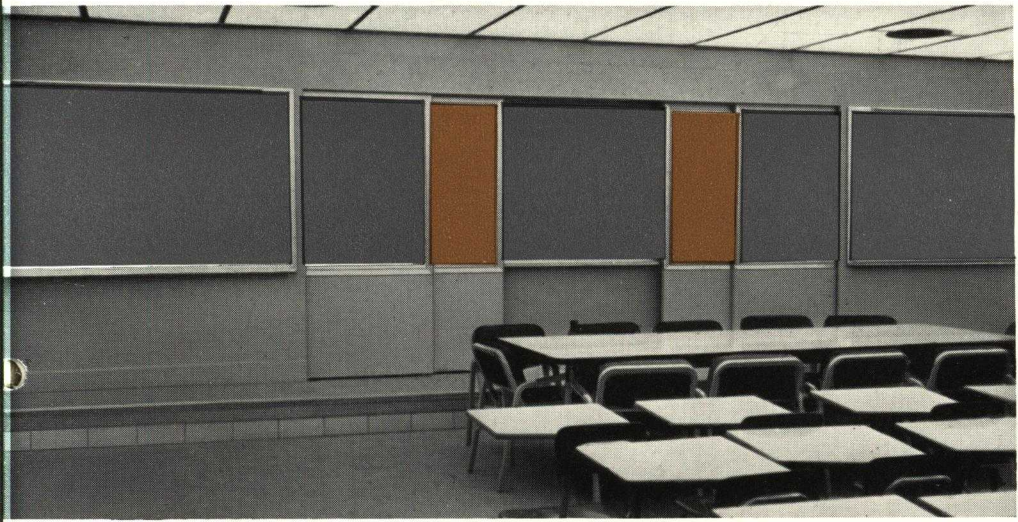
In the field of sliding chalkboards, New York Silicate Book Slate Co. has been the pioneer and consistent leader—with top engineers on the job for more than twenty-five years. Its new 90,000 square foot factory assures complete satisfaction in all types of custom fabrication and proper delivery.

Consequently, for all types of custom installations, it is suggested that New York Silicate Book Slate Co. be consulted in the early stages of the job.



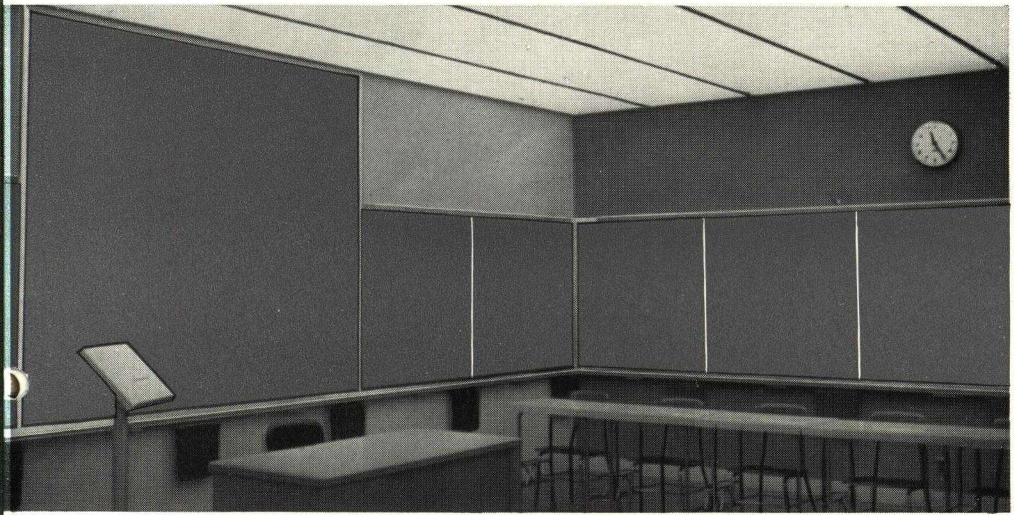
auditorium sliding boards

in auditorium at Thayer Hall, West Point . . . huge sliding combination chalkboard and cork bulletin board . . . three panels, each measuring approximately 25 by 15 feet . . . each panel raised and lowered electrically



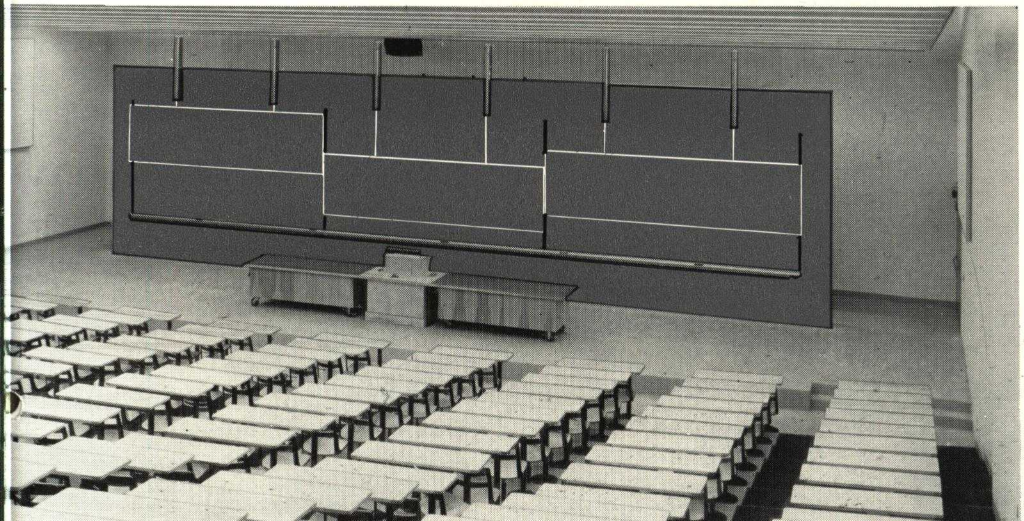
full-length sliding boards

in mathematics room . . . fixed panels of Nucite chalkboard . . . full-length, sliding panels of Nucite chalkboard and cork bulletin board . . . so precisely engineered a child can move them



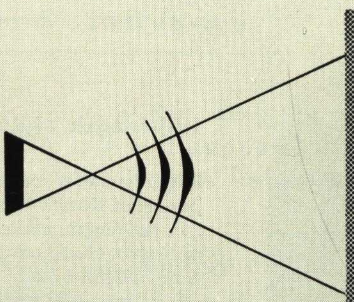
wall-to-wall chalkboards

in typical classroom in Thayer Hall at West Point . . . wall-to-wall Nucite glass chalkboards in Neatsnap aluminum framing . . . running continuously around all four walls



vertically sliding chalkboards

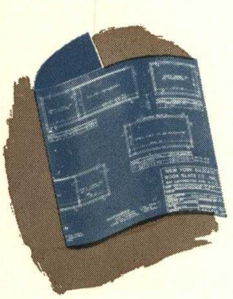
unit of three sliding panels in lecture room of Karl Taylor Compton Laboratories, Massachusetts Institute of Technology . . . each panel individually raised and lowered by a hand-operated rotating bar (below chalk tray) under 80 psi pressure . . . operation practically noiseless



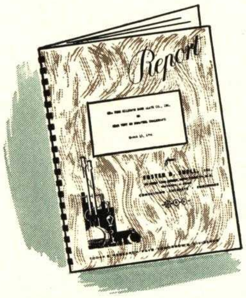
architectural advisory service

Cooperation with architects is not new to the New York Silicate Book Slate Co., Inc. For more than a generation we have been working hand-in-glove with architects in planning their classrooms. Our staff is well trained in this field and ready to consult on any project, large or small. Our line of materials is the most complete in the chalkboard industry. Contact us for samples, price information, full size drawings and specifications. All of these services are available free of charge.

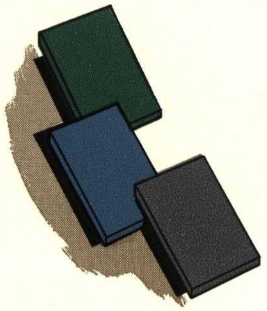
design assistance



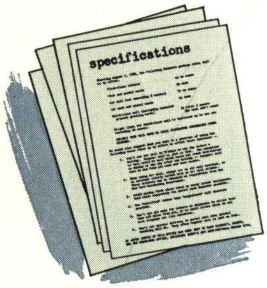
test data



samples



specifications



We have the largest and most efficient dealer organization of any company in this industry. Our representatives are in all principal cities. Contact us for the name of the one nearest you.

New York Silicate Book Slate Co., Inc.
600 Old Country Road, Garden City, New York

quality and integrity since 1865

factory: Hackensack, New Jersey
cable address: SILIBOOK, New York

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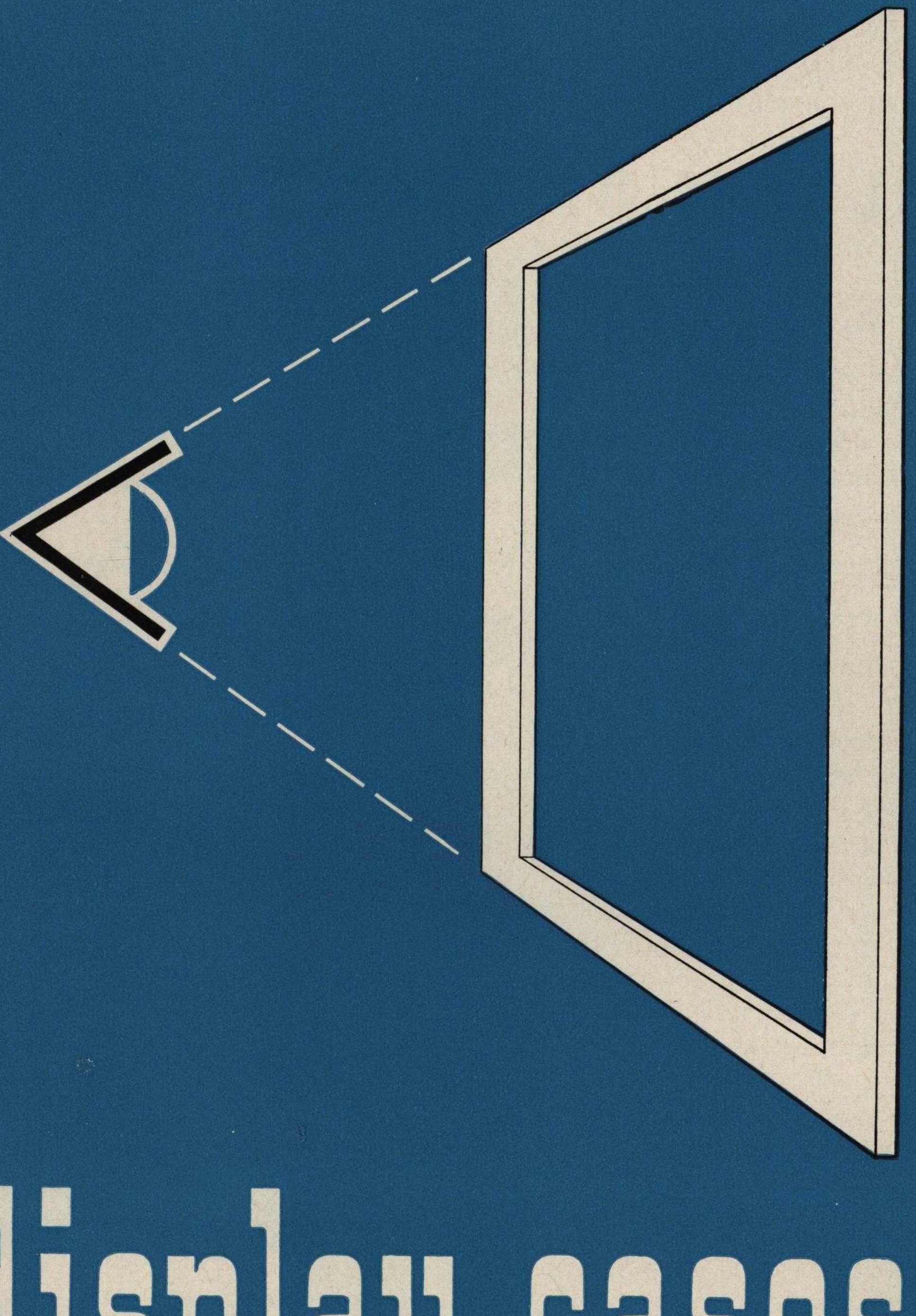


display cases

POBLOCKI and SONS COMPANY

3238 West Pierce Street Milwaukee 15, Wisconsin
Phone: MItchell 5-9300

Poblocki and Sons Company began manufacturing display, trophy and directory cases 20 years ago. The following pages represent the most complete line of cases available today.

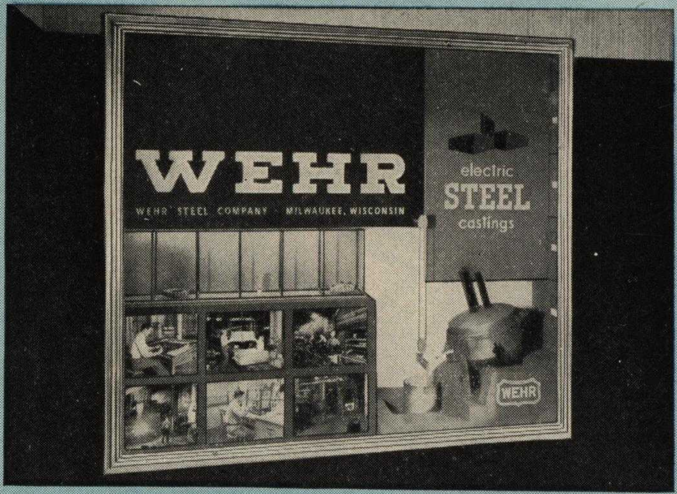
Through the years of constant contact with architects, we have determined that the following will cover most applications.

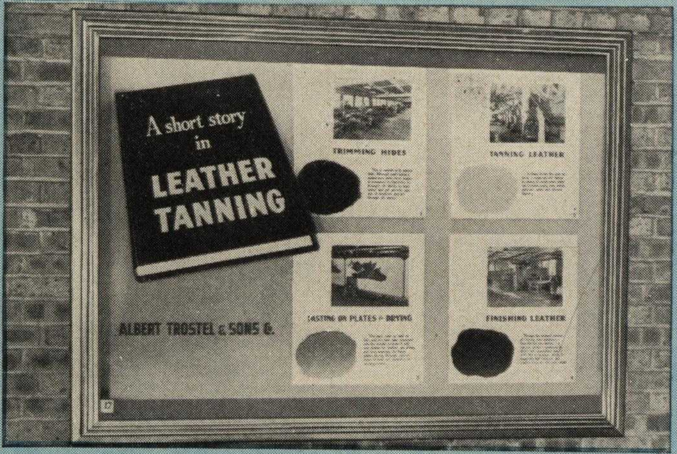
POBLOCKI DISPLAY CASES

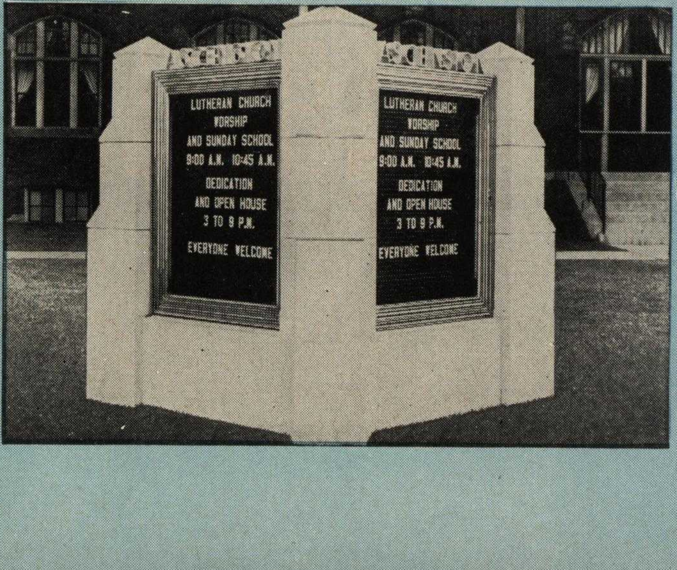
These cases are the same quality throughout. The DELUXE, PREMIER and ECON models are designed for proportionate door sizes. The CONTEMPORARY was designed for those who desire flat faced cases.

FEATURES

- All sections are heavy extruded aluminum, type 63S-T-5 (6061-T5).
- Door and frame are alumilited in natural color or various colors.
- Corners of doors and frames are reinforced with aluminum angles for alignment.
- Doors are furnished with tumbler locks.
- Backs of plywood, cork or grooved backgrounds for changeable letters.
- Outdoor installations have a special lip furnished to prevent water seepage into the case.
- Doors only, without frames can be furnished.


WEHR
WEHR STEEL COMPANY · MILWAUKEE, WISCONSIN
electric STEEL castings
WEHR


A short story in LEATHER TANNING
TRIMMING HIDES
TANNING LEATHER
LASTING ON PLATES — DRYING
FINISHING LEATHER
ALBERT TROSTEL & SONS Co.


LUTHERAN CHURCH
WORSHIP
AND SUNDAY SCHOOL
9:00 A.M. 10:45 A.M.
DEDICATION
AND OPEN HOUSE
3 TO 9 P.M.
EVERYONE WELCOME
LUTHERAN CHURCH
WORSHIP
AND SUNDAY SCHOOL
9:00 A.M. 10:45 A.M.
DEDICATION
AND OPEN HOUSE
3 TO 9 P.M.
EVERYONE WELCOME

Top

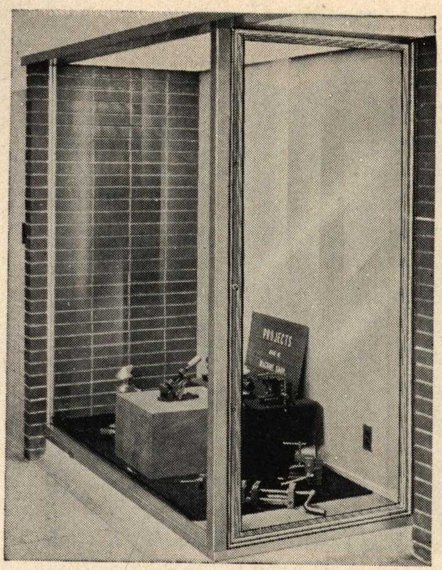
Milwaukee County Air Terminal, Milwaukee, Wisconsin
John Messmer, Architect

Center

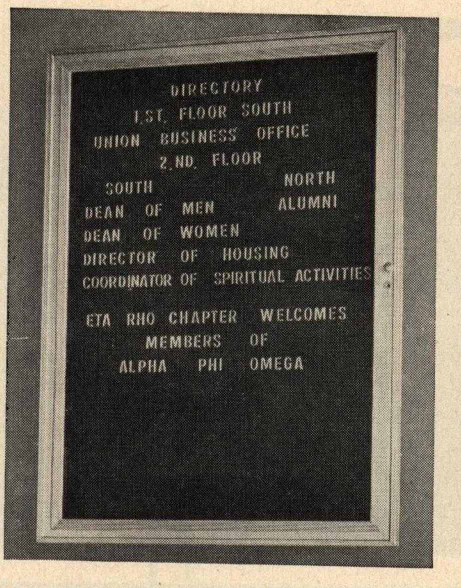
Milwaukee County Stadium, Milwaukee, Wisconsin
The Osborn Engineering Company

Bottom

Ascension Lutheran Church, Milwaukee, Wisconsin
Ebling, Plunkett & Keymar, Architects



Milwaukee Vocational School
Milwaukee, Wisconsin
Grassold-Johnson & Associates, Architects



Marquette University Library
Milwaukee, Wisconsin
Brimeyer, Grellinger, Rose, Architects

Franklin Elementary School
Appleton, Wisconsin
Maurey Lee Allen, Architect

special assembly custom service

We have a complete metal fabricating shop. We furnish fabricated stainless steel, bronze, porcelain enamel or sheet metal letters, insignia, etc. as well as cast bronze or aluminum letters.

Special cases of stainless steel or bronze can be made in almost any design and consequently, are not shown on the following pages.

The details can be used in different ways, for example page 7, P-409 has Econ and Premier frame with sliding glass, this can also be used in Deluxe or Contemporary with any depth. Another example, page 6, P-414, the elbow catch can be used in any type of multiple case, recessed or surface.

Page 6, details D-313 and P-410 and E-509—This extra moulding is added for those who desire extra width. It can be used for cases with lighting on three or four sides. It is called Imperial. This is not available in Contemporary models.

All cases are made to specified sizes. Standard depths shown on pages 4 and 5. Greater depths shown on pages 6 and 7.

LIGHTING

Fluorescent lighting is available in the DELUXE, ECON, or PREMIER cases which are 4″ or deeper and the CONTEMPORARY cases 3½″ or deeper. When only the frame and door are used such as P-411, lighting is furnished separately. See ½ full size drawing P-411, page 6.

SHELVING

Standards and brackets can be furnished in the deeper cases. There are the C type standard for plywood background and T type which overlaps the cork background. Knife brackets are available only in these sizes, 4″, 5″, 6″ and all even sizes up to and including 26″. These are generally furnished in satin finish chrome.

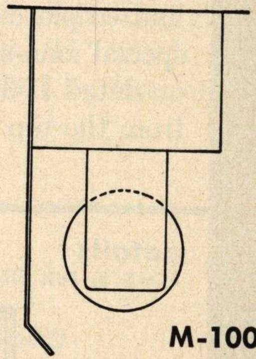
BACKGROUNDS

Grooved backgrounds for the reception of changeable letters in sizes, ¼″, ⅜″, ½″, ¾″, 1½″, and 2″. These letters are molded die cut plastic or cast aluminum available up to only 1½″.

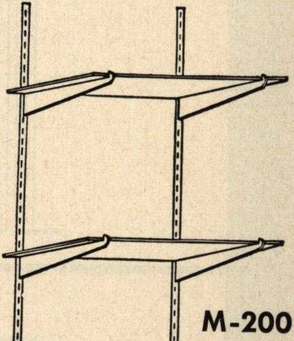
Felt backgrounds are used for indoor installations and non-mildewing Koroseal for outdoor.

Aluminum backgrounds, with baked enamel finish are generally used in church cases. The letters are the hook on type and also are aluminum with black or white baked enamel finish.

Cork backgrounds are also available.



M-100

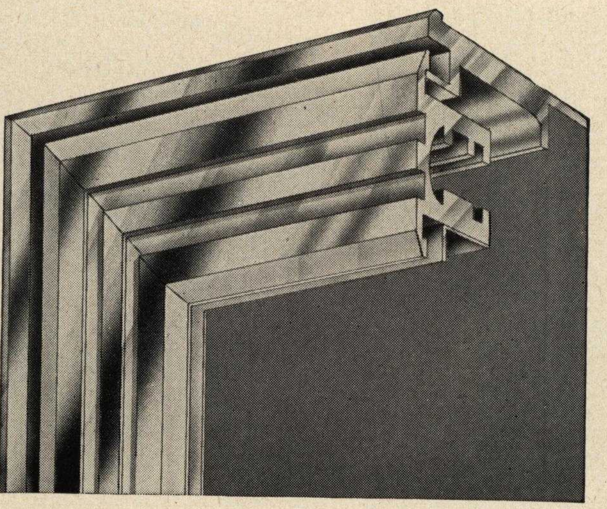


M-200

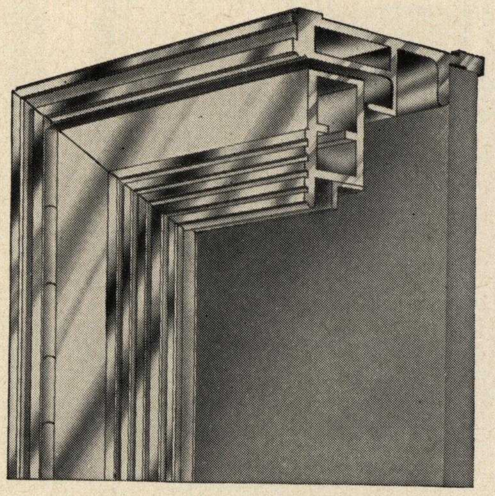
M-300

type

deluxe



premier



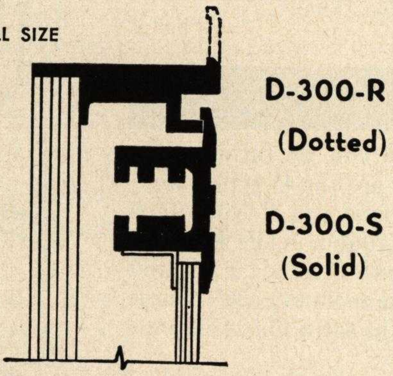
features

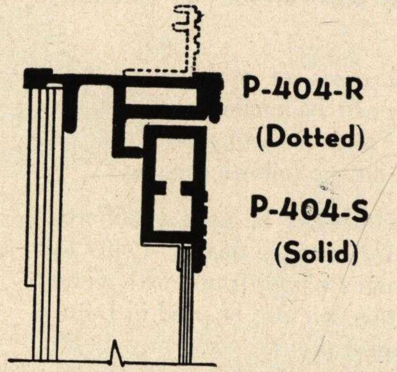
The DELUXE model is designed for extra heavy duty which affords practically unlimited plate glass openings. Equipped with special non-sag invisible hinges as shown on detail D-306, page 7. Doors can be hung from the top or side.

The PREMIER model is designed for glass openings not to exceed 40″ wide x 96″ high equipped with full door height piano hinge. This same model can be had with glass opening 40″ high x 96″ wide by installing the piano hinge, horizontally at top of door that will swing open from bottom.

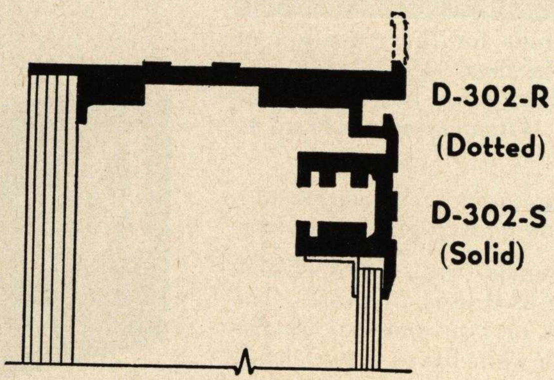
shallow case

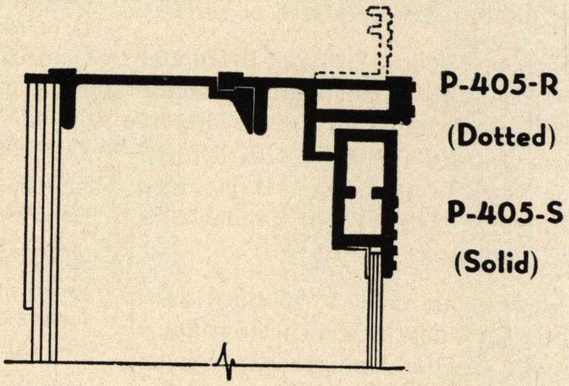
details
SCALE: ½ FULL SIZE


D-300-R
(Dotted)
D-300-S
(Solid)

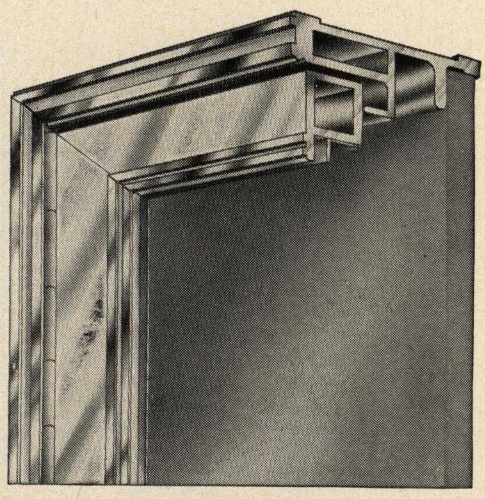

P-404-R
(Dotted)
P-404-S
(Solid)

deep case

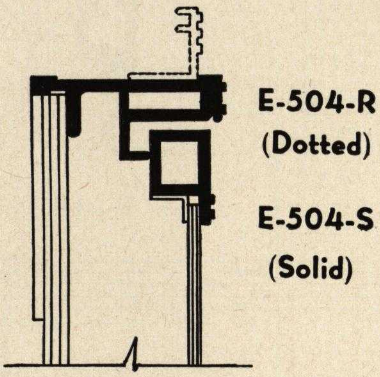

D-302-R
(Dotted)
D-302-S
(Solid)

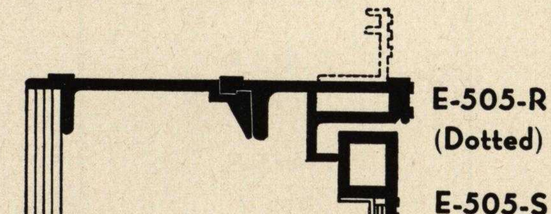

P-405-R
(Dotted)
P-405-S
(Solid)

econ

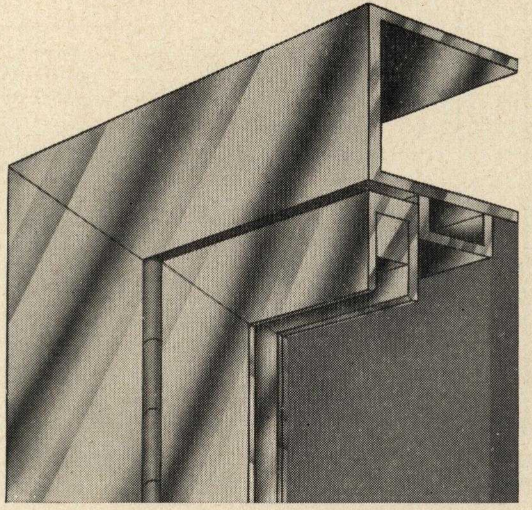


The ECON model which is a smaller door frame modeled after the Premier is designed for glass openings not to exceed 30″ wide x 96″ high, equipped with full door height piano hinge. This same model can be had with glass opening 30″ high x 96″ wide with continuous piano hinge at the top.

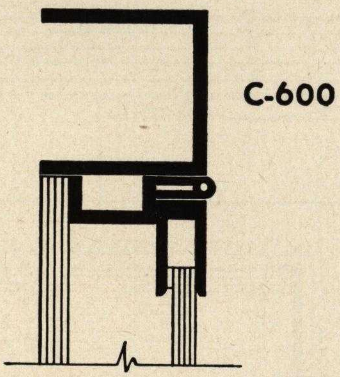


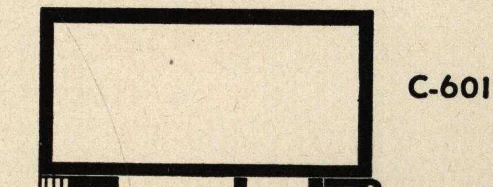


contemporary



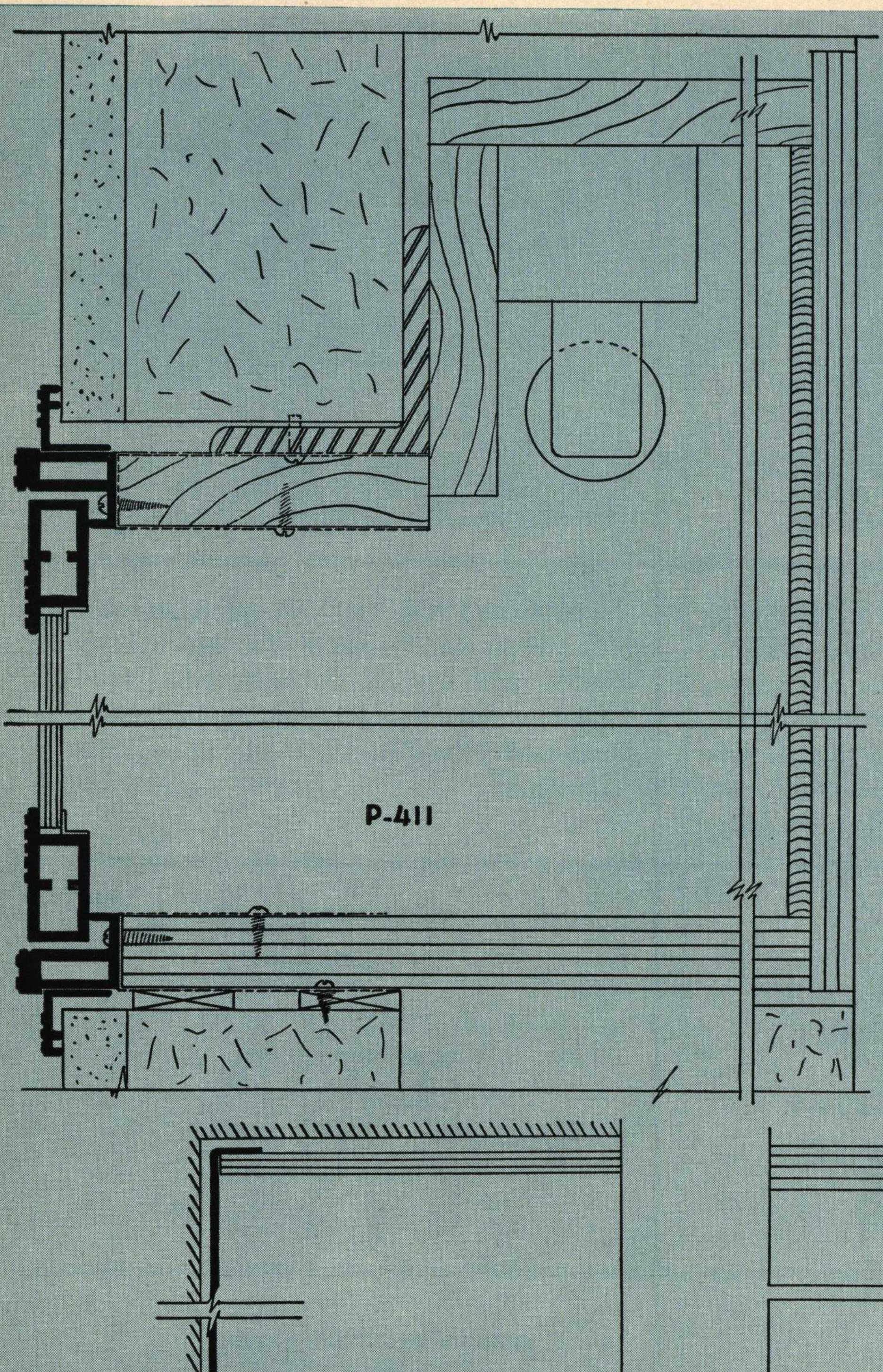
The CONTEMPORARY model is designed for those who desire a case which is smooth faced and free of flutes or ribs. The glass openings not to exceed 35″ x 75″ which can be used either in the vertical or horizontal position.



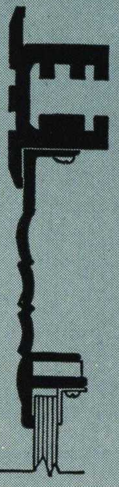


special details SCALE: ½ FULL SIZE

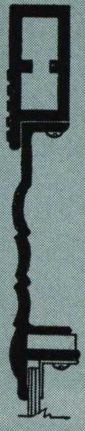
additional special detail sheet available upon request



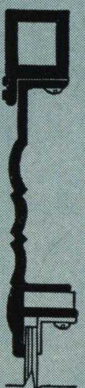
P-411



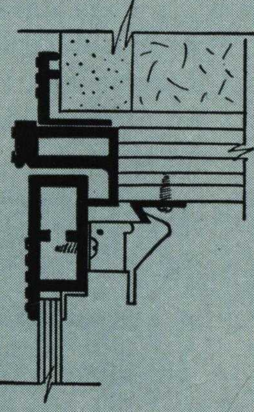
D-313



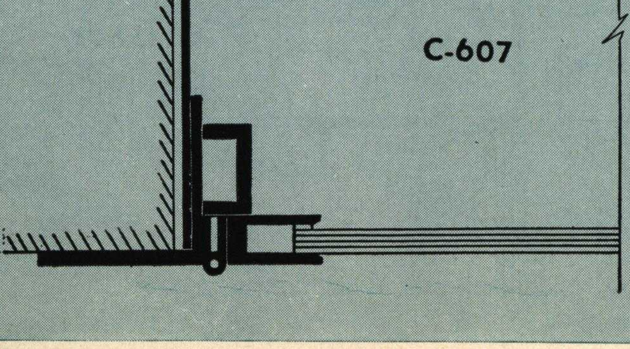
P-410



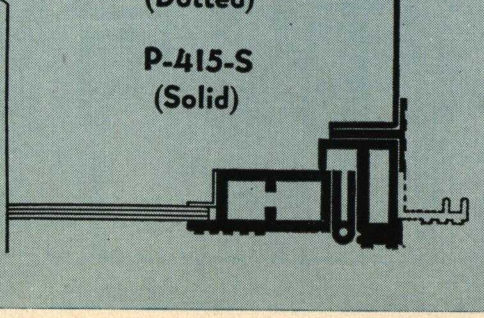
E-509



P-414

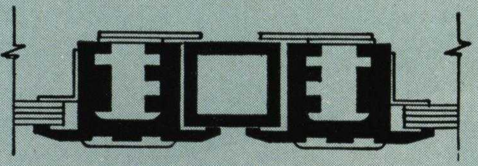


C-607

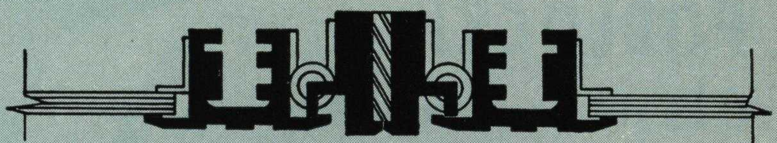


P-415-R
(Dotted)

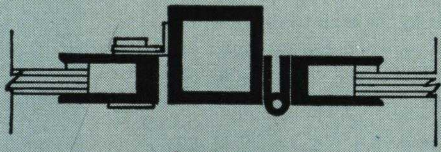
P-415-S
(Solid)



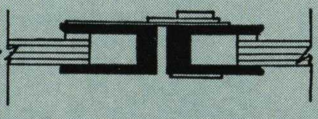
D310



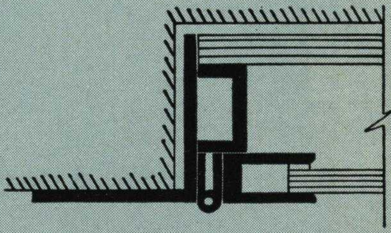
D306



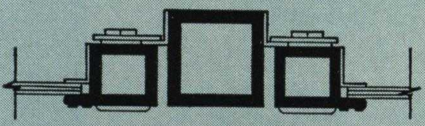
C-602



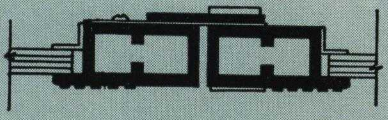
C-603



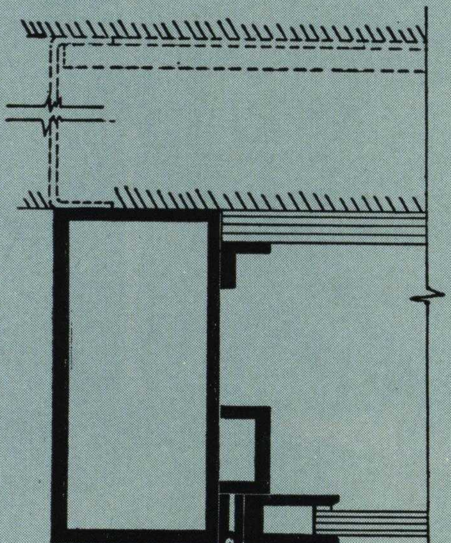
C-604



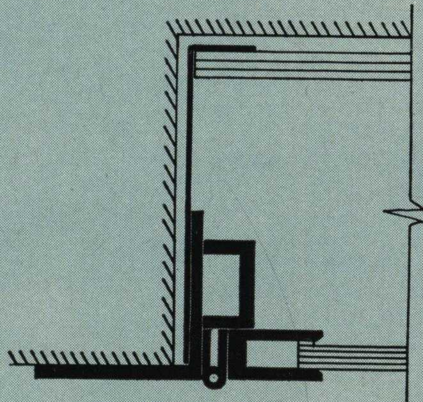
E-501



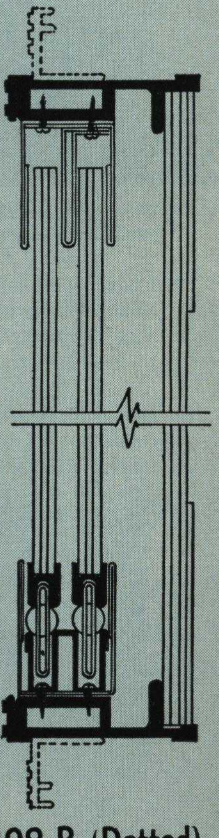
P-413



C-605



C-606



P-409-R (Dotted)
P-409-S (Solid)

POBLOCKI

display cases

specifications

1. All extrusions are of 63S-T5 (6061-T5) aluminum, alumilited for at least 30 minutes.

2. Extrusions shall be buffed before alumiliting to avoid all scratches, etc.

3. Doors shall be so constructed as not to rack and so that the glass is not used to keep door square and in line. Corners are to be braced by means of hidden aluminum angles or other like methods.

4. No screws shall be visible when door is closed.

5. All screws used throughout the case shall be plated with cadmium or like material.

6. Locks used shall be of the tumbler type and when two or more cases are provided on one job, the locks shall be keyed alike. Locks which can be opened with any object except key provided will not be accepted.

7. Glass used in door in thickness and type as specified in plans.

8. Invisible hinges are to be used in only the DELUXE cases. Continuous alumilited aluminum piano hinge with stainless steel pin to be used in all other models.

9. Frame shall be constructed as to have a continuous C shaped channel or like device behind door to prevent rain or snow from blowing into the case and to prevent light leaks.

10. Invisible venting shall be provided to prevent condensation. Cases shall be made dust tight by means of felt gasket where specified on the print. Ventilation to prevent condensation will then be provided as shown on print.

11. Frames shall be assembled by means of invisible aluminum angles, gussets or like material. No knocked down or unassembled cases will be accepted. Backs shall be exterior plywood, S1S grade.

12. Cases shall be caulked to the wall to make watertight and to close up space between frame and wall, outdoor cases shall have drip lip to prevent water from seeping into the case (when so specified).

13. Sliding door cases shall be complete with standard sliding door hardware such as Knape and Vogt or equal. A standard type of glass sliding door lock shall be provided.

14. Glass shelves shall be in thickness and type as shown on details and specifications. All visible edges shall be polished. All other edges swiped to prevent injury.

15. *Illuminated Cases:* Illumination shall be fluorescent lighting as shown on prints and specifications. All illumination shall be entirely connected together on complete cases so that all that is required is for the electrician to connect to wires provided, and install the lamps. Baffles shall be provided as shown. An extra aluminum extrusion when so indicated shall be provided on all sides to shield the light from direct view.

    All fluorescent lamps shall be provided by owners.

16. Cork backgrounds when so specified are of the bulletin board grade self-sealing standard tan color to be furnished unless otherwise specified.

17. Cases are to be of surface or recessed, illuminated or non-illuminated type as specified or as shown on prints.

POBLOCKI AND SONS COMPANY
3238 West Pierce Street
Milwaukee 15, Wisconsin

Phone: MItchell 5-9300

Collect calls will be accepted from **ARCHITECTS** who have any questions.

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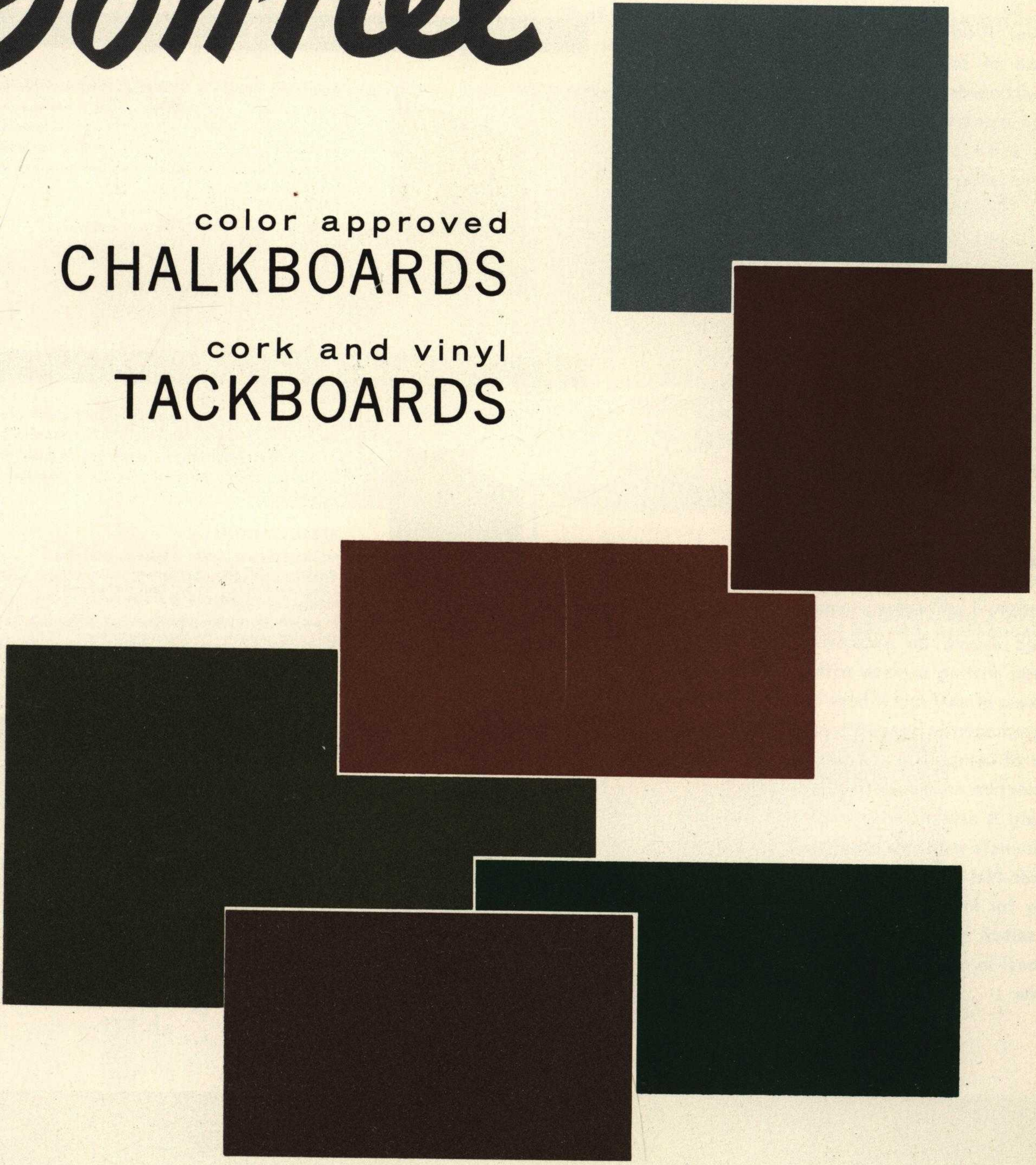
Son-Nel

color approved
CHALKBOARDS

cork and vinyl
TACKBOARDS



Son-Nel **FIRST IN COLOR! FIRST IN QUALITY!**

SAGE GREEN

MAUVE BROWN

CORAL

SON

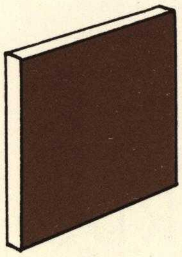
FIRST IN COLOR!

Son-Nel Products Company pioneered the use of scientific, eye-pleasing color in chalkboards, offering premium quality chalkboards in six laboratory tested shades at no extra cost. Son-Nel's colors were selected after thorough research by the School Planning Division, California State Department of Education. A glance shows how they adapt ideally to contemporary visual education techniques. The vital reflectance factor (Son-Nel guarantees a maximum of 22%!) is well within limits set by experts to assure freedom from glare. Custom workmanship produces equipment that makes Son-Nel the ***first choice*** of educational institutions everywhere.

FIRST IN QUALITY!

Son-Nel's painstaking production techniques assure an exceptionally close-grained writing surface with a ***minimum*** thickness of .007 inch. These quality finishes are permanently bonded to three different types of composition backing, for a range of selection to meet specific needs. Each backing is ***sealed with asphaltic primer*** to eliminate moisture absorption and warp. All Son-Nel chalkboards are pre-chalked, ready for immediate use. Whichever line you select, you are assured of obtaining the best in quality equipment for lifetime service.

PREMIER BOARD

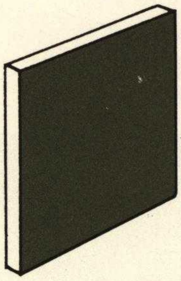


Son-Nel's finest—a virtually indestructible base of Portland cement and asbestos fibers assures a lifetime of service even in severe climatic environments. Combined with Son-Nel's velvet smooth writing surface, this makes Premier Board the ideal specification, anywhere!

SPECIFICATIONS

Writing surface—.007" minimum thickness
Backing—3/16" thick, cement asbestos sheets
Lengths—4' to 8', in full-foot increments
Widths—3', 3½', 4'
Weight—2 lbs. per sq. ft.
Shipping weight—2¼ lbs. per sq. ft.

CALSLATE



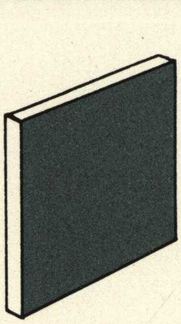
Durability and economy! Son-Nel's close grained writing surface is bonded to tough ¼" masonite-type backing (wood fiber). Extremely resistant to heat and moisture, Calslate yields long dependable service for lifetime economy.

SPECIFICATIONS

Writing surface—.007" minimum thickness
Backing —¼" thick hardboard
Lengths—4' to 12', in full-foot increments
Widths—3', 3½', 4'
Weight—1¼ lbs. per sq. ft.
Shipping weight—1½ lbs. per sq. ft.

NOTE: Also made in ½" thickness with tongue and groove joints; weight, 2½ lbs. per sq. ft.; shipping weight, 2¾ lbs. per sq. ft.

FIBRASLATE



Performance proved! Through years of rugged use, Fibraslate's economical hardboard backing of compacted wood fibers has proved its resistance to dents, cracks, tack holes, etc. The premium writing surface is identical to that on *all* Son-Nel chalkboards.

SPECIFICATIONS

Writing surface—.007" minimum thickness
Backing—.22" thick, wood fiber hardboard
Lengths—4' to 12', in full-foot increments
Widths—3', 3½', 4'
Weight—1 lb. per sq. ft.
Shipping weight—1¼ lbs. per sq. ft.

SON-NEL PORCELAIN STEEL CHALKBOARDS

Lightweight, *balanced* panels of porcelain enameled steel provide extremely durable writing surfaces that are impervious to acids, greases, solvents, and are scratch and impact resistant. Son-Nel Porcelain Steel Boards are available in *eight* fadeproof colors in units up to 16 feet long. Maximum reflectance is only 20%, well within recommended standards.

WRITE FOR FULL DETAILS

SON-NEL NuVICTORY*—Porcelain enameled steel chalkboard laminated to ⅜" Upson board, with porcelain steel backing sheet. Up to 4' x 16' in one piece. Can be applied to wall without adhesives.

SON-NEL MIRAWAL* CHALKBOARD—Laminated to ¼" plywood with rust-resistant metal backing sheet. Up to 4' x 12'.

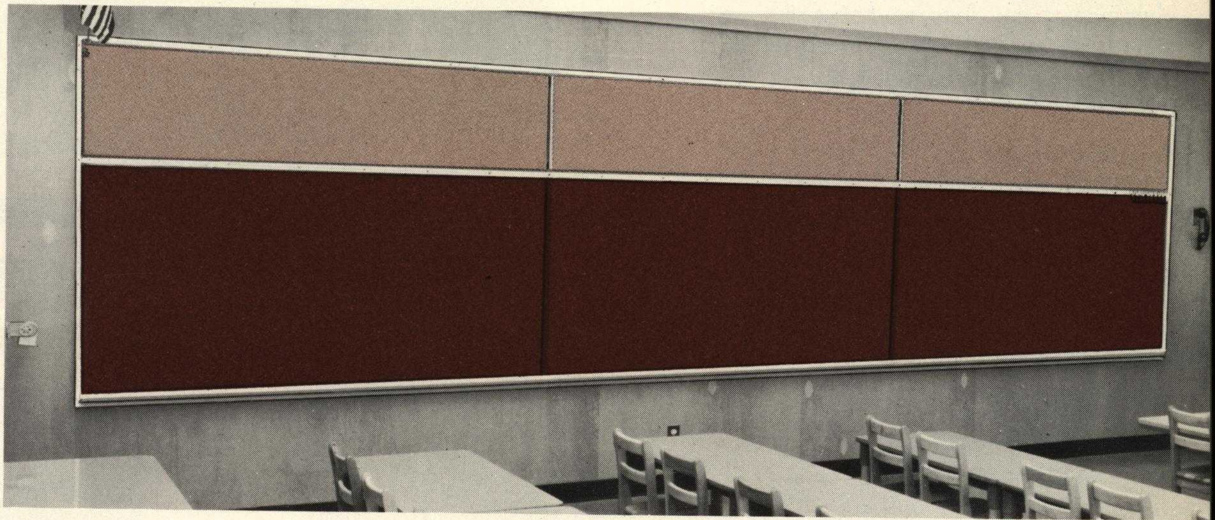
*Loxit Mirawal Licensee

BLUE SPRUCE GREEN RUSSET BROWN

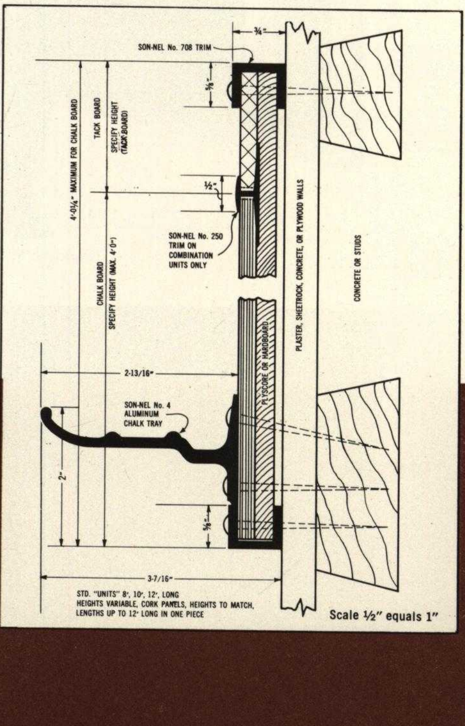
NEL *Chalkboards*

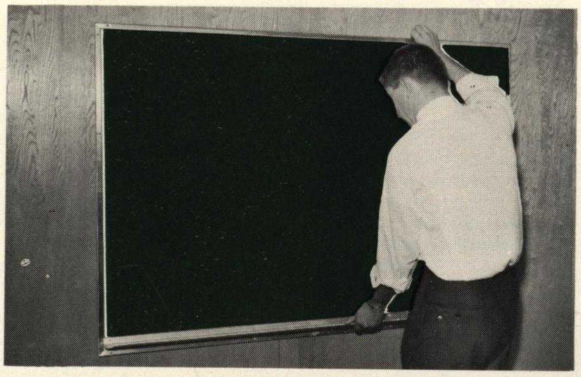
Son-Nel PERMA-PANELS

Prefabricated, movable units for versatility!
(For permanent, glued-on units, see page 5.)



Chalkboards, tackboards, pegboards—either alone or in combination—are prefabricated to your specifications and securely framed with extruded aluminum trim. These integral units are quickly and easily fastened to any wall with screws, toggle bolts, or rawl plugs—or Perma-Panels may be furnished with wall-brackets for maximum portability! Combination units are laminated to plywood backing, prefabricated in lengths up to 24 feet.


SON-NEL No. 708 TRIM
¾"
⅝"
4'-0¼" MAXIMUM FOR CHALK BOARD
TACK BOARD
SPECIFY HEIGHT (TACK BOARD)
½"
SON-NEL No. 250 TRIM ON COMBINATION UNITS ONLY
CHALK BOARD
SPECIFY HEIGHT (MAX. 4'0")
PLYSCORE OR HARDBOARD
PLASTER, SHEETROCK, CONCRETE, OR PLYWOOD WALLS
CONCRETE OR STUDS
2-13/16"
SON-NEL No. 4 ALUMINUM CHALK TRAY
2"
⅝"
3-7/16"
STD. "UNITS" 8', 10', 12', LONG
HEIGHTS VARIABLE, CORK PANELS, HEIGHTS TO MATCH,
LENGTHS UP TO 12' LONG IN ONE PIECE
Scale ½" equals 1"



Perma-Panels may be small or large as desired.

TYPICAL ARCHITECTS' SPECIFICATIONS

Chalkboard units shall be (CALSLATE, FIBRASLATE, PREMIER Board) Perma-Panels as manufactured by SON-NEL PRODUCTS CO. Colors shall be (specify color desired). The chalkboards shall be pressure laminated to hardboard or plywood backing, framed with #708 extruded aluminum channel molding, and have #4 extruded aluminum chalk and eraser tray across the bottom, as detailed. Ends of tray shall be rounded. **Tackboard units** shall be (¼-inch bulletin board cork) or (vinyl plastic); specify color desired; laminated to backing and framed with #708 aluminum molding. Chalkboard and corkboard units shall be mounted on walls with Phillips oval head wood screws @ 24 inches O.C., as detailed. On plaster and concrete walls, the general contractor will install ground strips to fit panel size. **Pegboard units** are to be ⅛-inch tempered, perforated board (specify spacing of holes) 1-inch centers are standard.

SLIDING PANELS *feather touch action*

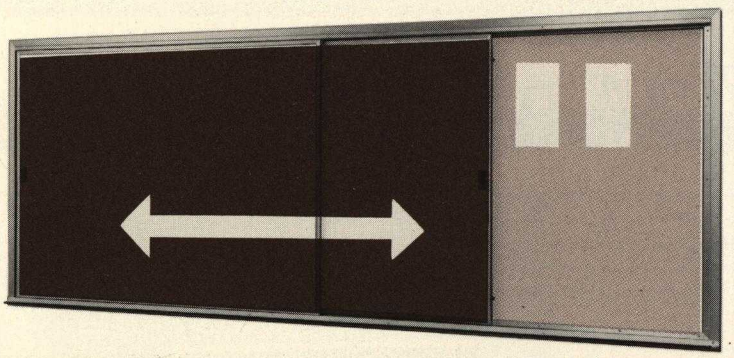
CHALKBOARDS and/or TACKBOARDS

Son-Nel Sliding Combination Units provide efficient double-duty convenience—horizontal or vertical units that are precision engineered for smooth operation. Combinations are built to specification, featuring chalkboard, tackboard, pegboard or motion picture screen units with 1, 2, 3 or more sliding panels *in addition* to the fixed wall panel. A single area of wall can in this way provide greatly increased working potential.

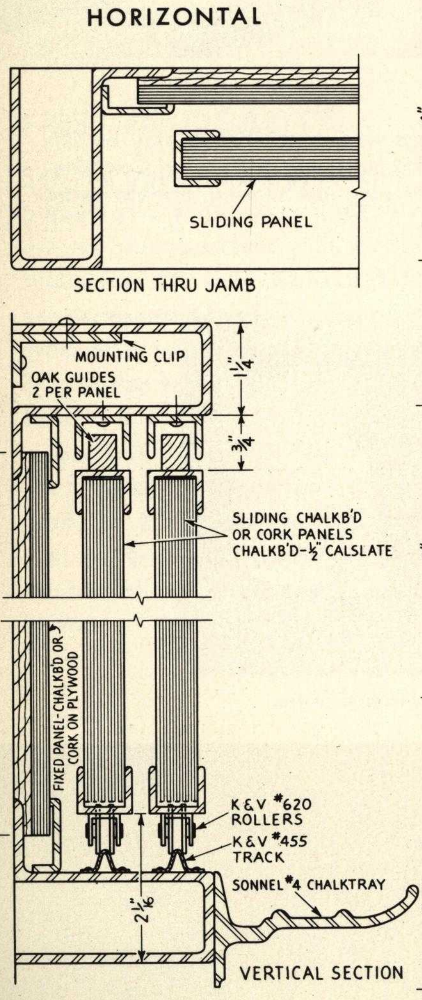
Son-Nel Sliding Units are fitted with all aluminum trim; fixtures are cadmium plated. ***Horizontal Sliding Panels*** will be constructed in any size required.

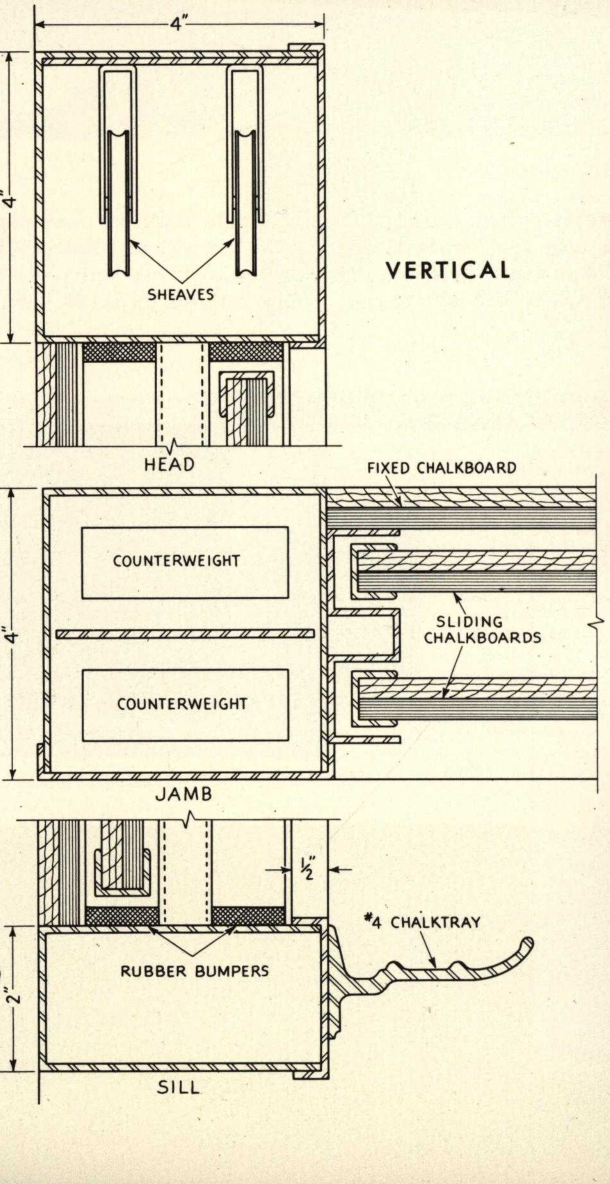
Vertical Sliding Panels are available in widths up to 8-feet, with lead counterweights and roller bearing sheaves for effortless movement. Chalkboards may be Premier Board, Calslate, Fibraslate or steel; tackboards may be Son-Nel Cork or Vinyl.

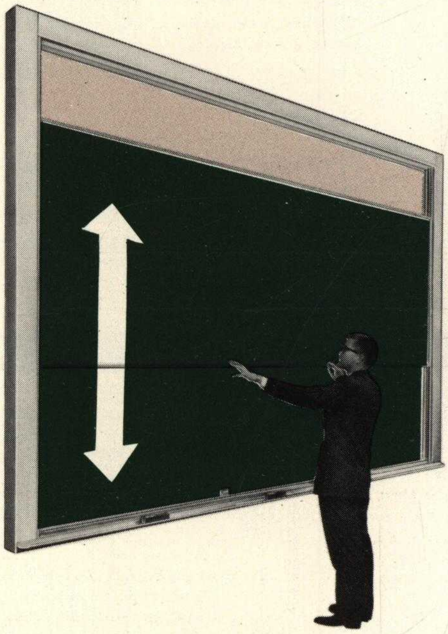
SPECIAL SON-NEL T.V. UNITS are available to your specifications with non-glare anodized aluminum trim. Compact sliding units are designed for educational and closed-circuit television productions where ease of operation and high visual impact is a must.



S O N - N E L


HORIZONTAL
SLIDING PANEL
SECTION THRU JAMB
MOUNTING CLIP
OAK GUIDES 2 PER PANEL
1¼"
¾"
SLIDING CHALKB'D OR CORK PANELS CHALKB'D-½" CALSLATE
FIXED PANEL-CHALKBD OR CORK ON PLYWOOD
K&V #620 ROLLERS
K&V #455 TRACK
SONNEL #4 CHALKTRAY
2 1/16"
VERTICAL SECTION


4"
4"
SHEAVES
HEAD
VERTICAL
FIXED CHALKBOARD
COUNTERWEIGHT
4"
SLIDING CHALKBOARDS
COUNTERWEIGHT
JAMB
½"
#4 CHALKTRAY
RUBBER BUMPERS
2"
SILL



SON-NEL ANODIZED EXTRUDED ALUMINUM TRIM—Son-Nel extruded aluminum trim features exceptionally "slim design" to avoid unnecessary bulk and to increase usable board surface. Chalktrays are rugged, actually "childproof" to withstand the weight and rough usage encountered in school rooms. Precision-made in various sizes and styles. Son-Nel trim adds the finishing touch to quality Son-Nel chalkboard installations. See detail drawings on pages 3, 4 and 5 for typical applications.

Son-Nel PERMANENT GLUED-ON INSTALLATIONS

CHALKBOARDS and TACKBOARDS

Any of the three types of Son-Nel chalkboards, or Son-Nel cork or vinyl tackboards, may be permanently installed on virtually any wall surface. Cement may be any proven waterproof type, such as the heaviest acoustical tile cement.

CHALKBOARD: Where several pieces adjoin each other, Son-Nel permanent joint strips form an inconspicuous bond. Son-Nel aluminum trim, of exceptionally light and compact design, may be installed after boards are set.

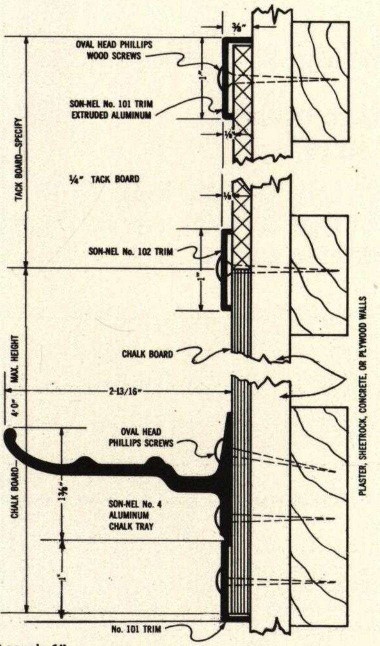
TACKBOARD: Corkboard (1/4" mat) may be applied directly to the wall with standard linoleum paste, and then aluminum trim installed. Vinyl is to be mounted on some other backing before application to wall. If supplementary backing is used (for vinyl or cork) then chalkboard mounting procedure should be followed.

TYPICAL ARCHITECTS' SPECIFICATIONS

Chalkboards shall be (CALSLATE, FIBRASLATE, PREMIER Board) as manufactured by SON-NEL PRODUCTS CO. Colors shall be (specify colors desired). All lengths to 12 feet (CALSLATE and FIBRASLATE) or to 8 feet (PREMIER Board) shall be in one piece. Longer installations shall be in two or more pieces as required, joined together with an aluminum H joint strip, colored to match the chalkboard. Chalkboards shall be spot cemented to walls with an approved waterproof adhesive. **Tackboards** shall be (1/4-inch bulletin board cork) or (vinyl plastic); specify color desired; firmly cemented to the walls. Aluminum trim and chalk tray shall be installed by the chalkboard sub-contractor. Ends of tray shall be rounded.

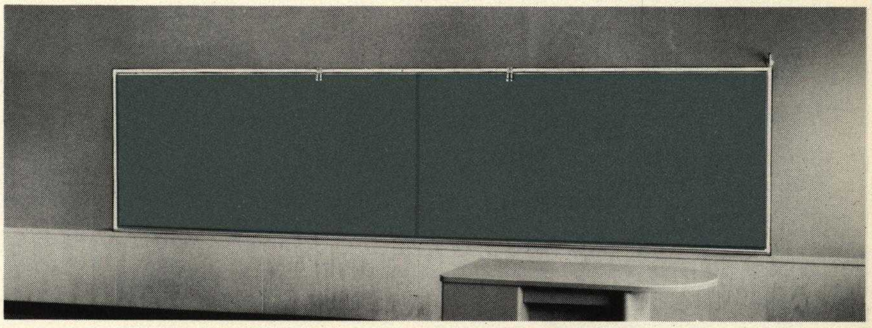
Where all-wood trim is specified, this wood trim shall be furnished and installed by the general contractor.

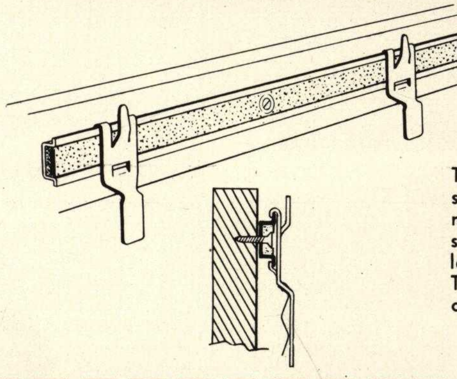
CHALKBOARDS



3/8"
OVAL HEAD PHILLIPS WOOD SCREWS
1"
SON-NEL No. 101 TRIM EXTRUDED ALUMINUM
1/8"
TACK BOARD—SPECIFY
1/4" TACK BOARD
1/8"
SON-NEL No. 102 TRIM
1"
CHALK BOARD
4'0" MAX. HEIGHT
2-13/16"
OVAL HEAD PHILLIPS SCREWS
CHALK BOARD
1 3/8"
SON-NEL No. 4 ALUMINUM CHALK TRAY
1"
No. 101 TRIM
PLASTER, SHEETROCK, CONCRETE, OR PLYWOOD WALLS

Scale ½" equals 1"

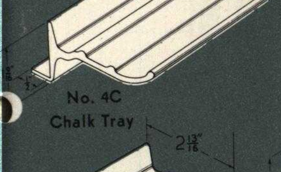




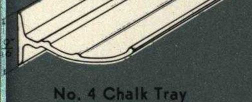
Son-Nel

MAP and DISPLAY RAIL

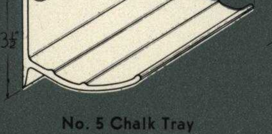
This "slim-trim" extruded aluminum rail is easily installed to provide versatile facilities for display of maps, charts, pictures, etc. Clip-type spring hooks slide smoothly to any position. Rail features full length cork pinning strip as standard equipment. TWO SIZES AVAILABLE: 1" wide and 2" wide, overall widths.



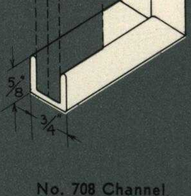
No. 4C Chalk Tray



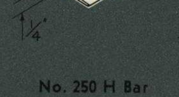
No. 4 Chalk Tray



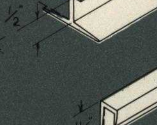
No. 5 Chalk Tray



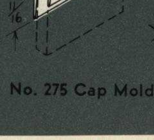
No. 708 Channel



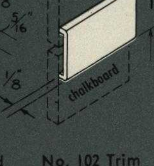
No. 250 H Bar



No. 500 H Bar

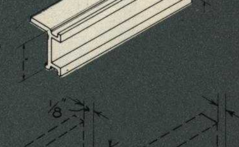


No. 275 Cap Mold

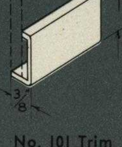


3/16"
cork
1"
chalkboard
1/8"

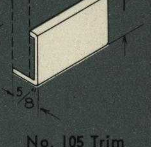
No. 102 Trim



No. 1C Map Rail



No. 101 Trim

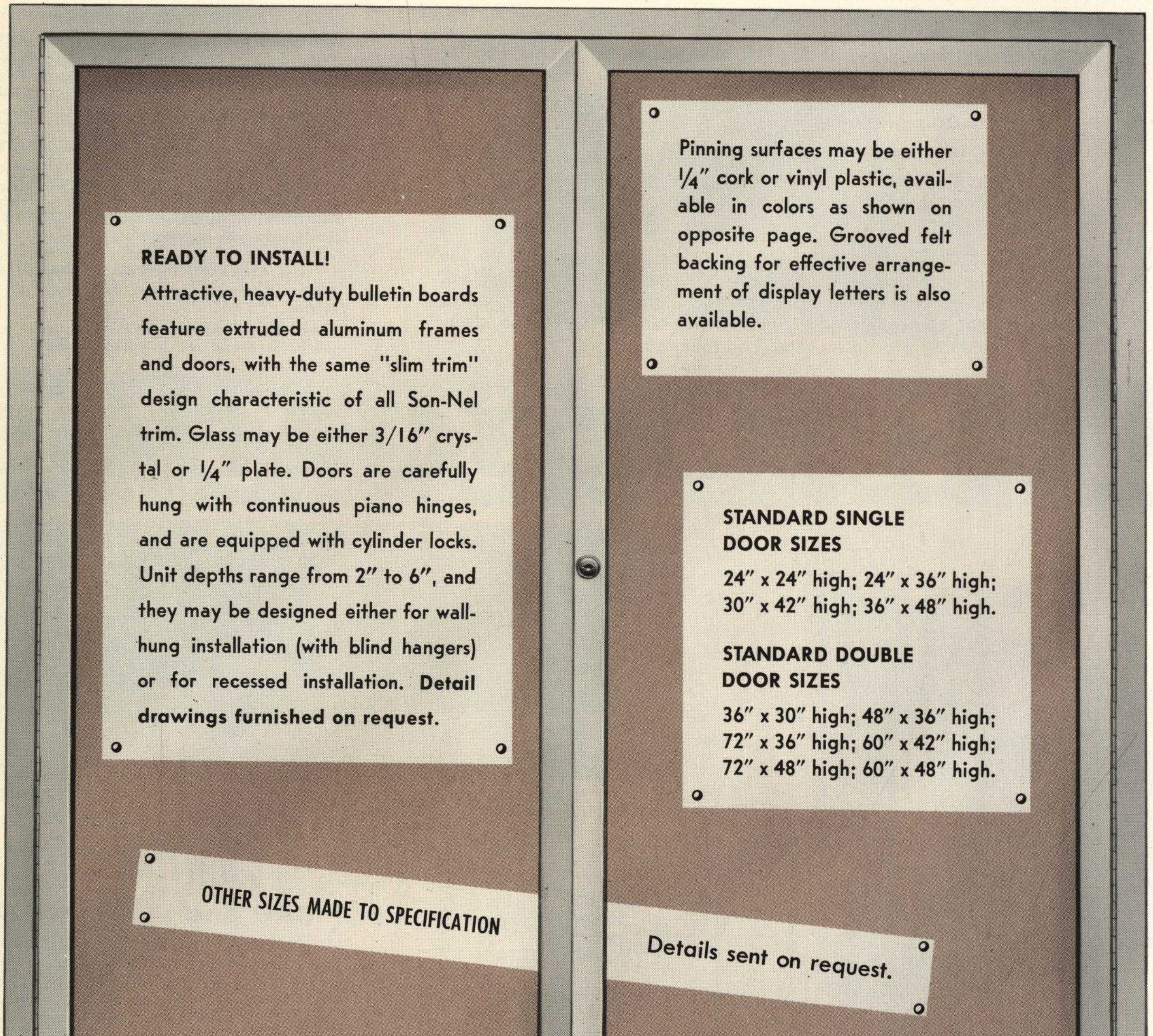


No. 105 Trim

Son-Nel

TACKBOARDS

GLASS ENCLOSED BULLETIN BOARDS



READY TO INSTALL!
Attractive, heavy-duty bulletin boards feature extruded aluminum frames and doors, with the same "slim trim" design characteristic of all Son-Nel trim. Glass may be either 3/16" crystal or 1/4" plate. Doors are carefully hung with continuous piano hinges, and are equipped with cylinder locks. Unit depths range from 2" to 6", and they may be designed either for wall-hung installation (with blind hangers) or for recessed installation. **Detail drawings furnished on request.**

Pinning surfaces may be either 1/4" cork or vinyl plastic, available in colors as shown on opposite page. Grooved felt backing for effective arrangement of display letters is also available.

STANDARD SINGLE DOOR SIZES

24" x 24" high; 24" x 36" high; 30" x 42" high; 36" x 48" high.

STANDARD DOUBLE DOOR SIZES

36" x 30" high; 48" x 36" high; 72" x 36" high; 60" x 42" high; 72" x 48" high; 60" x 48" high.

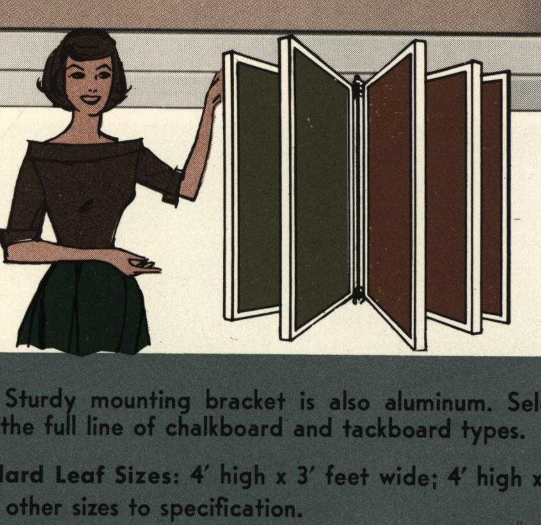
OTHER SIZES MADE TO SPECIFICATION

Details sent on request.

Son-Nel

SWING-LEAF UNITS

CHALKBOARD and/or TACKBOARD



Each carefully balanced leaf of this Son-Nel swinging unit provides a double-faced display surface for chalkboard-tackboard combinations. As many as six leaves can be mounted, each providing a "feather-touch" full 180° swing, and each framed in Son-Nel slim design extruded aluminum trim. Sturdy mounting bracket is also aluminum. Select from the full line of chalkboard and tackboard types.

Standard Leaf Sizes: 4' high x 3' feet wide; 4' high x 4' wide; other sizes to specification.

in CORK . . . . or VINYL

Son-Nel CORK

ALL SON-NEL CORKS are superior quality, resilient cork composition, made specifically for bulletin board service—with ***permanent*** resilience and softness. They may be furnished in rolls or sheets, or mounted on plywood, hardboard or soft fiberboard backing of ¼", ⅜" or ½" thickness, as specified. (For ⅛" cork, soft board backing is recommended.)

COLOR: For easy adaptation into modern classrooms Son-Nel Corks are available in the six colors indicated at right. Light reflectance is comfortably low, due to finely textured surfaces.

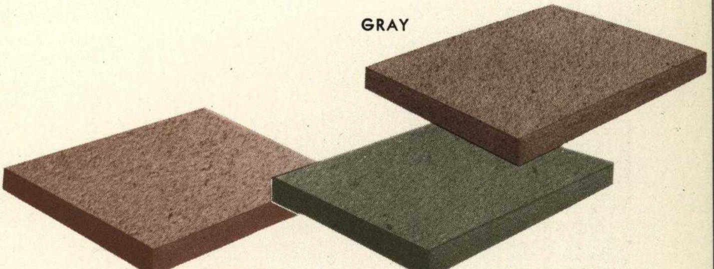
FINE GRAIN—SMOOTH SURFACE: Burlap backed, and may be mounted with either smooth or burlap side exposed. See table for size and color availability.

PEBBLE GRAIN—SMOOTH SURFACE: This is available in light tan, Son-Nel No. 1 only. Thickness, ¼" or ⅛". Maximum size, 4' x 12'. Can be mounted on hard or soft backing as specified.

AVAILABILITY CHART

Color	Width: 48"		72"	
	Thickness: ¼"	⅛"	¼"	⅛"
LIGHT TAN—B10	Yes	Yes	Yes	Yes
LIGHT GREEN—B8	Yes	Yes	Yes	Yes
GRAY—B6	Yes	No	Yes	No
CORAL—A58	Yes	No	Yes	No
GOLD—B12	Yes	No	No	No
CORAL ROSE—B18	Yes	No	No	No

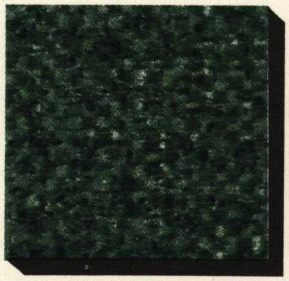
All the above corks are in rolls averaging 90 ft. in length.
Average weights: ¼" cork, 1 lb./sq. ft.; ⅛" cork, ½ lb./sq. ft.



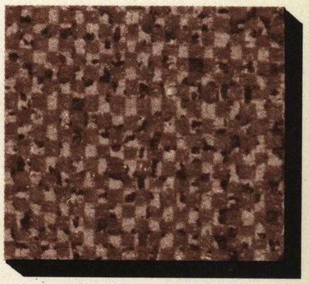
Son-Nel VINYL

Vinyl Plastic provides a pinning surface in limitless colors and patterns that will not crack, chip, peel or scratch. Son-Nel Vinyl Tackboards may be specified in virtually any color, pattern or make of vinyl on the market (i.e. Guard, Koroseal, Kalistron, Vicrotex, etc.). These fabrics are laminated to a treated pulp board backing—and are stain and fire resistant, easy to clean, maintaining their pliable and spongy texture for decades. Holes are self-sealing.

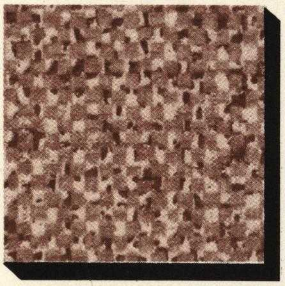
COLOR: Illustrated are six sample colors available in *Guard* Vinyl, one of many available through Son-Nel. These deep-textured patterns eliminate disturbing reflectance.



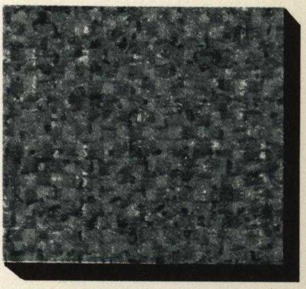
WOODLAND GREEN



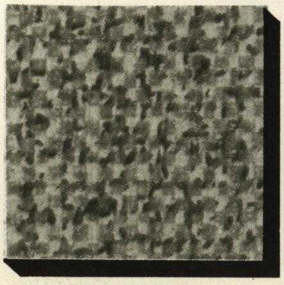
REDWOOD



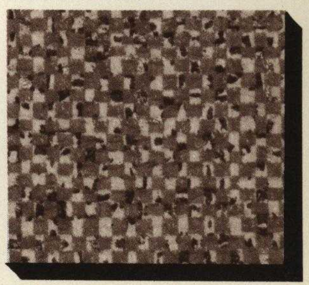
CEDAR



OCEAN BLUE



AVOCADO GREEN



CINNAMON

AVAILABILITY CHART

WIDTH, 54"

40-B	OYSTER GRAY	45-B	CEDAR
41-8	SANDALWOOD	46-B	GRAY CHARCOAL
42-B	DESERT TONE	47-B	OCEAN BLUE
43-B	CINNAMON	48-B	WOODLAND GREEN
44-B	REDWOOD	49-B	AVOCADO GREEN

SON-NEL DISTRIBUTORS

ALABAMA

MOBILE—Brabner Bldg. Spec., Inc.
P.O. Box 366, Crichton Station

ARIZONA

PHOENIX—Haskell-Thomas, Inc.
3808 N. Central Ave.

CALIFORNIA

Oakland—Son-Nel Products Co.
900 19th Ave.
Oakland 6, Calif.

CANADA

ALBERTA—Edmonton
Northern School Equip., Ltd.
13912 - 109B Ave.

BRITISH COLUMBIA—Burnaby
Construction Products Co.
Div. of Royal Oak Holdings, Ltd.
5776 Beresford St.

COLORADO

DENVER—Horblit & Co.
2329 Champa St.

CONNECTICUT

BLOOMFIELD—W. L. Walker Co.
P.O. Box 257 - 21 Wintonbury Ave.

CUBA

HAVANA—Manuel Valcarcel
P.O. Box 1251

FLORIDA

TAMPA 4—T. E. Jacobson
P.O. Box 8006

HAWAII

HONOLULU—Roy C. Pullen Co.
211 King Kalakuaua Bldg.

IDAHO

BOISE—Casco, Inc.
P.O. Box 335

POCATELLO—Gen. Typewriter Exch., Inc.
553 S. 8th Ave.

ILLINOIS

CHICAGO 46—School Equipment Co.
6124 N. Milwaukee Ave.

ROCK ISLAND—A. M. Blood Co.
305 Twentieth St.

INDIANA

FORT WAYNE—Wholesale Bldrs. Supply Co.
3010 S. Calhoun St.

GREENFIELD—D. H. Goble Printing Co.
15 South East St.

KANSAS

PITTSBURG—Bowlus School Supply Co.
1015 N. Broadway

SALINA—Hubert Ellison Co.
P.O. Box 478

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NEW ORLEANS—Louisiana School Supply Co.
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JACKSON—Clark Bldg. Material Co.
316 First Fed. Bldg. & Loan Annex
P.O. Box 1301

MONTANA

BUTTE—Archibald Co.
P.O. Box 755

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RENO—Morrill & Machabee
130 S. Center St.

NEW HAMPSHIRE

KEENE—Robert A. Bennett
Hurricane Road

NEW JERSEY

PENNSAUKEN—Roberts Bros., Inc.
5115 Rt. 38

NEW MEXICO

ALBUQUERQUE—George Mayhew
705 Morningside Dr., N.E.
P.O. Box 8301

NEW YORK

RENSSELAER—Kelly Associates
312 Broadway

NORTH CAROLINA

ASHEVILLE—Collins Wyatt
P.O. Box 8244

OHIO

BOWLING GREEN—Bowling Green Equip. Co.
1026 N. Main St.

CINCINNATI 2—Backus Brothers Co.
212 E. Third St.

OKLAHOMA

OKLAHOMA CITY—Remco, Inc.
1205 N. Pennsylvania Ave.

OREGON

PORTLAND 17—Steward Griffith Co.
P.O. Box 5690, Kenton Station

PUERTO RICO

HATO REY—Santoni & Vivoni
Apartado 256

SOUTH DAKOTA

RAPID CITY—Espe Printing
31 East Omaha St.

TENNESSEE

KNOXVILLE—Construction Services Co.
P.O. Box 3333

NASHVILLE—Mannings Materials Co.
P.O. Box 6153

TEXAS

AMARILLO—Amarillo Arch. Prods. Inc.
1212 E. Ninth St.

CORPUS CHRISTI—W. G. Gower Co.
223 N. Port Ave.—P.O. Box 2095

DALLAS—Roy L. Jacobs Co.
2518 Cedar Springs

EL PASO—Architectural Prods. Co., Inc.
506 E. Yandell Blvd.—P.O. Box 7307

HOUSTON—Roy L. Jacobs Co.
3805 Main St.

SAN ANTONIO 14—Harry R. Morgan
4127 S. Flores—P.O. Box 14306

UTAH

SALT LAKE CITY—Larick Specialties, Inc.
955 Folsom Ave.

WASHINGTON

SEATTLE 9—Hal Fogman & Assoc.
P.O. Box 9084, Queen Anne Station

SPOKANE—Clyde Stricker, Inc.
1017 W. Railroad Ave.

WEST VIRGINIA

CHARLESTON—Crichton Engineering Co.
P.O. Box 1946

WISCONSIN

COLEMAN—Coleman School Supply Co.
1313 Main St.

MILWAUKEE 4—J. F. Cook Co.
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S O N - N E L

CHALKBOARDS • BULLETIN BOARDS • STAGE AND DARKENING DRAPES • DRAPERY TRACK • CUBICLE CURTAINS AND TRACK • IN-THE-WALL AND ON-THE-WALL TYPES FOLDING TABLES AND BENCHES.

Son-Nel

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Manufacturers of Quality Since 1946
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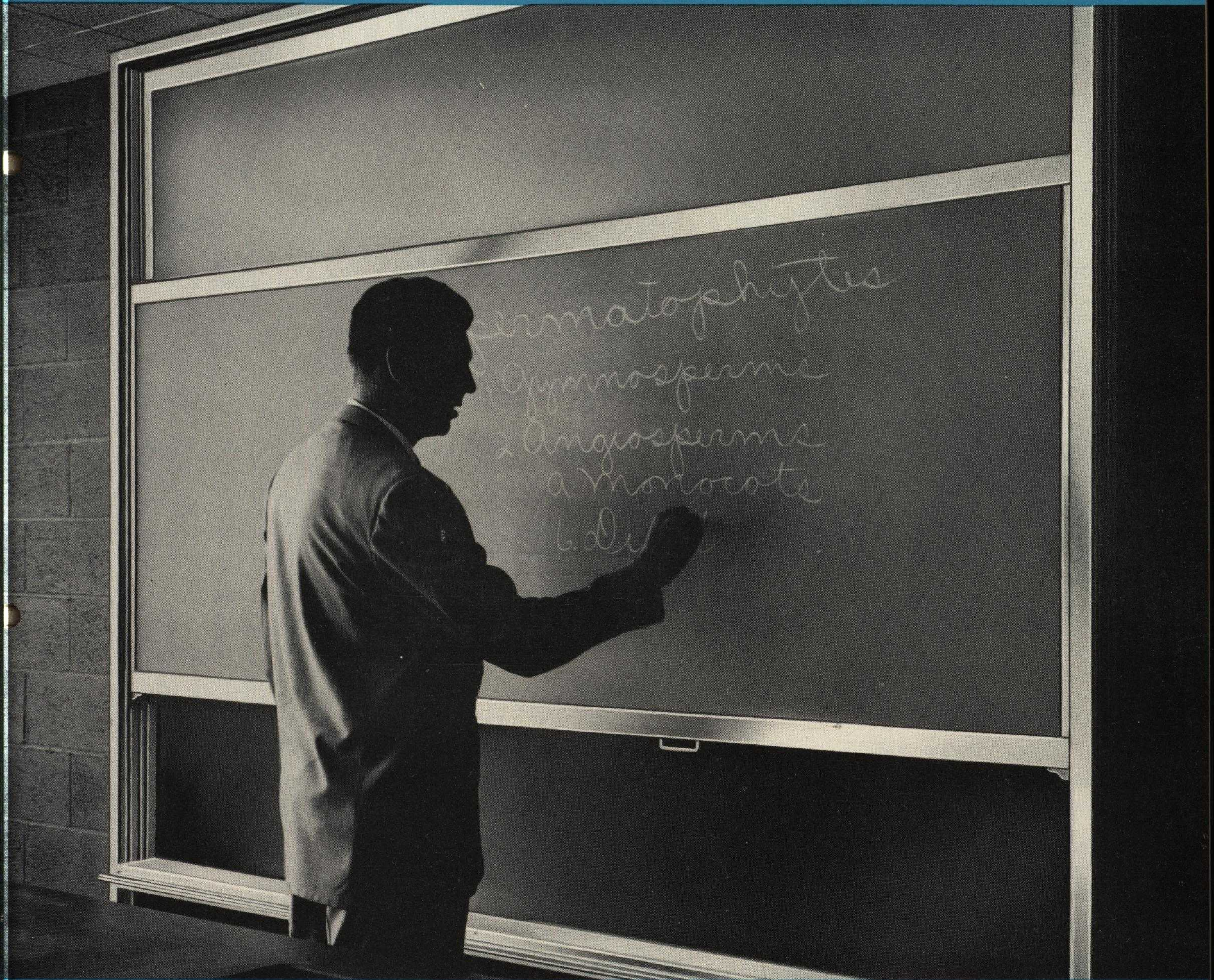
If further information is desired, contact your nearest SON-NEL Distributor or write our main office.

LITHO U.S.A.

23e
UN

UNIQUE BALANCED

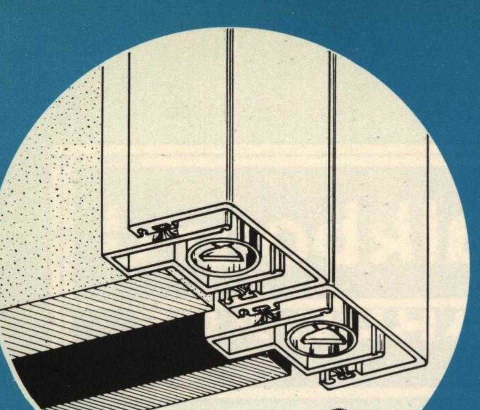
Lite Lift Chalkboard HARDWARE®


…ermatophytes
1. Gymnosperms
2 Angiosperms
a Monocots
b. Di…

VERTICAL SLIDING CHALKBOARD HARDWARE by

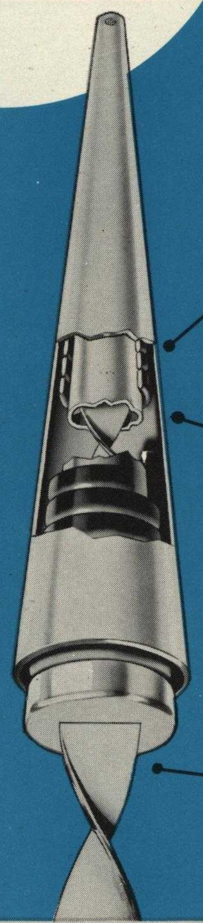
UNIQUE BALANCE DIVISION
S. H. POMEROY COMPANY
two famous names in engineered architectural products

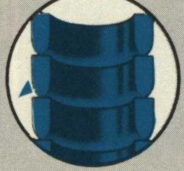
- All framing sections and supports are **ANODIZED ALUMINUM** extrusions.
- Design of panel framing section allows use of chalkboard or tackboard material of any thickness or material specification. No additional trim required.
- Balances are enclosed in the vertical supporting members.
- Panels move in non-friction guides.
- Nylon bearings of the **UNIQUE BALANCES** result in smooth, effortless operation.
- Balances are installed and adjusted for precise operation during manufacture.
- Simple to erect. Length and height can be varied to suit requirements.



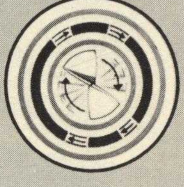
UNIQUE SPIRAL BALANCES

A specially adapted design of the famous UNIQUE BALANCE counter balances each panel section. Always silent, perfectly smooth operation assured from any position.

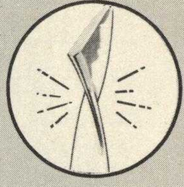




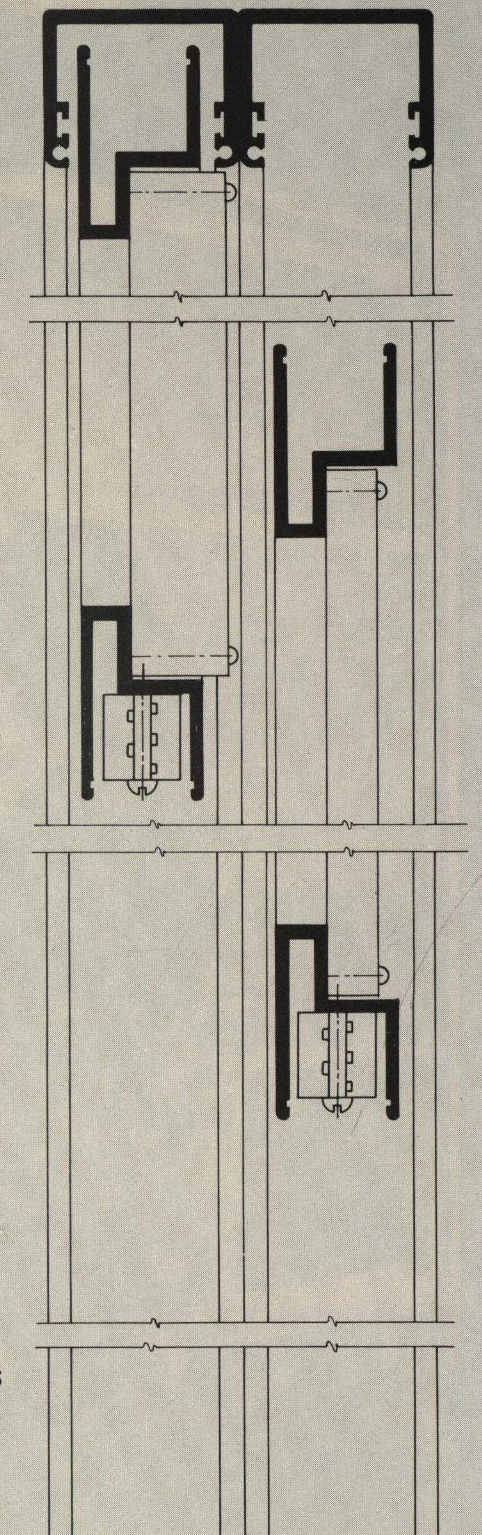
Pin-point contact on power coils for friction-free operation.

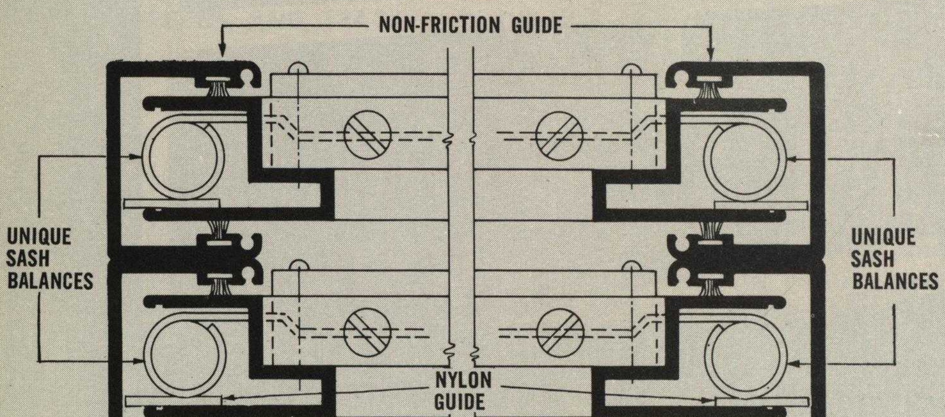


No metal to metal contact — silent, efficient operation.



Corrosion-proof, cadmium-plated accelerated spiral rod — smooth trouble-free operation.





HORIZONTAL SECTION **(Half Scale)** **VERTICAL SECTION**

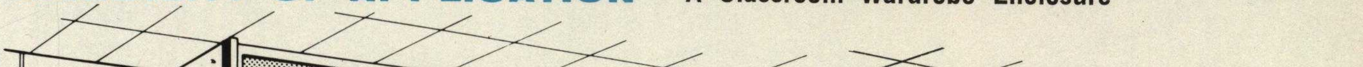
DETAIL OF A DOUBLE SECTION (MAY BE SINGLE OR MULTIPLE AS DESIRED)

Lite Lift

Chalkboard installation in new science classroom of Rocky Hill High School, Wethersfield, Conn.

Architects: Nichols and Butterfield, Hartford, Conn.

FLEXIBILITY OF APPLICATION • A Classroom Wardrobe Enclosure



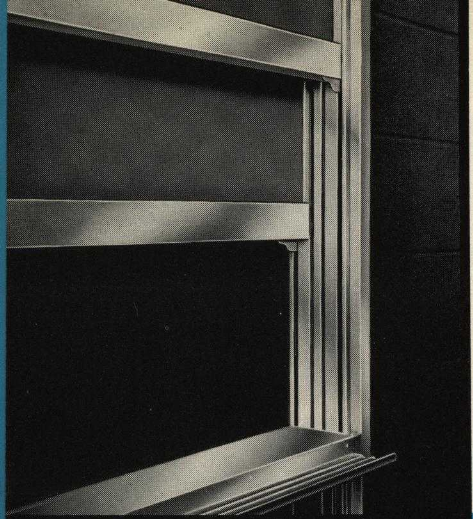
Lite Lift ORANGE ELEMENTARY SCHOOL, CONNECTICUT
Architects: Davis, Cochran & Miller New Haven, Conn.

CREATE WORKING WALLS TO ASSIST MODERN TEACHING METHODS

The bulk and expense of former devices are eliminated. More functional wall space with minimum use of floor area.

ADAPTABLE TO EXISTING INSTALLATIONS

A **LITE • LIFT** chalkboard or tackboard can be used in conjunction with present fixed boards. Can be mounted for single, double or multiple installation.



SPECIFICATIONS

Furnish and install as shown on plans LITE • LIFT vertical sliding chalkboard as manufactured by Unique Balance Division, S. H. Pomeroy Company, Stamford, Connecticut. Framework and trim to be dull finish anodized extruded aluminum. Balancing mechanisms shall be UNIQUE heavy-duty spiral balances. Vertical frame members to be equipped with non-friction guides. (Chalkboard or tackboard material as specified by architect.)

EXPAND CHALKBOARD and TACKBOARD SPACE IN SCHOOLS • LABORATORIES • FACTORIES • OFFICES

NOW... an economical method of expanding working-wall space with Lite Lift

- Adaptable to a multitude of architectural applications in new structures as well as in existing buildings.
- Makes vertical sliding chalkboard and tackboard applications practical.
- Use any specified chalkboard, tackboard or other display board material without alteration of **LITE • LIFT** design or supplementary trim.

ECONOMICAL IN PRICE—EASY TO INSTALL

STAMFORD & NORWALK, CONNECTICUT
MONTREAL, CANADA
DUBUQUE, IOWA
THE WORLD'S BALANCE
YEOVIL, ENGLAND
RIO DE JANEIRO, BRAZIL
MELBOURNE & SIDNEY, AUSTRALIA

MANUFACTURED THROUGHOUT THE WORLD!

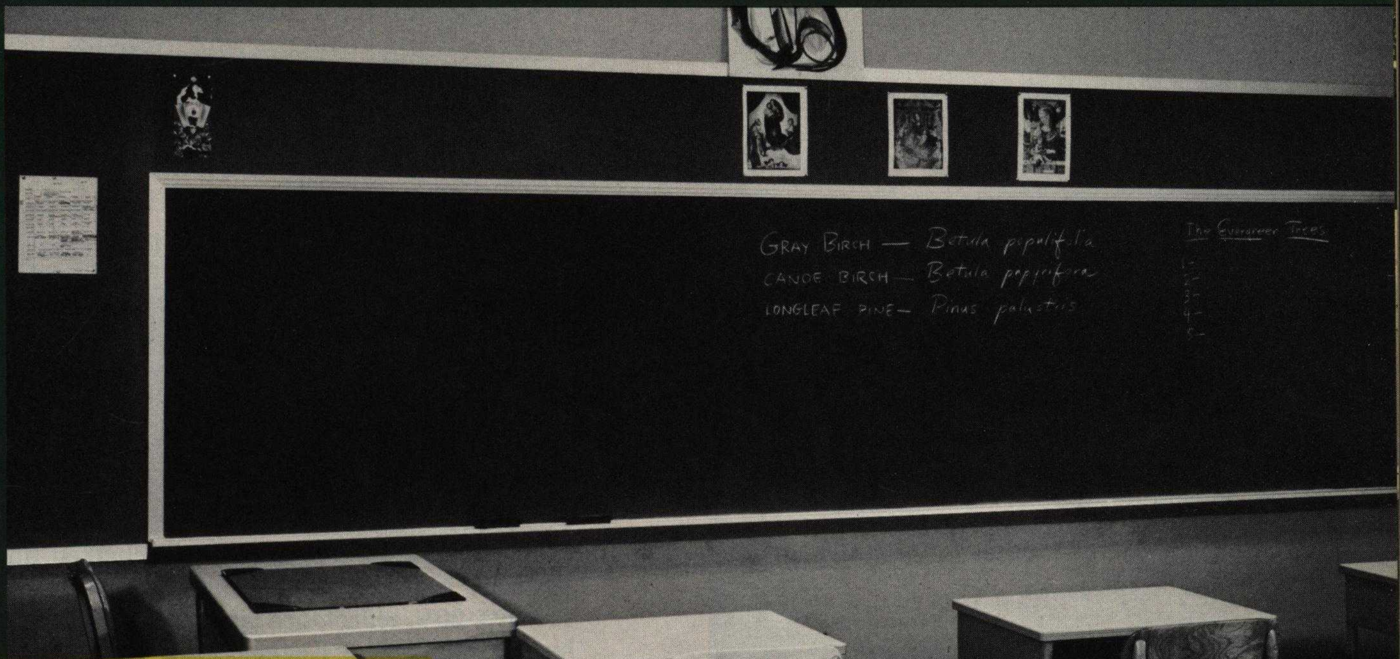
UNIQUE BALANCE DIVISION
S. H. POMEROY COMPANY
41 MAGEE AVENUE, STAMFORD, CONNECTICUT

Western Division:
186 NORTH CANON DRIVE
BEVERLY HILLS, CALIFORNIA

23e
Uni

...the most durable and
practical chalk-writing surface
... for schools, churches, laboratories,
offices, factories, and air,
rail and bus terminals

WELDWOOD®
THREE COAT Chalkboard


GRAY BIRCH — Betula populifolia
CANOE BIRCH — Betula papyrifera
LONGLEAF PINE — Pinus palustris
The Evergreen Trees

Weldwood® TACKBOARD
low cost, strong and sturdy...takes tacks, pins, staples and tape

Weldwood® ALUMINUM CHALKBOARD TRIM
complete trim system for Weldwood Chalkboard and Weldwood Tackboard

UNITED STATES PLYWOOD CORPORATION

A.I.A. FILE NO. 35-B-1 JAN. 1960

Proven glare-free surface

Never needs refinishing

Combination chalkboard, bulletin board, visual aid screen

Guaranteed for the life of the building

WELDWOOD THREE COAT Chalkboard

Weldwood Three Coat Chalkboard is a unique development of serviceable chalkboard combining the desirable features of good chalkboards, but never needing maintenance or refinishing. It is guaranteed to last the life of the building.

Designed specifically to assist modern teaching methods, Weldwood Chalkboard has also been found very successful in commercial and institutional applications. Many successful installations have been made, a few typical ones are: schoolrooms, and school administration offices and assembly rooms; production and traffic departments of plants and offices; staff and instruction rooms of hospitals; dispatcher offices and maintenance headquarters for public transportation systems and public utilities; wherever instructions, schedules and records must be economically maintained and kept up to the minute.

THE SURFACE

Weldwood Three Coat Chalkboard is a special porcelain-enameled composition fired under exacting controls on 18-gauge enameling steel. This face is manufactured in accordance with the Porcelain Enamel Institute's "Standards for Architectural Porcelain." The process and the product consistently satisfy the rigid inspection and exacting wear and abrasion testing by the Electrical Testing Laboratory of New York City. (Copies of their laboratory test results are available on request.)

DOUBLES AS VISUAL AID BOARD

Weldwood Chalkboard is versatile:

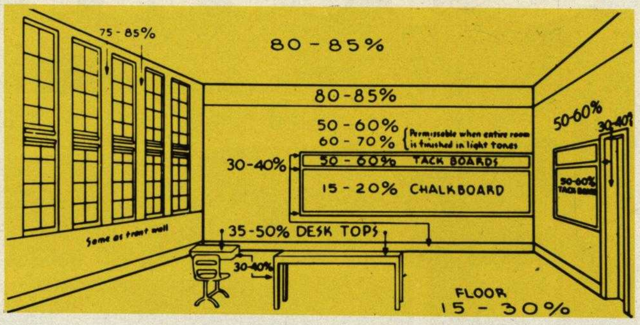
...its attraction for magnets often eliminates the need for other equipment such as projection screens, easels, bulletin boards.

...diagrams, gridlines, maps, music staffs, charts or other special designs can be permanently silkscreened or painted on the surface.

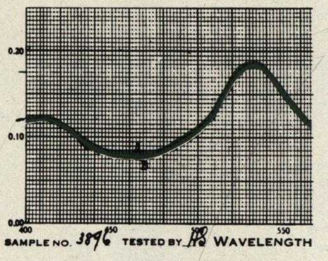
GUARANTEED FOR A LIFETIME

Under normal conditions of usage and installation, Three Coat Weldwood Chalkboards are guaranteed for the life of the building in which they are installed. This guarantee extends to replacement of the panel only and does not include the cost of removal or re-installation.

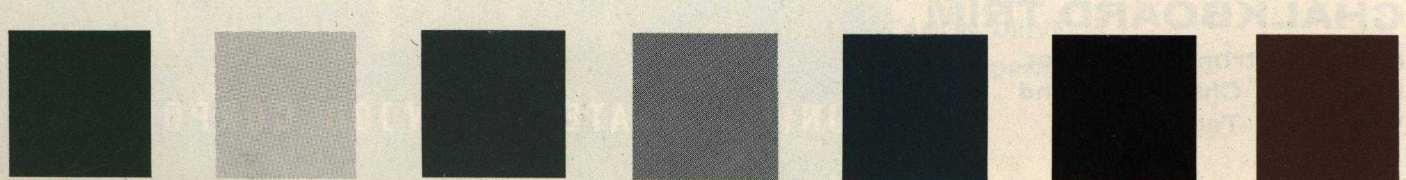
GLARE-FREE COLOR



For utmost readability (contrast with chalk's color) combined with controlled reflectance and pleasing appearance, our modern Dark Green #151 Three Coat was developed for Weldwood Chalkboard. The Reflectance Factor of the chalkboard, both new and used (chalked and unchalked) is 18.5% ... established midway between the 15%-20% reflectance factor limits recommended by the Illuminating Engineering Society and American Institute of Architects, in their report "American Standard Practice for Schools."



Weldwood Three Coat Chalkboard is also provided in six other tints: Light Green #128, Projection White #221-L (for use with the audio-visual teaching, lecturing and demonstrating equipment) (see Page 3), Gunmetal Grey #277, Grey-Blue #287, Black #380, and Brown #402.



Dark Green #151 **Projection White #221-L** **Light Green #128** **Gunmetal Grey #277** **Grey-Blue #287** **Black #380** **Brown #402**

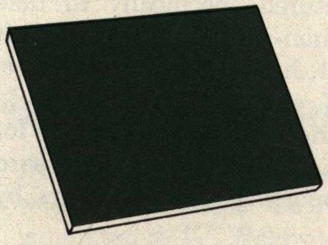
NEVER NEEDS REFINISHING EASY TO CLEAN

Weldwood Chalkboard is tough. It will not warp, buckle, shatter or break under normal impact, stress, temperature changes, concussion. It defies scratching, chipping, denting. Furthermore, the surface is non-porous so chalk is readily erased. It can be rinsed with clear water as often as the user desires without affecting the writing surface of the board.

ECONOMICAL INSTALLATION

Installation cost is less than for any similar product. Weldwood Aluminum Chalkboard Trim makes this possible, permits mounting directly to plastered walls without fixed grounds or to unfinished walls. No other finishing trim is necessary.

STANDARD OF CONSTRUCTION



SURFACE
3-coat porcelain-enameled 18 gauge enameling steel

CORE
¼" Weldwood Fir Plywood, exterior grade
(other thicknesses special)

BACKING
.015" aluminum

The core of Weldwood Chalkboard is Weldwood Fir Plywood, exterior grade, as manufactured by United States Plywood Corporation to the standards of the Douglas Fir Plywood Association.

The backing sheet is .015" aluminum sheet, but other metals and thicknesses may be used if ordered special.

Securely bonded to the core with special glues formulated expressly for Weldwood Chalkboard manufacture, the porcelain-on-steel face and metal backing sheet cannot be removed. The chalkboard will not delaminate in school-type installation and use.

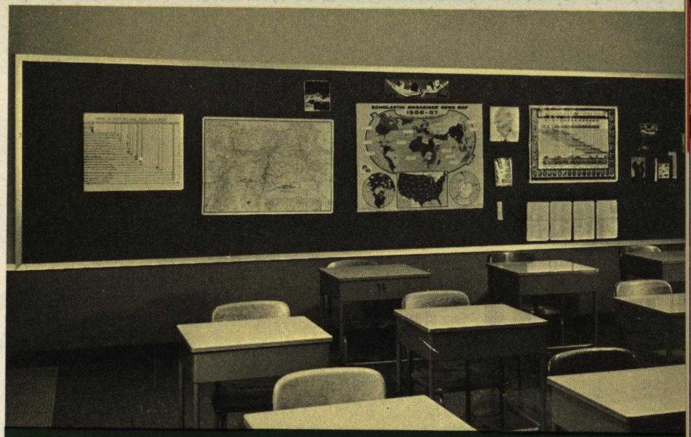
SIZES (± 1/16")

.3165" thickness

	WIDTHS	LENGTHS
STANDARD	36", 42", 48"	72", 84", 96", 108", 120"
SPECIAL	all intermediate sizes	

WEIGHTS

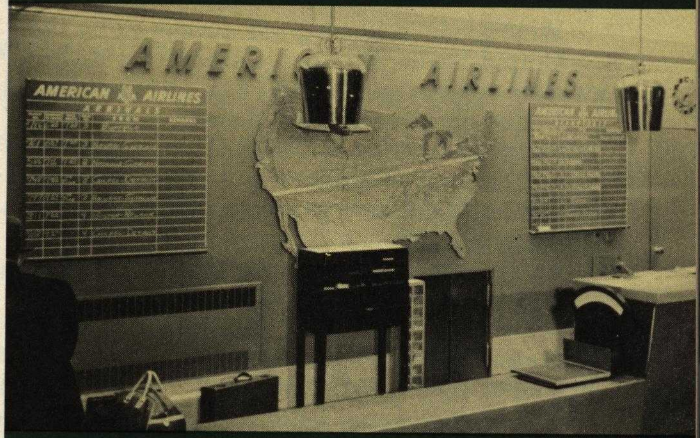
MATERIAL	3.25 lb./sq. ft., approx.
CRATED	5.00 lb./sq. ft., approx.



Grey-blue Weldwood Chalkboard with Weldwood Aluminum Chalkboard Trim and with matching Weldwood Tackboard and Kalistron wainscot. St. Luke's School, New York City, N. Y.

NEW YORK STOCK EXCHANGE
AMERICAN STOCK EXCHANGE
DOW-JONES STOCK AVERAGES

Weldwood Chalkboard's superior surface permits continual writing and erasures without loss of readability, a prime requisite for active stock quotation boards.



A durable Weldwood Chalkboard serves as the perfect writing surface for a busy airline schedule board. American Airlines, Rochester, N. Y.

WELDWOOD "Projection-White" CHALKBOARD

for visual aids teaching methods

Weldwood Projection-White Chalkboard (#221-L) embodies all the inherent features of design, construction, manufacture and installation as do the colored Weldwood Chalkboards, making this board the remarkable functional chalkboard-bulletin board-projection screen.

The projection-white color permits complete utilization of the board for projecting black-and-white or color slides or films. The porcelain-enameled face, identical to other Weldwood Chalkboards, permits colored chalk to be used. The attraction to magnets permits the board to serve as a bulletin board.

installation

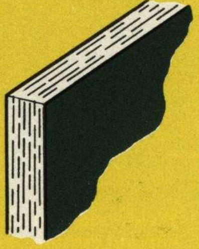
Weldwood Projection-White Chalkboard (#221-L) is installed exactly as other Weldwood Chalkboards, using the same Weldwood Aluminum Chalkboard Trim and accessories.

Installation cost is less than for any similar product. Weldwood Aluminum Chalkboard Trim makes this possible, permits mounting directly to plastered walls without fixed grounds or to unfinished walls. No other finishing trim is necessary.

Weldwood "24" SERIES CHALKBOARD

For use in some installations—educational, commercial and institutional—where the budget is limited, an alternate is available. This alternate board cannot of course, offer identical qualities of surface and long term economies as the Weldwood Three Coat Chalkboard. However, it does make available for all buildings, a perfectly satisfactory economy board for use where the requirements are not stringent.

This is a light-weight, medium price, porcelain face chalkboard on a balanced, stable construction. The writing surface quality closely approaches, but of course cannot equal, the heavy duty surface of Weldwood Three Coat Chalkboard. However, its construction is sound and it thus offers valid economies, in purchase and long life.



Available in Pale Green #1138, Charcoal #2404, Grey #2405, Brown #2406, and Blue #2407.

Weldwood TACKBOARD

Weldwood Tackboard was developed by the United States Plywood Corporation to further reduce the overall cost of Weldwood Chalkboard installation. Low in cost, Weldwood Tackboard is designed with Kalitex, a strong, sturdy vinyl surface having the color and pattern permanently fused to the underside. It can be wiped clean with a damp sponge. It resists scratching, scuffing and other action. It does not chip or crack. Weldwood Tackboard is furnished in 25 standard colors to complement the entire line of Weldwood Chalkboard.

Weldwood ALUMINUM CHALKBOARD TRIM

Weldwood Aluminum Chalkboard Trim, with architectural anodized finish, is a complete trim system designed to reduce the cost of installing chalkboards. This system includes the accessories necessary for a complete chalkboard installation. Lower in initial cost than ordinary trim, it eliminates the use of costly fixed grounds and requires only one trip to the job site to install both trim and chalkboard. Consult your Weldwood Chalkboard Distributor for complete details on this expertly engineered trim system.

WELDWOOD

Weldwood THREE COAT CHALKBOARD

All chalkboards as shown on plans shall be Weldwood Three Coat Chalkboard, porcelain-on-steel, laminated to 1/4" Exterior Grade Weldwood Fir Plywood with aluminum backing sheet, as manufactured and guaranteed by the United States Plywood Corporation.

• The porcelain writing surface shall have three coats ceramic, manufactured specifically to take chalk and erasures, in a non-glaring permanent soft finish, Dark Green #151, having a reflectance factor of not less than 15% and not more than 20%, as set forth by The American Standard Practice for School Lighting, A.I.A. 32F-28. The chalkboard must be capable of supporting display papers by means of magnets.

• The porcelain shall be manufactured in accordance with the Porcelain Institute standards for Architectural porcelain. The writing surface shall resist wear, shock, scratches, abrasions, and shall not crack, dent or shatter, and shall retain its original color and writing and erasing qualities without fading or becoming glossy or shiny.

• The porcelain enamelled steel surface shall have a ground coat of porcelain on two sides, the thickness of which shall be not less than .003" or more than .005" after firing. The writing surface shall have not less than two additional coats (each followed by a separate firing) of not less than .004" or more than .006" each after firing. All porcelain must be ground so that no more than three grams of solid matter is retained on a 200 mesh screen when 50 c.c. of thoroughly mixed and representative wet enamel is screened. All three coatings must be individually fired at not less than 1550°F. Porcelain surfaces whose abrasive action is derived by etching, abrading, addition of large particles or by a method other than from uniform control of crystal size (obtained by control of composition and firing cycle) throughout the entire thickness of finish coats are not permissable.

• The core material shall be 1/4" Weldwood Fir Plywood Exterior Grade, manufactured by United States Plywood Corporation in accordance with the standards of the Douglas Fir Plywood Association.

• The special porcelain-on-steel face and .015" aluminum backing sheet of the chalkboard shall be bonded to the Weldwood core by means of special flexible glue lines developed for this purpose with no unbonded areas. The lamination of the metal faces to the plywood shall be by mechanical or

CHALKBOARD, TACKBOARD, TRIM

Recommended Specifications

hydraulic press with a minimum pressure of 100 psi instantly and uniformly applied over the entire surface. The lamination shall be accomplished at room temperature. The face and back shall not be removable from the core without rupture of the core material, and the panel shall not delaminate under normal conditions of usage and installation.

- The chalkboards shall be installed in accordance with the architect's details and approved manufacturer's installation drawing.

Weldwood
"24" SERIES CHALKBOARD

All chalkboard, as shown on plans, shall be Weldwood Chalkboard, "24" Series, porcelain-on-steel, laminated to 1/4" Weldwood Fir Plywood with metal backing sheet, as manufactured by United States Plywood Corporation.

- The porcelain writing surface shall be ceramic, manufactured specifically to take chalk and erasures, in a non-glaring, permanent, soft green finish. (4 other standard colors available.)
- The base metal shall be suitable for the performance requirements as specified and its thickness shall be 24 Gauge which is in accordance with good enameling practice.
- The core material shall be 1/4" Weldwood Fir Plywood, as manufactured by United States Plywood Corporation in accordance with the standards of the Douglas Fir Plywood Association.
- The backing sheet shall be of a rust resistant metal of sufficient thickness to balance the construction.
- The special porcelain-on-steel face and metal backing sheet of the chalkboard shall be bonded to the Weldwood core by means of special flexible glue lines developed for this purpose with no unbonded areas. The lamination of the metal faces to the plywood shall be by mechanical or hydraulic press with a minimum pressure of 100 psi instantly and uniformly applied over the entire surface. The lamination shall be accomplished at room temperature. The face and back shall not be removable from the core without rupture of the core material, and the panel shall not delaminate under normal conditions of usage and installation.
- The chalkboards shall be installed in accordance with the architect's details and approved manufacturer's installation drawing.

Weldwood
TACKBOARD

All tackboards shown on plans shall be Weldwood Tackboard as manufactured by the United States Plywood Corporation.

- The surface of Weldwood Tackboard shall be a textured weave Kalitex with all color and design on the protected or underneath side. The unexposed surface shall be bonded to a 1/2" backing with an adhesive especially developed for this purpose.
- The backing shall be moisture, vermin, and decay resistant and shall have good tack-holding properties. The overall thickness of Weldwood Tackboard shall not be more than 9/16". On all untrimmed installations, the face sheet shall be wrapped around all four edges and stapled to the backside of the backing sheet.
- Color shall be as specified.
- Tackboard shall be installed in accordance with the architect's details and approved manufacturer's installation drawing.

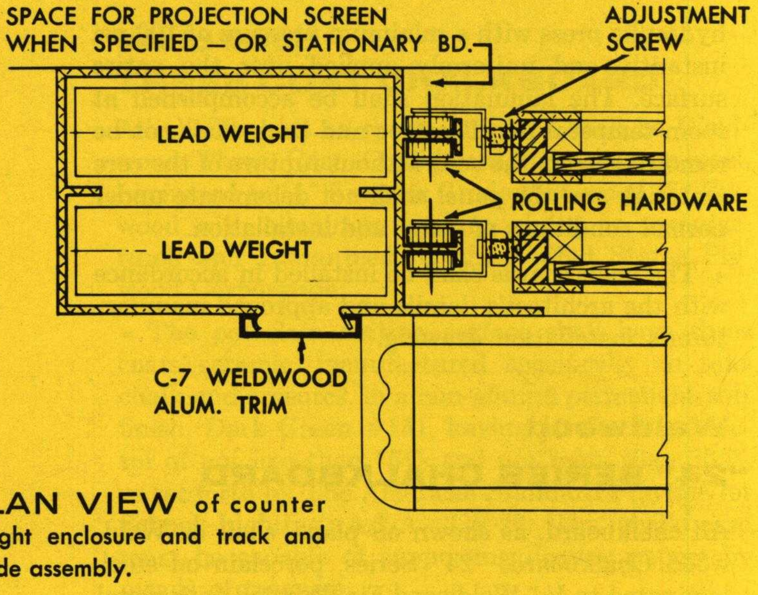
Weldwood
ALUMINUM CHALKBOARD TRIM

Complete aluminum trim for all chalkboards shall be Weldwood aluminum as manufactured by United States Plywood Corporation, and shall be installed in strict accordance with the details and following specifications.

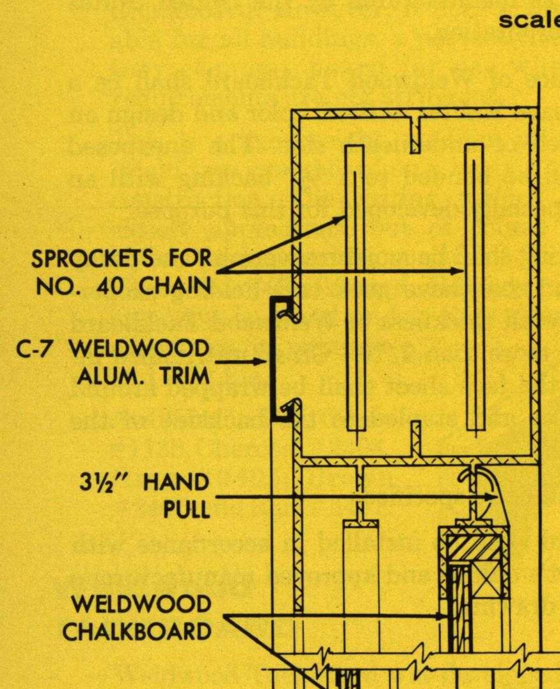
- Aluminum chalktray shall be 3/32" thick with matching end castings, plain trim 1/16" thick. [Top shall be of the C-8 or C-9 display type with cork insert. Furnish one pair roller map brackets at front of each classroom and one sliding map hook for each 5′ of display rail. (Architect note—Change quantity of display rail and accessories as required.) The vertical trim at ends should be C-6 or C-7.]
- Finish on all aluminum shall be polished and alumilited (20 minute cycle). All outside corners shall be mitred and all others butt-jointed.
- 16 ga. cadmium plated ground clips and spring clamps shall be securely installed by means of toggle bolts or lead lined rawl plugs—on 18" centers for all trim except chalktray which shall be 14 ga. on 12" centers. Where walls are plastered rawl plugs and screws shall be 1½" long so that plug has full hold in block wall. Shim with metal shims where necessary.

Weldwood VERTICAL ROLLING Chalkboard

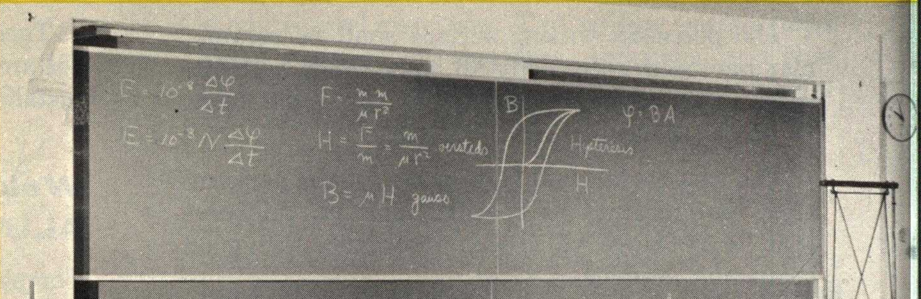
For complete information on the design and installation of vertical and horizontal rolling and other specially constructed chalkboards, either manually or electrically operated, write United States Plywood Corporation.


SPACE FOR PROJECTION SCREEN WHEN SPECIFIED — OR STATIONARY BD.
ADJUSTMENT SCREW
LEAD WEIGHT
ROLLING HARDWARE
LEAD WEIGHT
C-7 WELDWOOD ALUM. TRIM

PLAN VIEW of counter weight enclosure and track and guide assembly.


scale: 3/8"=1"
SPROCKETS FOR NO. 40 CHAIN
C-7 WELDWOOD ALUM. TRIM
3½" HAND PULL
WELDWOOD CHALKBOARD
C-5 WELDWOOD ALUM. CHALKTRAY
WELDWOOD PLYWOOD PANEL
ALUM. KICKPLATE

VERTICAL SECTION



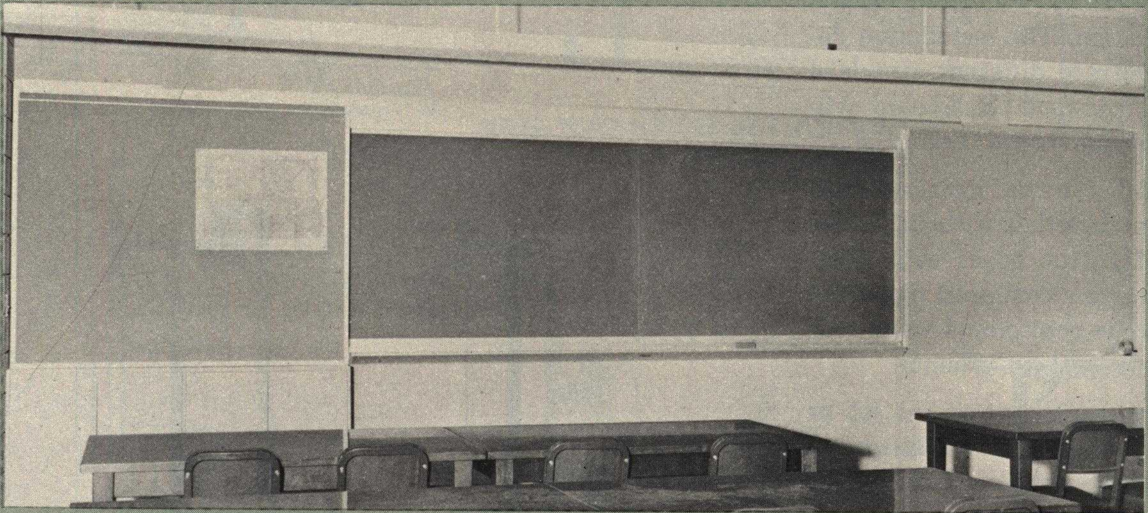
Weldwood Vertical Rolling Chalkboard in the Physics Laboratory, University of Pennsylvania in Philadelphia.

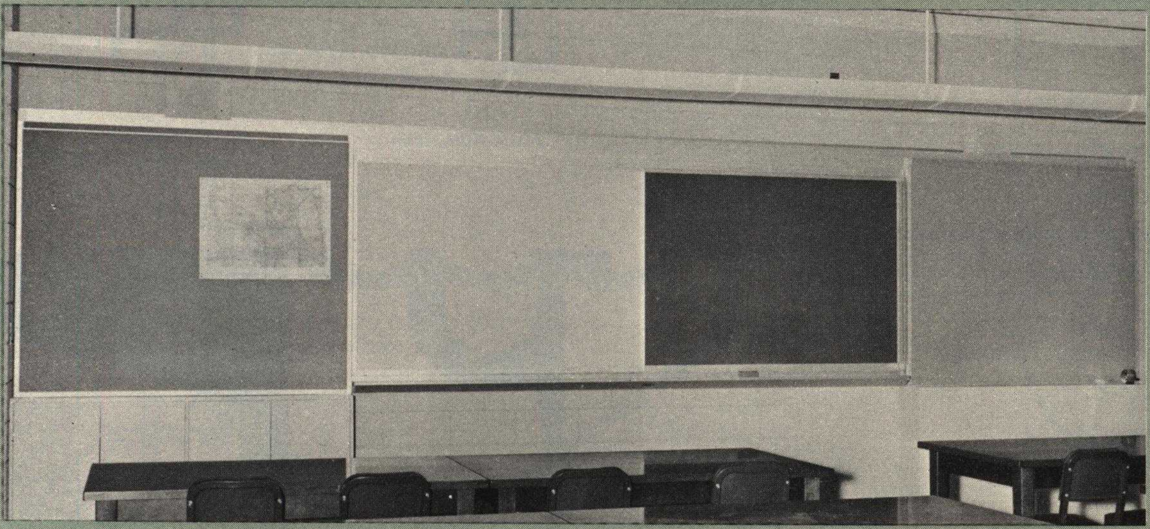
architect: James R. Edmunds, Jr.   installer: A. M. Masters & Sons

Weldwood HORIZONTAL ROLLING Chalkboard

Weldwood horizontal rolling chalkboards, tackboards, and projection screens with innumerable arrangements are comparatively inexpensive and offer many ways of increasing usable wall space and at the same time being able to conceal some panels until desired by the instructor.

All rolling panels are carried by ball-bearing hangers at the top, with guides only at the bottom so that accumulated chalk dust or other debris would not be a problem. The header carries the complete load and is reinforced at 3′ intervals. One hand operation of any board is guaranteed. Where actual wall space is limited but adjacent areas may be covered temporarily we suggest the use of end panels of the Swing-Leaf type with two faces. Swing leaf panels should be limited to 3′6″x4′ size.





One of 12 classrooms at Civil Aeronautics Administration Building, Oklahoma City Airport, Oklahoma City, Okla.

Photograph shows fixed chalkboards in center with fixed tackboard each end. Tackboards conceal three rolling chalkboards and one projection screen. Overall length of unit is 24 feet. Below, same installation, with projection screen exposed.

SPECIFICATIONS

Furnish and install Weldwood horizontal chalkboards and/or tackboards and/or screens as shown on drawings. Panels shall be:—(Here specify types of chalkboard, tackboard or screen for each panel). Panels shall be framed with steel covered by an aluminum channel. Panels shall be carried at the top by two sets of ball-bearing wheels for panels up to 4′ long and three sets of wheels for panels over 4′ long. The bottom guides shall run freely in guide channels. Header, trim, display rail, chalk tray and other exposed parts to be aluminum, anodized to match.

Where Swing-Leaf panels are used furnish approved fasteners at the full open and full closed positions.

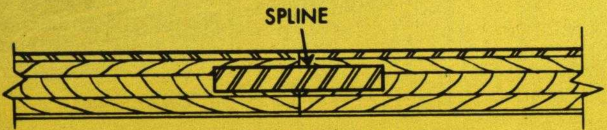
Weldwood
ALUMINUM CHALKBOARD TRIM

Weldwood Chalkboard may be installed by any standard method as used for slate, glass and composition type boards. Distributors for this chalkboard are located in all major marketing areas and can provide details and arrangements for all types of installation. The installation details shown here illustrate different standard methods of installing Weldwood Chalkboard with Weldwood Aluminum Chalkboard Trim.

Weldwood Chalkboard can be installed over securely anchored grounds with or without plaster backing, and finished at the edges with usual trim details. However, we recommend mounting it directly to plastered or unplastered walls with through bolts or screws, without grounds.

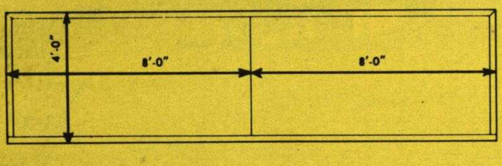
Weldwood Chalkboard can be cut on the job or be ordered to size. Panels should be splined and caulked at all joints by the installer. Steel splines are recommended.

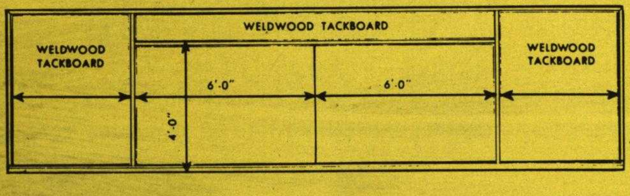
JOINT TREATMENT



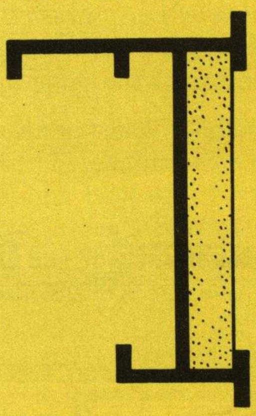
1" WIDE CONTINUOUS
COLD ROLLED STEEL SPLINE

ELEVATIONS

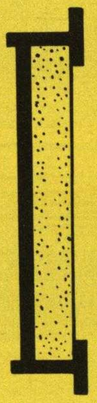




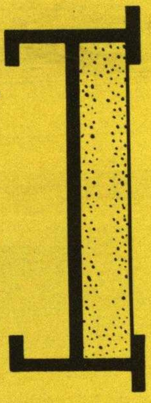
scale: FULL SIZE



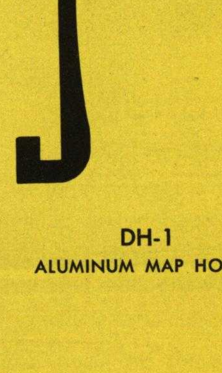
D-8
1/16" ALUMINUM EDGE TRIM



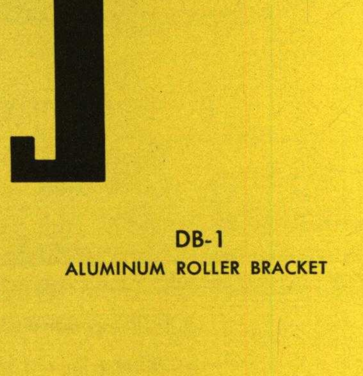
D-10
1/16" ALUMINUM TRIM



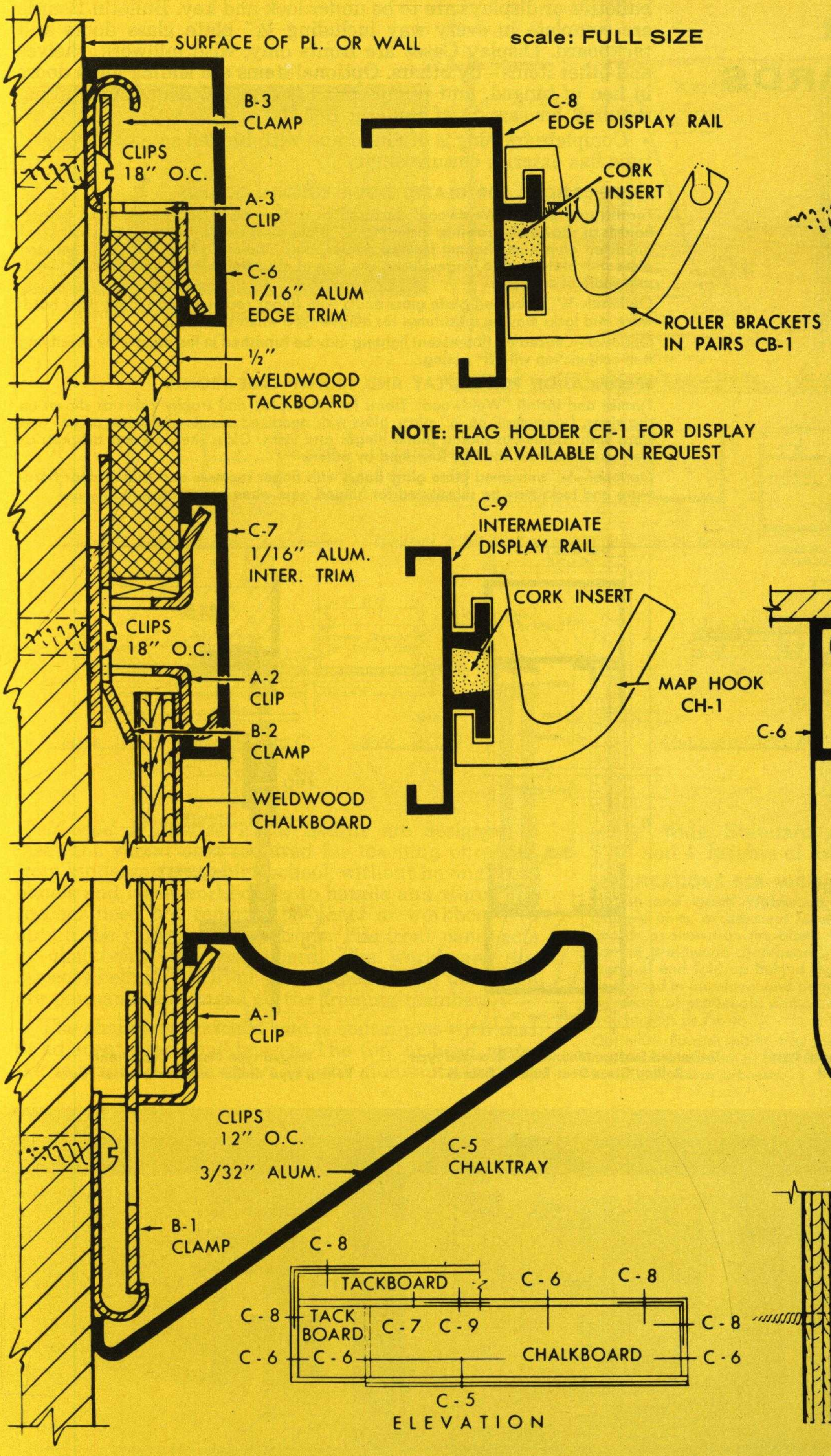
D-9
1/16" ALUMINUM
INTERMEDIATE TRIM



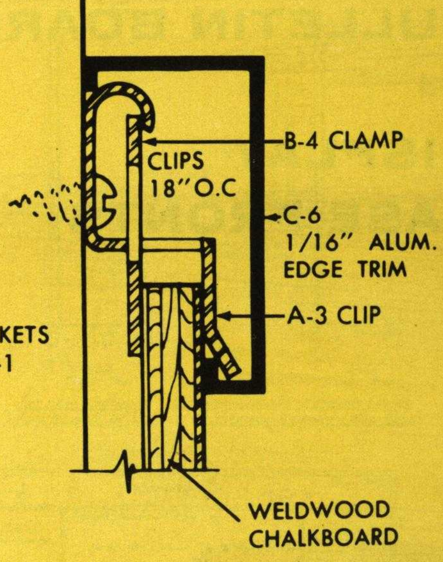
DH-1
ALUMINUM MAP HOOK

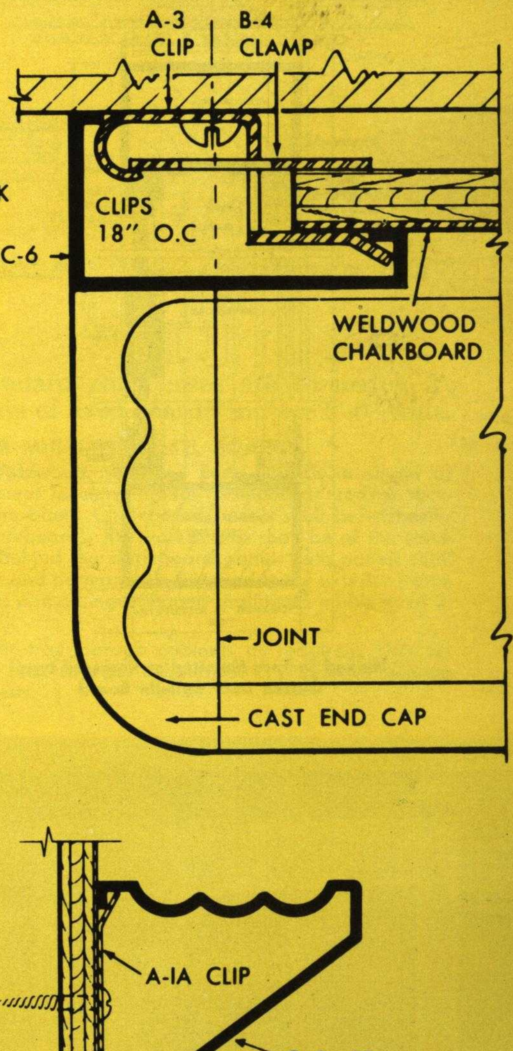


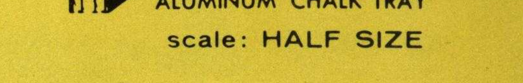
DB-1
ALUMINUM ROLLER BRACKET


SURFACE OF PL. OR WALL
scale: FULL SIZE
B-3
CLAMP
CLIPS
18" O.C.
A-3
CLIP
C-6
1/16" ALUM
EDGE TRIM
½"
WELDWOOD
TACKBOARD
C-8
EDGE DISPLAY RAIL
CORK
INSERT
ROLLER BRACKETS
IN PAIRS CB-1
C-9
INTERMEDIATE
DISPLAY RAIL
CORK INSERT
MAP HOOK
CH-1
C-7
1/16" ALUM.
INTER. TRIM
CLIPS
18" O.C.
A-2
CLIP
B-2
CLAMP
WELDWOOD
CHALKBOARD
A-1
CLIP
CLIPS
12" O.C.
3/32" ALUM.
C-5
CHALKTRAY
B-1
CLAMP
C-8
TACKBOARD
C-6
C-8
C-8
TACK
BOARD
C-7
C-9
C-8
C-6
C-6
CHALKBOARD
C-6
C-5
ELEVATION

NOTE: FLAG HOLDER CF-1 FOR DISPLAY RAIL AVAILABLE ON REQUEST


B-4 CLAMP
CLIPS
18" O.C
C-6
1/16" ALUM.
EDGE TRIM
A-3 CLIP
WELDWOOD
CHALKBOARD


A-3
CLIP
B-4
CLAMP
CLIPS
18" O.C
C-6
WELDWOOD
CHALKBOARD
JOINT
CAST END CAP


A-1A CLIP
C-5A TRAY
(USE C-5A TRAY END CAP)

ALUMINUM CHALK TRAY
scale: HALF SIZE

Weldwood
GLAZED DOOR BULLETIN BOARDS
and
DISPLAY CASE FRONTS

Weldwood Glazed Door Bulletin Boards and Display Case Fronts are for use in corridors and other locations where permanent bulletins or displays are to be under lock and key. Bulletin Boards are complete in every way including ¼″ plate glass doors and tackboard. Display Cases are fronts only, with millwork, shelves and other items—by others. Optional items are sliding glass doors in lieu of hinged, and fluorescent lighting (5″ Aluminum tubing required for casting of Bulletin Boards).

- Complete framing is of aluminum with hidden screws. Recessed type has exterior closure angle.

SPECIFICATIONS FOR GLAZED DOOR BULLETIN BOARDS:

Furnish and install "Weldwood" recessed or surface mounted Glazed Door Bulletin Boards as shown on drawings including ¼″ plate glass doors. Construction shall be of anodized aluminum channel frames, angles, and tubular casings, and shall be complete with plated piano hinges, locks, etc. Size of glass doors to be governed by height and width of casings.

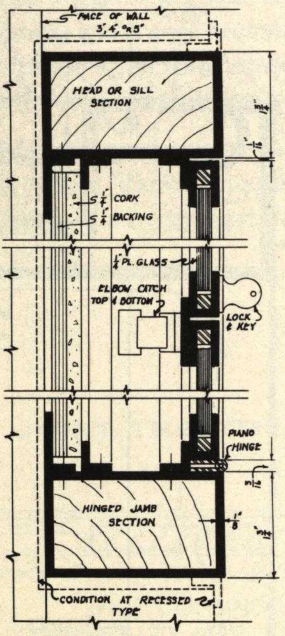
Optional—¼″ unframed plate glass doors with finger recesses and sliding door hardware and locks may be substituted for hinged type when specified.

Optional—Concealed fluorescent lighting may be furnished in the header by specifying it in conjunction with 5″ casing.

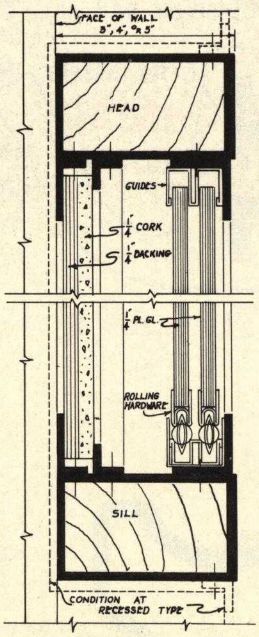
SPECIFICATION FOR DISPLAY AND TROPHY CASE FRONTS:

Furnish and install "Weldwood" fronts for all display and trophy cases as shown on drawings. Doors shall be ¼″ plate glass with anodized aluminum frame, angles and stops with continuous plated piano hinges and locks. Glass shelving and brackets as well as all millwork shall be furnished by others.

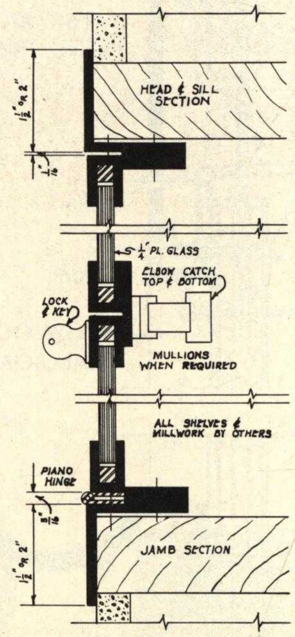
Optional—¼″ unframed plate glass doors with finger recesses and sliding door hardware and locks may be substituted for hinged type when specified.


FACE OF WALL
3″, 4″, OR 5″
HEAD OR SILL SECTION
1¼″
1/16″
¼″ CORK
¼″ BACKING
¼″ PL. GLASS
ELBOW CATCH TOP & BOTTOM
LOCK & KEY
PIANO HINGE
5/16″
HINGED JAMB SECTION
1/8″
1¼″
CONDITION AT RECESSED TYPE

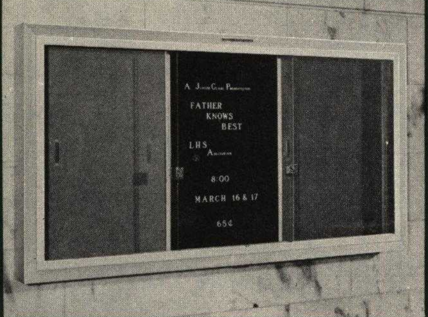
Hinged Surface Mounted or Recessed type Glazed Door Bulletin Board


FACE OF WALL
3″, 4″, OR 5″
HEAD
GUIDES
¼″ CORK
¼″ BACKING
¼″ PL. GL.
ROLLING HARDWARE
SILL
CONDITION AT RECESSED TYPE

Unframed Surface Mounted or Recessed type Rolling Glass Door Bulletin Boards

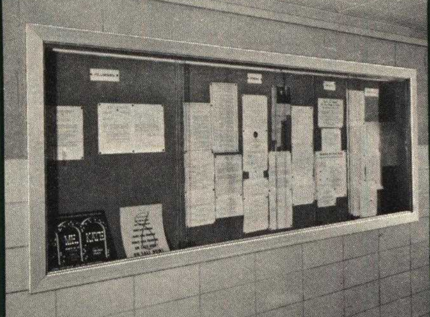

1½″ OR 2″
HEAD & SILL SECTION
1/16″
¼″ PL. GLASS
ELBOW CATCH TOP & BOTTOM
LOCK & KEY
MULLIONS WHEN REQUIRED
ALL SHELVES & MILLWORK BY OTHERS
PIANO HINGE
5/16″
JAMB SECTION
1½″ OR 2″

Hinged type Display Case Front Rolling type similar but as shown at center


FATHER
KNOWS
BEST
LHS
8:00
MARCH 16 & 17
654

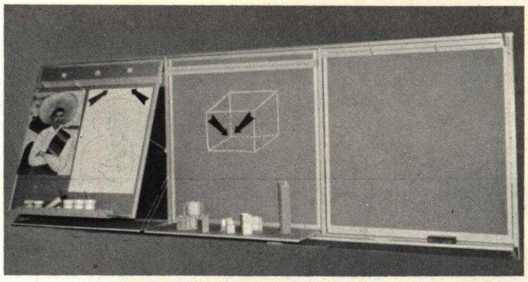
Illuminated Glazed Door
Bulletin and Directory Board
Lobby of Liberty High School, Bethlehem, Pa.
Lovelace & Spillman, Arch.

Hinged type Glazed Door
Bulletin Board
Eng. Building, Lafayette College, Easton, Pa.
Donald F. Innes, Arch.

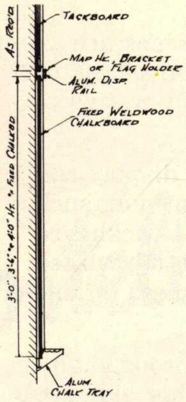


Recessed Illuminated
Bulletin and Display Case
Physics Building, University of Penna.
James R. Edmunds, Arch.

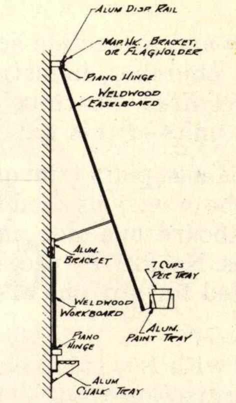
Weldwood MULTI-USE EASEL BOARDS



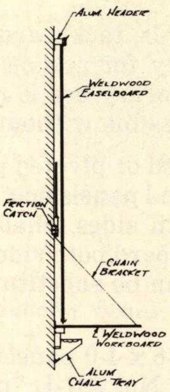
Elementary School, East Petersburg, Pa.


TACKBOARD
AS REQ'D
MAP HK., BRACKET OR FLAG HOLDER
ALUM. DISP. RAIL
FIXED WELDWOOD CHALKBOARD
3'-0", 3'-6", & 4'-0" HT. of FIXED CHALKBD
ALUM. CHALK TRAY

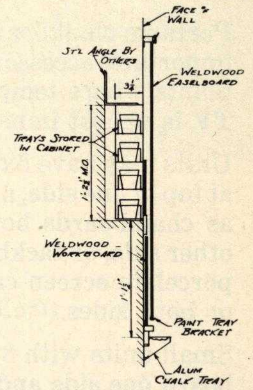
SEC. SHOWING FIXED CHALKBD. WITH TACKBD. OVER


ALUM DISP RAIL
MAP HK., BRACKET, OR FLAGHOLDER
PIANO HINGE
WELDWOOD EASELBOARD
ALUM. BRACKET
7 CUPS PER TRAY
WELDWOOD WORKBOARD
PIANO HINGE
ALUM. PAINT TRAY
ALUM CHALK TRAY

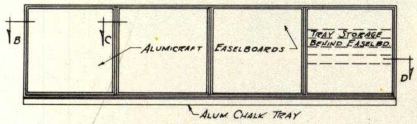
SECTION SHOWING EASELBD. EXTENDED & PAINT TRAY IN PLACE


ALUM. HEADER
WELDWOOD EASELBOARD
FRICTION CATCH
CHAIN BRACKET
℄ WELDWOOD WORKBOARD
ALUM CHALK TRAY

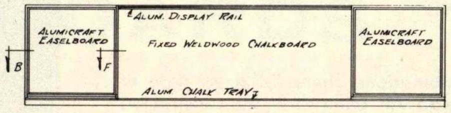
SECTION SHOWING WORKBOARD IN USE


FACE of WALL
STL ANGLE BY OTHERS
3 1/4"
WELDWOOD EASELBOARD
TRAYS STORED IN CABINET
1'-2 1/2" M.O.
WELDWOOD WORKBOARD
1'-1 1/2"
PAINT TRAY BRACKET
ALUM CHALK TRAY

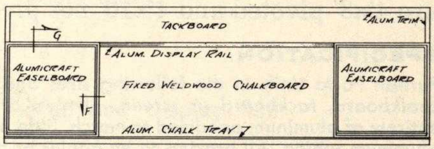
SECTION SHOWING EASELBD. CLOSED & STORAGE CABINET (WHEN REQ'D)


B
C
ALUMICRAFT EASELBOARDS
TRAY STORAGE BEHIND EASELBD.
D
ALUM CHALK TRAY

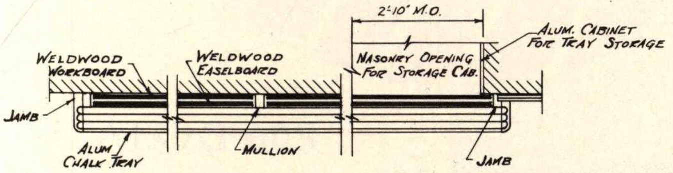
ELEVATION #1 SHOWING ADJOINING EASELBOARDS


ALUMICRAFT EASELBOARD
℄ ALUM. DISPLAY RAIL
FIXED WELDWOOD CHALKBOARD
ALUMICRAFT EASELBOARD
B
F
ALUM CHALK TRAY

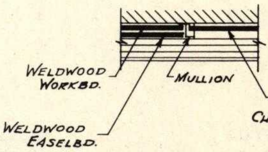
ELEVATION #2 SHOWING EASELBOARDS WITH FIXED BD. BETWEEN


TACKBOARD
℄ ALUM TRIM
G
℄ ALUM. DISPLAY RAIL
ALUMICRAFT EASELBOARD
FIXED WELDWOOD CHALKBOARD
ALUMICRAFT EASELBOARD
F
ALUM. CHALK TRAY

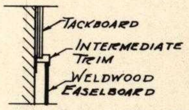
ELEVATION #3 SHOWING EASELBOARDS WITH FIXED BOARD BETWEEN & TACKBOARD OVER


2'-10" M.O.
ALUM. CABINET FOR TRAY STORAGE
WELDWOOD WORKBOARD
WELDWOOD EASELBOARD
MASONRY OPENING FOR STORAGE CAB.
JAMB
ALUM CHALK TRAY
MULLION
JAMB

JAMB SEC. B MULLION SEC. C JAMB SEC. D


WELDWOOD WORKBD.
MULLION
FIXED WELDWOOD CHALKBD.
WELDWOOD EASELBD.

MULLION SEC. F


TACKBOARD
INTERMEDIATE TRIM
WELDWOOD EASELBOARD

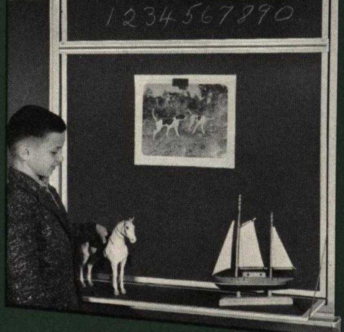
INTERMEDIATE SEC. G

Weldwood Multi-Use Easel Boards are designed to meet the varied uses required for teaching purposes, from kindergarten to high school, without having loose panels and loose workboards to handle and store. The teacher need not remove the panel or workboard to obtain the various combinations. The front panel acts as chalkboard and backboard. The workboard disappears behind the front panel when not in use. Both are permanently hinged to the framing members.

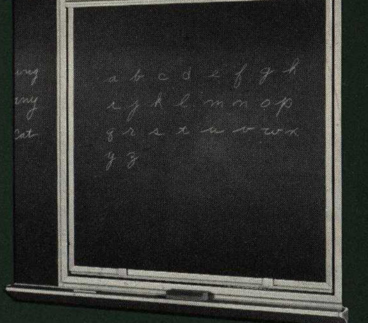
- The chalktray matches, and is continuous with that of adjacent fixed chalkboards. The top, or head member is made to align with adjacent aluminum framing —1¾″ wide. Standard panel sizes are to match 3′, 3′-6″ and 4′ heights of fixed boards and are 3′-0″ wide.

SPECIFICATIONS FOR MULTI-USE EASEL BOARDS:
Furnish and install Weldwood Multi-Use Easel Boards in single or multiple units, or adjacent to conventional chalkboards and/or tackboards as shown on the plans. Chalkboard panels shall be:—(specify type of Weldwood chalkboard). The workboards shall be of the same material and fold up behind the chalkboard panel. Both panels shall be framed in aluminum and permanently fastened to the exterior frame by means of continuous piano hinges. Panels shall be in multiples of 3′ with heights as shown.

Optional: Furnish paint tray storage cabinets as required. One (or more) per classroom at four trays per cabinet. G. C. is to leave recesses in wall to receive cabinets.



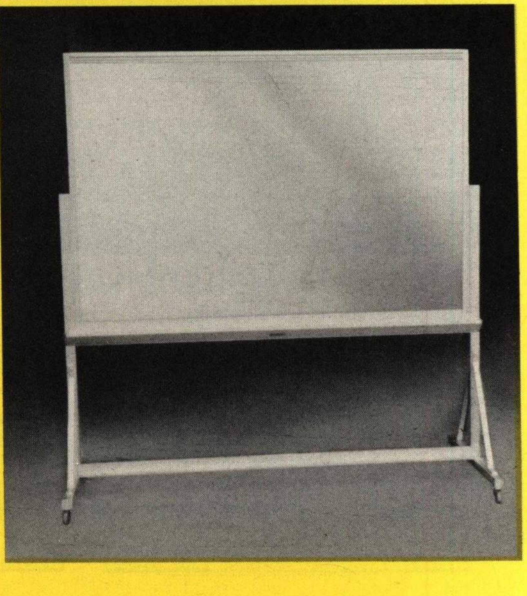
Easel type as Bulletin and Workboard



Easel type as Conventional Chalkboard

Easel type as Art Board

Weldwood PORTA UNIT



Portable chalkboards, tackboards and projection screens are an important accessory for schools, churches, industrial offices or plants where temporary use is required. Teaching by means of TV is almost impossible without units of this type.

Units may have fixed or pivoted panels, plain trim or display rail at top of one side, and panels may be of various combinations such as chalkboards both sides, chalkboard one side and tackboard other side, or tackboard both sides. No. 221-L "projection white" porcelain screen can be substituted for any one of these on one or both sides.

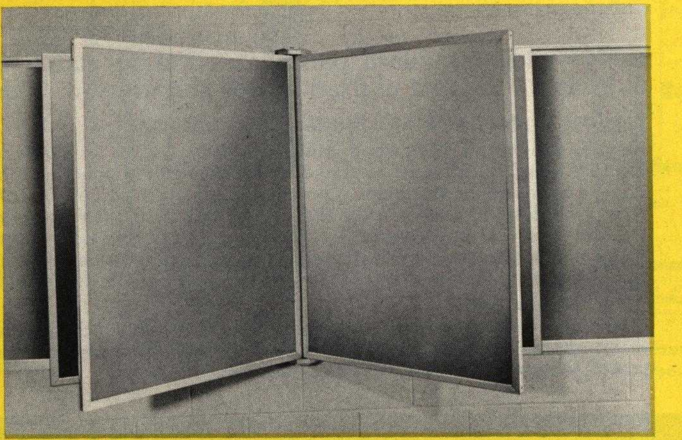
Small units with 3-6 x 4-0 panels with No. 151 Weldwood chalkboard one side and No. 221-L "projection white" other side are carried in stock for early shipment. All other sizes and combinations are built to specification. Maximum practical size panels are 4'x8' pivoted and 4'x10' not pivoted.

SPECIFICATION

Furnish Porta Units in the following sizes and combinations: *(here list sizes; type of chalkboard, tackboard or screen; pivoted or fixed)*. All units shall be constructed entirely of aluminum anodized to match. Side posts and bottoms are to be 1¾x1¾x⅛" aluminum tubing. All bracing to be angles or bars as shown. Furnish full length chalk tray and display rail with hooks and brackets on one side only. Casters to be ball-bearing type.

OPTIONAL—*Furnish one aluminum paint tray for each unit.*

Weldwood SWING LEAF BOARDS



"Weldwood" Swing Leaf Boards are invaluable where very little space is available. All exposed materials are aluminum including panel frames, pivot plates, angles and back (where required). Panels swing in full 180 degrees semi-circle. Panels may be of any combination of chalkboard, tackboard and projection screen. Standard size panels are 3'x3'6", 3'x4', and 3'6"x4' with height the larger dimension.

SPECIFICATION

Furnish and install "Weldwood" Swing Leaf Boards—4 (or 6) panels per unit as shown. Panels to be *(here specify size and combination)*. All exposed parts to be of anodized aluminum. Pivot pins to be tapped into steel reinforcement inside panel frame. Furnish 5"x¾" wall plate full height of unit with 4 anchors in bottom and 6 in top. Anchors must be through masonry wall or tapped into flush steel wall member supplied and installed by others.

United States Plywood Corporation
FLEXIBLE MATERIALS DIVISION
Box 85, Shelby Station · 2921 So. Floyd St., Louisville 17, Ky.

FORM NO. 2013-5910 LITHO IN U.S.A.

Weber Costello
CHALKBOARDS

CATALOG 60S

Architects and school administrators who are in the habit of specifying Weber Costello chalkboard know that their specification guarantees:

- superior quality products from a long-established chalkboard manufacturer
- prompt delivery and service from authorized franchise distributors
- the service of competent factory trained chalkboard engineers
- fewer maintenance problems
- genuine chalkboard satisfaction.

Chalkboards 2
Bulletin Board Corks 2
Molding for Chalkboard and Bulletin Board Cork 2
Map and Display Rail 3
Modular Units of Chalkboard and Bulletin Boards 4
Easy-Mount Units (Chalkboards and Bulletin Boards) 4
SLIDING UNITS (Chalkboards, Bulletin Boards, Display Cases) 5
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Aluminum Molding (Detail Drawings) 7
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WEBER COSTELLO
CHICAGO HEIGHTS, ILL. • TORONTO, ONT.

Weber Costello
CHICAGO HEIGHTS-TORONTO

WHAT YOU SHOULD KNOW ABOUT WEBER COSTELLO PRODUCTS

1. Since 1896

With Weber Costello the production of genuinely fine chalkboards is a business—not a sideline. For nearly three-quarters of a century research and production know-how have kept pace with current chalkboard trends, consistently setting standards of chalkboard excellence.

2. Guarantee

Weber Costello chalkboard is guaranteed to be free from defective material and imperfect workmanship for its normal lifetime—a guarantee that assumes real significance because it is backed by Weber Costello's reputation for consistent quality and supported by well-established local distributors.

3. Distribution

Weber Costello chalkboards are sold thru qualified stocking distributors, well-established firms well-known to architects, contractors and school men. Our field force of factory trained chalkboard engineers is available for consultation and service.

4. Samples

Write for samples. Weber Costello samples are cut from production runs. This is important for hand-made "sales samples" may or may not be representative of the chalkboard that will be delivered to the job.

5. The Right Chalkboard

For Every Requirement

There is a Weber Costello chalkboard for every requirement and to fit every budget. The Weber Costello name is your assurance that each is the finest chalkboard of its type.

CHALKBOARDS

Trade Name	Hyloplate	Hyloprest
TYPE OF BOARD	Laminated Long-Fibre Virgin Spruce.	Cushion Surface Processed Hardboard.
STRUCTURE	Chalkboard body laminated by Weber Costello is uniform and resilient. Moisture sealed. Velvety cushioned writing surface.	Long-fibre pulpboard bonded to hardboad to provide Hyloplate cushioned writing plus sturdy hardboard backing. Moisture sealed.
COLORS	Litesite Green and Jet Black	Litesite Green and Jet Black
WIDTHS	3½ and 4 ft.	3½ and 4 ft.
LENGTHS	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.
THICKNESS	.215 Inch	.290 Inch
SHIP. WT. PER SQ. FT.	1 lb.	1.5 lb.
INSTALL WITH	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method
USE METAL JOINT	No. 12	No. 14
SPECIFICATION	See page 8	See page 8

CORKBOARDS

Trade Name	Webtex 150	Webtex 151	Webtex 154
STRUCTURE	1/8" thickness of linen finish cork mounted on pulpboard backing. Backing is moisture sealed.	1/8" thickness of linen finish cork mounted on pulpboard backing. Backing is moisture sealed.	¼" thickness of linen finish cork mounted on hardboard backing.
COLOR	Nu-Tan	Soft Green	Nu-Tan
WIDTH	3½ and 4 ft.	3½ and 4 ft.	3½ and 4 ft.
LENGTH	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.
THICKNESS	5/16 Inch	5/16 Inch	½ Inch
SHIP. WT. PER SQ. FT.	1 lb.	1 lb.	1¾ lb.
INSTALL WITH	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method
USE METAL JOINT	No. 14	No. 14	16
SPECIFICATION	Bulletin Boards shall be: (Here specify one of the Bulletin Board		

Webco Map and Display Rail (See Page 6 For Detailed Drawings)

Single channel .0375 steel rail for holding individual maps or heavy map cases. Manufactured in nickel finish in 4 and 6-ft. lengths. Inverted rail channel cannot collect dust. No cork inserts—nothing to wear out or deteriorate. Easily installed with a screw driver. Use with hooks described below.

No. 1 Clip-Hook: Heavy hook for maps and map cases and strong spring clip for paper displays. May be attached or removed at any point. Cannot come loose accidentally. Nickel-finish.

No. 3 Display Hook: a spring steel clip for holding paper, cloth or cardboard displays. Hook is 4 inches long. Install under the same screws that hold map rail. In nickel finish.

CHALKBOARD - BULLETIN BOARD
ALUMINUM TRIM
MAP AND DISPLAY RAIL

Sterling	Crown	Metalsite	Vitoprest	Vitobest
Treated Cement Asbestos Specially Processed	Hardboard	Steel	Hardboard	Treated Cement Asbestos,
Manufactured to exclusive Weber Costello formula from Portland cement and long-fibre asbestos. Moisture sealed. Superior writing surface.	Dense, sturdy hardboard chalkboard body with satin smooth writing surface.	Single ply steel can be mounted direct to wall with or without backing material. Fine chalkboard writing surface.	Chalkboard body is specially processed, dense and sturdy. Scientifically applied writing surface for smooth, easy writing.	Long-lasting cement asbestos chalkboard body, manufactured to Weber Costello specifications, is sealed against moisture.
Litesite Green and Jet Black	LightGreen and Black.	Green and Black	LightGreen, Black, Contemporary Coral, Complimentary Brown, Luminary Olive Green, Twilight Blue	LightGreen, Black, Contemporary Coral, Complimentary Brown, Luminary Olive Green, Twilight Blue
3½ and 4 ft.	3½ and 4 ft.	3½ and 4 ft.	3½ and 4 ft.	3½ and 4 ft.
6 and 8, ft.	6, 8, 10, 12 ft.	6 and 8 ft.	6, 8, 10, 12 ft.	6 and 8, ft.
5/32 Inch	¼ Inch	.0516 Inch	¼ Inch ½ Inch	5/32 Inch
1.9 lb.	1.5 lb.	2.25 lb.	¼ Inch - 1. 5 lb. ½ Inch - 2.5 lb.	1.9 lb.
Webco No. 50 Cement Ventilated or Spot Method	Webco No. 50 Cement Centerline Method	Metalsite Mastic Solid Coverage	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Ventilated or Spot Method
No. 11	No. 12	No. 20	¼ Inch - No. 12 ½ Inch - No. 16	No. 11
See page 8	See page 8	See page 8	See page 8	See page 8

Webtex 155	Tac-On No. 1	Tac-On No. 2	Wood-Kor	Presko
¼" thickness of linen finish cork mounted on hardboard backing.	1/8" thickness open grain cork mounted on pulpboard backing Backing is moisture sealed.	¼" thickness open grain cork mounted on pulpboard backing Backing is moisture sealed.	1/8" thickness of linen finish cork Mounted on pulp core and hard backing.	1/8" thickness of pebble grain cork mounted on pulpboard backing. Backing is moisture sealed.
Soft Green	Tan	Tan	Web-Gray	Tan
3½ and 4 ft.	3½ and 4 ft.	3½ and 4 ft.	4 ft.	3½ and 4 ft.
6, 8, 10, 12 ft.	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.	8 ft.	6, 8, 10, 12 ft.
½ Inch	5/16 inch	7/16 inch	5/16 inch	5/16 inch
1¾ lb.	1 lb.	1¾ lb.	2 lb.	1 lb.
Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method	Webco No. 50 Cement Centerline Method
16	14	16	14	14

Corks listed above) as manufactured by Weber Costello Co., Chicago Heights, Illinois.

Litetrim Aluminum Trim

Beauty of design: Litetrim provides beauty for the chalkboard setting coupled with classroom utility. Only expertly designed, extruded aluminum can provide the architectural excellence and clean, graceful lines found in Litetrim.

Structural Strength: Litetrim is made of heavy .093 extruded primary aluminum alloy and is designed to withstand stress and strain. Curved chalk trough holds erasers out of the chalk dust — helps keep them clean.

Specifications and Detail Drawings: See page 7.

Number	30-700	30-701	30-702A & B
Description	Chalk and Eraser Rail	End Plate Assembly for ends of chalk Rail	Chalkboard and Cork Molding.
Lengths	6, 8, 10, 12 ft.	——	4, 6, 8, 10, 12 ft.
Number	30-704	30-705	30-706
Description	Corner Piece	Display Rail Molding for Top of Chalkboard	Combination Display Rail for Cork and Chalkboard
Lengths	——	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.

ODULAR MULTI-UNITS

CHALKBOARDS — BULLETIN BOARDS

READY-TO-HANG EASY-TO-MOVE

EDUCATIONALLY CORRECT FOR MODERN CLASSROOMS

Chalkboard and bulletin board units attractively framed in heavy, .093 gauge aluminum. Installation problems are eliminated. No backings are required. Units adjust outward 11 inches at bottom.

Flexibility: As enrollments vary from year-to-year Modular Multi-Units may be moved from room to room, into temporary classrooms or from school to school. By providing alternate hangers the units may be moved from place to place to serve various centers of interest.

	Chalkboard		Chalkboard		Cork		Plastic Fibre	
UNIT NO.	70-540	70-540½	70-541	70-541½	70-542	70-543	70-546	70-547
SIZE	4 X 8′	4 X 4′	4 X 8′	4 X 4′	4 X 8′	4 X 4′	4 X 8′	4 X 4′
COLOR	Litesite Green		Litesite Green		Web-Gray		Available colors as selected	
MAP RAIL AT TOP	yes	yes	no	no	no	no	no	no
CHALKTROUGH	yes	yes	yes	yes	no	no	no	no
WEIGHT	75	48	45	39	39	23	39	23
SHIP. WEIGHT	102	56	72	57	72	41	72	41
BOARD STRUCTURE	Hyloprest Chalkboard has layer of long-fibre pulpboard laminated to treated hardboard. Excellent writing surface. Total thickness .290 inches.				1/8″ layer of fine grained cork laminated to Wood-Kor backing.		Heavy layer of textured fabric laminated to wood fibre backing.	
FRAMES	Extruded from durable primary aluminum, minimum .093 gauge. Attractive anodized finish.							
INSTALLATION	Suspend from two hangers provided with each unit. Attach hangers with lead shield anchors provided. Install striker plate at bottom to engage magnetic power latch. Magnetic locking device permits removal of unit from wall or the unit may be swung outward at bottom to provide inclined working surface.							
SPECIFICATION	All chalkboard Units shall be Weber Costello Modular Multi-Units 4 x 8′ (or 4 x 4′) with map rail (or plain molding) at top and chalk trough the full length of unit.				All Bulletin Board Units shall be Weber Costello Modular Multi-Units of cork (or plastic bulletin board) 4 x 8′ (or 4 x 4′).			

WEBCO EASY-MOUNT (CHALKBOARDS) UNITS (BULLETIN BOARDS)

READY FRAMED EASY-TO-HANG

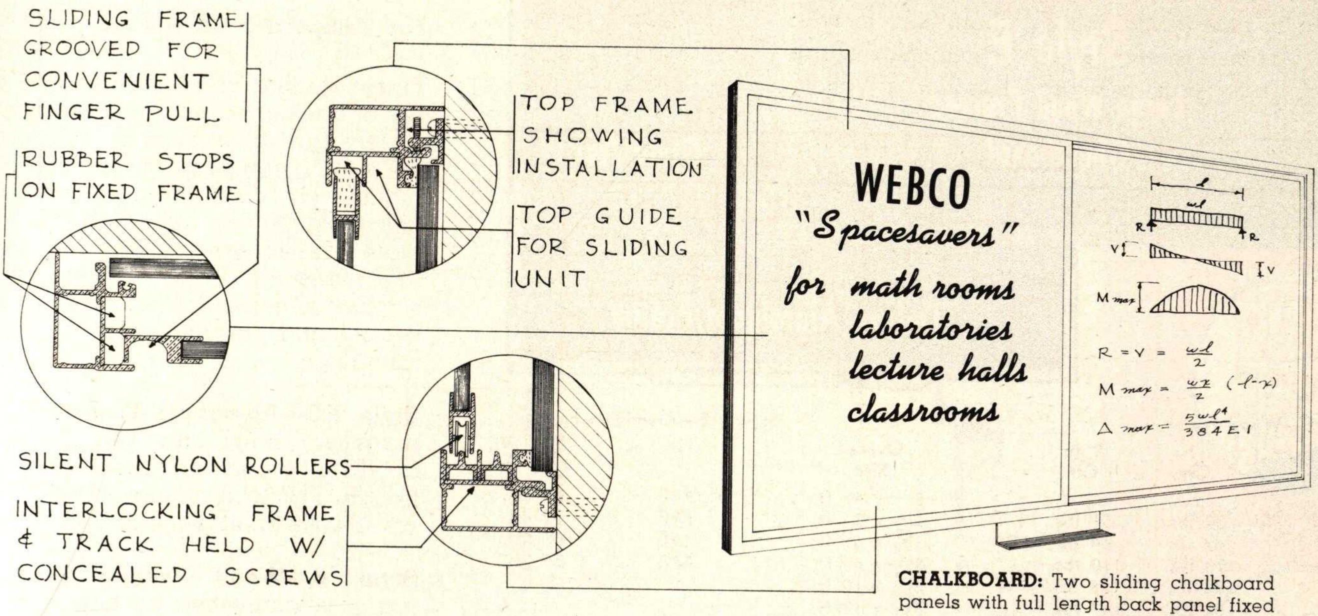
EASY-TO-MOVE TO ALTERNATE LOCATIONS

Durable, factory built chalkboards and bulletin boards. Prefabricated and delivered to the job ready to hang on the wall. Engineered to add flexibility to both new classrooms and renovation programs. No backing or special wall preparation is required. Installation costs are virtually eliminated and units may easily be moved to other locations, as required from year to year. Heavy-gauge, continuous aluminum channel molding has turned corners to eliminate sharp edges. Concealed hangers. Although Webco Easy-Mounts do not have some of the deluxe features of the Modular Multi-Units described above, they are truly the finest units available where both preframed construction and economy are desired.

	CHALKBOARD	CORK BULLETIN BOARD
LENGTHS	4, 6, 8, 10, 12 ft.	4, 6, 8, 10, 12 Ft.
WIDTHS	3½ and 4 Ft.	3½ and 4 Ft.
COLORS	Black, LightGreen, Contemporary Coral, Complimentary Brown, Luminary Olive Green, Twilight Blue.	Tan
CHALK TROUGH	Yes	No
STRUCTURE	½ Vitoprest Chalkboard in sturdy channel aluminum molding.	1/8″ cork surface built up to total thickness of ½ inch.
INSTALLATION	Suspend from two concealed hangers at top. Attach to wall at bottom with two concealed screws set in predrilled holes in frame beneath the chalktrough.	Suspend from four concealed hangers - one in each corner of unit.
SHIP. WEIGHT	Approximately 2½ lbs. per sq. ft.	Approximately 1¾ lbs. per sq. ft.
SPECIFICATION	Chalkboards shall be Webco Easy-Mount Units as manufactured by Weber Costello Co., size (here indicate size), color (here indicate color).	Bulletin Boards shall be Webco Easy-Mount Units as manufactured by Weber Costello Co., size (here indicate size), Color Tan.

WEBCO SLIDING UNITS

Chalkboards — Bulletin Boards — Display Case Facings


SLIDING FRAME GROOVED FOR CONVENIENT FINGER PULL
RUBBER STOPS ON FIXED FRAME
TOP FRAME SHOWING INSTALLATION
TOP GUIDE FOR SLIDING UNIT
SILENT NYLON ROLLERS
INTERLOCKING FRAME & TRACK HELD W/ CONCEALED SCREWS
WEBCO
"Spacesavers"
for math rooms
laboratories
lecture halls
classrooms
R = V = wl/2
M max = wx/2 (l-x)
Δ max = 5wl⁴/384EI

CHALKBOARD: Two sliding chalkboard panels with full length back panel fixed permanently to the wall.

Unit	Height	Lengths	Depth	Sliding Panel Size	Available Combinations	Locking Assembly
Chalkboard	4 Ft.	6 Ft.	1 13/16"	4 x 3 Ft.	Sterling or Vitoprest Chalkboards; Webtex Corks; Glass Doors	Optional On All Units
Corkboard		8 Ft.		4 x 4 Ft.		
Display Case Facing		10 Ft.		4 x 5 Ft.		

SPECIFICATIONS: Chalkboards (or Bulletin Boards), (or Display Case Facing) shall be Webco Sliding Units, height 4 ft., overall length 6, 8 or 10 ft., as manufactured by Weber Costello Company and installed according to the manufacturer's instructions.

ASSEMBLY AND INSTALLATION

Assembly: Assemble units on the job or order factory assembled.

Installation: Attach mounting brackets at top and bottom of unit. Fix back panel of cork or chalkboard permanently to the wall. Lock unit frame to wall brackets with concealed set screws.

Display Case Facing: Attach unit frame to display cabinet—either recessed or built out from wall. Two sliding glass panels are completely framed. Glass for doors is supplied with unit or may be obtained from local source.

FEATURES

Frames: Heavy gauge, anodized aluminum, smartly styled with clean lines to add beauty and facilitate ease of maintenance.

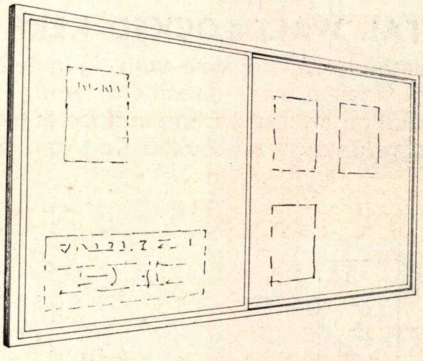
Sliding Mechanism: Panels glide quietly on nylon wheel assemblies rolling on raised aluminum track. Track is removable for easy cleaning. Rubber bumpers in each end of frame.

Die-Cast Mitre Brackets: Insure securely locked, tight fitting frame and mitres.

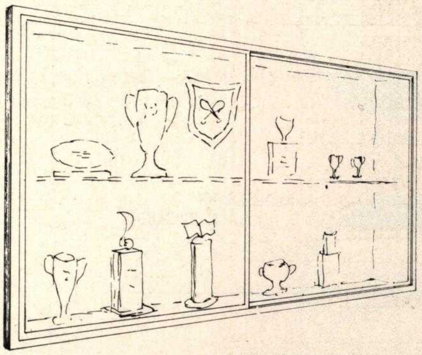
Interchangeable Panels: Sliding panels may be easily interchanged (chalkboard panel replaced by cork, etc.) or removed for easy cleaning and maintenance.

Chalkboard: World's finest chalkboard surface for smooth writing and easy erasing. In eye-restful green or conventional jet black.

Webtex Corkboard: In Nu-Tan or Soft Green (See page 2)



CORK BULLETIN BOARD: Two sliding panels with full length back panel. Combined with chalkboard or glass doors in any desired combination.



DISPLAY CASE FACING: Two sliding glass doors. Attach to face of display case. Locking device is optional.

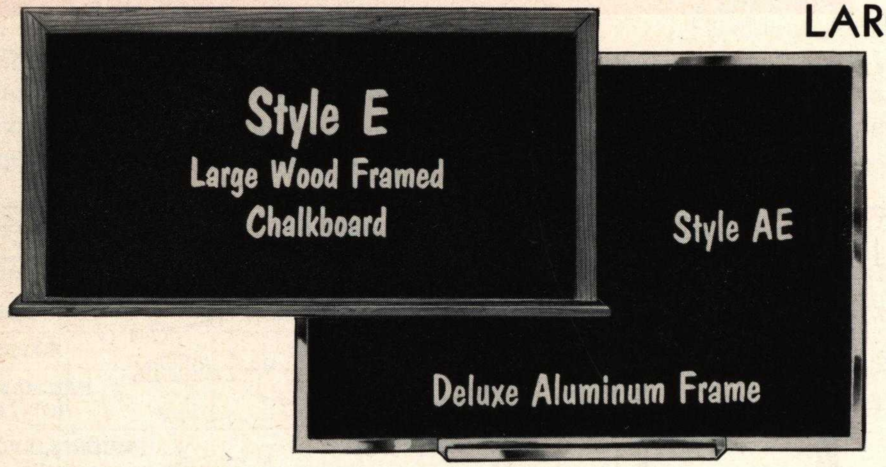
LARGE WALL CHALKBOARDS

For Temporary Classrooms

Finest quality chalkboards in a variety of sizes to serve many needs. Completely framed and ready to hang on the wall. Large sizes are ideal for classrooms, churches training programs, office or factory use. Genuine Hyloplate Chalkboard in Black or Litesite, the refreshing green chalkboard designed for better seeing. Litesite brings beauty and pleasing color to any surroundings.

Style AE—Aluminum Frame: A truly attractive chalkboard with heavy-duty anodized aluminum frame and chalk trough. Frame is equipped with hangers. Choice of Jet Black or Litesite green.

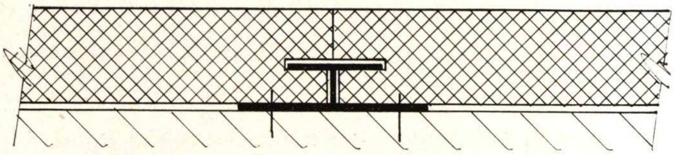
Style E—Wood Frame: Ponderosa frame is unfinished so that it can be painted or varnished to match other woodwork. Choice of Jet Black or Litesite Green. Specify Color.

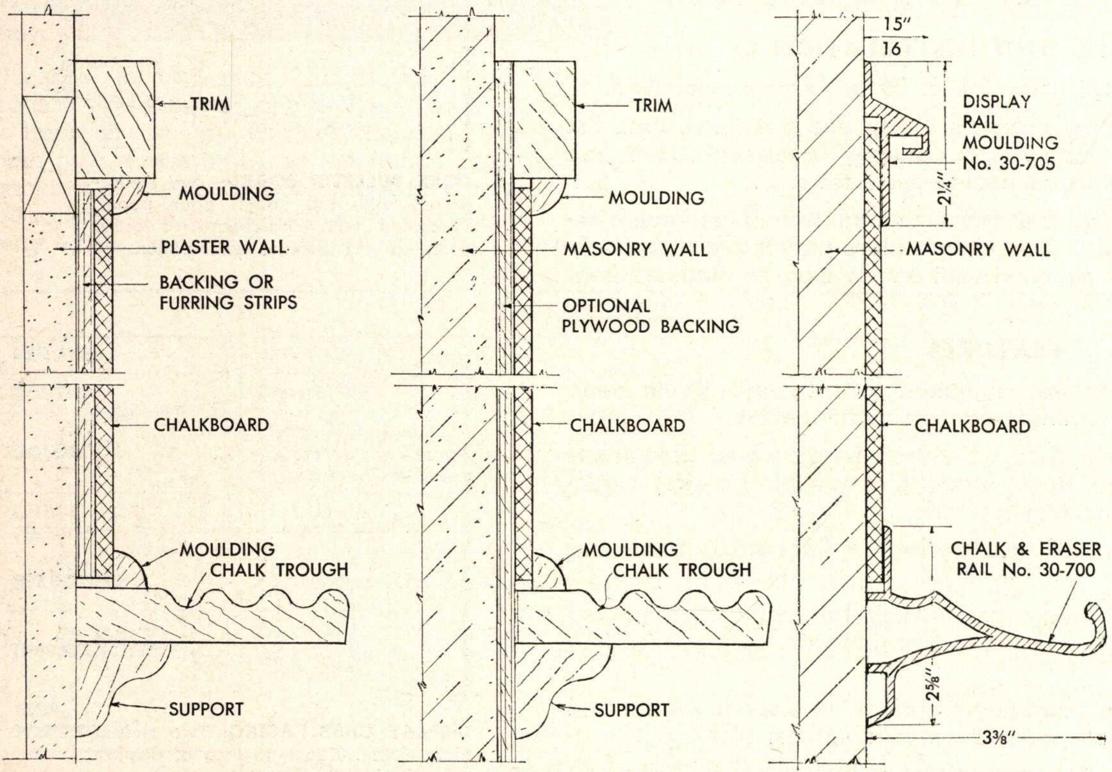

Style E
Large Wood Framed
Chalkboard
Style AE
Deluxe Aluminum Frame

Style E—Wood Frame				Style AE—Aluminum Frame	
No.	1 to Ctn.	2 to Ctn.	Overall Size	No.	Ship. Wt. 1 to Ctn.
......	....	....	3 x 4 ft.	OAE	29 lbs.
1E	30 lbs.	51 lbs.	3½ x 5 ft.	1AE	35 lbs.
2E	42 lbs.	64 lbs.	3½ x 6 ft.	2AE	45 lbs.
4E	70 lbs.	110 lbs.	3½ x 8 ft.	4AE	54 lbs.
6E	88 lbs.	128 lbs.	3½ x 10 ft.	....	....
8E	103 lbs.	147 lbs.	3½ x 12 ft.	....	....
12E	42 lbs.	65 lbs.	4 x 6 ft.	12AE	50 lbs.
14E	58 lbs.	90 lbs.	4 x 8 ft.	14AE	64 lbs.
16E	110 lbs.	140 lbs.	4 x 10 ft.	....	....
18E	142 lbs.	185 lbs.	4 x 12 ft.	....	....

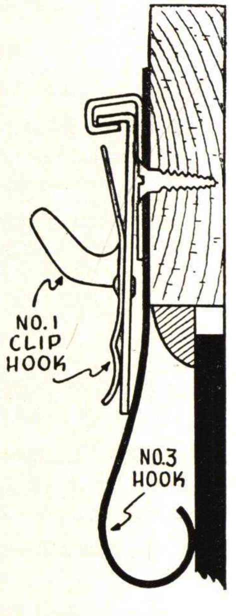
METAL WALL-LOCKED KERF & SPLINE

Concealed joint for use with ½-inch Vitoprest Chalkboard. Fasten joint directly to wall. Permits butt-joint installation so that writing surface is free of metal joint. Specify Metal Wall-Locked Kerf and Spline Joint 16K.




TRIM
MOULDING
PLASTER WALL
BACKING OR FURRING STRIPS
CHALKBOARD
MOULDING
CHALK TROUGH
SUPPORT
TRIM
MOULDING
MASONRY WALL
OPTIONAL PLYWOOD BACKING
CHALKBOARD
MOULDING
CHALK TROUGH
SUPPORT
15"
16
DISPLAY RAIL MOULDING No. 30-705
2¼"
MASONRY WALL
CHALKBOARD
CHALK & ERASER RAIL No. 30-700
2⅝"
3⅜"

DETAIL DRAWINGS OF TYPICAL CHALKBOARD INSTALLATIONS


NO. 1 CLIP HOOK
NO.3 HOOK

WEBCO MAP RAIL

Easily installed over wood or metal molding. No. 1 Clip-Hook Holds maps or map cases and can be attached or removed at any point. No. 3 Clip-Hook is for paper displays. Nickel finish.

LITETRIM ALUMINUM TRIM

	#30-700 Chalk and Eraser Rail	*#30-702A, #30-702-B Side and Cork Molding	#30-705 Display Rail Molding	#30-706 Combination Display Rail Moldg.
Lengths	6, 8, 10, 12 ft.	4, 6, 8, 10, 12 ft.	6, 8, 10, 12 ft.	6, 8, 10, 12 ft.

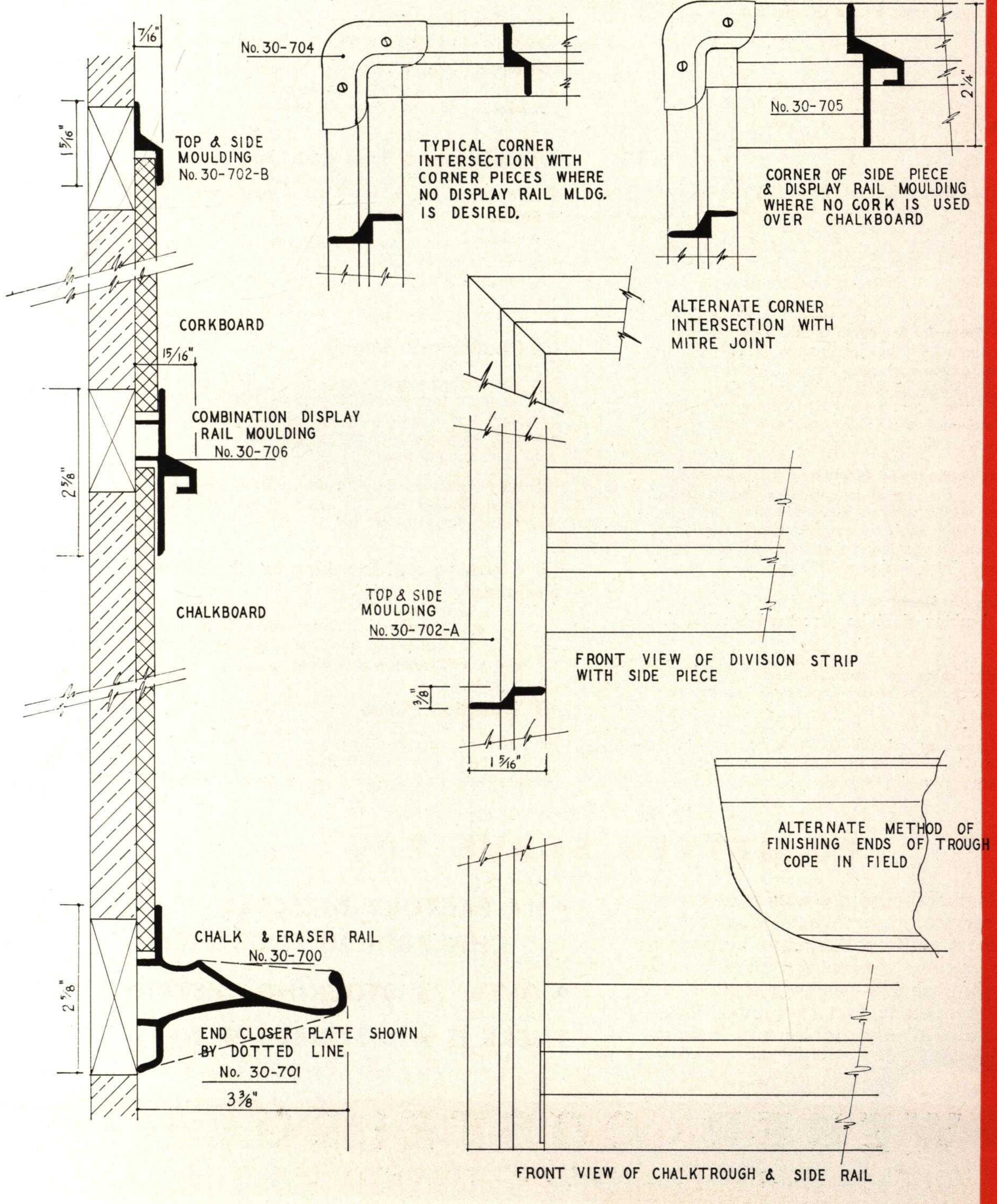
*Use 30-702A for Hyloplate, Sterling, Vitobest Chalkboards and ¼" cork carpet.

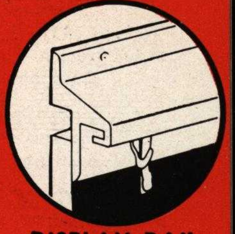
*Use 30-702B for Hyloprest, Crown and Vitoprest Chalkboards and all 5/16" corks listed on pages 2 and 3.

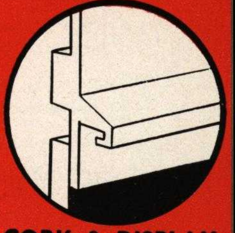
SPECIFICATION

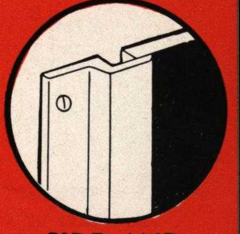
MATERIAL: All chalk trough and trim shall be LITETRIM as manufactured by Weber Costello Co., and shall be furnished in stock lengths, cut to fit on the job. All sections shall be extruded primary aluminumalloy not less than .093 gauge. End plates and corners shall be provided as specified.

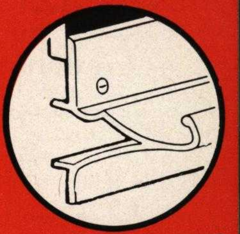
INSTALLATION: After setting chalkboards and cork, chalk trough and trim shall be accurately fitted and fastened in place with aluminum screws provided by the manufacturer.

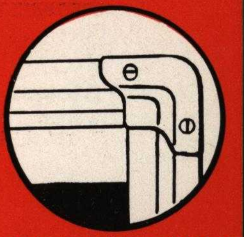

7/16"
No. 30-704
1 5/16"
TOP & SIDE MOULDING No. 30-702-B
TYPICAL CORNER INTERSECTION WITH CORNER PIECES WHERE NO DISPLAY RAIL MLDG. IS DESIRED.
2 1/4"
No. 30-705
CORNER OF SIDE PIECE & DISPLAY RAIL MOULDING WHERE NO CORK IS USED OVER CHALKBOARD
CORKBOARD
ALTERNATE CORNER INTERSECTION WITH MITRE JOINT
15/16"
COMBINATION DISPLAY RAIL MOULDING No. 30-706
2 5/8"
TOP & SIDE MOULDING No. 30-702-A
CHALKBOARD
FRONT VIEW OF DIVISION STRIP WITH SIDE PIECE
3/8"
1 5/16"
ALTERNATE METHOD OF FINISHING ENDS OF TROUGH COPE IN FIELD
CHALK & ERASER RAIL No. 30-700
2 5/8"
END CLOSER PLATE SHOWN BY DOTTED LINE No. 30-701
3 3/8"
FRONT VIEW OF CHALKTROUGH & SIDE RAIL

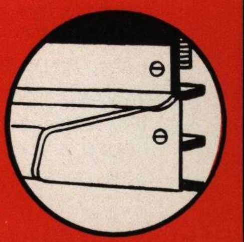

DISPLAY RAIL MOLDING


CORK & DISPLAY RAIL MOLDING


SIDE AND CORK MOLDING


CHALK & ERASER RAIL


LITE TRIM CORNER


ERASER RAIL END PLATE

SPECIFICATIONS

NOTE: Under Section C1 use only the paragraph applicable to the Weber Costello chalkboard you are specifying.

(A) Carpentry Work

(A1) Chalkboards shall be furnished and set by the contractor. He shall be entirely responsible for their good condition after delivery: (List chalkboards required).

(A2) Provide accurately set backings surrounding all chalkboards and moldings in accordance with the detailed drawings supplied by the architect.

(A3) When chalkboards are installed on masonry, the masonry shall be given two coats of moisture-proof paint.

(B) Painting (Omit if Aluminum Trim is used)

(B1) All chalkboard trim (except inner loose tack mold) shall be completely finished before chalkboards are set.

(B2) The inner loose tack mold of chalkboard trim shall be finished up to the last coat before installation.

(C) Materials

(C1) Chalkboards — Chalkboards shall be: (Here insert one of the following specifications or specify Modular Multi-Units, Webco Easy-Mount Units, or Webco sliding units (see pages 4 and 5).

HYLOPLATE Litesite Green (or Jet Black Hyloplate) as manufactured by Weber Costello Co., Chicago Heights, Ill. Any other board which the contractor may consider shall be submitted for approval and if the cost of such board is less than that of Hyloplate the contractor shall refund the difference to the owner, or if a board costing more is approved the owner will reimburse the contractor.

STERLING Litesite Green (or Jet Black Sterling) as manufactured by Weber Costello Co., Chicago Heights, Ill. Any other board which the contractor may consider shall be submitted for approval and if the cost of such board is less than that of Sterling the contractor shall refund the difference to the owner, or if a board costing more is approved, the owner will accordingly reimburse the contractor.

HYLOPREST Litesite Green (or Jet Black) as manufactured by Weber Costello Co. The backing shall be hardboard, treated and sealed by Weber Costello methods against moisture. To the backing shall be applied one lamination of spruce fibre board to provide the cushioned Hyloplate-type writing surface. Total thickness .290 inches.

CROWN LightGreen (or Black) as manufactured by Weber Costello Co. The backing shall be processed hardboard, ¼" thick.

VITOPREST (Specify color) as manufactured by Weber Costello Co. The backing shall be processed hardboard, ¼" thick.

VITOBEST LightGreen (or Black) as manufactured by Weber Costello Co. The backing shall be cement-asbestos, 5/32" thick, specially treated and sealed against moisture.

METALSITE Green (or Black) as manufactured by Weber Costello Co., with writing surface applied to 18 gauge steel with no backing required.

All chalkboards shall have surfaces perfectly true and uniform, and free from defects. Joint edges shall make angles of 90 degrees with top or hanging edge. Bottom edge shall be parallel with the top edge.

(C2) Cement — Cement for erecting chalkboard and bulletin boards (not un-mounted cork) shall be Weber Costello's Webco No. 50 Cement.

(C3) Metal Chalkboard Joints — Chalkboard joints shall be made with W. C. Rustproof Metal Joints, slated finish.

(C4) Chalkboard Molding — Moldings shall be Litetrim Aluminum Moldings as manufactured by Weber Costello Co. (or wood moldings) according to detailed drawings supplied by the architect.

(C5) Display Rail — Display rail shall be Webco Map and Display Rail as manufactured by Weber Costello Company.

(C6) Bulletin Boards — Bulletin boards shall be: (Here specify one of the corks listed on pages 2 and 3) . . . as manufactured by Weber Costello Company.

(D) Chalkboard Sizes and Lengths

(D1) Widths — All widths shall be as shown on architect's drawings (3½ ft. or 4 ft.).

(D2) Lengths — All sections shall be in multiples of manufactured lengths: (Hyloplate, Hyloprest, Vitoprest, and Crown—6, 8, 10 and 12 ft., Sterling, Vitobest, Metalsite — 6 and 8 ft.)

(E) Chalkboard Setting

(E1) Chalkboard erection shall be in accordance with Weber Costello's installation directions, details of which are furnished with each shipment. Wall backing, of whatever material, shall be thoroughly dry. (E2 does not apply if aluminum trim is used).

(E2) No chalkboard shall be set until the final coat of finish has been applied and has dried on the chalkboard woodwork trim (except loose tack mold).

(F) Cleaning and Breaking in Chalkboard Surfaces

Upon completion, the contractor shall clean and properly break in all chalkboard surfaces and leave these surfaces in perfect, ready-to-use condition.

(G) Direction Plates

In each room fasten permanently, where directed by architect, the instruction plate furnished by Weber Costello bearing directions for breaking in and care of chalkboard.

TO BETTER SERVE YOU

The Weber Costello chalkboard program is designed to provide total service to architects, contractors, School Administrators and the ultimate classroom user thru: (1) top quality chalkboard products (2) stocked and sold thru reliable, well-established distributors, plus (3) competent, factory-trained chalkboard experts to assist in any problems of installation and maintenance.

- **14 FACTORY DIRECTED CHALKBOARD ENGINEERS**
- **OVER 75 STOCKING DISTRIBUTORS**

THERE IS A DISTRIBUTOR NEAR YOU

WEBER COSTELLO

CHICAGO HEIGHTS, ILLINOIS - - - TORONTO, ONT.

Printed in U.S.A.

AMES

STEEL LIBRARY EQUIPMENT

FREESTANDING STEEL SHELVING

23f
Am

Ames Freestanding Shelving provides convenient, economical book storage facilities adaptable to any library floor plan. Consisting of a simple skeleton frame which supports cantilevered "bracket-type" shelving, it is simple to install and rigidly constructed to withstand the heaviest book loads. Rearrangement or relocation is quickly accomplished. Existing installations are easily expanded to meet growing needs.

Ranges are made up of one or more 3-foot units, and may be lengthened or shortened at any time by adding or removing these units. The initial unit for each range has two uprights. Additional units used to extend the range require only one upright since they are added to the initial unit. Base supports are equipped with leveling screws, eliminating any need for shims. To harmonize with the library interior, Ames offers a wide range of finish colors at no extra cost.

SPECIFICATIONS for Freestanding Bracket-Type Steel Library Shelving

NOTE: This specification is intended as a convenience for architects and others specifying *standard* steel bookstack equipment. Special equipment should be specified in detail. Specifications are available for all library equipment and accessories.

GENERAL DESCRIPTION: The shelving shall be Bracket-Type Freestanding Steel Library Shelving. Ranges shall be held upright without the use of transverse bracing between ranges and shall be composed of sectional units so that one or more compartments of a range may be removed without affecting the stability of the remaining compartments.

SHELVING: All book shelves shall be 18-ga. steel formed to a ¾" deep open box section at front and back edges. Brackets for book shelves shall be 16-ga. steel with front and top edges rolled outward, approximately ¼". The front upper corner shall be rounded to a generous radius. The back edge shall have two hooks for support and one lug to maintain alignment and to prevent accidental dislodgment of brackets. Brackets shall be joined to shelves without fastenings. The bracket shall have a smooth, continuous hem into which the shelf end nests, leaving no raw edge or visible lugs. Brackets shall remain upright when shelves are removed, for ease in relocating. The complete assembly of shelf and bracket, when hung on uprights, shall be capable of supporting a uniformly distributed load of 40 lbs. per sq. ft. with no permanent distortion.

The space below bottom shelves shall be closed by means of kick plates installed below bottom shelf.

Each single-faced section shall be equipped with one bottom shelf and six adjustable shelves. It is important that these shelves be identical in construction and all contain the rolled outward flange to prevent knifing of books at any level. Base shelf should be 10" (or 12") deep to provide maximum stability. Adjustable shelves should be 8", or as specified by architect or librarian.

UPRIGHTS: The uprights shall be of tubular construction of no less than 18-ga. steel and shall be perforated to receive hooks of shelf brackets for adjustability at 1" centers. At least every sixth slot shall be distinctively shaped for easy shelf leveling. This upright shall be of welded construction and not rely on fastenings to hold the halves together. The column base shall consist of a channel-shaped member having an offset pocket into which the column is inserted and to which it is bolted in position. The base shall be designed to prevent damage to floor covering by maximum distribution of load and elimination of sharp edges bearing on floor. Base member shall extend the full depth of shelving and shall have a leveling screw at the outer ends to compensate for irregularities in the floor surface. Leveling screws shall bear on the flange of kick plate, affording complete protection of floor covering. Longitudinal stability shall be provided by diagonal sway braces for double-faced units and by suitable wall clips for single-faced units.

FINISHED END PANELS: Where indicated on plans, 18-ga. steel panels shall be installed at the ends of ranges. Panels shall be triple flanged at vertical edges. The front vertical corner shall be formed to ¾" radius. Panels shall be of sufficient width so that base shelf does not project beyond panel edge.

ACCESSORIES: As specified by architect or librarian.

FINISH: All material shall be thoroughly cleaned before painting. All parts shall be finished in Alkyd-Urea type enamel, baked on with the proper temperature-time relationship to insure thorough curing and a tough, durable finish. The paint shall be applied by the electrostatic method to insure thorough coverage and uniform thickness and density.

The finish color shall be selected by the owner from 18 color samples submitted by the manufacturer, or as designated by architect or owner.

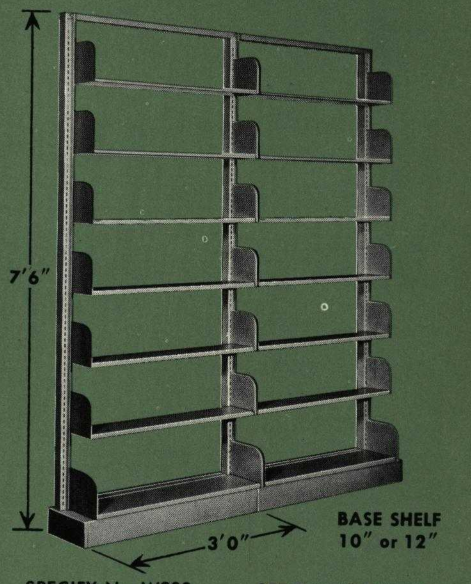
INFORMATION WHEN ORDERING

Ames' *sectional* construction means that additional 3-ft. units may be added to a range at any time. It is important in ordering to distinguish between an *initial* unit which requires two columns and an *additional* unit which requires but one column and associated shelves and hardware. To place an order for standard equipment, the following information is necessary:

1. Number of ranges.
2. Number of 3' units per range
3. Type of range: single or double-faced
4. Type of end closure: end panel or plain
5. Depth of base shelf: 10" or 12"
6. Number of adjustable shelves
7. Depth of adjustable shelves: 8", 10" and 12"
8. Accessories required, such as: range index holders, shelf label holders, card frames, book supports.
9. Color desired.

Children's height (5' 0") shelving and counter height (3' 6") shelving are available as standard equipment. Shelving of any other height is available on request . All heights can be supplied single or double-faced.

SINGLE-FACED Shown plain, without end panels

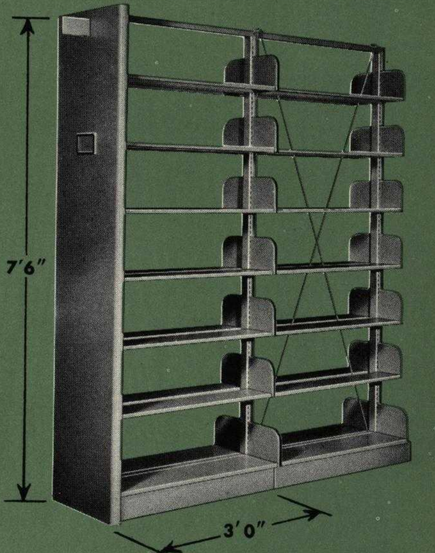


BASE SHELF
10" or 12"

SPECIFY No. W90S
(initial unit)

SPECIFY No. W90A
(additional unit)

DOUBLE-FACED Shown with end panel



SPECIFY No. DEP90
(end panel)

SPECIFY No. D90S
(initial unit)

SPECIFY No. D90A
(additional unit)

W. R. AMES COMPANY
50 Years of Quality

AMES
SHELVING
DIVISION

1001 Dempsey Road • Milpitas, Calif.

A. I. A. FILE NO. 35-B-2

AMES

STOR-MOR BOOK DRAWERS

(Trade Mark)

Compact Storage Adaptable to All Libraries

DOUBLE YOUR STORAGE CAPACITY

Ames' library equipment engineers have designed Stor-Mor Book Drawers* to provide the most efficient use of available floor space. By utilizing every other range aisle in the stack area, Stor-Mor Book Drawers permit the storage of up to twice as many books as regular shelving occupying the same amount of floor space, without decreasing the aisle width.

EASILY INSTALLED IN PRESENT LIBRARIES

Installations of freestanding or multi-tier shelving are readily converted to compact storage. Existing uprights serve as the supports for Stor-Mor Drawers which span the aisle between ranges of conventional bracket-type bookstacks of either freestanding or multi-tier construction. Drawer assemblies, with uprights if required, may be purchased for one or more sections of a range progressively, or complete conversion can be made immediately.

IDEAL FOR NEW CONSTRUCTION

The space-saving features of Stor-Mor Book Drawers make possible major economies in the building of new libraries. With less floor area required for book storage, the size of the building may be reduced, or additional space made available for other activities.

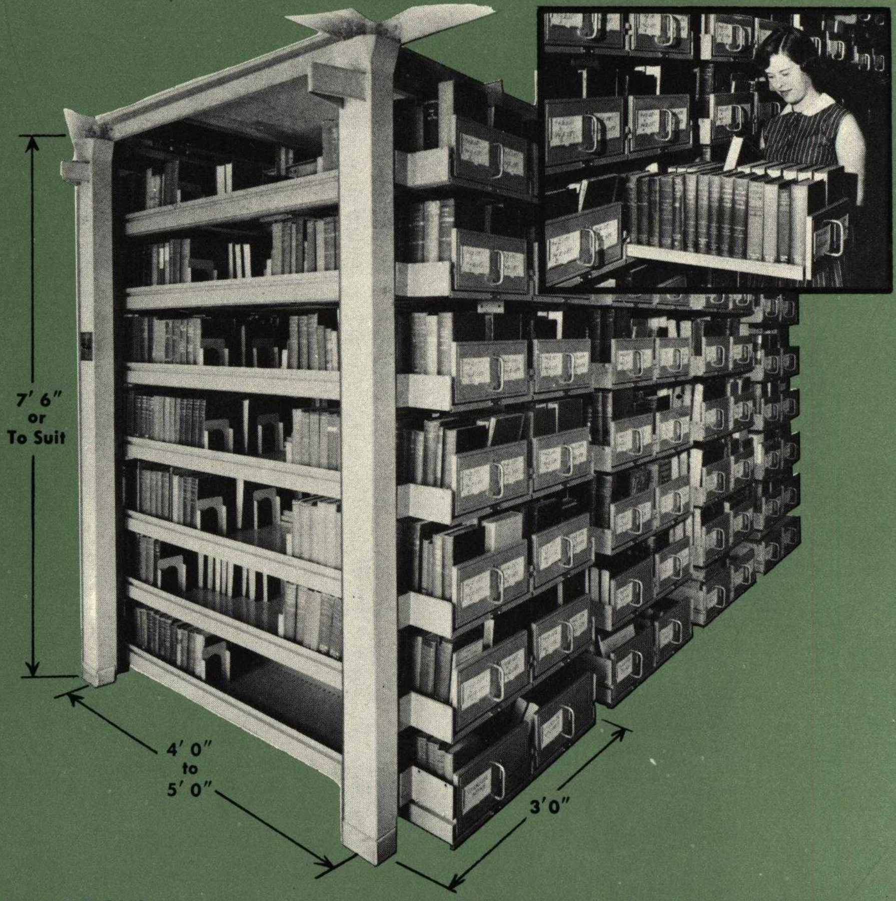
DRAWERS INTERCHANGE WITH SHELVES

Stor-Mor Book Drawers are interchangeable with regular shelving at will. At any time they may be moved to other similar uprights. The shelves they replace are shifted to the uprights vacated by the drawers.

EFFORTLESS, TROUBLE-FREE OPERATION

Running lightly on ball-bearing rollers, the all-steel Stor-Mor Drawers open and close easily and quietly with less than 3-pounds pull. Drawers are held securely in the closed position by a positive-locking catch. Books are held in place by adjustable book supports which hook into drawer. To accommodate volumes of varying sizes, drawers are adjustable to any desired height on the supporting columns.

Smooth-operating Stor-Mor Drawers roll open with an easy three-pound pull.



SPECIFICATIONS for Stor-Mor Book Drawers

SCOPE OF WORK: Furnish all material, labor, and equipment necessary to provide a complete installation of Compact Book Storage for: (A or B)

A. New Installation: The compact storage book drawers shall be supported by slotted tubular uprights together with all necessary base plates, spacers and bracing as ordinarily used for conventional bracket-type bookstack construction, either multi-tier or single-tier as shown on plans or as otherwise specified below.

B. Adaptation to Existing Installation: The compact storage book drawers shall be supported by existing bookstack uprights. All drawer loads shall be transmitted to existing uprights and no additional loads shall be imposed on stack floors except at existing uprights.

DRAWER ASSEMBLY—General Description of Function: The intent of this specification is to describe a drawer assembly which can be supported on bracket-type bookstack uprights spaced in the same manner required for the support of conventional shelving. It is intended that the supporting structure provided for drawer assemblies be identical to that required for conventional shelves and that there be ready interchangeability between compact storage drawers and conventional shelves. The drawer assembly shall be of sufficient length to span the distance between ranges and provide maximum storage in a pattern of uprights designed for conventional shelving. Two rows of drawers shall occupy the horizontal space between uprights in a standard 3-ft. section. The contents of each drawer shall be readily accessible by rolling the drawer to the open position so that one-half of the length of the drawer is fully exposed in the range aisle. Drawer suspension shall be so designed that a maximum force of 3 pounds is required to overcome the inertia of a 250-pound book load from either the open or closed position.

FINISH: All material shall be thoroughly cleaned before painting. All parts shall be finished in Alkyd-Urea type enamel, baked on with the proper temperature-time relationship to insure thorough curing and a tough, durable finish. The paint shall be applied by the electrostatic method to insure thorough coverage and uniform thickness and density. The finish color shall be selected by the owner from 18 color samples submitted by the manufacturer, or as designated by architect or owner.

INSTALLATION: Drawer assemblies shall be installed by properly qualified personnel familiar with the requirements of bookstack erection. Drawers shall be hung level with uniform vertical spacing. Each 3-ft. section shall have two rows of 7 drawers in height, making a total of 14 drawers per section, unless otherwise noted on plans or in specifications.

GUARANTEE: The entire installation shall be guaranteed against faulty materials or workmanship for a period of one year. This structure is covered by U. S. Patent No. 2,872,048.

INFORMATION WHEN ORDERING

For any type of Stor-Mor installation, the only preliminary information required is the space available and the number and length of ranges desired.

W. R. AMES COMPANY
50 Years of Quality

AMES
SHELVING DIVISION

1001 Dempsey Road • Milpitas, Calif.

*Pat. Pending

AMES

MULTI-TIER BOOKSTACKS

Designed and Erected to Meet Your Requirements

BOOKSTACK COMPONENTS

The structural parts of the multi-tier bookstack include the steel columns which support the shelves or drawers, the floors, and the stairs, all of which must be specially designed and manufactured for each individual project. Shelves, brackets, book supports and miscellaneous accessories are standard for all installations. Sound construction, efficient use of space, convenience for librarians and borrowers, and protection for books govern our design of these installations.

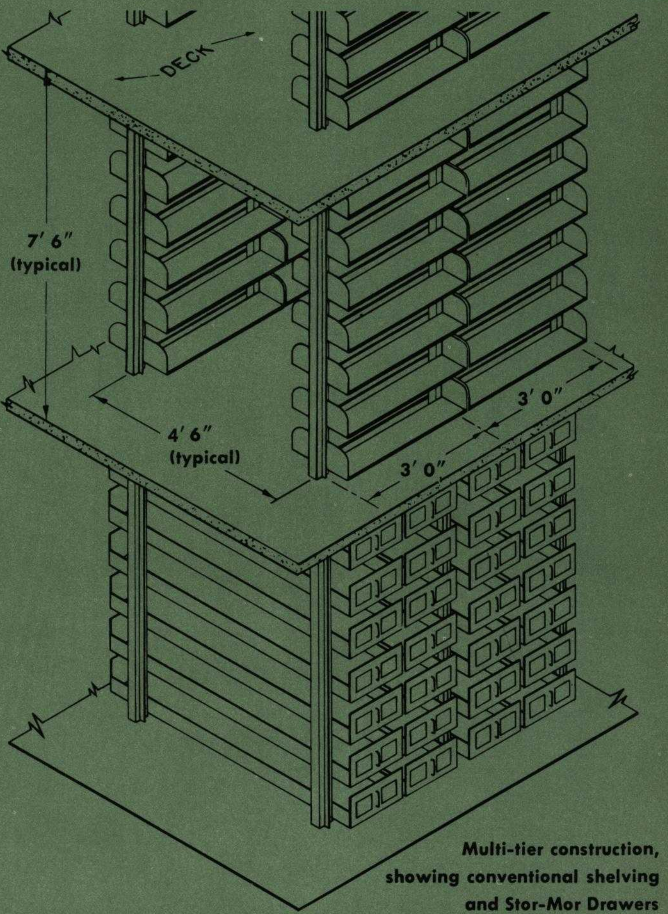
PLANNING SERVICE

If you will provide us with preliminary sketches or a description of the library building, we are prepared to submit the following information for your consideration:

1. Details of stack columns together with details of related parts such as footing plates and floor bearing members. These details will be selected for their suitability for the requirements of the job involved. Details will also be provided of the three types of decks which we are prepared to install. These decks are: (a) concrete; (b) cellular steel, flush both sides; (c) cellular steel with exposed cells on underside forming the ceiling.
2. Information on bookstack loads and column design.
3. Cost estimates.

Our services extend from the inception to the completion of the bookstack, and are offered to all those concerned with the design, construction and use of such equipment. A thorough knowledge of library requirements, an understanding of architectural and engineering problems involved, and complete manufacturing facilities are our credentials to library planners and builders.

Consultation is offered free and entails no obligation. We urge you to request this service during the early planning stage of the library.



Multi-tier construction, showing conventional shelving and Stor-Mor Drawers

This typical two-tier stack, adjacent to the reading room, was fabricated and installed, including the stairs and railing, by Ames. The attractive steel end panels are finished to harmonize with the library interior.

The undersides of the steel decks may be plastered, as shown in this multi-tier installation. All electrical wiring is inside the columns and decks (UL approved) for neat appearance. No conduit is required.

W. R. AMES COMPANY
50 Years of Quality

Locations of recent installations for reference purposes will be supplied on request.

AMES
SHELVING DIVISION

1001 Dempsey Road • Milpitas, Calif.

BOOKSTACK EQUIPMENT AND ACCESSORIES

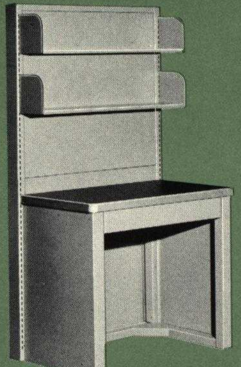
Ames offers a complete line of library equipment and accessories. Consult us regarding your specific requirements.

DIVIDED SHELVES for Vertical Filing

Ames Divided Shelves provide a low-cost, time- and space-saving system for the upright filing and storing of folders, phonograph records, periodicals, etc., which will not stand alone vertically on standard shelving. Interchangeable with practically all makes of bracket-type book shelving. Shelves available in 10", 12" and 14" depths.

DIVIDED SHELVES are instantly adjustable *vertically* and Shelf Dividers are adjustable *horizontally*, both on 1" centers.

SPECIFY No. D-10 (10" shelf)
SPECIFY No. D-12 (12" shelf)
SPECIFY No. D-14 (14" shelf)



CARREL DESKS Freestanding, Single or Double-faced

Single-faced unit accommodates up to 5 bracket-type shelves on rear face. Drawer if desired. Individual desks without side panels are available for multi-tier construction.

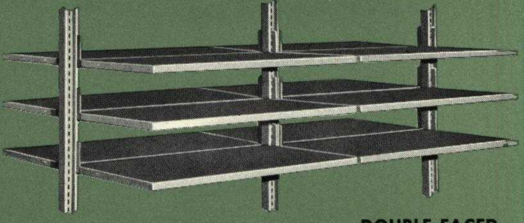
SINGLE-FACED
Height: 66"
Width: 36"
Depth: 20½"

SPECIFY No. WCD

FLUSH BRACKET SHELVING

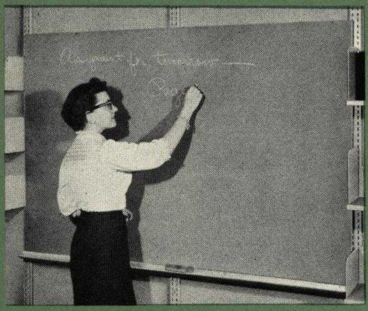
Shelved Flat for Newspapers or Other Material

Standard depth 20". Special construction to permit close spacing. Shelf surface unobstructed for full length of range.



DOUBLE-FACED

SPECIFY No. NP



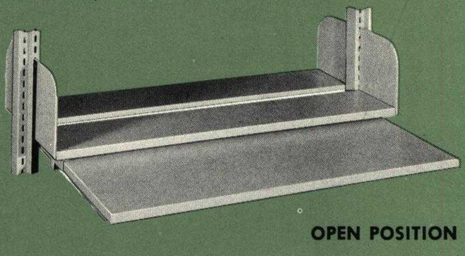
WALL-HUNG EQUIPMENT

for classrooms, libraries, offices

This simple, low cost Ames shelving system uses slotted steel columns which are easily fastened to any wall. Installed at 36" intervals, the columns support any standard bracket-type shelving and other equipment such as sloping display shelves, coat-rack shelves, lightweight desks, and bracket-equipped chalkboards, tackboards and pegboards. Equipment is quickly adjusted, rearranged or removed. Savings of approximately 50% in cost over adjustable wood shelving of similar quality. Details on request.

SLIDING REFERENCE SHELF for Double-Faced Ranges Only

Permits brief reference to books and convenient writing surface. Shelf can be pulled out from either side of double-faced range. Safety stop prevents accidental dislodgment. Shelf guides are attached to underside of any depth bookshelf, without tools.



OPEN POSITION

SPECIFY No. SR

AMES STEEL LIBRARY EQUIPMENT is ideal for all types of libraries, including public libraries, schools, colleges, institutions, offices and industrial libraries. Without obligation, Ames' experienced library equipment engineers will help you plan for the equipment which meets your particular needs.

Locations of recent installations for reference purposes will be supplied on request.

REPRESENTATIVES IN PRINCIPAL CITIES
W. R. AMES COMPANY
50 Years of Quality
SHELVING DIVISION
1001 Dempsey Road • Milpitas, Calif.

Litho in U. S. A.
Catalog BG-69

TOP —

Standard Type Bookstacks on the main and mezzanine floors of the Carnegie Library, Atlanta, Georgia.

Architects: TOOMBS & CREIGHTON,
Atlanta, Georgia.

LOWER —

Harvey Firestone Library, Princeton University, Princeton, New Jersey is equipped with Bracket Type Bookstacks with finished ends and applied bases.

Architects: R. B. O'CONNOR & W. H. KILHAM, JR.,
New York City, N. Y.

Art Metal
Jamestown, New York
U·S·A

Art Metal

distinctive equipment for LIBRARIES

Libraries all over America ranging from some of the nation's outstanding institutions to many hundreds of smaller libraries are Art Metal equipped. Art Metal's contribution can range from a bookcase, file or an occasional table to a complete installation for a million volume library including multi-tier bookstacks with deck floors, stairs, railings, booklifts, carrels, tables, desks, chairs, files and other items to provide convenient access and protection for the library collection.

A complete Library Planning and Engineering Department is maintained for consultation, layout and designing of library equipment. Art Metal offers service and production facilities based upon more than 70 years' experience in the library field.

ART METAL CONSTRUCTION COMPANY • Jamestown, New York

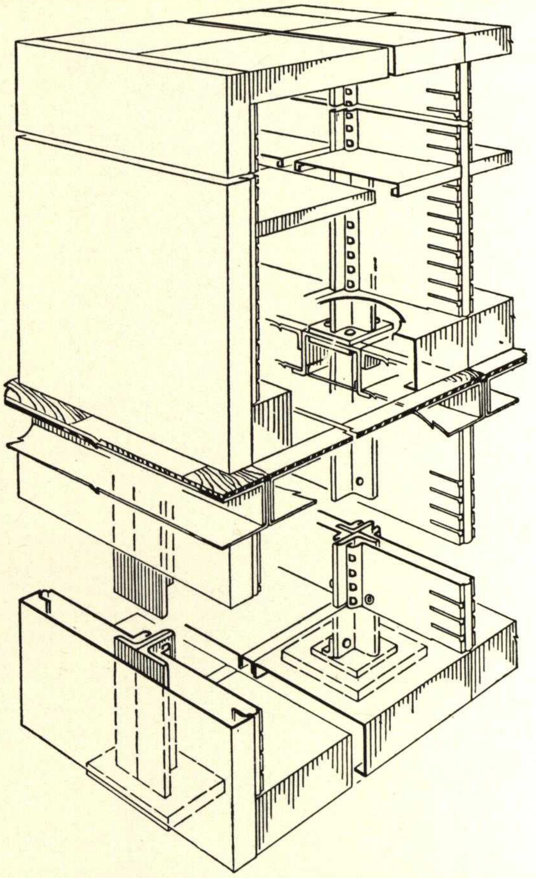
Art Metal library stacks

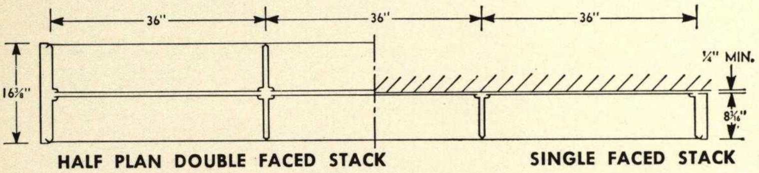
standard type bookstacks multi-tier and single tier

Art Metal Standard Type Stacks are constructed with full-depth shelf supports. Shelves are adjustable to 1″ on centers, and are easy to install from the front. A shelf lock feature prevents accidental dis-engaging of shelves.

Multi - Tier Standard Type Stacks combined with deck floor construction provide an ideal stack room for convenience and appearance.

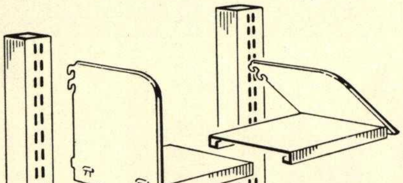
Single - Tier Standard Type Stacks are especially adapted for reading rooms, industrial reference libraries, law collections and other similar installations. A typical Art Metal Standard Type Double Faced Stack is shown at the left.



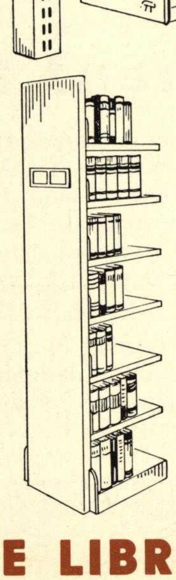


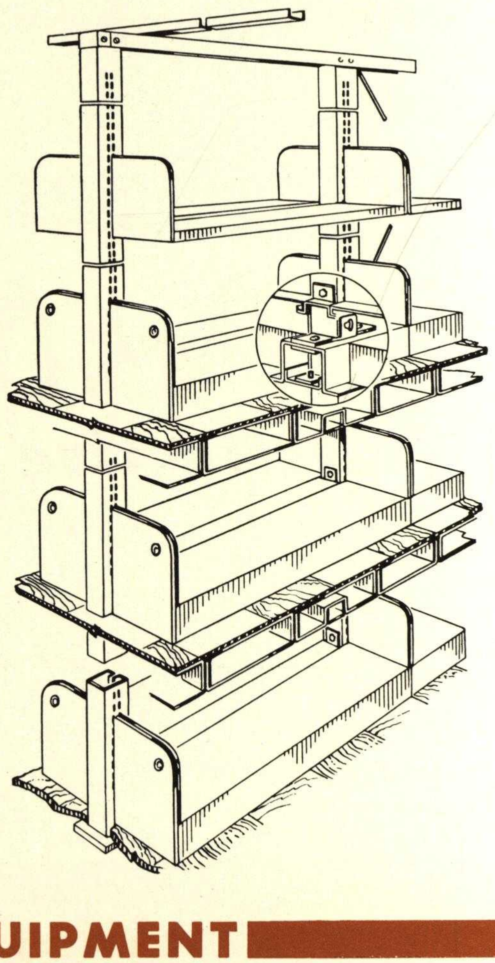
bracket type multi-tier bookstack

Art Metal Bracket Type Multi-Tier Stacks consist of tubular columns which support the loads and receive the shelves, cantilever fashion. Columns have slots 1″ on centers for shelf adjustment. Shelves are generally 8″ deep and columns are spaced 36″ in centers. Multi-Tier stacks are 90″ high. Range end finished panels available.



Patented self-hinged folding shelf brackets permit easy installation or removal without tools. Storage of extra shelves is compact as brackets are pre-assembled.





Diagonal tie-rods provide sway bracing and form a rigid stack.

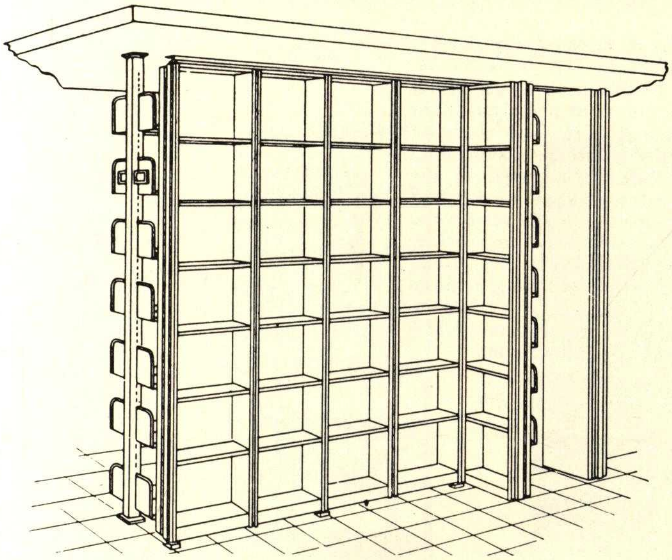
Finished end panel with label holder shown at left available for both single and double faced stacks.

Light switches located on tubular columns or end panels if desired. U-L approved raceways in columns and floors carry all the wiring.

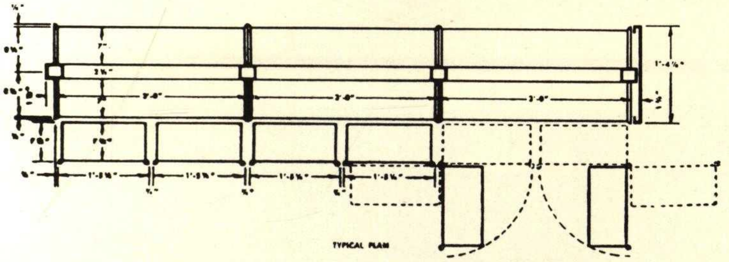
DISTINCTIVE LIBRARY EQUIPMENT

com-pac-case book storage units

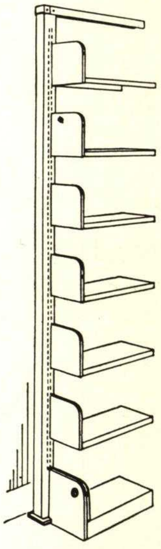
Art Metal
Jamestown, New York
U.S.A.



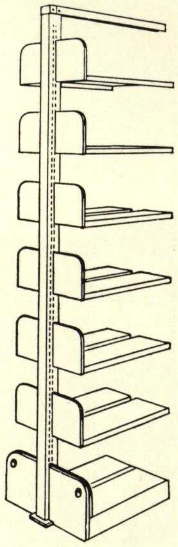
Art Metal Com-Pac-Case Book Storage Units increase by 90% the book capacity of any existing library stack when used on both sides of a double faced range. Even greater capacities may be achieved if these units are provided for in the plans of new libraries. The units are hung on pivot hinges secured in the ceiling and floor so that they swing nearly 180° permitting easy access to the shelves directly behind the unit. A catch at the top holds the unit from swinging into the aisle involuntarily.



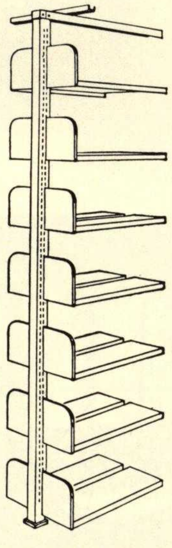
single tier bracket stack



SINGLE FACED FREE STANDING STYLE



DOUBLE FACED FREE STANDING STYLE



DOUBLE FACED TOP BRACED STYLE

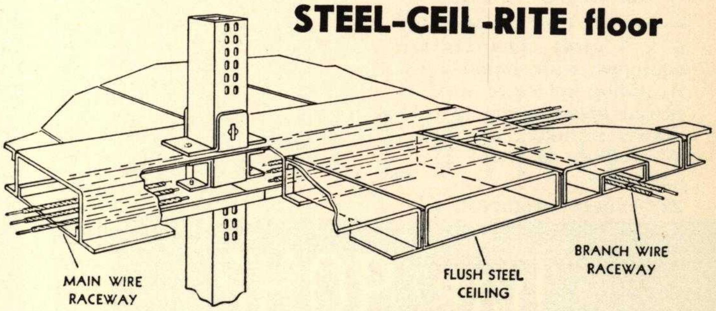
Art Metal Single Tier Bracket Bookstacks may be either free-standing or top-braced. Free-standing styles have rigid cross-bracing provided by extended bases which permit use of these stacks without fastening to floor or walls under normal loads and service.

Top-braced stacks are firmly secured to building walls and to each other. They permit complete freedom of adjustment and interchange of all shelves.

deck floors • ceilings

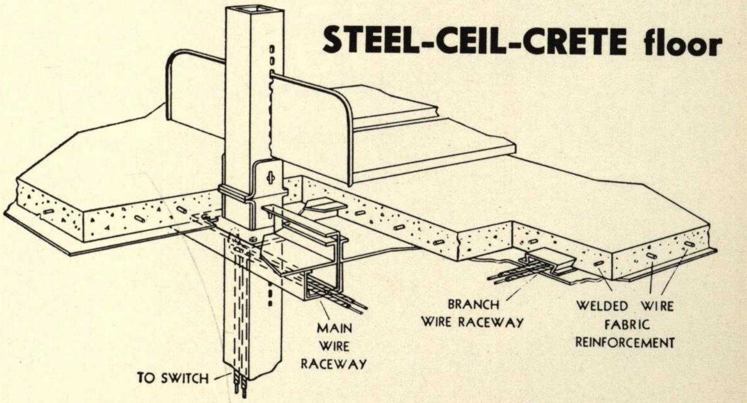
Floors and ceilings for Art Metal Multi-tier Bookstacks are available in two general types: Cellular steel with either flush or beamed ceiling, or concrete poured in either temporary forms and painted or in permanent steel forms, providing a flush steel, baked enamel finish ceiling for the desk below. The two flush ceiling types are illustrated below.

STEEL-CEIL-RITE floor



Art Metal "Steel-Ceil-Rite" Deck Floors consist of formed steel floor and ceiling members integrated into rigid planks. A flush factory-finished ceiling for the tier below is provided as well as a completely smooth firm base for linoleum, asphalt tile or any other floor coverings. Raceways for all wiring are integral with the floor construction.

STEEL-CEIL-CRETE floor



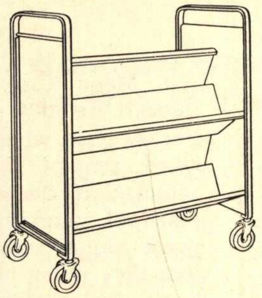
Art Metal Steel-Ceil-Crete Deck Floors consist of concrete cast in permanent factory-finished steel forms. The smooth, baked enamel finish of the flush steel ceiling provides high light reflectancy without glare and reduces maintenance problems to a minimum.

ART METAL library equipment

ART METAL BOOK TRUCK

TYPE "C"

— is double faced with two sloped shelves for books on each side. Large rubber-tired casters. Size: 30" W. x 35" H. x 15" D. Three other styles available in a variety of dimensions.

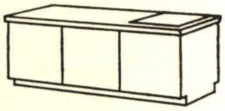


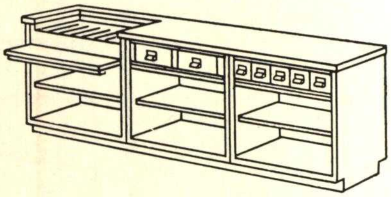
ART METAL UNITYPE CARREL DESKS

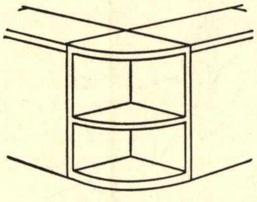
— are single or double faced with one book shelf with 5 adjustable dividers on each face. Desk top is linoleum covered with a rolled edge and aluminum binding. Available with drawer if desired.

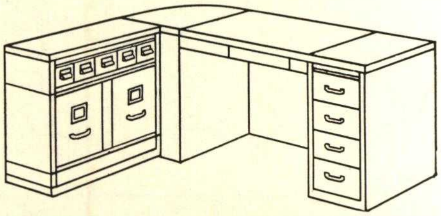
ART METAL CHARGING DESKS

Desk at right is assembled from standard units 35" W. x 39" H. x 27" D., fitted with Art Metal Widesections to make any combination of files. The charging section has card trays and book-slip receptacle recessed in the top, and a pullout work shelf which also forms a cover for the card tray well. The desk below is assembled from Art Metal El-Units combined with a round corner unit having display shelves. Adapted to small libraries and reference rooms.









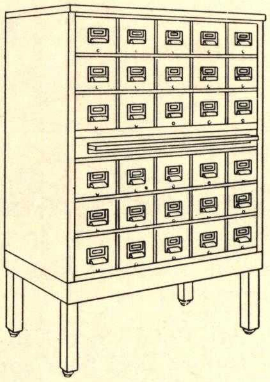
ART METAL CARD CATALOG CABINET

—has 30 card drawers for 5 x 3 cards. Drawers are equipped with round rods. A sliding reference shelf is placed between the two 15 drawer sections. Size: 32¾" W. x 46¼" H. x 18" D. Capacity:

28,590 heavyweight cards,
51,330 lightweight cards.

CUSTOM CABINETS

Custom cabinets are built to individual requirements. They can be furnished with closed base sections and offset toe space if desired.



LEFT —
Standard Type Bookstacks equipped with sloping base shelves, reference slides and periodical shelves.

RIGHT —
Bracket Type Bookstacks and Periodical Sectional Units in the Reading Room at Haigh School, Dearborn, Michigan.

ART METAL CONSTRUCTION COMPANY • JAMESTOWN, N.Y.

Art Metal
Jamestown, New York
U.S.A.

BALTIMORE 1, MD.
100 W. Centre Street
BOSTON 10, MASS.
472 Atlantic Avenue
CHICAGO 6, ILL.
208 W. Adams Street
CINCINNATI 6, OHIO
3036 Woodburn Ave.

DETROIT 2, MICH.
2995 E. Grand Blvd.
HARTFORD 3, CONN.
410 Asylum Street
LOS ANGELES 22, CALIF.
2515 South Yates Ave.
NEWARK 2, N. J.
15 William Street
NEW YORK CITY 13, N. Y.
369 Broadway

PHILADELPHIA, PA.
401 N. Broad St.
PITTSBURGH 22, PA.
Law and Finance Bldg.
WASHINGTON 5, D. C.
301 Southern Bldg.
WILMINGTON 99, DEL.
1001 West Street

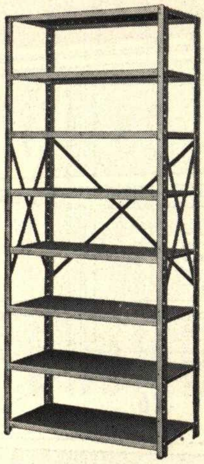
OTHER LOCALITIES CONSULT HOME OFFICE

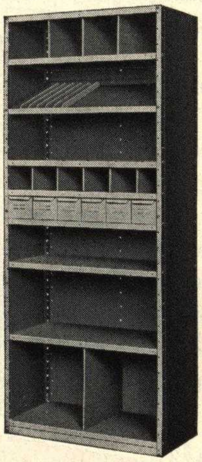
LITHO IN U.S.A.

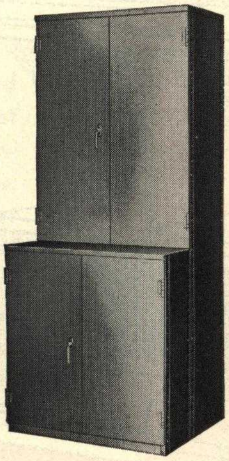
AD 2491-59

23f
Bo

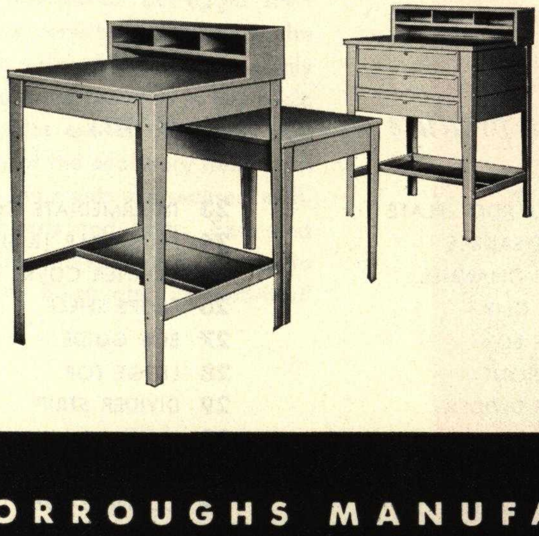
BASIC ASSEMBLIES







SHOP DESKS AND TABLES



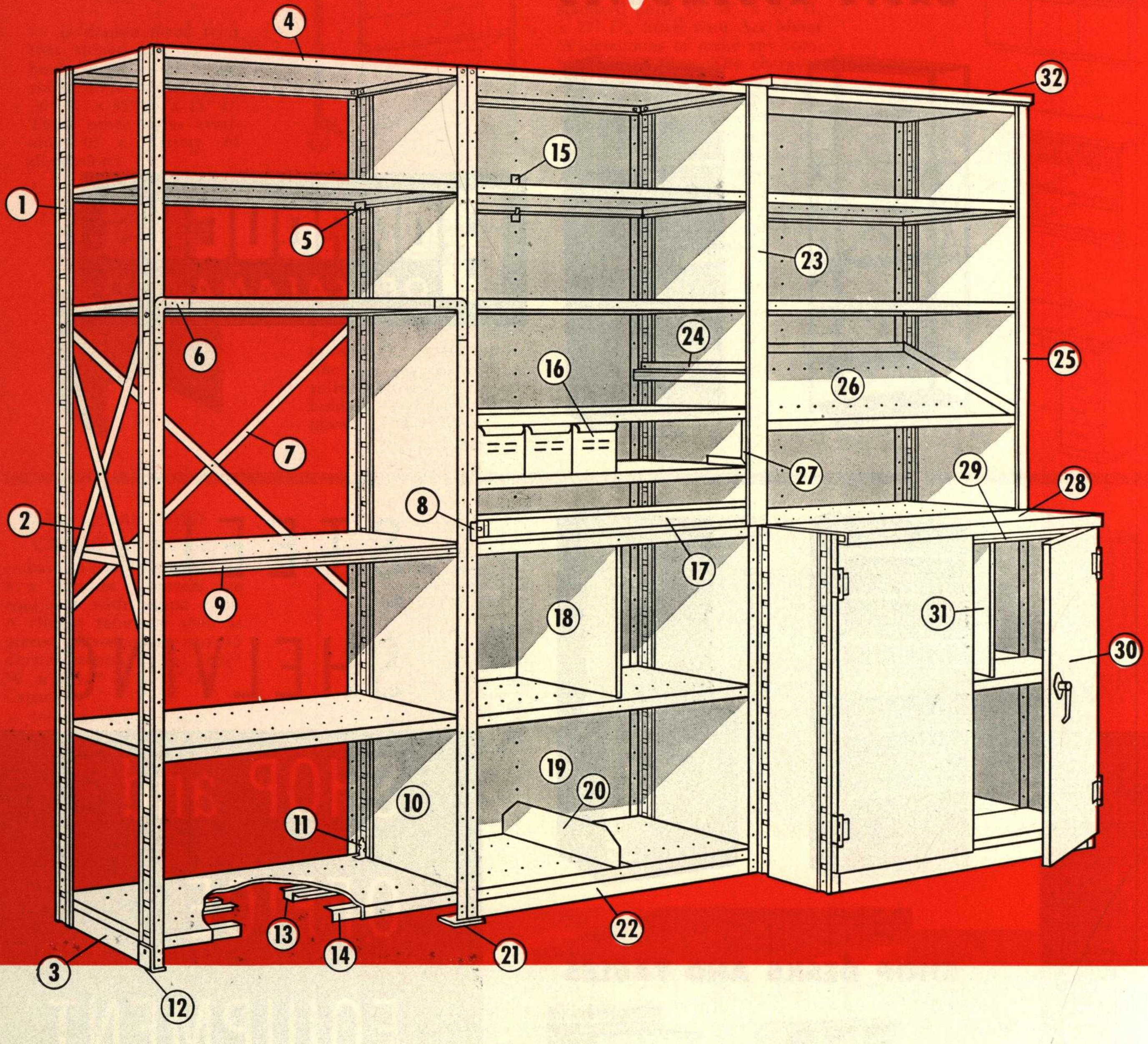
BORROUGHS
OF KALAMAZOO

STEEL SHELVING

SHOP and OFFICE EQUIPMENT

BORROUGHS MANUFACTURING COMPANY
3000 NORTH BURDICK ST., KALAMAZOO, MICHIGAN

BORROUGHS Unitized *flexi* Steel Shelving


4
32
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11
22
13
14
21
3
12

These basic components produce many variations

1 POST
2 SIDE CROSS BRACE
3 SIDE SHELF SUPPORT
4 SHELF
5 SHELF BRACKET
6 FACE BRACE
7 BACK CROSS BRACE
8 BIN FRONT CLIP
9 LABEL HOLDER
10 CLOSED SIDE
11 SHELF LOCK
12 ANGLE FOOT PLATE
13 SHELF SADDLE
14 SHELF CHANNEL
15 BACK CLIP
16 SHELF BOX
17 BIN FRONT
18 SHELF DIVIDER
19 BACK
20 ANGLE DIVIDER
21 FOOT PLATE
22 BASE
23 INTERMEDIATE COVER PLATE
24 FLUSH BAR (Book Guide)
25 CORNER COVER PLATE
26 SLOPE SHELF
27 BOX GUIDE
28 LEDGE TOP
29 DIVIDER STRIP
30 DOOR
31 UNDERLEDGE SHELF DIVIDER
32 CORNICE TOP

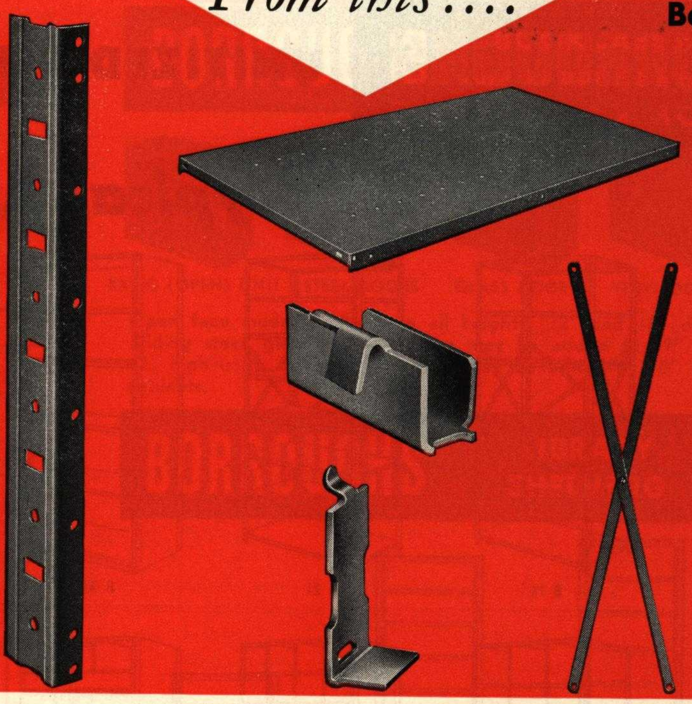
BORROUGHS
Unitized
flexi
Steel Shelving

LASTING QUALITY, ECONOMY, SATISFACTION.

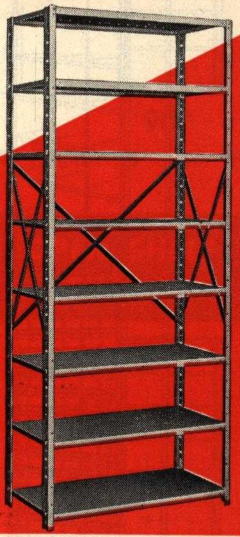
Borroughs shelving provides rigidity and strength through its shaped-post. The post design affords the feature of 'unitized' construction not found in some other types. Less time is required for erection and for adjusting the shelves and dividers. The advantage of being able to move a complete unit at any time without disturbing the adjacent units or their stock will reflect savings whenever a layout change is encountered.

Amazingly simple to erect. Assembly time held to a minimum by the 'unitized' feature, by the simplified shelf support bracket and by the welcome absence of countless nuts and bolts. Borroughs shelf support brackets permit the shelves to be tilted into place without use of tools. (Only two nuts and bolts are required in any basic unit.) Closed sides are of one-piece construction. Many of the accessory items such as dividers and bin fronts are secured without the aid of nuts and bolts. Ease and speed of erection mean direct savings to the purchaser of Borroughs 'unitized-flexi' steel shelving.

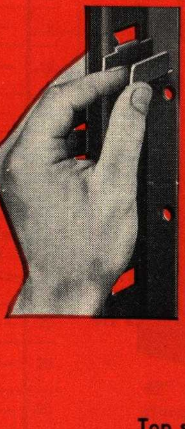
From this....



You get this....

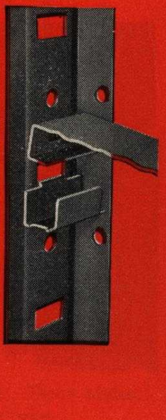


By doing this



1
INSERT SHELF SUPPORT BRACKET — no fumbling with studs, bolts, nuts, lock washers.

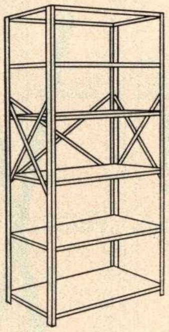
2
TILT SHELF INTO SUPPORT BRACKET — and you're finished. Shelf is ready for loading.



Top shelf only is bolted at front posts, requiring only two bolts. Back of shelf hangs on support brackets. No bolts required for bottom or intermediate shelves.

If you desire to lock shelf, insert shelf lock into position and tap lightly with hammer.

Typical Assemblies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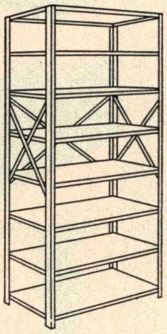
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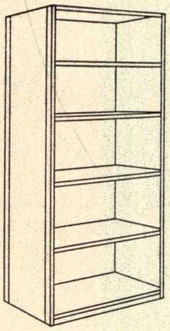
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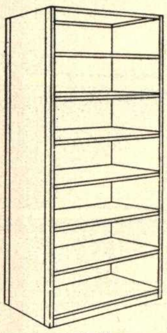
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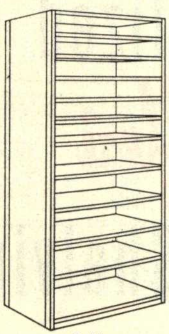
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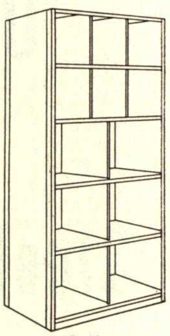
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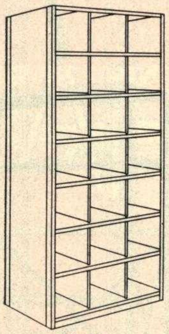
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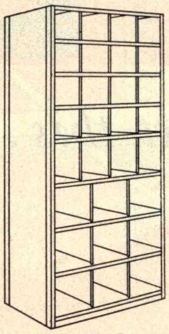
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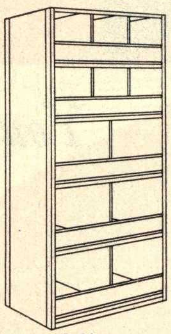
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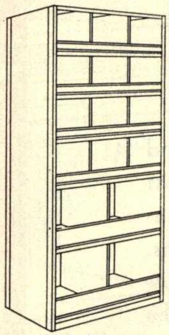
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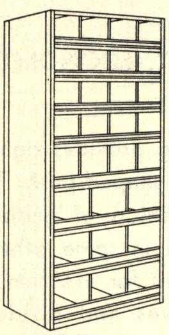
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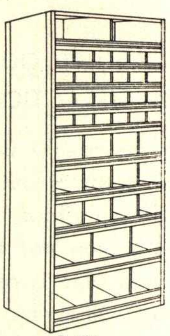
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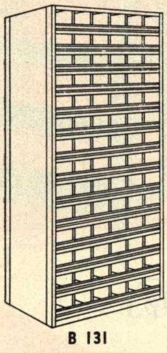
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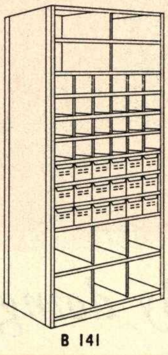
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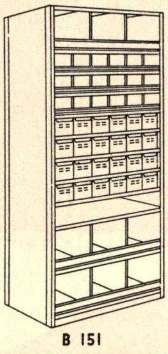
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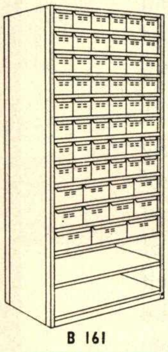
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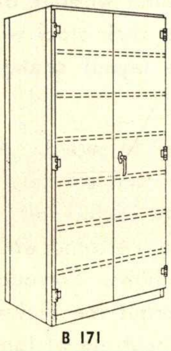
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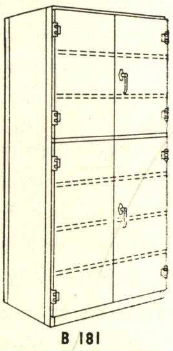
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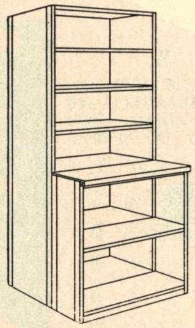
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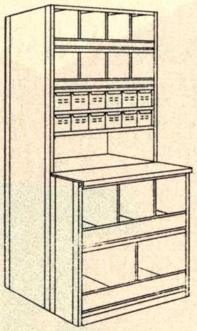
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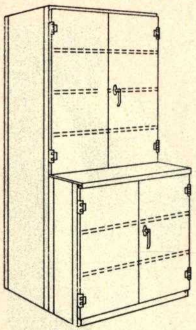
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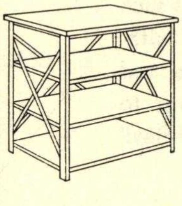
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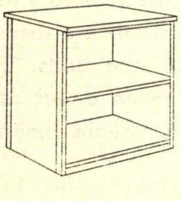
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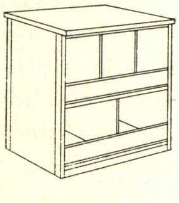

B 241

Shelving Units shown are 36" wide by 7'-3" high and are 12", 18" or 24" deep. Exceptions are B221, B231, B241 which are 39¾" high and 18", 24" or 30" deep.
Full list of stock sizes include Widths — 24", 36", 42", 48".
Depths — 9", 12", 15", 18", 30", 36".
Heights — 3'-3", 4'-3", 5'-3", 6'-3", 7'-3", 8'-3", 9'-3", 10'-3".

BORROUGHS

Unitized-Flexi Steel Shelving

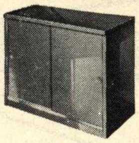
SELECTOR GUIDE

PART NAME	SIZE RANGES W	SIZE RANGES H	SIZE RANGES D	SIZE INCREMENTS W	SIZE INCREMENTS H	SIZE INCREMENTS D	GA.
POSTS	—	3'-3'' TO 10'-3''	—	—	12''	—	13
CLOSED SIDES	—	3'-3'' TO 10'-3''	9'' TO 18'' 24'' TO 36''	—	12''	3'' 6''	22
SHELVES	24'' TO 48''	—	9'' TO 18'' 24'' TO 36''	6''	—	3'' 6''	18
SLOPE SHELVES	36''	—	12'' & 18''	—	—	6''	18
LABEL HOLDERS	24'' TO 48''	—	—	6''	—	—	26
SHELF DIVIDERS (REGULAR)	—	6'' TO 24''	9'' TO 18'' 24'' TO 36''	—	3''	3'' 6''	20
SHELF DIVIDERS (UNDER LEDGE)	—	6'' TO 18''	9'' TO 18''	—	6''	—	20
SHELF DIVIDER SUPPORTS (UNDER LEDGE, COUNTER OR CORNICE TOP)	24'' TO 48''	—	—	6''	—	—	18
SHELF BOXES	5 9/16'' 8⅜'' 11 9/16''	4⅝''	11'' TO 23''	—	—	6''	20
BOX PARTITIONS	4'' 8'' 11''	4½''	—	—	—	—	20
SHELF SADDLES	24'' TO 48''	—	—	6''	—	—	11
SHELF SIDE SUPPORTS	—	—	9'' TO 18'' 24'' TO 36''			3'' 6''	11
BACKS	24'' TO 48''	3'-3'' TO 7'-3''	—	6''	12''	—	22
COUNTER BACKS	24'' TO 48''	3'-3''		6''	—	—	18
SHELF SIDE FILLERS	—	—	9'' TO 18'' 24''			3'' 6''	22
CROSS BRACES	24'' TO 48''	— —	9'' TO 18'' 24'' TO 36''	6''	— —	3'' 6''	1x⅛
SHELF CHANNELS	24'' TO 48''	—	—	6''	—	—	⅛
LEDGE TOPS	24'' TO 48''	—	9'' TO 18''	6''	—	3''	16
CORNICE TOPS	24'' TO 48''	—	9'' TO 18'' 24''	6''	— —	3'' 6''	18
COUNTER TOPS	24'' TO 48''		18'' TO 30''	6''	—	6''	16
BASE STRIPS	24'' TO 48''			6''	—	—	18
ANGLE SHELF DIVIDERS		1½'' 3''	12'' TO 15''	3''	—	3''	20
SHELF DIVIDER SUPPORTS	24'' TO 48''	—	—	6''	—	—	18
BIN FRONTS	24'' TO 48''	1½'', 3'', 6''	—	6''	1½'', 3''	—	18
BIN FRONT CLIPS	—	1½'' 3'', 6''	—	—	—	—	14
BOX GUIDES	—	5''	5''	—	—	—	18
FLUSH BARS	—	—	9'' TO 18'' 24''	—	—	3'' 6''	20
ANGLE BRACES	4''	6''	—	—	—	—	11
TIRE SHELVES	36'' TO 60''	—	—	6''	—	—	18
COAT ROD AND BRACKETS	24'' TO 48''	—	—	6''	—	—	—
SWING DOORS	24'' TO 48''	3' TO 7'	—	6''	12''	—	20
SLIDING DOORS	72''	3' 7'	—	—	—	—	20
POST COVERS	—	3'-3'' TO 10'-3''	—	—	12''	—	20

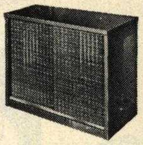
Standard colors: Gray or Green.

BORROUGHS BOOKCASES and SUPPLY UNITS

BASIC (OPEN) UNIT

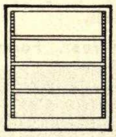

STEEL DOORS

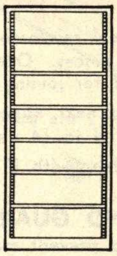
GLASS DOORS

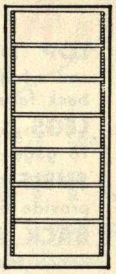

VINYL DOORS

Open face model available in all heights. 12'' and 18'' deep. Sliding steel, glass or Vinyl doors may be added to 29'' and 42'' high units. Sliding steel door may be added to 78'' high cabinets.

BORROUGHS LIBRARY SHELVING

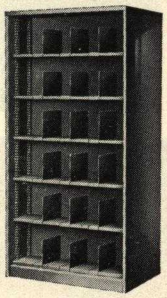

42''

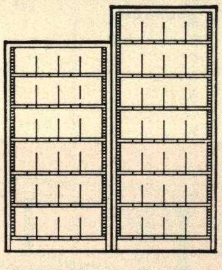

84''


90''

Units available in 42'', 84'' and 90'' heights. 36'' wide. 9¾'' deep. Single and double faced.

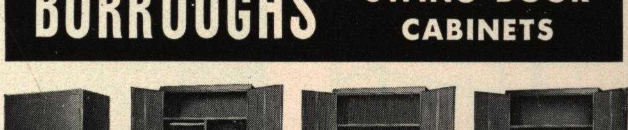
BORROUGHS OPEN SHELF FILING




72'' 84''

72'' and 84'' high, 36'' wide, 12'' deep. Single and double faced.

BORROUGHS SWING DOOR CABINETS



42'' & 78'' high, 36'' wide, 18'', 21'' & 24'' deep. Three styles, storage, wardrobe, combination storage and wardrobe.

Standard finishes: Dark Green, Gray, Brown, Fall Tan, Spring Green, White.

BORROUGHS
OF KALAMAZOO

WORK BENCHES

Borroughs workbenches combine an extremely strong arc welded leg design with a sturdy top surface. The legs are formed of compound steel channels that provide extreme ruggedness. Similar channels are used to reinforce the top, creating an unusual reduction in drum effect.

A wide variety of bench styles can be accomplished by adding many standard accessories. These include shelf, drawers, guards, footrest, ledge, portable fittings, pressed wood top coverings or solid rock-maple tops.

Benches over 6 ft. long may be built up by using add-on benches that require only a single leg assembly.

Three lengths of bench are available, 48", 60", 72". Two depths, 28" and 34". Available in two heights — 29½" for sitting height — and 34" for standing height.

Standard colors: Gray or Green.

COMPONENTS

TOP 14 gage steel reinforced with three 16 gage box channels and 14 gage end pieces. Overall thickness 1¾ inches. Side and back faces pierced for joining tops end to end or back to back.

LEGS Sturdy and neat appearing — no unsightly rows of holes. 16 gage legs welded to 14 ga. horizontals.

SHELF 15 inch deep with 1" flange at rear. Formed at front to provide lips.

BACK AND END GUARDS 11 gage steel 3" high above bench top, used to prevent material from rolling off.

LEDGE Use one or more to keep material, tool boxes, etc. off working area. Can be tiered.

SINGLE DRAWER Used when single drawer is required below bench top or tool stands. Furnished with padlock, attachment, cylinder lock available.

TIER DRAWER Used when multiple drawers are to hang below bench top or tool stand. Each drawer with a complete case. Can be stacked from floor up. No hanger kit required.

Base available for stacking. Provisions for padlock. Cylinder lock available.

BACKSTOP 5" high. Hooks to bench shelf. Keeps material from sliding off.

FOOTREST Extremely strong. Bolted to cross rail of legs.

STEEL TOP PRESSED-WOOD COVERING Applied at factory. Useful for sound deadening and resiliency. 3/16" thick covering applied to standard top.

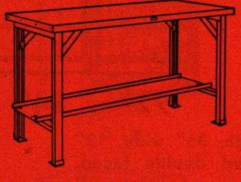
END PANELS Fits flush with outside of leg. Provides desk-like appearance.

BACK PANELS Provides closure for kneespace, improves bench appearance.

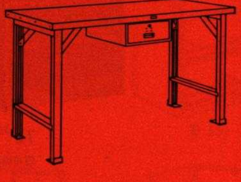
SEMI PORTABLE KIT Wheel assembly bolts to legs on one end of bench. Telescoping handles bolt to legs on other end of bench.

PORTABLE BENCH KIT 4 casters with threaded stems bolt easily into foot plates in bench legs. Complete mobility provided for any Borroughs bench.

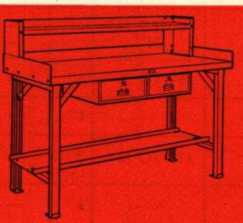
TYPICAL ASSEMBLIES



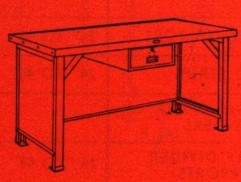
UTILITY BENCH Shelf added



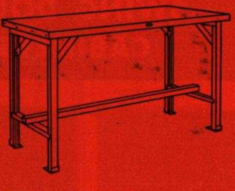
Drawer added



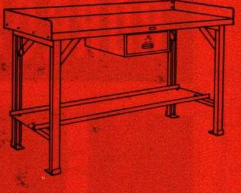
Shelf, 2 Drawers, Guards and Ledge added



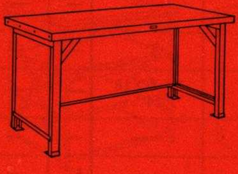
Panels and 1 Drawer added



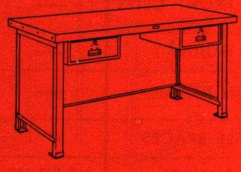
Footrest added



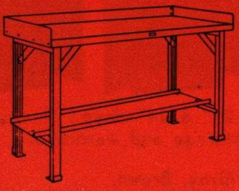
Drawer, Guards and Shelf added



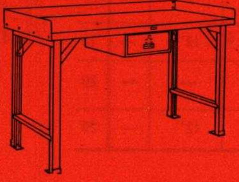
End and Back Panels added



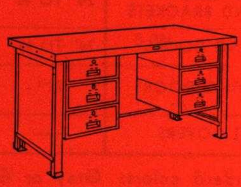
Panels and 2 Drawers added



COMPLETE BENCH Shelf Guards added



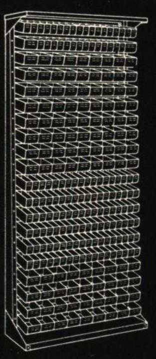
Drawer and Guards added

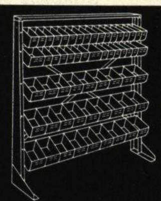


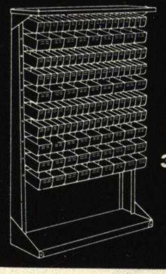
Panels and 6 Drawers added

BORROUGHS
OF KALAMAZOO

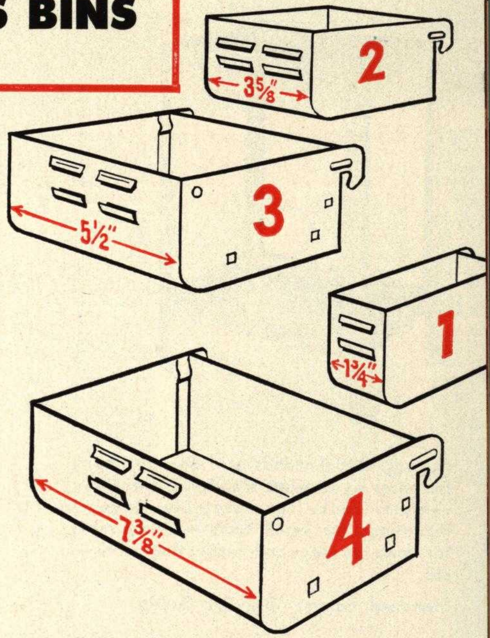
"Handee Andee" SMALL PARTS BINS


Unit 84-360


Unit 56-180


Unit 32-90

Here are small parts bins that give you every advantage. They're sturdily constructed for long, hard use; attractively styled for effective point-of-purchase merchandising; compactly designed for maximum space saving. And with their easy-to-see, easy-to-reach, easy-to-arrange features, it's easy to keep small parts in apple pie order all the time. HANDEE ANDEE small parts bins are available in 3 sizes and are designed to hold 4 sizes of bin boxes in any arrangement you wish to make. Bin boxes can be removed or replaced in a wink — just slip them on or off. They have large label holders for speedy identification, curved bottoms for fast, smooth removal of parts, and their forward tilt provides instant visibility of the contents.



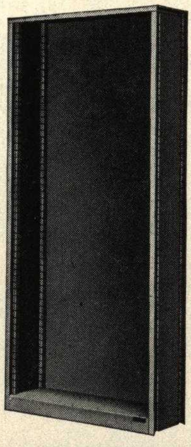
All Boxes are 2⅝" Deep x 6⅛" Long

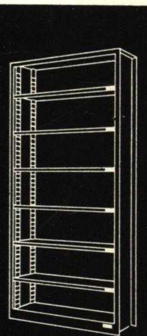
BORROUGHS
OF KALAMAZOO

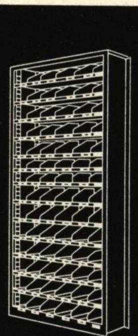
FLEXI-BINS

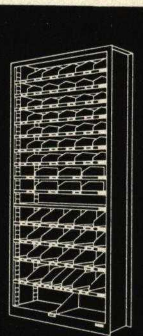
With Borroughs FLEXI BINS valuable time is saved when rearranging shelves, dividers and trays. Shelves slide on 1½" centers, are adjustable without tools and may be relocated even when fully loaded. All dividers are completely movable anywhere on the shelf to form openings of any desired size. There are NO screws, nuts, or bolts needed to rearrange a flexi bin and only a few are needed to set up the completely enclosed frame.

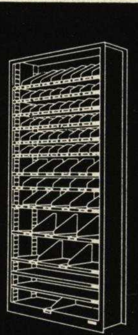
5 Harmonizing Colors to choose from: Olive Green, Cascade Green, Snow White, Buff or Gray.

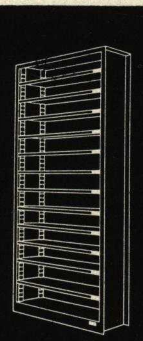


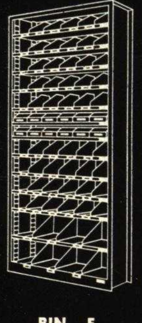

BIN A

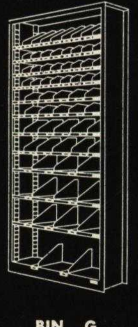

BIN B

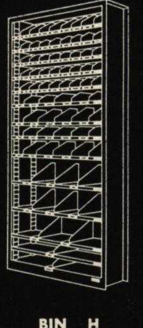

BIN C

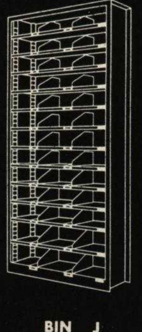

BIN D

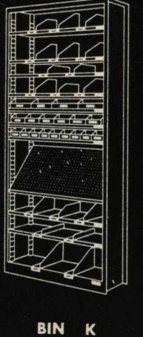

BIN E


BIN F


BIN G


BIN H

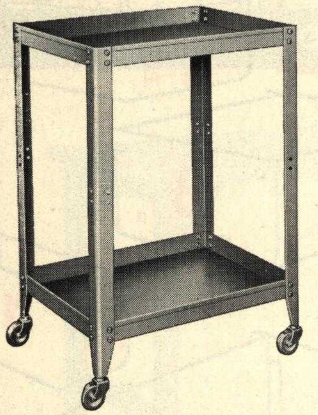

BIN J

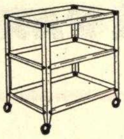

BIN K

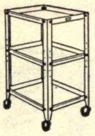
BIN STYLES

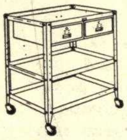
	OPENINGS		
	Number	Width	Heigh
BIN A	2	36"	10½
	5	36	12
BIN B	72	6	6
	12	6	4½
BIN C	2	18	9
	4	6	7½
	3	4	7½
	24	6	6
	1	36	4½
	8	9	4½
	36	6	4½
BIN D	2	18	6
	2	36	4½
	3	12	9
	4	9	9
	12	6	6
	6	6	4½
	45	4	4½
	9	4	9
BIN E	2	36	7½
	11	36	6
BIN F	8	9	9
	54	6	6
	12 Shelf Trays 5¾ w. x 3 h. x 11 13/16 d.		
BIN G	3	12	13½
	8	9	9
	4	9	6
	12	6	6
	12	6	4½
	27	4	4½
	9	4	9
BIN H	4	18	4½
	3	12	9
	8	9	9
	12	6	6
	12	6	4½
	36	4	4½
	9	4	6
BIN J	6	12	7½
	33	12	6
BIN K	3	12	10½
	3	12	6
	8	9	6
	1 Inclined Gasket Shelf 35" x 18"		
	9 Shelf Trays 3¾" w. x 3" h. x 11 13/16" d.		
	6 Shelf Trays 5¾" w. x 3" h. x 11 13/16" d.		
	4 Shelf Trays 8¾" w. x 3" h. x 11 13/16" d.		
	3	12	4½
	4	9	9
	4	9	7½

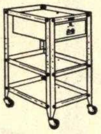
TOOL STANDS

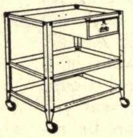


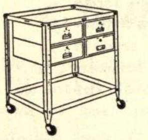












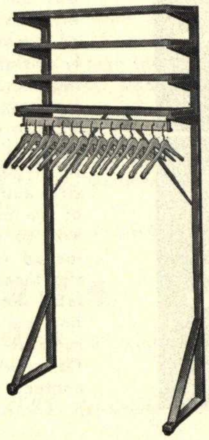
Borroughs tool stands are ideal for many purposes — as work stands at machines, — parts racks for assembly lines, — mountings for small tools — utility racks for maintenance and inspecting work — etc.

Standard colors: Gray or Green.

CAT. NO.	18 x 24 IN.	CAT. NO.	36 x 24 IN.
918140	2 SHELVES NO CASTERS	936141	2 SHELVES NO CASTERS
918240	2 SHELVES WITH CASTERS	936241	2 SHELVES WITH CASTERS
918340	3 SHELVES NO CASTERS	936341	3 SHELVES NO CASTERS
918440	3 SHELVES WITH CASTERS	936441	3 SHELVES WITH CASTERS

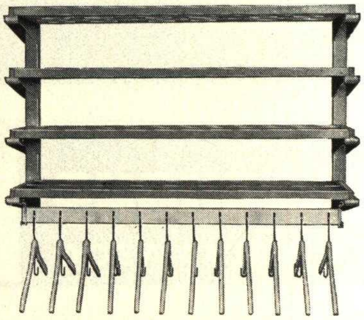
UTILITY CARTS

There are many uses for this sturdy cart. It will carry the mail or heavy tools or equipment. Recommended for medium duty.



WRAP RACKS

Available either as a wrap-rack with three shelves and a lower boot shelf or, as a wrap check rack with four shelves and no lower boot shelf. Single faced or double faced models. Available in 2, 3, 4 & 5 foot widths.



WALL MODELS

Available either as a wrap rack with three shelves or, as a wrap check rack with four shelves. Single faced models only. Available in 2, 3, 4 and 5 foot widths.

***ENGINEERING SERVICE** . . . feel free to call on us to assist in laying out your requirements, — no obligation of course.*
This catalog serves as a guide only. For more specific information please contact our nearest distributor, or the Home office.

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BORROUGHS
OF KALAMAZOO

HOME OFFICE and PLANT
BORROUGHS MANUFACTURING CO.
3000 NORTH BURDICK ST. KALAMAZOO, MICHIGAN

A SUBSIDIARY OF THE AMERICAN METAL PRODUCTS COMPANY OF DETROIT

"B"
PRINTED IN U. S. A.

G-1000

DELUXE

colorful, modern products for the library

DELUXE METAL PRODUCTS COMPANY, WARREN, PA. • A Division of Royal Metal Manufacturing Company

a case for color:

DELUXE . . .

The bright, beautifully styled line of Deluxe library products combines functional design with appearance and sturdy construction to provide the finest library shelving and accessories, study carrels and book stacks obtainable.

Building a new library? . . . modernizing the old one? . . . adding new shelf space? Use color harmonics . . . choose Deluxe Library Shelving in pastel colors . . . and those somber library stacks will come to life!

With Deluxe there is flexibility in color selection and arrangement—the four standard finishes—canyon coral—mist green—sandalwood—grey—142 other plain colors to specification at slight extra cost.

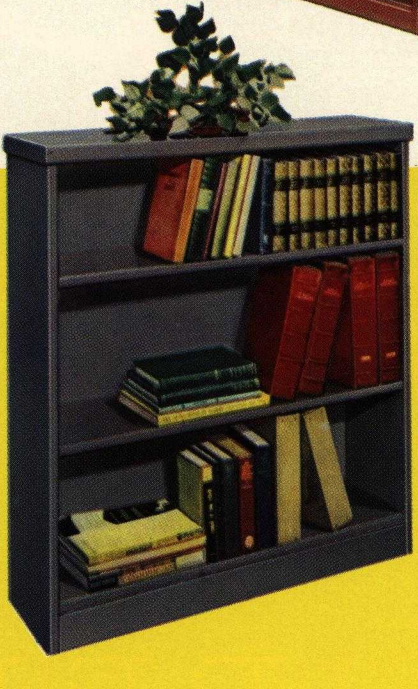
Deluxe shelving with clean, modern lines provides the ideal setting for today's library.

Deluxe, the original manufacturer of boltless steel shelving, provides library shelving that is easily erected without the use of tools. Shelves are adjusted in a matter of seconds, and additional sections can be added without disturbing existing shelving.

All Deluxe products are quality made of heavy gauge steel. Completely fabricated of furniture quality. No rough unfinished raw steel edges. Also, Deluxe provides quick assembly, ease of adjustment and strong construction.

For added rigidity, every shelf ties into the upright members for greater sectional stability.

Deluxe Library Shelving installations include Cornell University, Sisters of Holy Cross School, Battelle Memorial Institute, Duquesne University, De Paul University, San Francisco State College, Johns Hopkins Institute, and many other libraries.



For offices, reception rooms or in school, this Deluxe bookcase provides modern, handsome, convenient storage space for reference books, personal volumes or magazines.

10 styles to

OPEN OR CLOSED BACKS

. . . WIDE RANGE OF COLOR

Deluxe library shelving with shelves adjustable on 1″ increments is available in three heights: 42″ (three openings), 78″ (six openings) and 90″ (seven openings) in single or double faced units with or without closed backs. All models are available as starter sections and as additional add-on sections, except the bookcase, which is supplied only as a single unit.

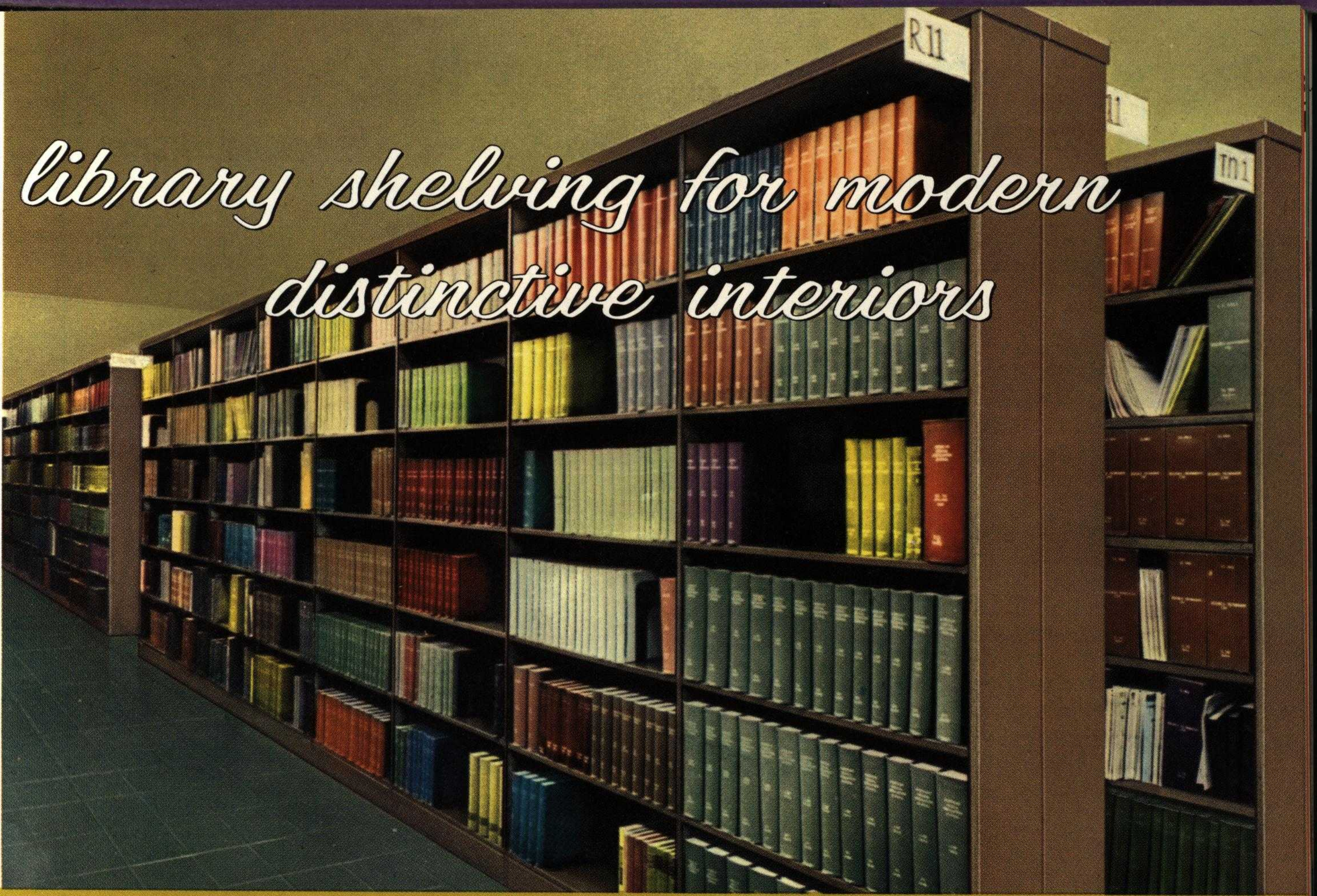
COLOR GUIDE

FOR ALL DELUXE LIBRARY PRODUCTS

These four standard baked enamel Plastelle colors, applied over Chem-A-Cote bonderizing to insure lasting beauty, are provided for all Deluxe library products.

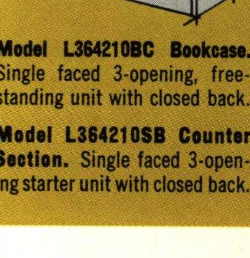
NO. 8921 SANDALWOOD

library shelving for modern distinctive interiors



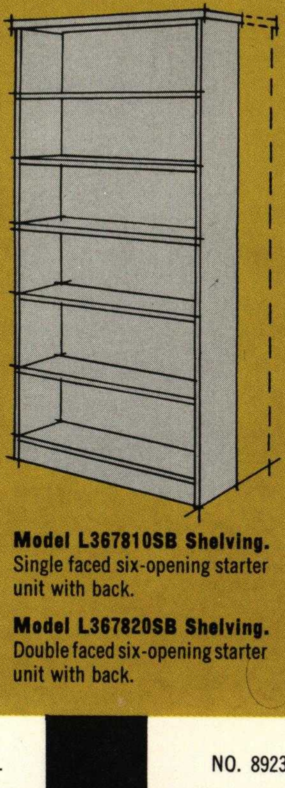
choose from: 3 heights

Note: All starter sections have two finished end panels. Additional sections have intermediate end panel only, so that by simple exchange, a combination assembly forming a range will always have finished outside end panels.



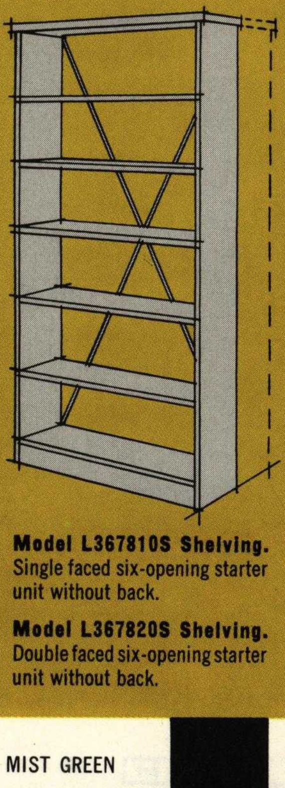
Model L364210BC Bookcase. Single faced 3-opening, free-standing unit with closed back.

Model L364210SB Counter Section. Single faced 3-opening starter unit with closed back.



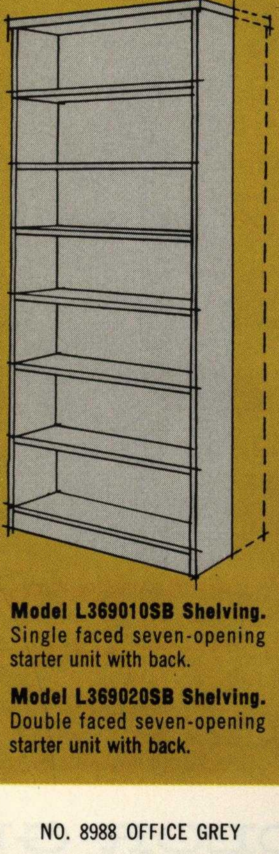
Model L367810SB Shelving. Single faced six-opening starter unit with back.

Model L367820SB Shelving. Double faced six-opening starter unit with back.



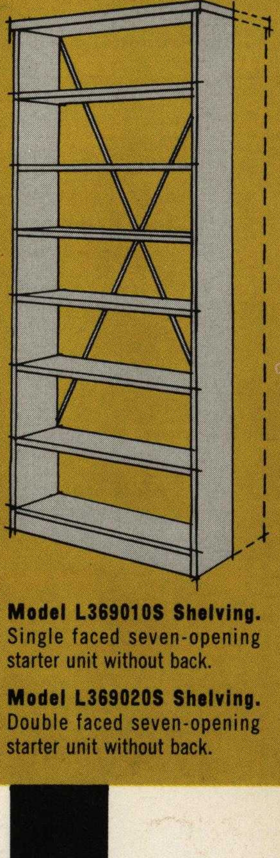
Model L367810S Shelving. Single faced six-opening starter unit without back.

Model L367820S Shelving. Double faced six-opening starter unit without back.



Model L369010SB Shelving. Single faced seven-opening starter unit with back.

Model L369020SB Shelving. Double faced seven-opening starter unit with back.



Model L369010S Shelving. Single faced seven-opening starter unit without back.

Model L369020S Shelving. Double faced seven-opening starter unit without back.

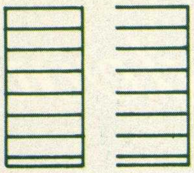
NO. 8924 CANYON CORAL

NO. 8923 MIST GREEN

NO. 8988 OFFICE GREY

A choice of 142 other plain colors are also available at slight extra cost.

how to order



SHELVING

The shelving order number is composed of the letter L (for library) together with the figure dimensions of the unit. For example, a library unit 36″ x 42″ x 10″ would be designated as L364210, followed by the letter S for starter section or the letter A for additional section. If a closed back is desired the letter B follows the S or A. For example, L364210SB or L364210AB. Refer to Table 1 for all choices. PLEASE SPECIFY COLOR DESIRED.

All sections are complete with uprights, shelves, brackets, tops, closed bases, and either backs or braces as specified.

DELUXE ACCESSORIES

All the accessories are designed to fit standard 36″ width Deluxe Library Shelving. Order by number.

TABLE 1—DELUXE LIBRARY SHELVING SPECIFICATIONS AND ORDER NUMBERS

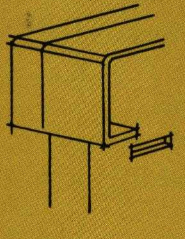
NO. OF OPENINGS	WIDTH	HEIGHT	DEPTH		TYPE OF BACK		ORDER NUMBER	
			INCHES	TYPE	OPEN	CLOSED	STARTER SECTION	ADD-ON SECTION
3	36″	42″	10″	SF		X	L364210BC*	None
3	36″	42″	10″	SF		X	L364210SB	L364210AB
6	36″	78″	10″	SF	X		L367810S	L367810A
6	36″	78″	20″	DF	X		L367820S	L367820A
6	36″	78″	10″	SF		X	L367810SB	L367810AB
6	36″	78″	20″	DF		X	L367820SB	L367820AB
7	36″	90″	10″	SF	X		L369010S	L369010A
7	36″	90″	20″	DF	X		L369020S	L369020A
7	36″	90″	10″	SF		X	L369010SB	L369010AB
7	36″	90″	20″	DF		X	L369020SB	L369020AB

*Bookcase Unit

TABLE 2—DELUXE ACCESSORIES ORDER NUMBERS

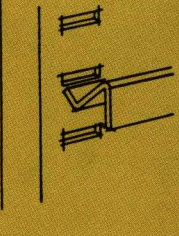
Magazine Shelf L3617MS
Newspaper Rack Brackets L54B—RE or LE
Newspaper Rack Cups L55CS
Newspaper Rack, complete, L56NR
Book Support L10BH
Label Holder L5L
Card Holder L53CH
Range Finder L53RF

construction features of DELUXE library shelving



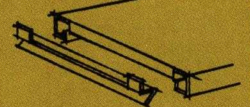
CORNICE TOP

The cornice top overhangs the shelving ⅜″ to provide that finished look. Top ends are removable in order that additional sections can be added to maintain a continuous top.



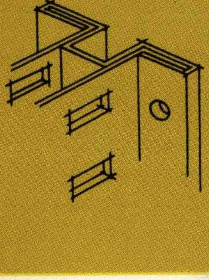
BOLTLESS BRACKET

Shelf bracket if formed with lug at each end to insert into slots (on 1″ centers) in uprights.



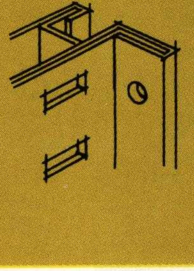
SHELVES

Unit assembly is more stable due to end flanges on shelves engaging slots in shelf brackets. Each shelf acts as a tie shelf holding vertical uprights in perfect alignment.



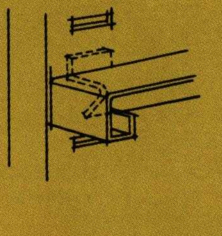
INTERMEDIATE UPRIGHT

Formed from a single sheet of heavy gauge steel and flanged at the rear (illustrated). A spreader is folded over these flanges to provide rounded edges.



END UPRIGHT

Formed of heavy gauge steel, exposed face is unblemished; no finished end panels required. (Rear flanges illustrated).



SHELF AND BRACKET

Picture shows the shelf in place over the bracket (broken lines). Notice the absence of raw edges on Deluxe Shelving. Front and rear flanges formed with three 90° bends.

COLOR GUIDE

FOR ALL DELUXE LIBRARY PRODUCTS

These four standard baked enamel Plastelle colors, applied over Chem-A-Cote bonderizing to insure lasting beauty, are provided for all Deluxe library products.

NO. 8921 SANDALWOOD

Deluxe shelving accessories

Librarian simply lifts magazine shelf for access to hidden back-issue storage compartment.

- MAGAZINE SHELF
- NEWSPAPER RACK
- BOOK SUPPORT
- LABEL HOLDER
- CARD HOLDER
- RANGE FINDER

The new Deluxe magazine shelf and newspaper rack are inexpensive accessories that can be assembled into standard Deluxe Library Shelving.

It's not necessary to purchase expensive special cabinets: the Deluxe magazine shelf and newspaper rack convert regular shelving to these purposes easily and quickly.

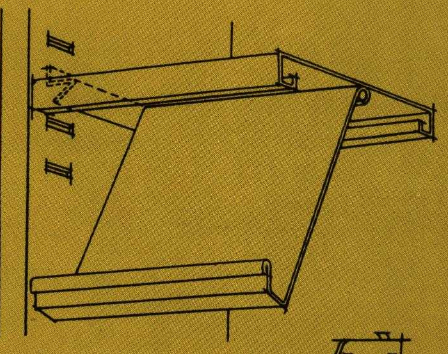
The magazine shelf displays current magazines, and lifts up for hidden but accessible back-issue storage . . . double-duty service.

The newspaper rack is the ultimate in simplicity at very modest cost. It consists of a pair of brackets and cups that attach easily, without tools, into a standard section of Deluxe Library Shelving. Holds six to eleven newspaper rods. A section of Deluxe Library Shelving has room for three magazine shelves or up to twenty-two newspaper rods. Or they can be combined as shown.

In addition Deluxe provides book supports, label and card holders and range finders for use with Deluxe Library Shelving.

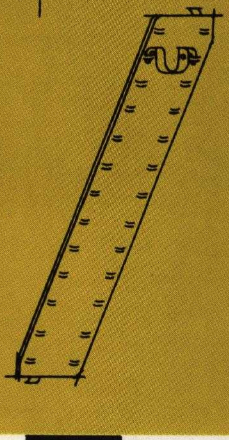
MAGAZINE SHELF ASSEMBLY

The magazine shelf is supplied with a pair of notched shelf brackets which carry the hinge attachment of the shelf. Assembly is rapidly made without use of tools.



NEWSPAPER RACK ASSEMBLY

Consisting of a pair of slotted metal brackets and U-shaped cups, the newspaper rack attaches into the slotted upright member of a library shelving section.



NO. 8924 CANYON CORAL

NO. 8923 MIST GREEN

NO. 8988 OFFICE GREY

A choice of 142 other plain colors are also available at slight extra cost.

DELUXE book stacks for

single-tier applications

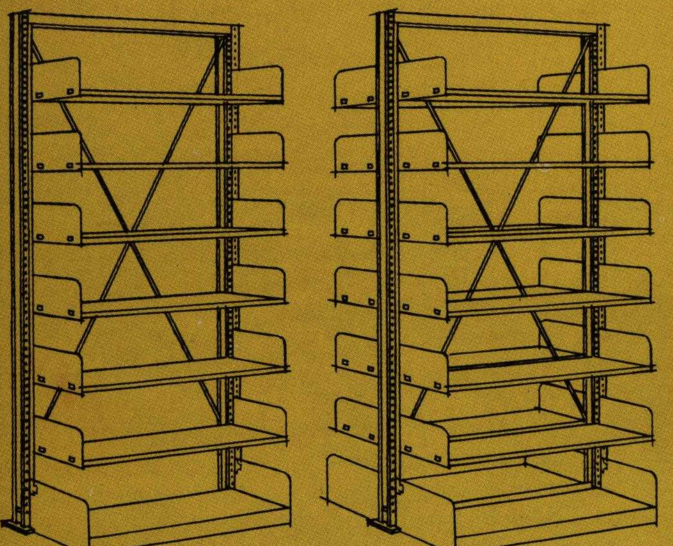
Designed especially to suit the storage requirements of the modern library, the all-steel Deluxe single-tier book stack with boltless shelves adjustable on 1″ centers is supplied in single faced wall units, or free-standing double faced units, with or without finished end panels.

The Deluxe book stack is sturdy and durable, Diagonal bracing is included to prevent sway. All parts are quality-made and carefully finished with exclusive Deluxe Chem-A-Cote bonded finishes as described below.

Shelves are positively locked in to the shelf brackets, which in turn engage the upright members. This design prevents shelves from being accidentally bumped or pulled loose. A selection of various shelf depths are available to suit the most varied requirements.

The single faced unit, which must be attached to wall, is 90″ high, 36″ wide and has total base depths of 13¼″ or 14¼″. It has seven shelves. The double faced free-standing style Deluxe book stack is 90″ high, 36″ wide and has total base depths of 24½″ or 26½″. It has fourteen shelves. Shelves for both single and double faced units are provided in four depths: 8″, 9″, 10″ or 12″.

Finished end panels for single faced units are 90″ high and 13$\frac{5}{16}$″ or 14$\frac{5}{16}$″ wide; for double faced units, 90″ high and 24⅝″ or 26⅝″ wide.



COLOR GUIDE

FOR ALL DELUXE LIBRARY PRODUCTS

These four standard baked enamel Plastelle colors, applied over Chem-A-Cote bonderizing to insure lasting beauty, are provided for all Deluxe library products.

NO. 8921 SANDALWOOD

economical storage

multi-tier applications

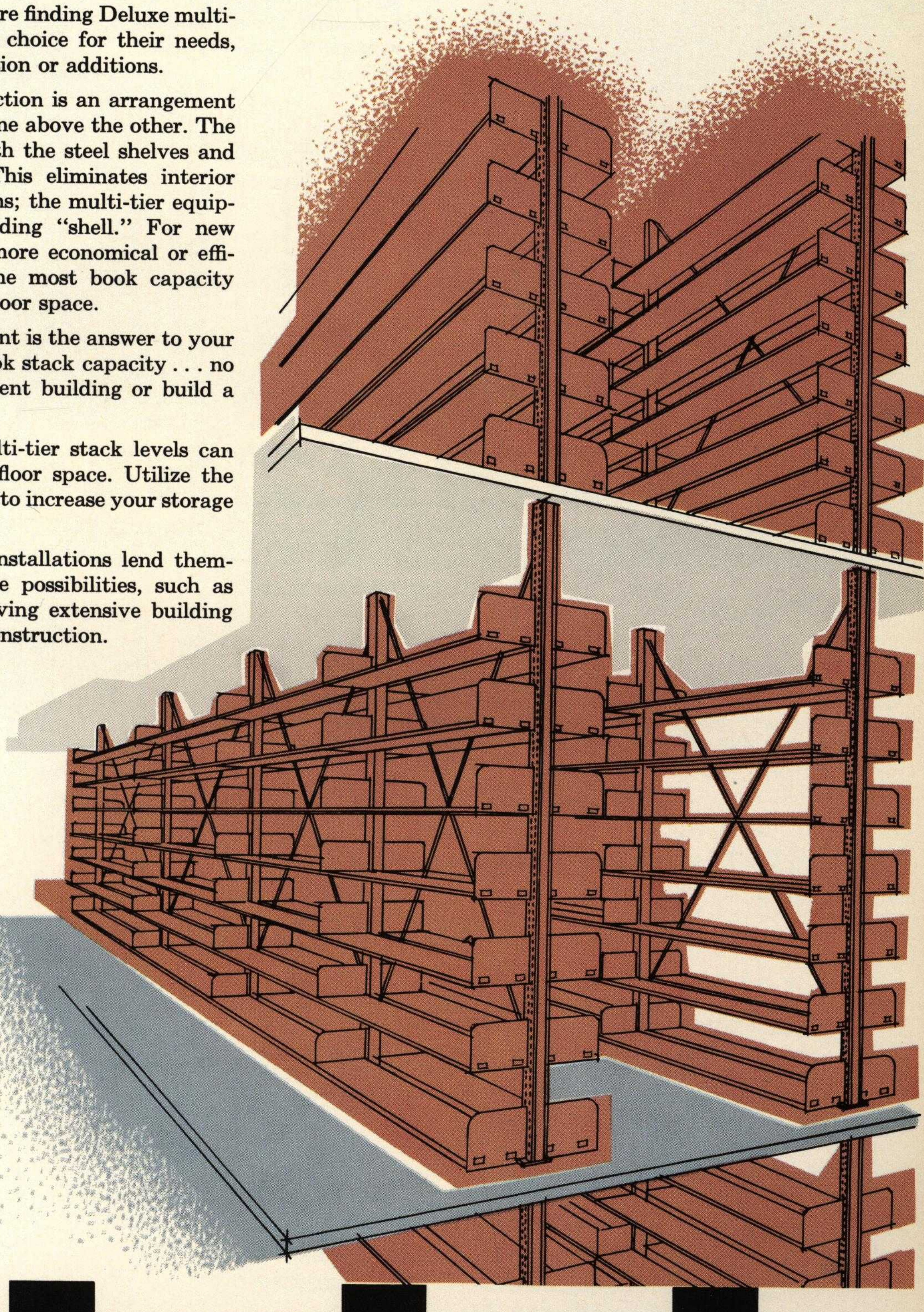
Architects and librarians are finding Deluxe multi-tier installations the best choice for their needs, whether for new construction or additions.

Deluxe multi-tier construction is an arrangement of levels of book stacks, one above the other. The steel uprights support both the steel shelves and the steel decks above. This eliminates interior building floors and columns; the multi-tier equipment fits inside the building "shell." For new construction there is no more economical or efficient means of getting the most book capacity into the least amount of floor space.

Deluxe multi-tier equipment is the answer to your requirements for more book stack capacity . . . no need to expand your present building or build a new one.

Two or three Deluxe multi-tier stack levels can be fitted into very little floor space. Utilize the maximum of the cube area to increase your storage capacity.

These Deluxe multi-tier installations lend themselves to many decorative possibilities, such as magazine installations, saving extensive building alterations or expensive construction.



NO. 8924 CANYON CORAL

NO. 8923 MIST GREEN

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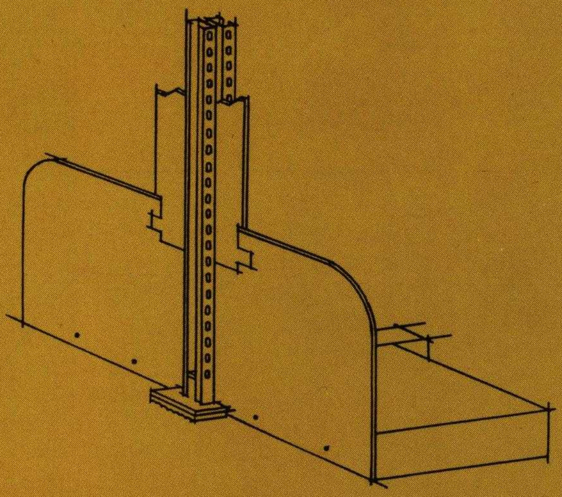
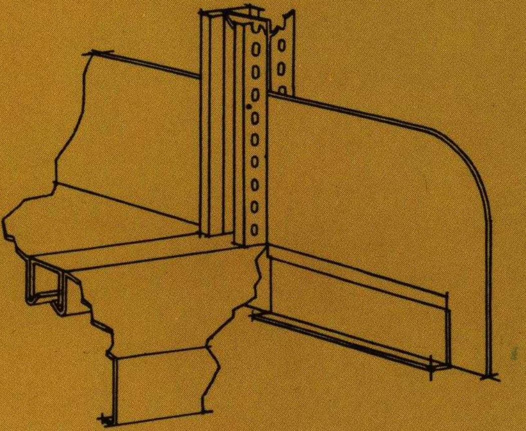
A choice of 142 other plain colors are also available at slight extra cost.

features of Deluxe book stacks



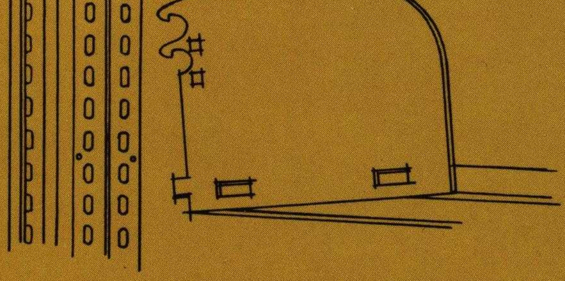
STURDY BASE

Rigid construction consists of heavy 11-gauge footing, 13-gauge base supports and uprights and 18-gauge base spreader and bottom shelf, all strongly interlocked.



ADJUSTABLE BOTTOM SHELF SUPPORT

To compensate for uneven flooring, the Deluxe book stack has this adjustable support, which easily levels the stack upon assembly.



EASY SHELF ADJUSTMENT

Slots in heavy gauge steel uprights on 1″ centers provide for maximum adjustability of intermediate shelves. Double hooking prongs on shelf bracket hold shelf loads securely.

ENGINEERING DESIGN SERVICE

Deluxe provides complete planning and engineering service for book stack installations. The Deluxe Engineering Department personnel aid in organization and layout of book stacks to meet individual requirements. For more details on our Engineering Design Service, please write: There is no obligation.

Deluxe library products

- Library Shelving
- Periodical Shelf
- Newspaper Rack
- Carrel Desk (free standing)
- Carrel Desk (folding)
- Book Stack (single tier)
- Book Stack (multi-tier)

DELUXE study carrel is modern-convertible, too!

Here is the most beautifully proportioned Carrel ever made. Tapered, pewter-finished steel legs, gracefully angled, support the desk at just the right height for writing ease. Desk top provides ample room for study and reference purposes. Choice of steel, linoleum or plastic laminate top.

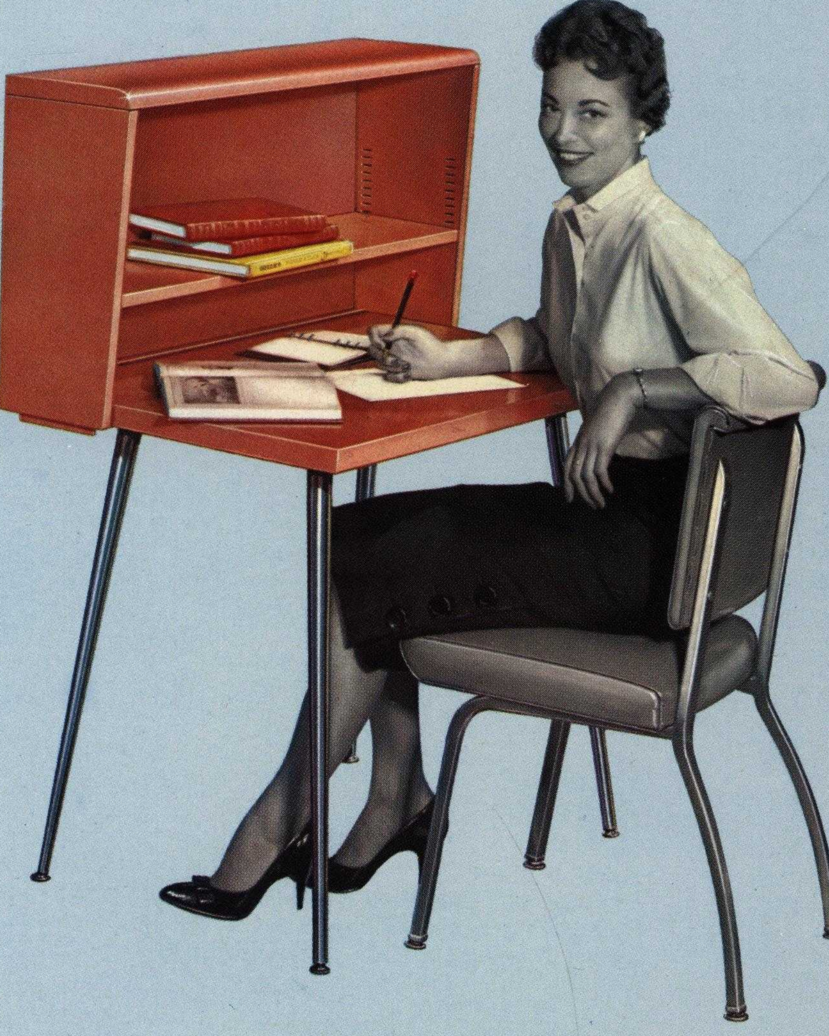
Bookcase at rear of desk has intermediate shelf which may be adjusted to suit storage needs on ½ inch increments. A built-in fluorescent light fixture is also available as optional equipment.

Deluxe's Carrel is adaptable, too. It's convertible! The tapered legs can be easily and quickly removed and the desk inserted into a standard section of Deluxe Library Shelving.

If space is at a premium, this convertible unit is the answer: a full size study Carrel desk that folds out of the way when not in use.

All corners and edges of Deluxe Study Carrels are completely rounded, to prevent injury or damage. Parts are finished with exclusive Deluxe Chem-A-Cote bonded baked enamel. Color choices are given below.

The Deluxe Carrel Desk is 46″ high overall by 36″ wide. Desk top is 28″ high, and 24″ deep by 33½″ wide. The bookcase is 9½″ maximum width, 18″ high and 36″ wide.



NO. 8924 CANYON CORAL

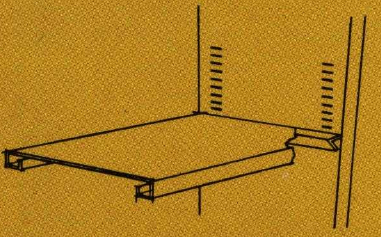
NO. 8923 MIST GREEN

NO. 8988 OFFICE GREY

A choice of 142 other plain colors are also available at slight extra cost.

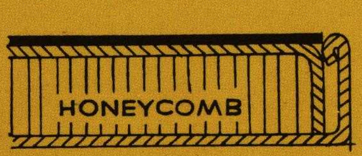
The convertible Deluxe Carrel Desk assembled into a section of Deluxe Library Shelving can readily be folded down to clear an aisle or otherwise conserve space when not in use.

Carrel features and details



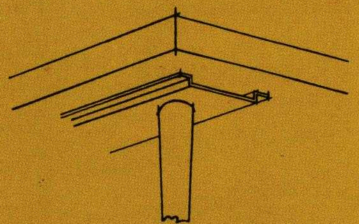
ADJUSTABLE SHELF

Simple shelf brackets provide for easy adjustment of the carrel desk shelf to suit user's needs.



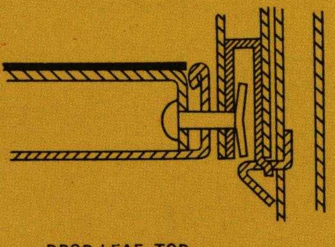
DURABLE DESK SURFACE

Desk has a sound-deadening honeycomb sandwiched in steel and topped with wear-resistant linoleum or plastic laminate.



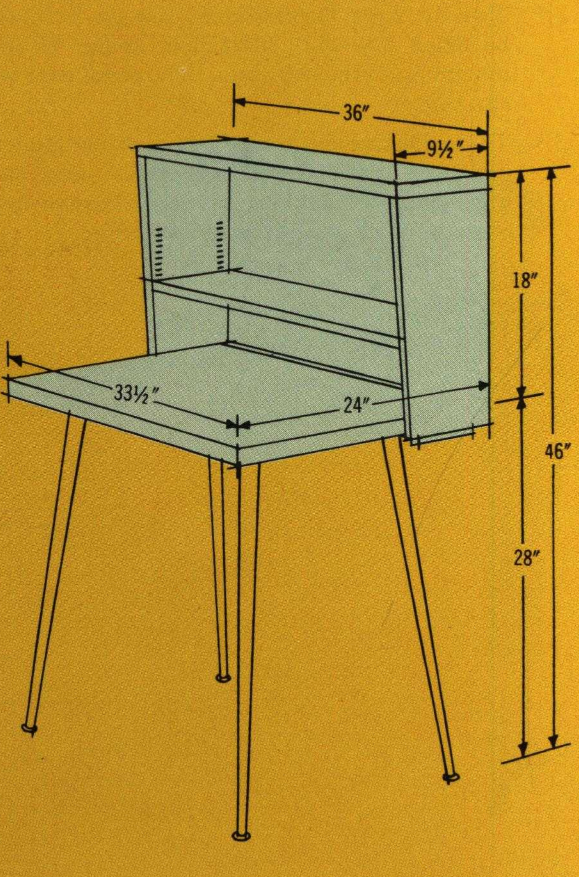
RUGGED CONSTRUCTION

Heavy 11-gauge channels, and 22-gauge steel top make the Deluxe carrel rugged for extra long service.



DROP-LEAF TOP

When used with Deluxe shelving, the hinge arrangement permits easv folding of carrel desk top.



HOW TO ORDER

Order by number and specify color desired.

Deluxe Carrel Desk (free-standing)	L3524CSL
Deluxe Carrel Desk (folding only)	L3524CSR

DELUXE METAL PRODUCTS COMPANY
A DIVISION OF Royal METAL MANUFACTURING CO.

AIA FILE NO. 35-B-2

ESTEY

23f
Es

- freestanding bracket type shelving
- non-freestanding bracket type shelving
- case type shelving
- slotted upright type shelving
- multi tier stacks with either metal or concrete floors
- drawer type compact shelving
- study carrels, freestanding
- study carrels, hanging
- magazine racks
- workroom equipment
- CBI racks
- special purpose shelves
- partition work
- accessories

steel bookstacks
compact drawer shelving
library equipment
and accessories

AIA FILE NO. 35-B-2

ESTEY
CORPORATION

ONE CATHERINE STREET
RED BANK, N. J.

ESTEY LIBRARY EQUIPMENT

Library Planning Service

Estey Corporation is in a position to offer competent assistance to the Architect or Owner in the planning and engineering of steel bookstack equipment. Whether it be a million volume library, a relatively small public or school library or a special library, the services of Estey's Library Planning specialists and engineers are offered to you without cost or obligation.

The completed library with a stack area properly located, attractive in appearance and functional in operation is invariably the result of careful, thorough planning on the part of the Architect in coordination with the staff of the manufacturer of the bookstack equipment.

COLORS

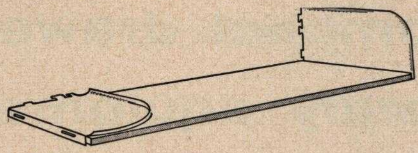
Estey has been responsible for the introduction of modern, decorator colors in the stack areas of many libraries. These color installations have been so enthusiastically received by architects and librarians that color is now being included in the plans for most library projects.

CONSTRUCTION FEATURES

Estey has within the past months completely redesigned and re-engineered its bracket type shelving. Many authorities agree that this equipment is now superior to any other shelving on the market.

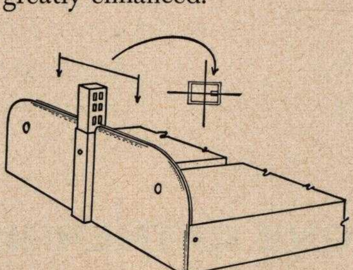
Estey shelves are now available with either the conventional snap-on brackets or with hinged brackets. The use of hinged bracket shelves greatly reduces the cost of installation, and unused shelves can be stored without the possibility of losing or misplacing end brackets.

Our hinged bracket shelves have a special feature which keeps brackets upright while the shelf is being adjusted as to height. This is exclusive with Estey.

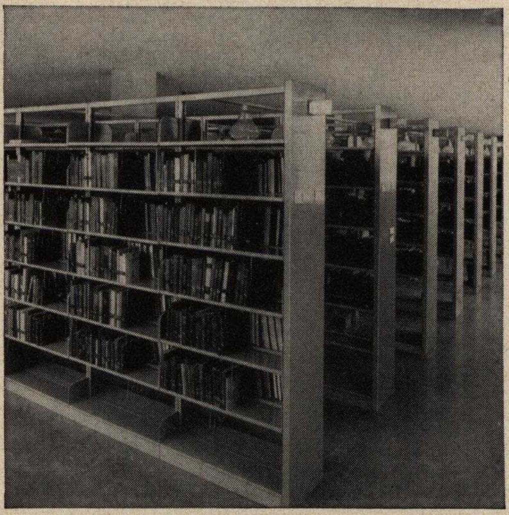


The two most important features of Estey shelving are the closed tube upright and extra strong base member. The upright column is of heavy gauge steel, no less than 16 gauge. It is of box type construction, 2″ x 2½″ in cross section—this closed tube eliminates unsightly flanges which interfere with shelf brackets, and there are no open areas in the post construction to damage books and collect dirt. In addition to providing a stronger, more rigid column, the appearance is greatly enhanced.

Our base firmly grips the upright to provide maximum support, greater rigidity, and enhanced safety factor. There is no better type of base construction available. A practical, positive leveling device is provided.

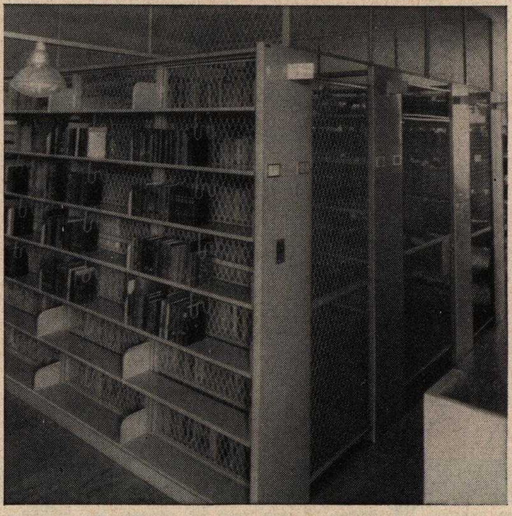


INSTALLATIONS



Free-Standing Stacks

Compact Drawer Shelving

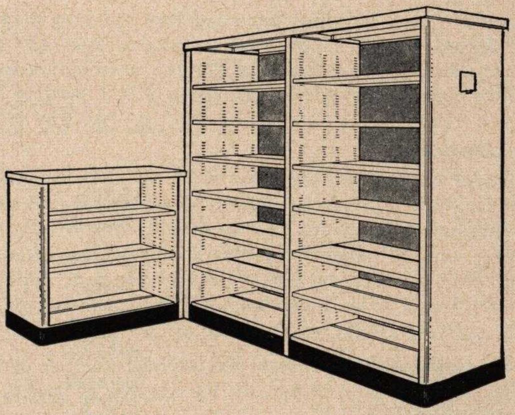


Special Conditions

BOOKSTACKS

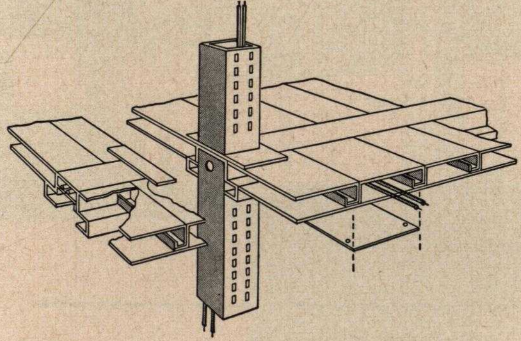
case type

Case type shelving with full depth uprights can be utilized for any bookstack requirement. However, since these are furnished complete with tops and finished end panels, they are particularly well suited for those areas normally seen by the public. The uprights are slotted on ½″ centers to provide maximum adjustability of shelves, and the shelves lock into the uprights to preclude accidental removal. Case type shelving is standard in 42″, 60″ and 82″ heights, but other heights can be furnished. The standard depths are 8″, 10″ and 12″. Case type shelving can be furnished in either the conventional free-standing type or as multi-tier shelving. In the case of multi-tier installations, this shelving is reinforced sufficiently to support the additional floors and uprights.

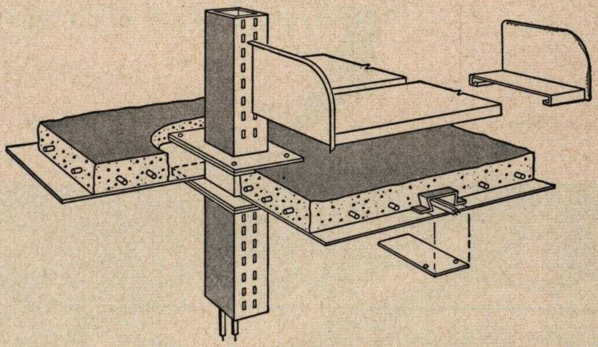


multi-tier bracket type

Multi-tier stacks can be engineered to meet the requirements of either new or existing buildings. By eliminating the need for building floors in the stack area, multi-tier construction can materially reduce the over-all cost of library construction.



This shows details of a conventional floor deck of cellular steel members: other types of steel floors are available.

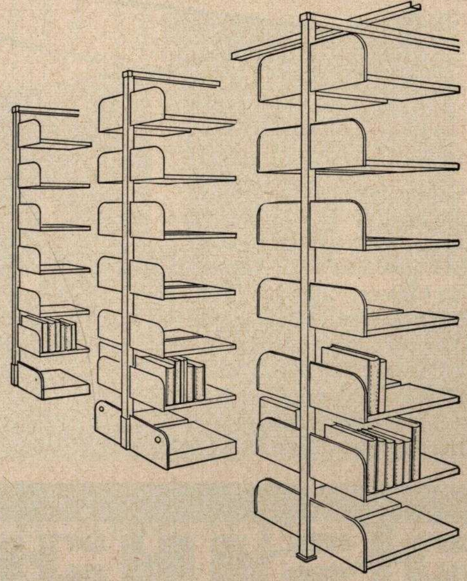


This shows a typical reinforced concrete deck utilizing light weight steel pans as forms for the concrete. This type can also be poured over removable forms.

bracket type

Estey's bracket type book shelving provides maximum flexibility. The double-faced, free-standing type is entirely independent of walls and can be easily relocated to meet changing conditions within the library. To be free-standing, the base shelf must be 2″ deeper than the adjustable shelves. If all shelves, including the base shelf, are to be of one depth, overhead tie struts are furnished. The struts fasten the ranges to each other and to the wall. Diagonal sway braces are furnished for all double-faced ranges.

The illustration to the right shows from left to right the single-faced, free-standing type; the double-faced, free-standing type and the double-faced, non free-standing type.



ESTEY ENGINEERING DATA

General

Height: Free-standing shelving is standard in 42″, 60″ and 90″ heights. Multiple tier shelving is usually 90″ from top to top of decks. The heights are very flexible in both types of shelving.

Aisle width: Where building floors and free standing stacks are used, aisles are very flexible. Main aisles of at least 42″ width and range aisles of 3′ are desirable. Modern architecture is making extensive use of module design and a 9′ x 9′ module works out very well in multi-tier stacks, to provide aisles of 38″ and 36″ respectively.

Length of Ranges: Any multiple of 3′, but preferably not over 24′.

Weight of Books: Approximately 25 lbs. per cu. ft.

Weight of Stacks: Approximately 8 lbs. per cu. ft. of range, not of entire floors.

shelf capacity

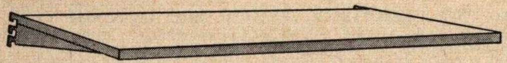
Book shelves are standard in depths of 8″, 10″ and 12″ and with a usable length of 35¼″. In the interest of lower cost, less unused shelf depth and wider aisles, shelves should have as little depth as possible and still allow for proper shelving of material. The average library needs about 90% of the shelving in 8″ depth, and 10% in 10″ depth. If back numbers of newspapers are retained, 2% of the shelving should be either 12″ or 18″ depth.

The table to the right represents the average number of books of various classifications stored on the shelves of general and special libraries.

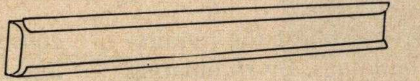
classification	volumes per lineal ft.	volumes per 3′ single-faced section	recommended depth of shelf
fiction	9	189	8
economics	8	168	8
gen. circulation	9	189	8
history	7	147	8
law	5	105	8
medical	6	126	8-10
bound periodicals	5	105	10
public documents	5	105	8
reference	7	147	8-10
scientific and technical	6	126	8-10

accessories

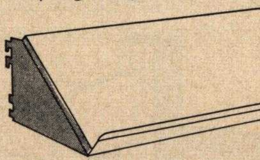
newspaper shelf

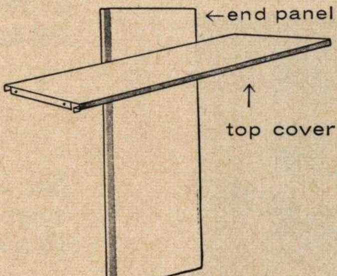


label holder

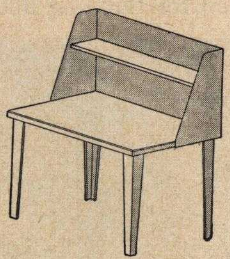


sloping magazine shelf

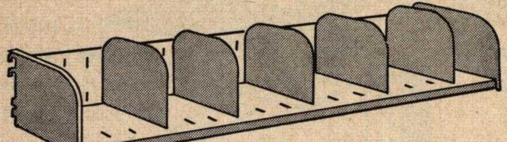




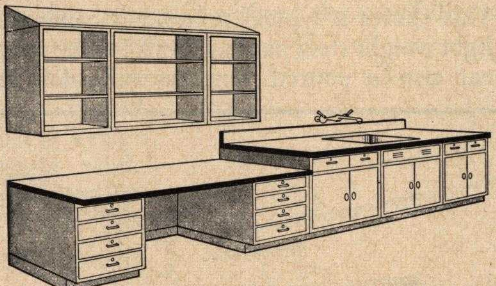
study carrel



divided shelf



processing station



Our unit type processing or work station provides the finest in work room equipment. The large variety of units and wide range of widths assure maximum utilization of space. Complete literature and specifications available at no cost.

installations

Wellesley College, Wellesley, Mass.
Northwestern State College, Natchitoches, La.
Howard University, Washington, D. C.
East Orange Public Library, (Ampere Branch) E. Orange, N. J.
Central State College, Edmond, Okla.
Brooklyn Public Library, (Rugby Branch) Brooklyn, N. Y.
Mount St. Vincent College, Mount St. Vincent on Hudson, N. Y.
Assumption College, Worcester, Mass.
Raymond Memorial Library, East Hartford, Conn.
Georgetown University, Washington, D. C.
Society of the Four Arts, Palm Beach, Fla.
University of Wisconsin, Madison, Wisconsin
Macalester College, St. Paul, Minn.
Department of Health Library, Madison, Wisconsin
Fairfield University, Fairfield, Connecticut
Jacksonville University, Jacksonville, Fla.
St. Petersburg Junior College, St. Petersburg, Fla.
Hammond Public Library, Hammond, La.
New Orleans Public Library, New Orleans, La.
Aberdeen Proving Grounds, Aberdeen, Md.
Milton Public Library, Milton, Mass.
Ann Arbor Public Library, Ann Arbor, Michigan
Maplewood Memorial Library, Maplewood, N. J.

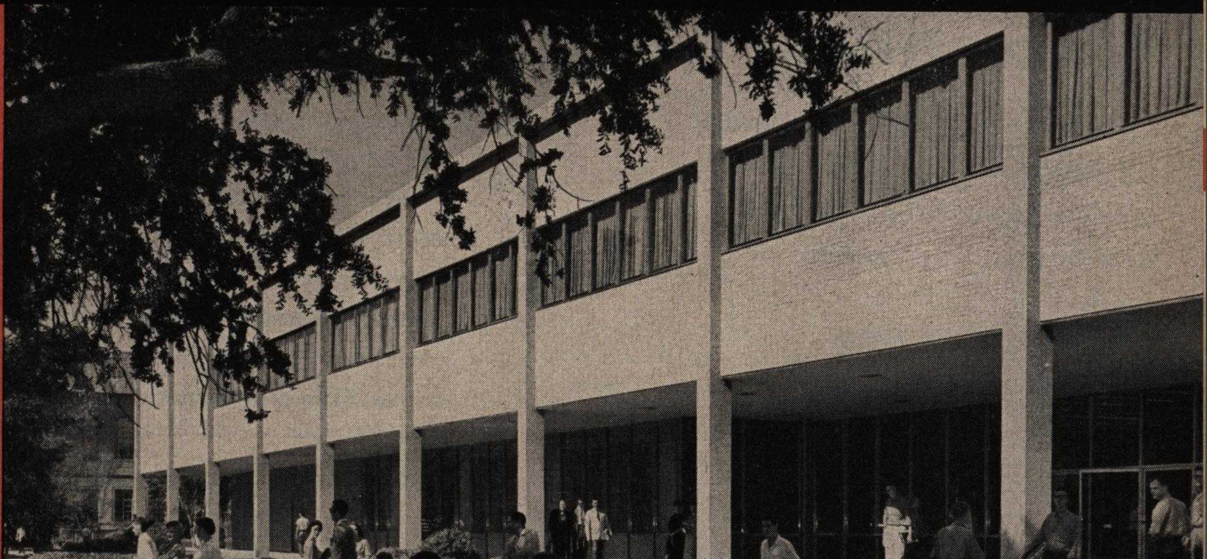
ESTEY
CORPORATION

ONE CATHERINE STREET
RED BANK, N. J.

23f
GL

(SNEAD)
STEEL
BOOK STACKS
AND LIBRARY EQUIPMENT

GLOBE-WERNICKE



Louisiana
State
University
Baton Rouge

THE GLOBE-WERNICKE CO.
Cincinnati 12, Ohio

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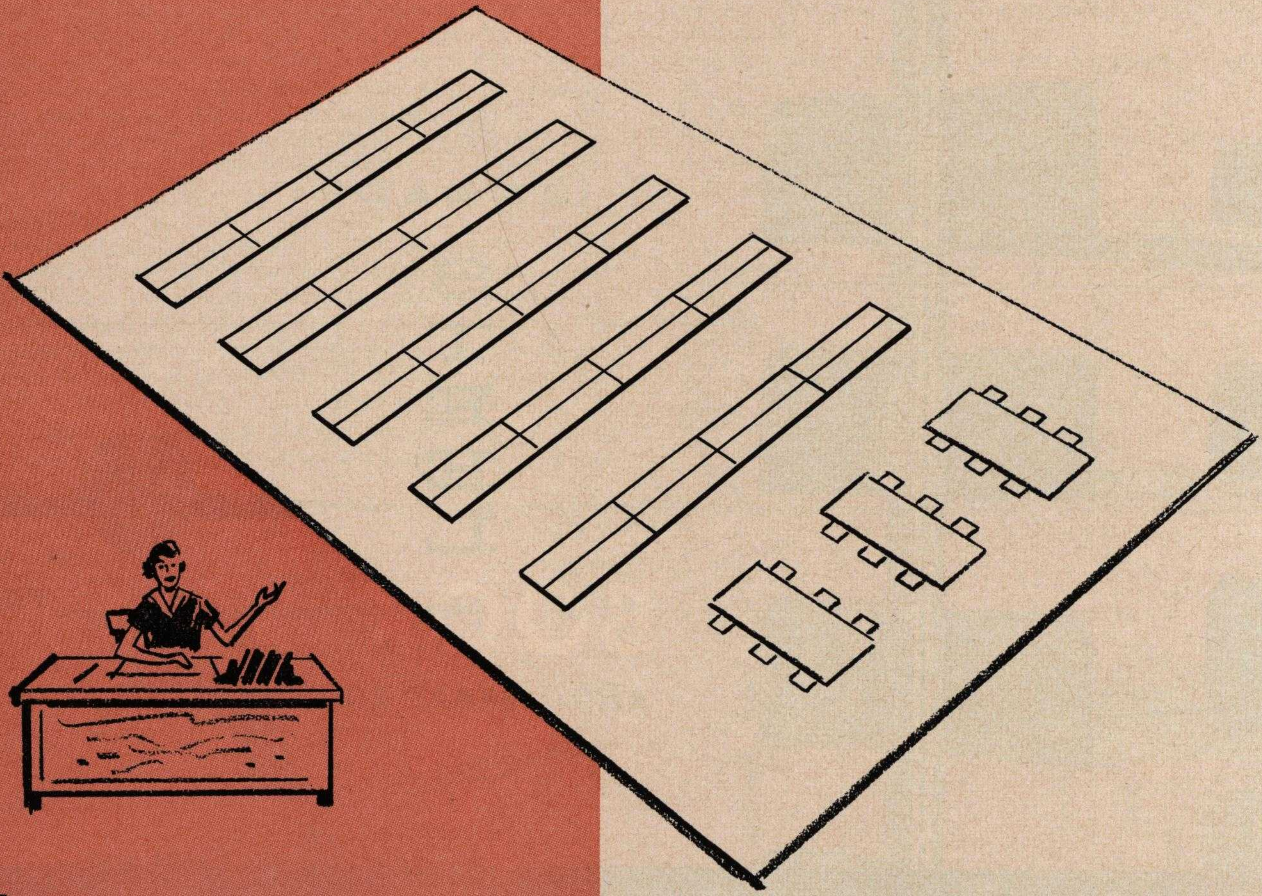


Library Planning

The well-administered, smoothly functioning public or private library is a direct result of thorough, careful, scientific planning combined with an appreciative understanding of the individual conditions and problems of each installation.

Whether the problem involves planning, building and equipping a completely new library, or the expansion, remodeling or modernization of the present library, Globe-Wernicke's library engineers are available to aid in solving library planning and layout problems. There is no obligation in calling upon the G/W library engineering staff in this advisory capacity.

	pages
introduction design factors	2-3
multi-tier stack construction	4-6
standard stacks	7
convertible stack construction	8-9
free and non-free standing stacks	10-11
stack details and accessories	12-14
the SNEAD conveyor	15
installations	back cover

design factors

No definite rules can be laid down regarding the width of shelves required as much depends on the method of classification, space available and use to which the library is put. Where economy and compactness of storage are important, 8-inch shelving is recommended for book stacks in general. Most books are six inches or less in depth and it is well to bear in mind that waste space back of books collects dirt and is objectionable while the same space added to the width of the aisles becomes valuable.

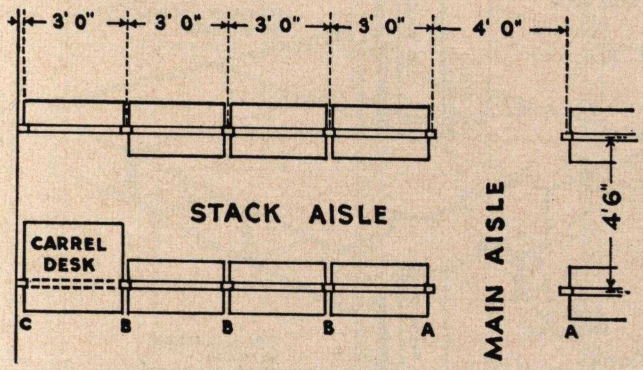
The number of volumes that can be stored per lineal foot of shelving depends on the character of the books. The table at right has been prepared by averaging the data collected from various general and special libraries, for convenience in computing the amount of stack necessary, the capacity being based on stacks 7½ ft. high with seven rows of shelves in the height.

The figures are for solidly packed books without any allowance for working space or expansion.

shelf requirements

	Vols. per ft. of shelf	Vols. per linl. ft. of single-faced range	Vols. per 3 ft. of single-faced range	Recommended width of shelves
Circulating	8	56	168	8 in.
Fiction	8	56	168	8 in.
Economics	8	56	168	8 in.
General Literature	7	49	147	8 in.
Reference	7	49	147	8-10 in.
History	7	49	147	8 in.
Technical and Scientific	6	42	126	8-10 in.
Medical	5	35	105	8-10 in.
Law	4	28	84	8 in.
Public Documents	5	35	105	8 in.
Bound Periodicals	5	35	105	10-12 in.
U. S. Patent Specifications 2 (144 vols.) per year		14	42	8 in.

The plan below shows an example of typical stack construction.



UNIT STACK WEIGHTS

BOOKS — 25 lbs. per cubic foot of range.

STACKCONSTRUCTION — 8 lbs. per cubic foot of ranges.

STEEL PANEL FLOOR — 12 lbs. per sq. ft. (including tile).

REINFORCED CONCRETE FLOOR — 45 lbs. per sq. ft. (including tile.)

LIVE LOAD — To be determined by local codes.

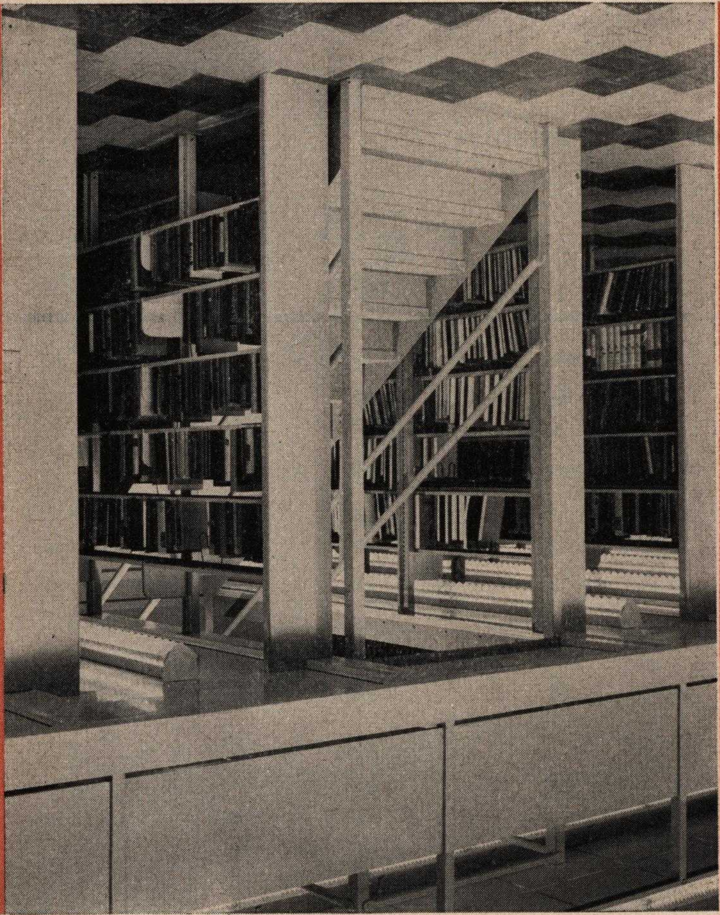
load data

The following table illustrates the approximate variation of stack loads for from one to twelve tiers, including Stacks, Books, Concrete Deck and 50 lbs. Live Load.

tiers	A	B	C
1	620	1240	620
2	2612	3513	1863
3	4604	5786	3106
4	6596	8059	4349
5	8588	10332	5592
6	10580	12605	6835
7	12572	14878	8078
8	14564	17151	9321
9	16556	19424	10564
10	18548	21697	11807
11	20540	23970	13050
12	22532	26243	14293

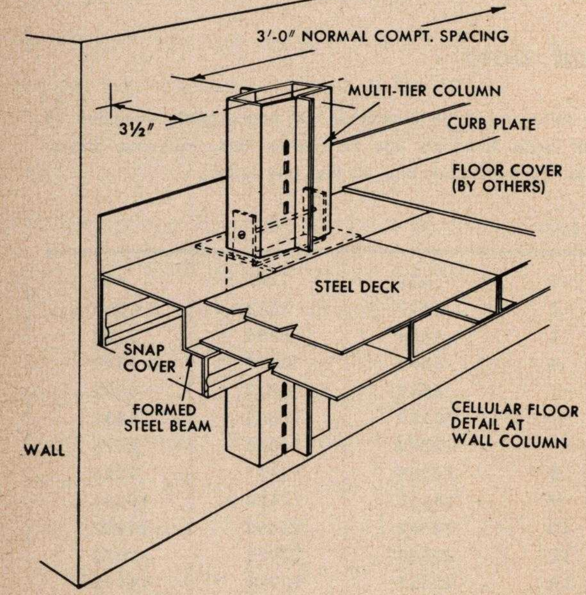
A—Typical aisle end support.
B—Typical intermediate support.
C—Typical wall end support.

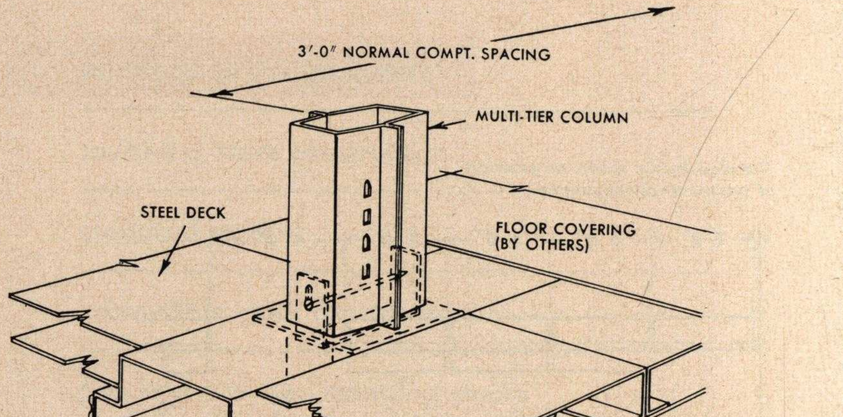
multi-tier stack construction



Floor space, costing what it does, requires large volume book storage to go vertical. Book transportation is much simpler in the vertical than in the horizontal. The multi-tier stack, structurally supports not only the book load, but also supports the floor decks and the roof. This construction is only suited to space permanently allocated to book storage. The close spacing of supporting columns permits the use of thin slab concrete or cellular steel floors. There is no more practical and efficient system for permanent book storage with maximum utilization of space.

cellular steel construction


3′-0″ NORMAL COMPT. SPACING
3½″
MULTI-TIER COLUMN
CURB PLATE
FLOOR COVER (BY OTHERS)
STEEL DECK
SNAP COVER
FORMED STEEL BEAM
WALL
CELLULAR FLOOR DETAIL AT WALL COLUMN


3′-0″ NORMAL COMPT. SPACING
MULTI-TIER COLUMN
STEEL DECK
FLOOR COVERING (BY OTHERS)
SNAP COVER
FORMED STEEL BEAM
CELLULAR FLOOR DETAIL AT INTERMEDIATE COLUMN

standard dimensions

MULTI-TIER INSTALLATIONS

HEIGHT — 7 ft. 6 in. to 8 ft., measuring from top surface of deck floor to top surface of next deck floor.

AISLES — Main, 3 ft. to 4 ft. Range, 2 ft. 6 in., to 3 ft.

RANGES — Lengths as required preferably not over 21 ft.

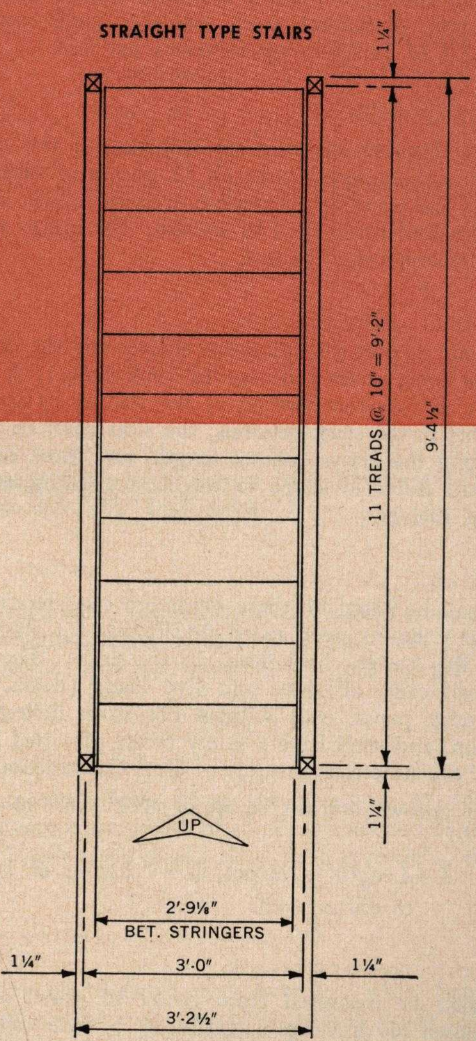
SHELVES — Lengths, as required, standard 3 ft. Depths, 8, 9, 10 and 12 in. for books. 18 in. for newspapers. (Note — Shelf depth is measured from centerline of Range to outside edge of shelf.)

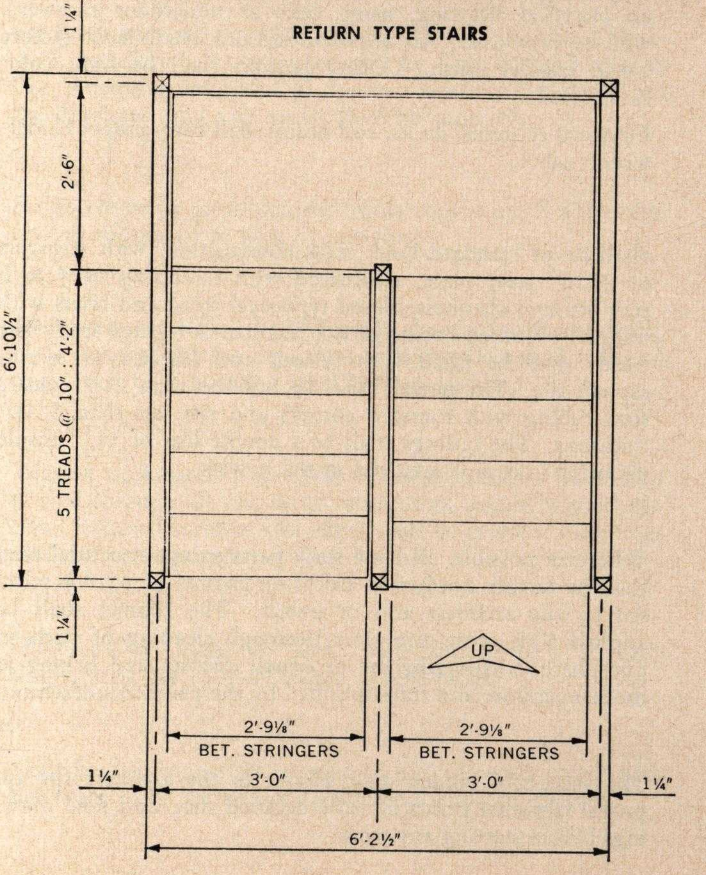
STAIRS — Straight type, well length 9 ft. 2 in. to 10-ft., width 3 ft. Return type, well length 7 ft., width 5 ft.

DECK FLOOR — May be one of two types: Reinforced concrete slab 3½ in. thick without plaster or floor covering. Cellular steel type construction with formed beams. (For weight and loading factors see page 3.)

The specifications for Multi-tier for book stack construction on page 6, covers in separate paragraphs, the Reinforced Concrete deck construction as illustrated at the left, and the Cellular Steel Construction as illustrated on page 5. Globe-Wernicke can furnish either construction. In writing specifications, Architects should select and include either paragraph.

Architects are invited to consult Globe-Wernicke library engineers for design assistance and specific recommendations for Multi-tier library installations.


STRAIGHT TYPE STAIRS
1¼″
11 TREADS @ 10″ = 9′-2″
9′-4½″
1¼″
UP
2′-9⅛″
BET. STRINGERS
1¼″
3′-0″
1¼″
3′-2½″


RETURN TYPE STAIRS
1¼″
2′-6″
6′-10½″
5 TREADS @ 10″ : 4′-2″
1¼″
UP
2′-9⅛″
BET. STRINGERS
2′-9⅛″
BET. STRINGERS
1¼″
3′-0″
3′-0″
1¼″
6′-2½″

stair specifications

NEWELS — 2½″ x 2½″ x 3/16″ sq. tubing.
NEWEL PLATE — 3″ x 3″ x ¼″ plate w/¼″ thick steel plug.
STRINGERS — 3/16″ x 10″ steel plate or 10″ — 8.4# J & L stair channel.
TREADS — #14 ga. steel w/concrete fill or slate.
RISERS — #14 ga. steel.
LANDINGS — concrete or slate.
RAILINGS — 1¼″ I.D. pipe.
NEWEL CAPS — standard type, cast design.

specifications for multi-tier book stack construction

scope

Set forth are the specifications for a high-quality book-stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

All specifications are based on the bracket type of book stack construction as detailed in the BOOK STACK COLUMNS paragraph.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge. Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

Shall support the adjustable shelves and the decks (decks are the floors under and over the book stacks). It shall be possible to vary the position of the shelves by hooking them in slots in the stack columns; the slots shall be at 1″ intervals along the entire column length; any three consecutive slots shall differ in shape to facilitate aligning and leveling of the shelves.

column design

Shall be based on these minimum considerations: Live load for columns over aisles, 50 lb./sq. ft.; stack construction, 8 lb./ cu. ft.; book load, 25 lb./cu. ft. The stack columns shall carry all dead and live loads (decks, shelves, book trucks, paper, etc.) without noticeable deflection and vibration, and shall have a safety factor provided by the formula of the American Institute of Steel Construction:

$$\text{Allowable stress/sq. in. of steel} = 17000 - 0.485\,\frac{L^2}{R^2}$$

L—Length in inches; R — Radius of gyration; $\frac{L}{R}$ not to exceed 120.

stack compartments

Shall be measured from center to center of supports, as shown on drawings (usually 36″); each compartment shall have 7 adjustable shelves. Standard shelves shall be 8″ (nominal) in depth as measured from the outer edge of the shelf to the center line of the stack columns; this size shall be 85%, 10″ (nominal) depth — 10% and 12″ (nominal) depth — 5% of total shelf order.

adjustable shelves — solid plate design

The solid plate shelves shall have 16-gauge end brackets that shall engage the slots of the stack columns. These brackets shall have three hooks at top rear and a lug at lower rear, to engage the column slots and to prevent lateral movement. The shelf shall be not less than 18-gauge steel, triple flanged along the front and back edges and shall be able to withstand a load of 40 lb./sq. ft. with a maximum deflection of 3/16″.

deck construction — reinforced concrete

The floor beneath the book stacks — the deck — shall be reinforced concrete, using rods, angle iron, T bars, beams, channels, plates and other shapes as required. A live load of 50 lb./sq. ft. of aisle area shall be used in calculating the strength of steel floor members. No structural member shall be subjected to stress of more than 18,000 lb./sq. in. The steel deck framing shall be secured to the stack columns, building walls, etc. Where this framing is not required, the reinforcing rods shall be held in place and supported by channel stirrups 3½″ in depth and secured to the stack columns below, and forming a base for the stack above.

deck construction — cellular steel

Flooring shall consist of cellular steel shapes, firmly attached to the steel framing system, presenting a continuous smooth surface over the entire floor and ceiling. Resilient floor covering may be installed. Individual floor sections shall be formed of sheet steel, approximately 9″ wide, with maximum unsupported area not to exceed 4½″. Steel shall not be less than 16 gauge with overall thickness of each section determined by design conditions approved by the architect. Sound deadening material shall be used between all points of metal contact. Sections shall be firmly arc-welded at each end to supporting members. Outlets for lighting fixtures as shown on electrical drawing, using cells as underfloor raceways, will be provided. All exposed sections shall have factory baked enamel finish. Ceiling portion shall be light color as selected.

Electrical columns, decks, and beams shall carry proper Underwriters label.

stairs

Shall be of standard book stack construction, with stringers of 3/16″ steel plate, reinforced with moulding or J & L stair stringer channels, closed type steel tread and risers with integrally formed nosing of not less than 14-gauge steel. The treads shall be filled with cement and finished to receive asphalt tile. The newels shall be not less than 2½″ square steel tubing with rounded corners and not less than 3/16″ thickness. The railings shall be a double line of 1¼″ inside diameter iron pipe attached to the newels.

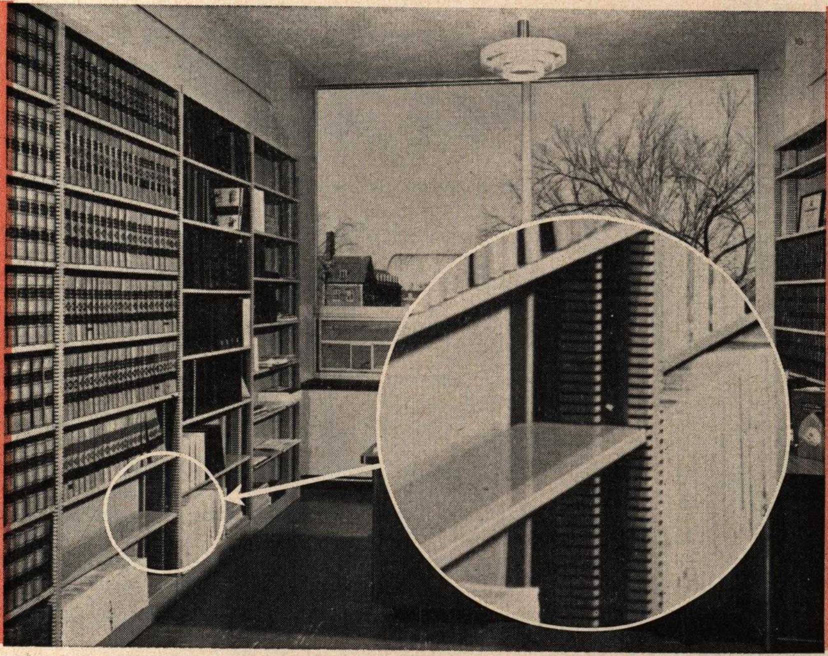
finish

Wherever possible, all book stack parts except structural steel shall be factory finished in baked-on enamel of a color selected by the architect and/or owner. The enamel shall be applied with great care after thorough cleaning of parts in phosphate, trichlorethylene or equal; coating and baking at the temperature and time specified by the paint manufacturer.

drawings

The successful bidder shall submit to the architect for approval triplicate prints of fully detailed shop and field drawings before starting any work.

standard type



The Standard Stack has full depth hollow metal division panels between compartments and at stack ends. A compartment of standard type stack is composed of fixed base, top, and six adjustable shelves. The end uprights, full depth, are slotted to provide ½-inch shelf adjustments. Either single- or double-faced stacks, with or without backs, are available. Standard height is 7′6″. Shelves and corresponding uprights can be furnished in 8-, 10-, and 12-inch depths. Sloping periodical shelves are available in 10- and 12-inch depths.

Photo by Hube Henry, Hedrich-Blessing

specifications for standard free standing book stacks

scope

Set forth here are the specifications for a high-quality bookstack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

Stacks are made up of compartments consisting of adjustable shelves supported in slots of uprights.

materials

Sheet steel parts shall be best grade (metal furniture) stock, U. S. standard gauge. Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

Highest workmanship standard of metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces and edges shall be smooth: fastenings shall be secure; alignment shall be true.

stack compartments

Shall be 7′6″ high, 36″ O.C. wide and 8″-10″-12″ deep single-faced, 16″-20″-24″ deep double-faced.

uprights

Shall be 18-gauge steel, slotted at ½″ intervals, every fifth slot front to be marked to facilitate aligning of shelves.

top plates

Shall be 20-gauge steel, have channel formed sides 1-7/16″ high front and back, 1⅜″ high sides.

adjustable shelves

Shall be 18-gauge steel, triple-flanged ¾″ along front and back edges: designed for a 40 lb./sq. ft load with 3/16″ maximum deflection and with an accidental pull-out prevention lock.

bottom spreaders

Bottom shelves shall have 16-gauge spreaders, 4″ high, extending full length and width of compartments and flanged on all sides. Single-faced stacks shall have spreaders front and back.

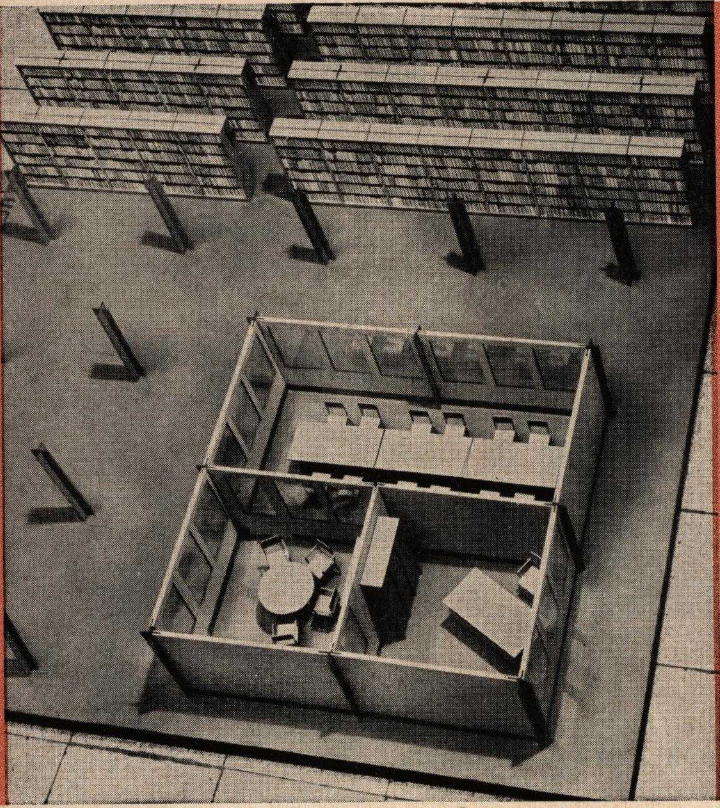
end panels and backs

End panels shall be 18-gauge steel, have ¾″ wide channel formation front and back, reinforced with 2 20-gauge, 2¾″ wide channels. Backs shall be 20-gauge steel, flanged top and bottom.

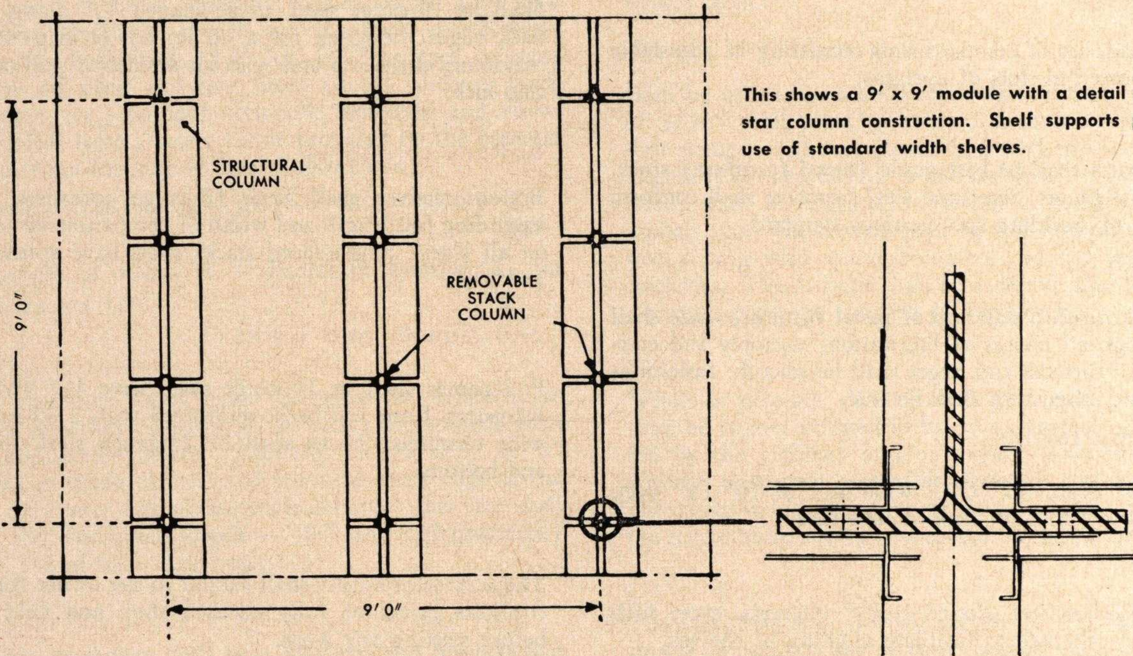
drawings

The successful bidder shall submit to the owner for approval triplicate prints of fully detailed shop and field drawings before starting any work.

convertible stack construction



In planning the modern library, more emphasis is being placed on including small areas for reading, staff work, carrels, offices, seminars, and audio-visual use. This problem can be most economically solved by the use of Snead convertible construction, wherein the columns supporting the deck floors are spaced on a nine-by-nine-foot module. This module permits the use of much thinner and less expensive floor slabs than is possible with conventional construction. Intermediate stack columns are removable so that areas nine-by-nine-feet may be converted to reading areas or for other uses.



This shows a 9′ x 9′ module with a detail of the star column construction. Shelf supports permit use of standard width shelves.

specifications for convertible (modular) book stacks

scope

Set forth here are the specifications for a high-quality modular book-stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

Stacks are compartments consisting of adjustable shelves supported between and by upright columns, as detailed in the STACK COLUMNS and ADJUSTABLE SHELVES paragraphs.

a. Work included in the Library Stack Contract, to be furnished and installed:

(1) ....tiers of structural columns.

(2) All concrete slabs, supported by stack columns, including necessary reinforcing, framing, shoring and form work.

(3) Non-structural book stack columns, shelves and accessories as indicated on plans and hereinafter specified.

(4) Straight type stairs (or return type) and railing from tier 1 to tier ......

(5) Metal enclosure for stairs, (Elevator, booklift, ducts, etc.)

(6) Carrel partitions and desks.

(7) Insulated partitions and doors.

(8) Wire mesh partition and doors.

(9) Newspaper shelves.

(10) Book stack accessories.

(11) Provisions to receive electrical work as specified.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge.

Structural steel members shall conform to the A.S.T.M. building specifications standard.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

The column shall be not less than 16-gauge tubular steel, its single-tier length slotted at 1″ intervals; any 3 consecutive slots differing in shape to facilitate aligning and leveling of the adjustable shelves.

structural columns

This column shall be designed to support all dead and live loads, the live load being 120 lb./sq. ft. minimum; the shape may be T, angle or other. Spacing of the columns is shown on the drawings (usually 9′0″ x 9′0″). Structural columns shall be drilled to receive shelf supports and can be supplied in multi-tier lengths.

adjustable shelves

The shelves shall be not less than 18-gauge steel, triple-flanged along the front and back edges, single-flanged along the two ends.

End brackets of shelves shall be not less than 16-gauge steel, extend 6′ above the shelf surface, and formed with 5/16″ outward flanges along the front and top edges. These brackets shall have hooks and a lug to engage the column slots.

Stack compartments shall measure 3′0″ between column centers. Each compartment shall contain 7 shelves.

Shelf depth shall be 8″ (nominal) for 85%, 10″ (nominal) for 10% and 12″ (nominal) for 5% of total shelf order. Periodical, newspaper, record storage and other types of shelf shall be as shown on the drawings.

end panels

The end panels of each stack range shall be not less than 18-gauge steel, full height and width of stack, triple-flanged on the vertical edges to a depth of not less than 1-3/16″, and trimmed at the top with 16-gauge steel bands.

closed ends

Closed stack ends shall be full depth of both single and double faced bottom shelves and of 18-gauge steel, reinforced to maximum strength to provide for rigid installation. Corners shall be formed to a ¾-inch radius and double flanged.

stairs and metal enclosures

The stairs shall be standard book-stack construction, designed for a live load of 50 lb./sq. ft., and of the extent shown on the drawings. Risers shall be not less than 14-gauge steel.

Treads shall be non-slip metal, such as Bronzalum, without perforation.

A continuous pipe and bracket handrail shall be provided for one side of the stairs; doors shall be hollow, insulated metal.

The stairwell, elevator shaft and duct shall be enclosed in not less than 18-gauge steel, reinforced to prevent buckling, noise and vibration.

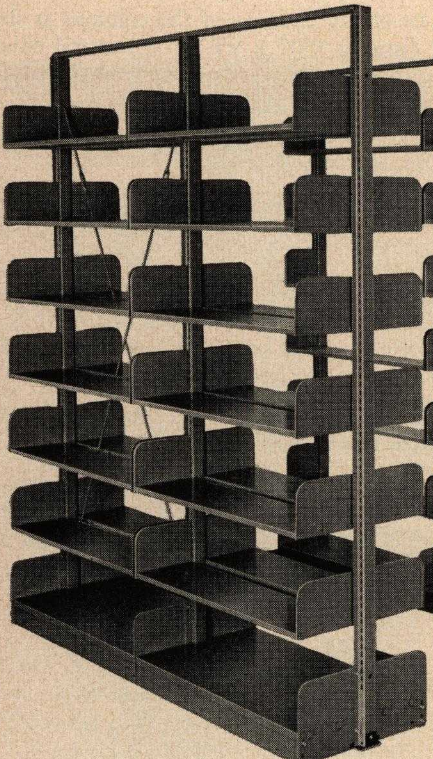
accessories (optional)

The exposed end panels shall be equipped with a V-shaped range indicator, formed to hold 3″ x 5″ cards on both surfaces. Each adjustable shelf shall have 1 snap-in label holder. Each adjustable shelf shall have ...... book support(s).

drawings

The successful bidder shall submit to the architect for approval triplicate prints of fully detailed shop and field drawings before starting any work.

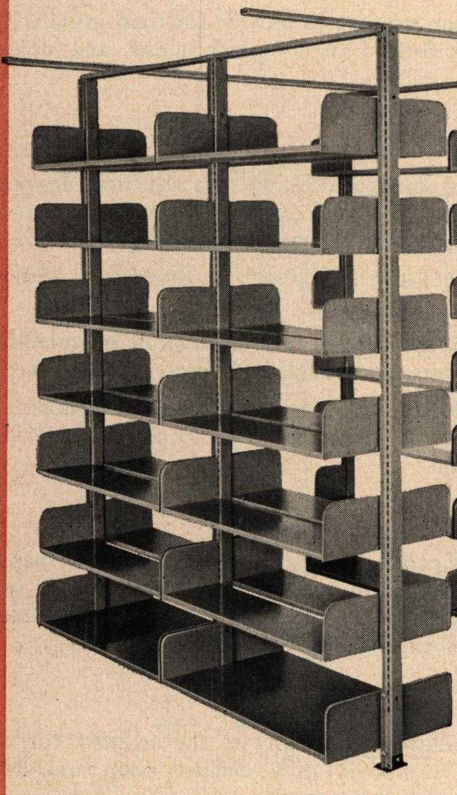
free standing / non-free standing stacks



free-standing stacks single- and double-faced

Free-standing stacks are so designed as to be entirely self-supporting and requiring no tie-in with adjacent walls or structures. Each compartment is equipped with one fixed bottom and six adjustable shelves and has a closed base. Compartments are regularly 7'6" high and 3' wide on centers. Ten-inch bottom shelves are furnished with 8- and 10-inch deep adjustable shelving; 12-inch bottom shelves, with 12-inch deep adjustable shelving. 12-inch base shelves are available for units with 8-inch and 10-inch adjustable shelves if desired.

SINGLE FACE	INITIAL UNIT STOCK NUMBERS	ADDITIONAL UNIT STOCK NUMBERS
With 8-inch adjustable shelves and 10-inch fixed base shelf	S 30810	S 30810-A
With 10-inch adjustable shelves and 10-inch fixed base shelf	S 31010	S 31010-A
With 10-inch adjustable shelves and 12-inch fixed base shelf	S 31012	S 31012-A
With 12-inch adjustable shelves and 12-inch fixed base shelf	S 31212	S 31212-A
With 18-inch adjustable Newspaper shelves	S 318	S 318-A
DOUBLE FACE		
With 8-inch adjustable shelves and 10-inch fixed base shelf	D 30810	D 30810-A
With 10-inch adjustable shelves and 10-inch fixed base shelf	D 31010	D 31010-A
With 10-inch adjustable shelves and 12-inch fixed base shelf	D 31012	D 31012-A
With 12-inch adjustable shelves and 12-inch fixed base shelf	D 31212	D 31212-A
With 18-inch adjustable Newspaper shelves	D 318	D 318-A



non-free standing stacks single- and double-faced

Non-free-standing stacks eliminate bottom brackets, fixed bottom shelf, and base strips. Columns must be anchored to the floor with base clips. Ranges are supported by means of overhead struts spaced at proper intervals to maintain rigidity. Plans or drawings must be included showing stack arrangement so stack struts can be furnished in proper quantity and length. Compartments are regularly 7'6" high and 3' wide on centers. Each compartment is equipped with seven adjustable shelves.

single-faced	INITIAL UNIT STOCK NUMBERS	ADDITIONAL UNIT STOCK NUMBERS
With 8-inch shelves	No. NS 308	No. NS 308 A
With 10-inch shelves	No. NS 310	No. NS 310 A
With 12-inch shelves	No. NS 312	No. NS 312 A
Newspaper shelves, 18" deep	No. NS 318	No. NS 318 A
double-faced		
With 8-inch shelves	No. ND 308	No. ND 308 A
With 10-inch shelves	No. ND 310	No. ND 310 A
With 12-inch shelves	No. ND 312	No. ND 312 A
Newspaper shelves, 18" deep	No. ND 318	No. ND 318 A

specifications for free-standing (bracket type) book stack construction

scope

Set forth here are the specifications for a high-quality book stack installation, as manufactured by The Globe-Wernicke Co. Anything not listed in the specifications but shown on the drawings, and vice versa, shall be supplied.

type of stack

All specifications are based on the bracket type of book stack construction: Shelf supporting members consist of columns, spaced 36″ O.C., holding the adjustable shelves in cantilever fashion. Double-faced stacks shall be free standing without floor anchorage or lateral bracing; and so constructed that any one compartment in a range can be removed without disturbing adjacent compartments. Single-faced stacks shall be anchored to walls with concealed angles attached at the columns. Double-faced stacks shall be braced diagonally approx. every third compartment with 5/16″ diameter rod.

guarantee

The contractor shall guarantee the installation against defective material and workmanship for one year after acceptance of work and receipt of final payment. The contractor shall replace defective work as soon as notified in writing, without expense to the owner, provided such defect in workmanship and material is the fault of the contractor.

materials

Sheet steel parts shall be best grade (metal furniture) stock, open hearth, cold rolled, annealed, pickled and U. S. standard gauge.

workmanship

The highest workmanship standard of the metal furniture trade shall prevail through all phases of fabrication, assembly and erection. Exposed surfaces, edges, nuts, heads of bolts and rivets shall be smooth. Fastenings shall be secure, alignments shall be true.

stack columns

Shall be 7′6″ high, unless otherwise specified, and consist of 2 16-gauge channels flanged outwardly, electrically spot welded together and spaced for maximum strength. Slots shall be punched on the opposing sides of the column. These slots shall be at 1″ intervals along the column length; any 3 consecutive slots shall differ in shape to facilitate aligning and leveling of the shelves.

column base clips

Column base clips shall be 11-guage steel with provision for bolting to column and floor. Clip shall have composition pad to prevent damage to floor covering.

adjustable shelves

Shall be not less than 18-gauge steel, triple flanged along front and back edges to a depth of ¾″. They shall withstand a load of 40 lb./sq. ft. with maximum deflection of 3/16″. A snap-on locking device shall link them with the brackets. Shelf depth shall be 8″ (nominal) for 85%, 10″ (nominal) for 10% and 12″ (nominal) for 5% of total shelf order. Shelf brackets of 16-gauge steel shall engage in column slots and permit easy adjustment without use of tools. Brackets shall have 3 hooks and a safety lug for engaging the column. Hooks shall be blistered to provide a snug fit; bracket edges shall be formed to prevent damage to books.

base shelves

Base shelves shall be 18-gauge steel, with ¾″ front edge, flanged and folded. Ends shall be flanged to engage bottom bracket clips. Depth of double-faced shelves shall be continuous. A formed, 18-gauge steel kick plate shall serve as closure between bottom shelf and floor, and so designed as to accommodate floor irregularities. Bottom brackets of 11-gauge steel shall bolt to the columns.

top ties

14-gauge, top tie U channels shall be bolted to the tops of the columns of each stack, with flanged side down.

finish

All metal parts shall be neatly finished in baked enamel in accordance with the best practices of the steel furniture trade.

closed ends

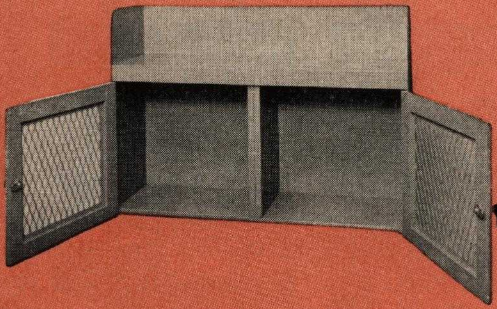
Closed stack ends shall be full depth of both single and double faced bottom shelves and of 18-gauge steel, reinforced to maximum strength to provide for rigid installation. Corners shall be formed to a ¾-inch radius and double flanged.

drawings

The successful bidder shall submit to the architect for approval triplicate prints of fully detailed shop and field drawings before starting any work.

details and accessories

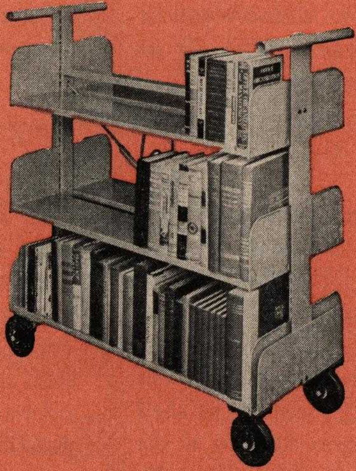
book lockers



fabricated of steel, they are advantageously used in stack area or with carrels in carrel area. Have variety of uses including rare book and manuscript storage where free access is not desirable; individual student use for storage of research materials, etc. All lockers are equipped with locks.

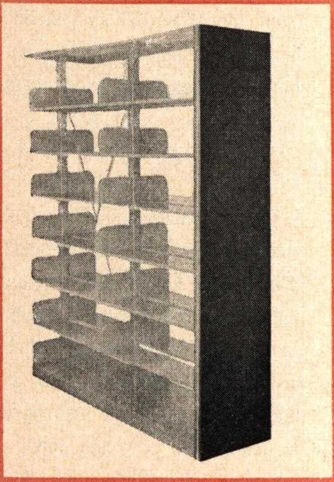
book trucks

Stock Nos. — BT-608, BT-610, BT-612



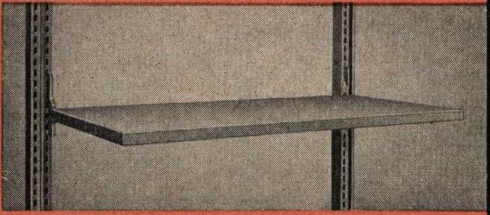
made of steel, they are designed for efficient, quiet operation. They are equipped with rubber-tired wheels and silent, friction-free ball bearings. Truck will accommodate bracket-type bookshelves.

closed end panels



provide an attractive and finished appearance for the stacks. Ends are available for both single- and double-faced stacks in all depths.

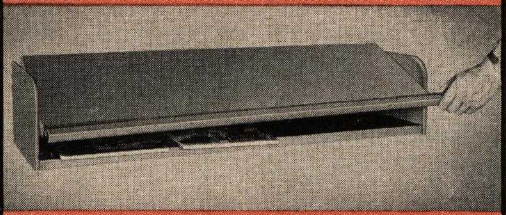
newspaper shelves



equipped with flush type supporting brackets, are 18" deep. Continuous shelving the length of a stack range is possible.

Stock No. NS-18

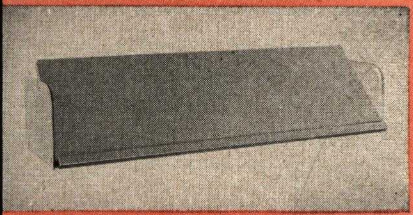
hinged periodical display shelf



permits full-view display. This shelf is pivoted so that when the front is lifted a storage space for back issues is exposed.

Stock No. HPS-12

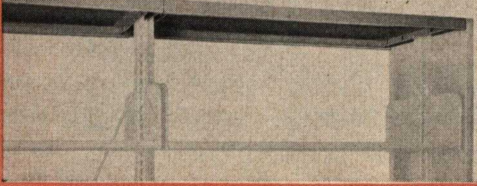
fixed periodical shelf



is also a sloping shelf for displaying periodicals. A flat shelf with flush brackets may be placed directly below this shelf to house back issues.

Stock No. FPS-12

top covers



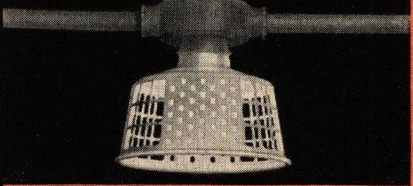
are available for both single- and double-faced stacks. They enhance the appearance of the stacks and provide protection from dust.

study carrels

are supported by stack columns. Edges of the linoleum tops have stainless steel binding.

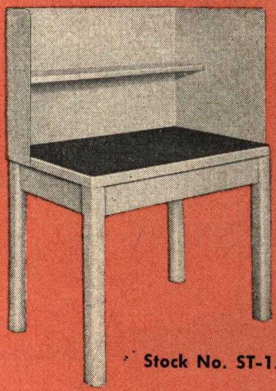
Stock No. SCD-36 without drawer
Stock No. SCDD-36-1 with drawer

aisle light reflector

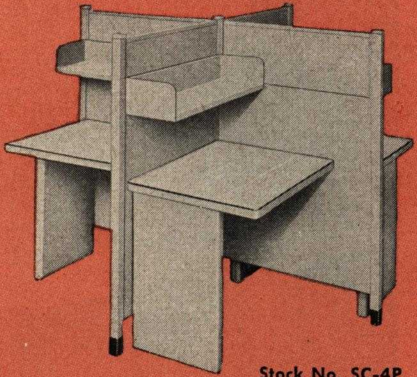


is scientifically designed especially for narrow aisle illumination. The heavy gauge, satin finish aluminum is punched to give uniform light distribution. Baffles facing the aisle axis shield against glare. Stock No. SALR-5203.

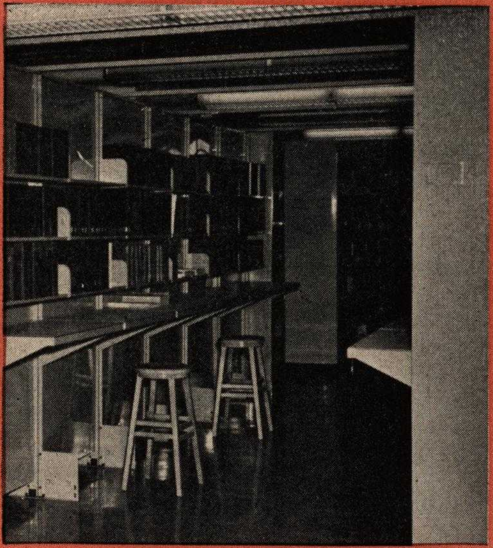
free-standing study carrels



Stock No. ST-1A

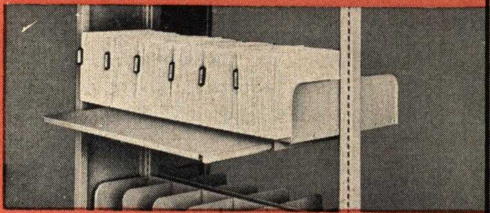


Stock No. SC-4P



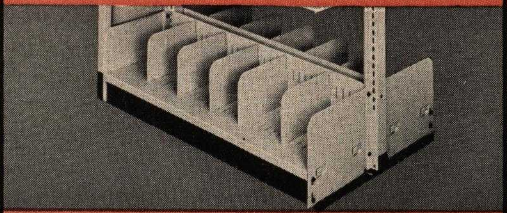
Globe-Wernicke has specially designed free-standing study carrels that provide the greatest degree of flexibility possible for library areas. Made up of standard components, these carrels may be assembled in a great number of arrangements to suit individual requirements. They may also be disassembled and then re-assembled into other combinations at any time when needs might change. Provision has been made for electrical wiring so that individual fluorescent lights, dictating machines or electrical calculators may be connected directly in outlets on the carrel. Free-standing table and "hook in" type carrels are also available.

sliding reference shelf



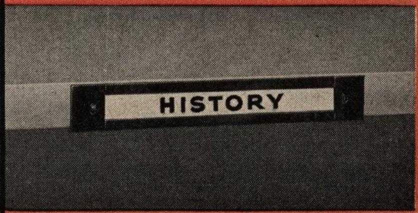
expedites easy reference. Used only with double faced sections without sway braces or back panels. Available for 10- and 12-inch shelves. Stock Nos. SRS-10; SRS-12

pamphlet filing



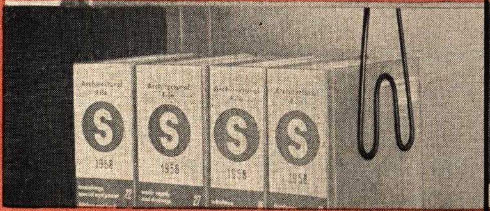
Pamphlet shelves offer the ideal solution for storage of pamphlets or folders. Vertical metal dividers engage in slots — easily adjustable and removable. Indexed guides are available for use with pamphlet filing shelves.

snap-on label holders



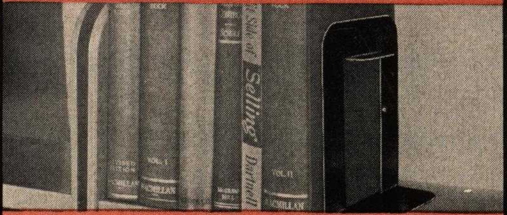
finished in black, snap easily into place on the front of the shelf.

wire book supports



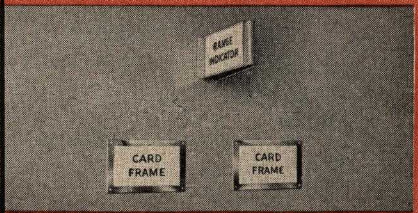
made of heavy gauge wire, engage in the shelf above, are readily removed or adjusted. Supports are available for 8-, 10-, or 12-inch shelf depths. Stock Nos. WS-8; WS-10; WS-12

plate book supports



so designed that they can not become lost between books. Available in two heights.
Stock No. BE-9 . . . 9″ high
Stock No. BE-1 . . . 5¼″ high

range indicators

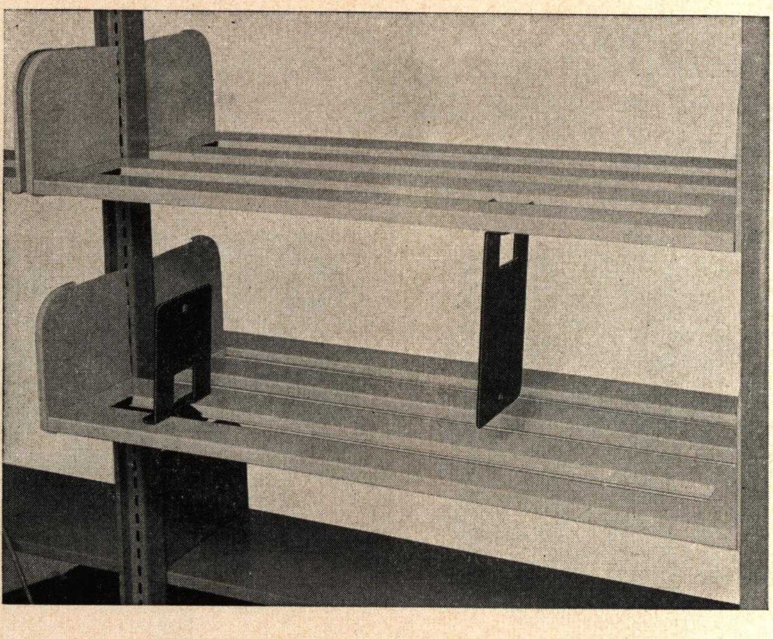


and card frames, for use on closed panel ends, accomodate 3″ x 5″ cards. Indicators may also be attached to end column.
Card Frame, No. CFH-35
Range Indicator, No. RI-6

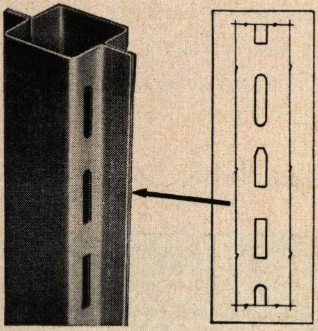
details and accessories

"trac-shelf" and support

"Trac-Shelf" is made from 18 gauge steel. Furnished with "one track" book support, 6″ high. Support can be hung, if desired, from shelf above. Holds firmly, locked in place. 9″ high "Trac" book support is available as optional extra.



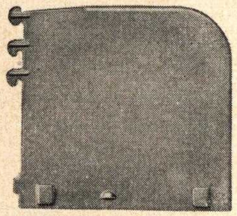
column construction — guided shelf adjustment



Book stack columns are constructed of heavy gauge steel of at least 16-gauge. Each free-standing column is made up of two half sections which are securely welded together to form an extremely strong and rigid member. Multi-tier columns vary in gauge and section according to the load which must be accommodated.

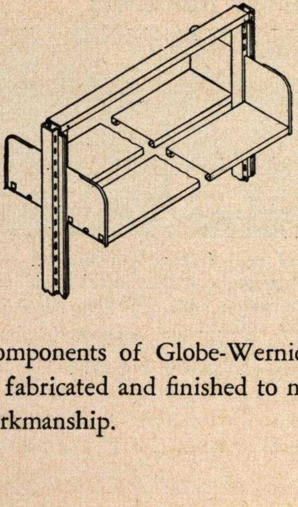
G/W Snead guided shelf adjustment solves the problem of levelling shelves when installing or moving them. Adjusting slots are of three different shapes; are so arranged that slots of any one shape are at the same level throughout the stack. This is a time- and labor-saver for the library staff.

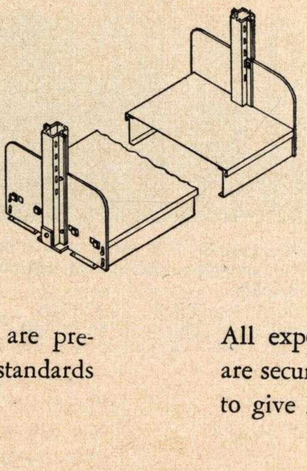
book shelf brackets

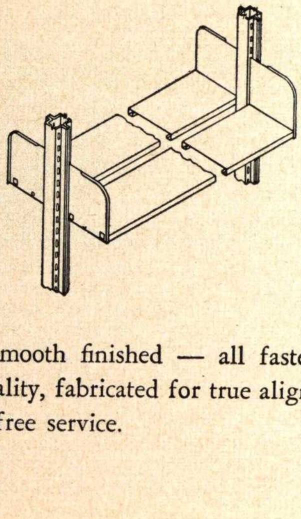


Shelf brackets are formed of heavy 16-gauge steel with all exposed edges smoothly rounded to prevent damage to books. These hooks, providing maximum support, are blistered so as to make a snug fit in column slots. A safety feature requires that the front of the shelf be lifted before the shelf can be removed from the stack.

shelf details





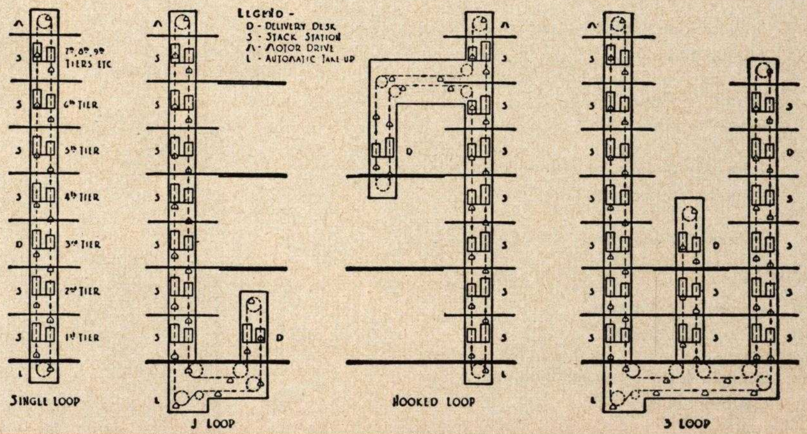


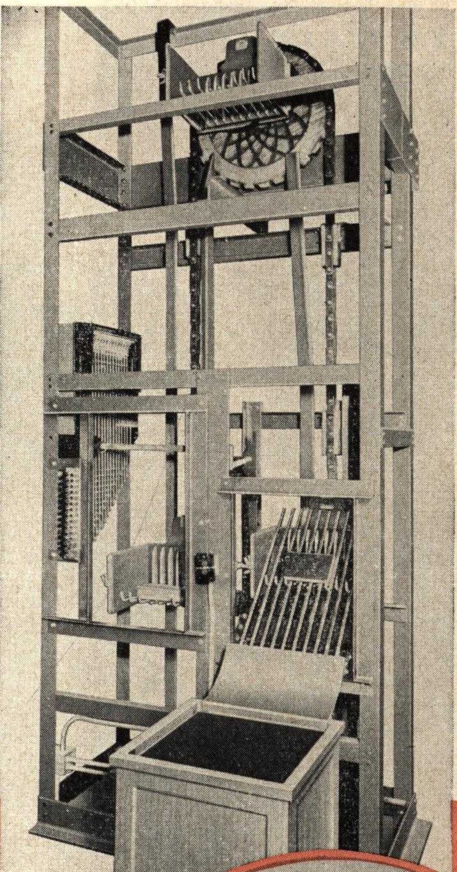
All components of Globe-Wernicke Bookshelves are precision fabricated and finished to meet the highest standards of workmanship.

All exposed edges are smooth finished — all fastenings are secure and of best quality, fabricated for true alignment to give lifetime, trouble-free service.

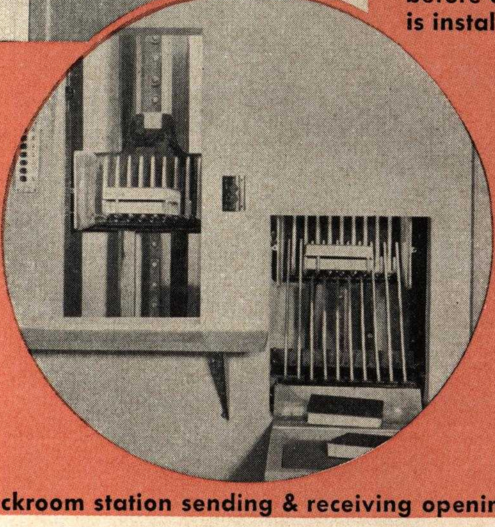
Globe-Wernicke (SNEAD) automatic conveyor

The Snead Conveyor is designed to serve the delivery desk or desks with the material needed from the book stacks. It also simultaneously takes material back again for reshelving. Such a conveyor is economical and efficient. The conveyor consists of an endless chain from which the carriers are suspended. The conveyor operates in one plane and runs both horizontally and vertically to serve as many stations as may be desired. Its use makes it possible to store books remotely from the delivery desk and still give quick, efficient and economical service. The necessity for the attendants to use stairs and elevators for getting books is eliminated. The saving of time is beneficial both to the staff and readers. The Snead conveyor has also been used with success and economy in office buildings for the distribution of mail and the inter-floor delivery of correspondence and files.

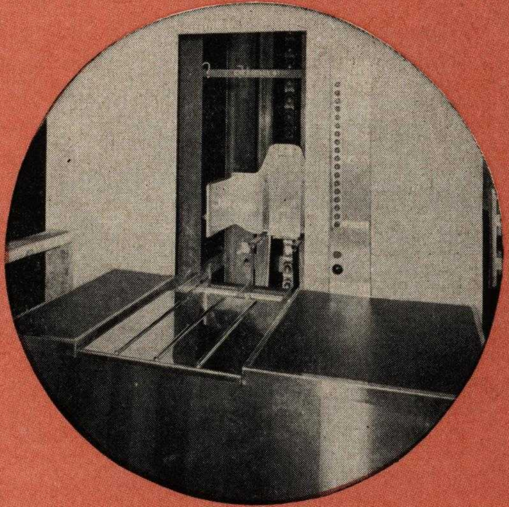




typical stackroom station before ornamental enclosure is installed.



stackroom station sending & receiving openings



SNEAD automatic loading device station

operation

To start the conveyor, the attendant merely has to push a button and the cars begin to move after a short pause and a warning buzzer. Pressing another button will stop the conveyor and there are emergency stops at each loading opening to prevent improperly loaded material from going through the shaft.

The conveyor operates at a speed of from 60 to 100 feet per minute continuously and by pressing one of a series of push-buttons, the material loaded on a car will be automatically discharged at the desired station. Safety devices are simple and effective.

Snead automatic loading device

First used in United Nations Secretariat Building is the new Snead Automatic Loading Device with the Snead Conveyor. (Illustrations and diagrams above.) Simple automatic loading and unloading operation. Operator places material in loading recess on a counter-top and pushes button for desired destination. First empty carrier to reach station automatically picks up material; carries it to desired station and unloads automatically. Material rests upon receiving slide until picked up. Light signals its arrival. When many loads are going to one station, repeat button is pushed, and operator feeds material into loading areas.

GLOBE-WERNICKE
steel book stacks
library equipment

installations

Virginia Polytechnic Institute
Blacksburg, Virginia

Florida State University
Tallahassee, Florida

University of Miami — Law Library
Coral Gables, Florida

Princeton Theological Seminary
Princeton, New Jersey

University of Illinois — Law Library
Urbana, Illinois

Antioch College
Yellow Springs, Ohio

University of Indiana — Law Library
Bloomington, Indiana

Indiana State Teachers College
Terre Haute, Indiana

Illinois State Library
Springfield, Illinois

Georgia Institute of Technology
Atlanta, Georgia

North Carolina State College
Raleigh, North Carolina

University of Notre Dame
Notre Dame, Indiana

University of Pittsburgh — Medical Library
Pittsburgh, Pennsylvania

Wayne University
Detroit, Michigan

University of Maryland
College Park, Maryland

University of Oklahoma
Norman, Oklahoma

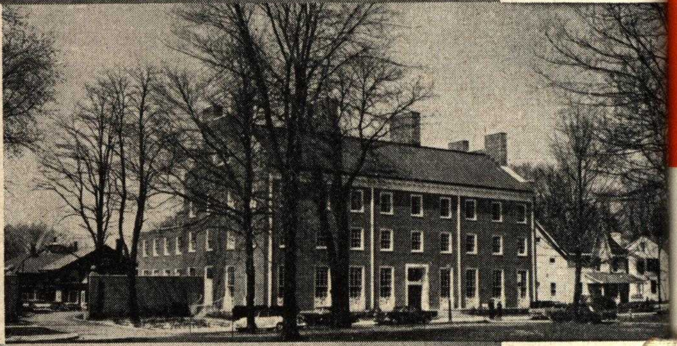
Louisiana State University
Baton Rouge, Louisiana

Texas Christian University
Fort Worth, Texas

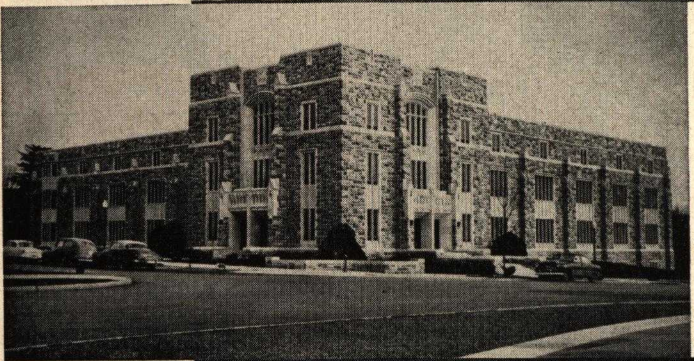
Ohio State University — Law Library
Columbus, Ohio

Wabash College
Crawfordsville, Indiana

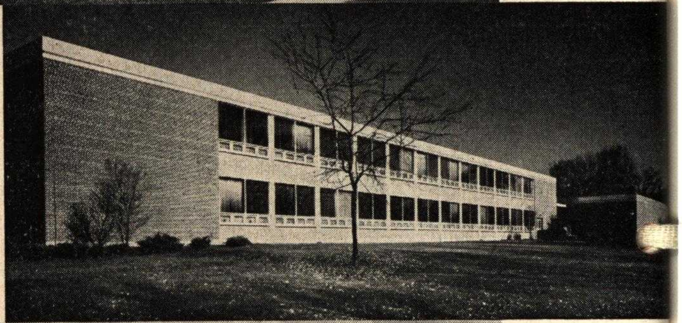
McKeldin Library
University of Maryland
College Park, Md.



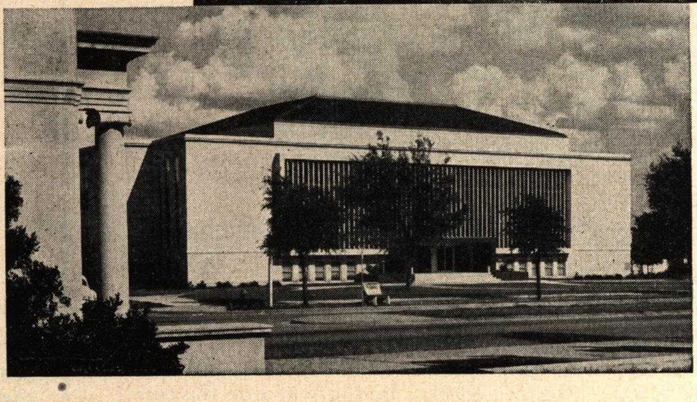
Library
Wabash College
Crawfordsville, Indiana



Carol M. Newman Library
Virginia Polytechnic Institute
Blacksburg, Virginia



Law Library
University of Illinois
Urbana-Champaign, Illinois



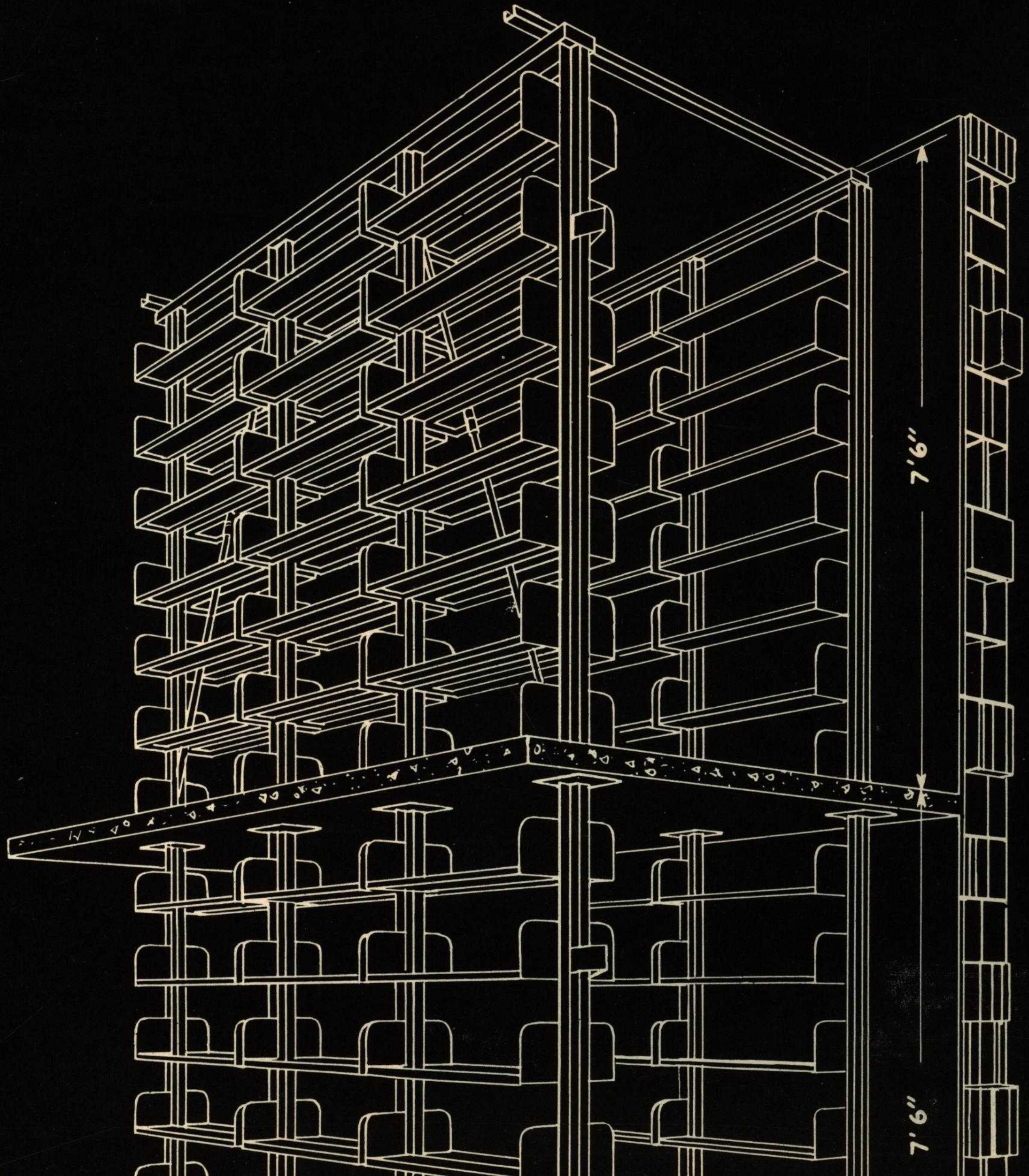
Mary Coots Burnett Library
Texas Christian University
Fort Worth, Texas

THE GLOBE-WERNICKE CO.
Cincinnati 12, Ohio

Remington Rand **Library Bureau**®
TRADEMARK

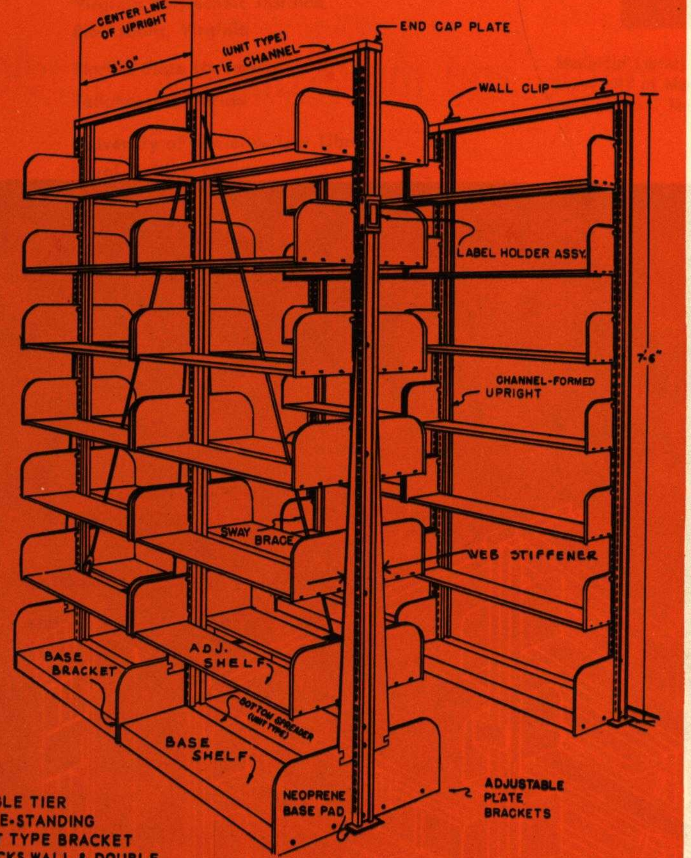
23f
Re

single and multi-tier bookstacks

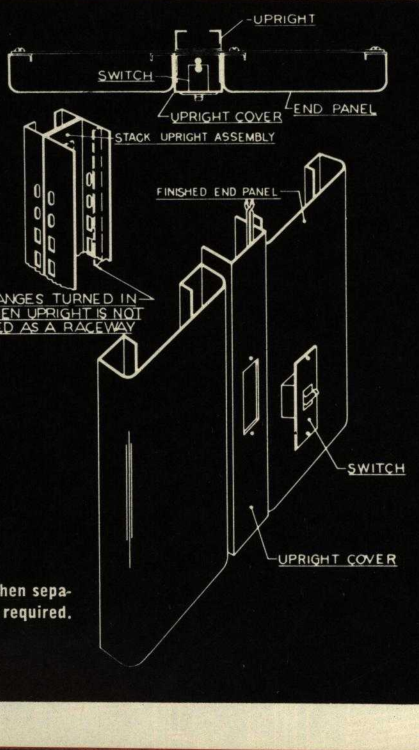


A. I. A. File No. 35-B

single tier STEEL BOOKSTACKS


CENTER LINE OF UPRIGHT
3'-0"
(UNIT TYPE) TIE CHANNEL
END CAP PLATE
WALL CLIP
LABEL HOLDER ASSY.
7'-6"
CHANNEL-FORMED UPRIGHT
SWAY BRACE
WEB STIFFENER
BASE BRACKET
ADJ. SHELF
BOTTOM SPREADER (UNIT TYPE)
BASE SHELF
NEOPRENE BASE PAD
ADJUSTABLE PLATE BRACKETS

SINGLE TIER FREE-STANDING UNIT TYPE BRACKET STACKS WALL & DOUBLE SECTIONS 8" SHELVES & 10" BASE


UPRIGHT
SWITCH
UPRIGHT COVER
END PANEL
STACK UPRIGHT ASSEMBLY
FINISHED END PANEL
FLANGES TURNED IN WHEN UPRIGHT IS NOT USED AS A RACEWAY
SWITCH
UPRIGHT COVER

Method of wiring finished end when separate control of aisle lights is required.

LIBRARY BUREAU bracket stack is a true unit type of stack, possessing exclusive advantages and improvements. Each section of this stack is an integral component, consisting of shelves, an upright, an individual tie channel and bottom spreader.

STEEL BRACKET STACK ADVANTAGES—Bracket stacks weigh less than other types; this reduction in weight saves on the cost of special construction to support the stacks as well as on the cost of transportation.

Bracket stack shelves are easily adjusted in height without removing the books from the shelf.

Bracket stacks are the only type of stacks where 8″, 10″ or 12″ shelves can be used interchangeably at any time, anywhere in the stacks, without disturbing the uprights or using any special tools. Canopy Tops and End Panels are available.

SPECIFICATIONS—Standard stack heights are 7′6″, 5′6″, and 3′6″. Shelves are 8″, 10″ or 12″ deep as ordered. Units are 3′ long on centers.

FINISH—Baked enamel colors of **Gray-Rite,** Gray Mist, Surf Green or Heather Beige are applied by electrostatic process assuring an even coating.

◀ Single-tier freestanding unit type wall and double section bracket stacks, 8″ shelves and 10″ base.

The fixed base bracket extends through the center of the upright from face to face of the range, providing a gusset to assure transverse stability. From the top of the base bracket to a point 55¼″ in height, there will be a tapered web reinforcement passing through the upright assuring a minimum radius of gyration.

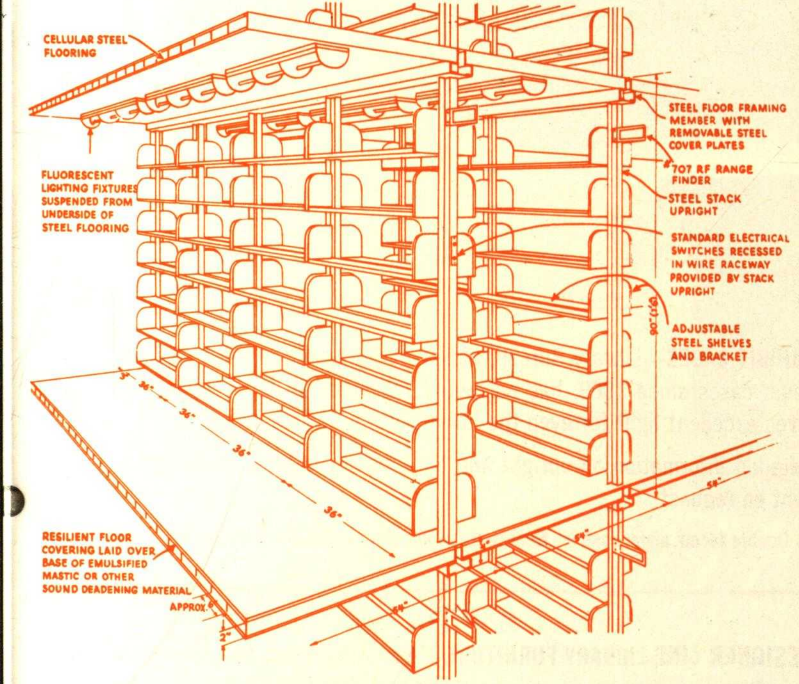
STACK WEIGHTS—Assuming that the ranges are spaced 4′6″ apart on centers, with only 3′ wide aisles, the weight per square foot of the gross area of the room for #75266D stacks, having shelves 8″ deep is 63½ pounds, which also includes the dead load of books.

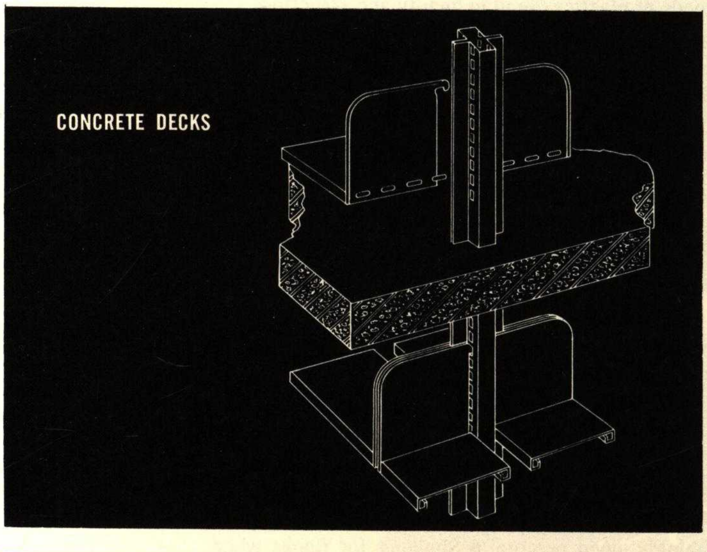
The live load, for persons in stack aisles, is 40 pounds per square foot of the gross area.

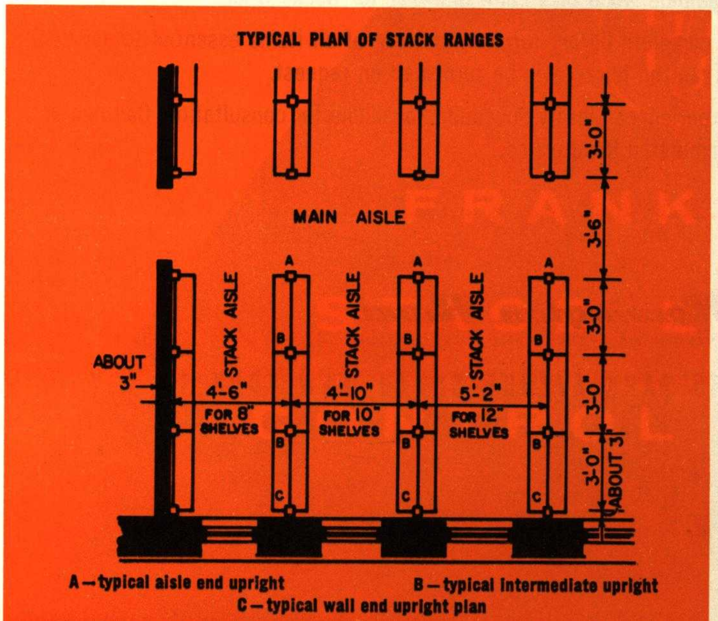
Single-tier double-faced bookstacks loaded with books have a concentrated load of 900 pounds at the base of an intermediate stack column, and 450 pounds at the base of an end stack column.

SHELVING DATA	**Vols. per foot of shelf**	**Depth of Shelf in inches**
Fiction	8	8
Economics	7	8
General Literature	7	8
Law	5	8
Medical	5	8-10
Public Documents	5	8
Reference	6	10
Technical	6	8-10-12
Scientific	6	8-10-12
Bound Periodicals	5	10-12

multi-tier STEEL BOOKSTACKS


CELLULAR STEEL FLOORING
FLUORESCENT LIGHTING FIXTURES SUSPENDED FROM UNDERSIDE OF STEEL FLOORING
STEEL FLOOR FRAMING MEMBER WITH REMOVABLE STEEL COVER PLATES
#707 RF RANGE FINDER
STEEL STACK UPRIGHT
STANDARD ELECTRICAL SWITCHES RECESSED IN WIRE RACEWAY PROVIDED BY STACK UPRIGHT
90" (7'6")
ADJUSTABLE STEEL SHELVES AND BRACKET
3"
36"
36"
36"
36"
54"
54"
54"
RESILIENT FLOOR COVERING LAID OVER BASE OF EMULSIFIED MASTIC OR OTHER SOUND DEADENING MATERIAL
APPROX. 6"
2"


CONCRETE DECKS


TYPICAL PLAN OF STACK RANGES
MAIN AISLE
STACK AISLE
STACK AISLE
STACK AISLE
ABOUT 3"
4'-6" FOR 8" SHELVES
4'-10" FOR 10" SHELVES
5'-2" FOR 12" SHELVES
A
B
C
3'-0"
3'-6"
3'-0"
3'-0"
3'-0"
ABOUT 3"

A—typical aisle end upright B—typical intermediate upright
C—typical wall end upright plan

Multi-tier Bookstacks with concrete or cellular steel decks are entirely self-supporting. They should be erected after the building walls are in place.

As far as possible, range lengths should be multiples of 3′ on centers of uprights. For depth of ranges across the ends allow 9¼″, 11¼″ and 13¼″ for wall stacks—16½″, 20½″ and 24½″ for double-faced stacks—for 8″, 10″ and 12″ depth shelves respectively.

Standard stack tiers are 7′6″ high, measuring from top to top of deck floors.

CELLULAR STEEL DECKS—Cellular Steel Decks are 2″ in thickness. This minimum thickness is important where headroom is to be gained and over-all height saved. They are especially advantageous for placing multi-tier stacks in existing buildings or where weight must be eliminated. Metal raceways conceal the wiring in a method approved by Underwriters' Laboratories Inc.

CONCRETE DECKS — Deck floors of reinforced concrete are 3½″ minimum thickness. All reinforcing electric conduits, etc., are concealed within the concrete and approved by the Underwriters' Laboratories, Inc.

For complete information, phone your nearest Remington Rand office or write to us.

◄

STACK WEIGHTS—Shelf load, including books, shelves, brackets, and uprights, averages 30 lbs. per cubic foot.

Floor loads, including weight of floor framing: Reinforced concrete floors (3½ in. thickness)—44 lbs. per square foot, gross area. Same with floor covering—47 lbs. per square foot, gross area. Cellular steel floors—12 lbs. per square foot, gross area.

For column loads, assume 60 lbs. per square foot of aisle area for live load, and reduce the figure 5% for each deck below the top deck.

The table of loads below is for **Library Bureau** 8 in. double-faced bracket stacks, spaced 4 ft. 6 in. apart on centers, and signifies total loads at the bases of the uprights for stacks (7 ft. 6 in. high, floor to floor) with a reduction of 5% for each floor from top down. Weights include bookstacks, books, floors (dead load) and live load.

TABLE OF LOADS

	Load on Column "A"		Load on Column "B"		Load on Column "C"	
No. of Tiers	**Reinf. Conc. Floor**	**Cell. Steel Floor**	**Reinf. Conc. Floor**	**Cell. Steel Floor**	**Reinf. Conc. Floor**	**Cell. Steel Floor**
1	450	450	900	900	450	450
2	2300	1900	3000	2600	1500	1300
3	4000	3200	5000	4200	2500	2100
4	5550	4300	6800	5600	3400	2800
5	7000	5300	8500	7000	4250	3500
6	8200	6100	10100	8200	5050	4100
7	9550	7000	11800	9400	5900	4700
8	10800	7800	13400	10700	6700	5350
9	12250	8900	15200	12100	7600	6050
10	13700	9900	16900	13400	8450	6700
11	15200	11000	18700	14800	9350	7400
12	16650	12000	20500	16200	10250	8100

Table is based on 8″ deep shelves & 7′6″ height to floor.

Library Bureau

manufacturers of library furniture and equipment—specialists since 1876.

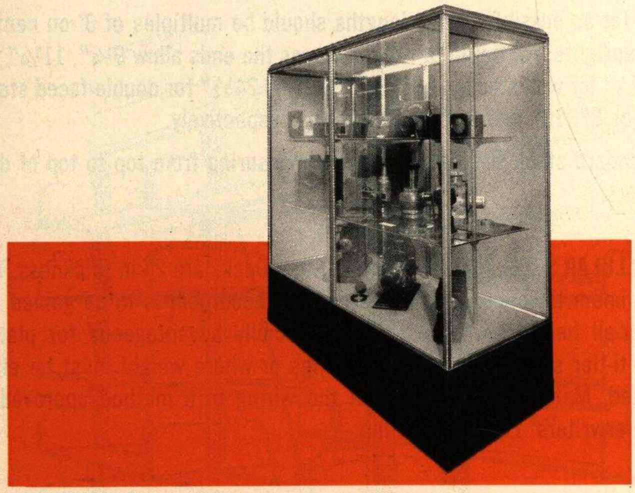


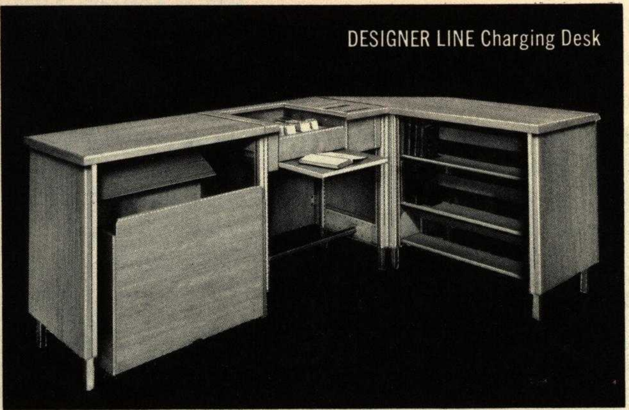
EXHIBIT CASES—Library Bureau, maker of top-quality exhibit and museum cases since 1909, has perfected a system of illumination that gives excellent light for even the lower portion of high cases.

Detailed information on upright and table cases, lighted or unlighted, sent on request.

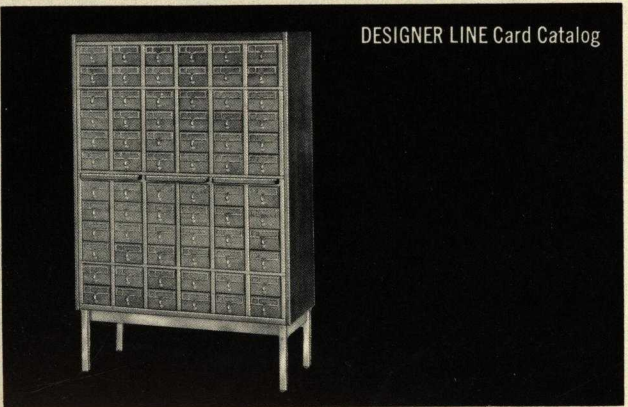
◀ Double-faced aisle case at George Eastman House Museum, Rochester, N.Y.

DESIGNER LINE Tables and Chairs

DESIGNER LINE LIBRARY FURNITURE—Here is furniture that expresses the ultimate in functional efficiency and tasteful styling. Warm natural woods or plastics blend in beauty and structural strength with lustrous, satin-finish aluminum.



DESIGNER LINE Charging Desk



DESIGNER LINE Card Catalog

OTHER LIBRARY FURNITURE. Study Carrels wood or steel ■ Shelving for Newspapers wood or steel ■ Charging Desks wood or steel ■ Filing Cabinets wood or steel ■ Shelving for Books wood.

A complete library furniture catalog of all items essential to any well organized library will be furnished on request.

Experienced Library Specialists available for consultation. Call nearest Remington Rand office.

Remington Rand
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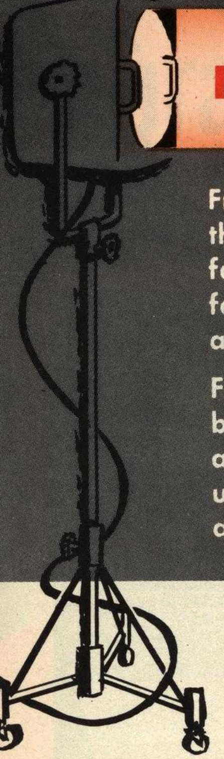
315 PARK AVENUE SOUTH, NEW YORK 10, N.Y.

LB741 Rev. 1

add to the color, life and beauty of theaters, school and college auditoriums, public buildings and other institutions

FRANK ADAM
STAGE LIGHTING
CONTROL SYSTEMS



MODERN STAGE LIGHTING CONTROL

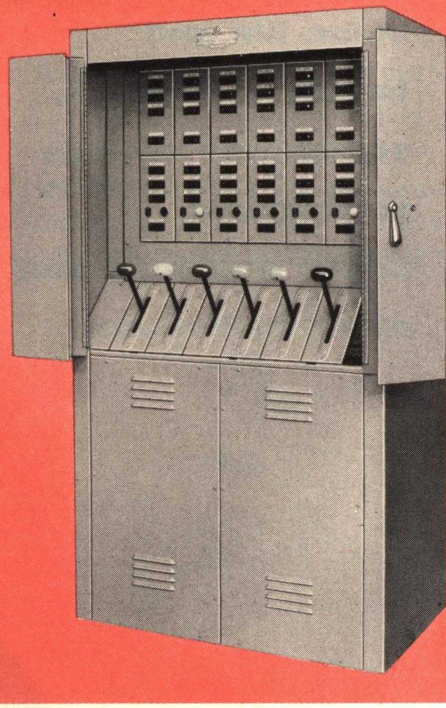
Frank Adam Electric Company is one of the country's oldest and foremost manufacturers of Stage Lighting Control Boards for schools, colleges, theaters, municipal auditoriums, and other institutions.

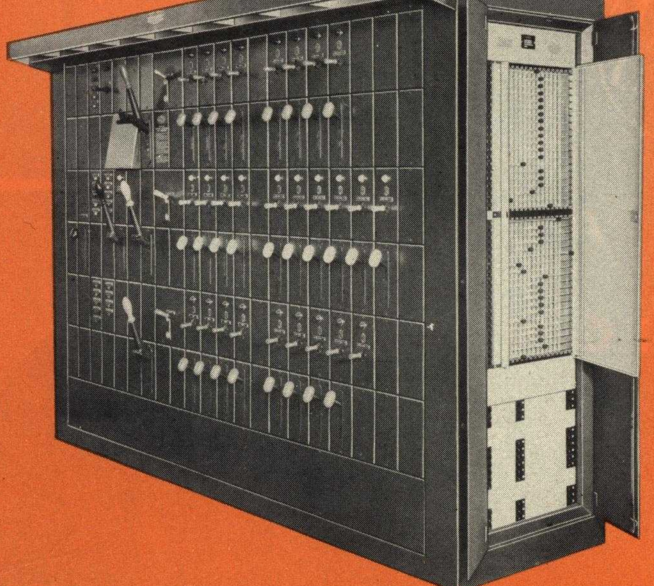
For more than 65 years this company has been producing lighting controls that have added substantially to the color, beauty, usefulness and enjoyment of all types of auditoriums - - small or large - - modern equipment that embodies all the latest features in design and construction.

Four basic types of stage control boards are manufactured by Frank Adam - - - manual control, modified pre-set remote control, multiple pre-set switching and dimming remote control, and mobile color lighting control. Dimmer Boards are of the auto-transformer and reactor types.

MANUAL DIMMING STAGEBOARD

Completely self-contained, this free-standing dimmer control board is ideal for small auditoriums. Dimmers are of auto-transformer type with each dimmer controlling all circuits of a color group. Circuit Breakers used in dimmer control provide overload protection and a means for disconnecting dimmers. Branch circuit breakers on each dimmer control may be used for circuit switching. Boards can be furnished with or without doors and with interlocking shaft for master control. Front-connected and completely accessible from the front, these boards can be placed against the wall, thereby requiring less space.





MANUAL SWITCHING AND DIMMING

Self-contained and free-standing. Dimmers are of the manual auto-transformer type and are readily accessible from the rear. Doors can be provided over the front and rear of board. Manual switching may be direct or set-up on group master control. Group master switches may be further set-up for stage master switching. Switches are of the silent operating type. Interlocking dimmers on group master shafts, which can be vertically interlocked for grand master control.

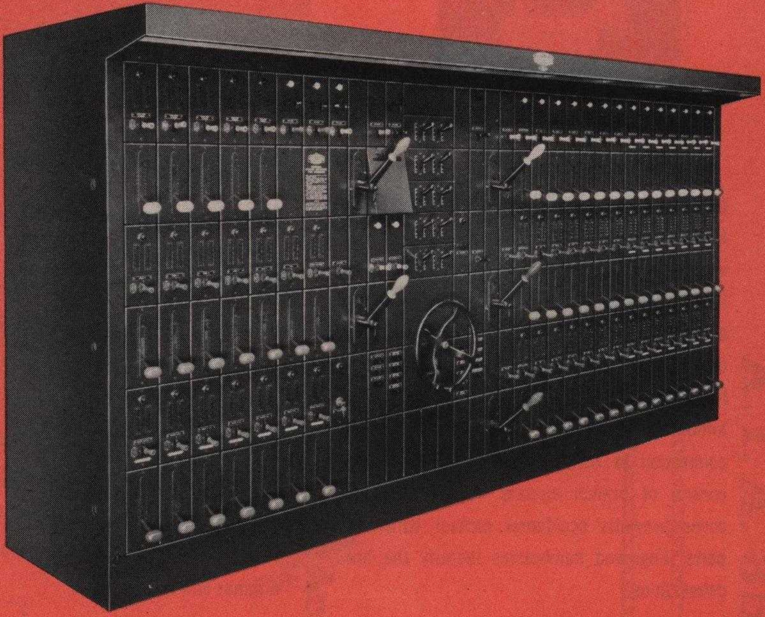
for theaters, schools and other auditoriums

Outstanding features of FA lighting control boards

- Unit construction of switching and dimming control units facilitating future expansion.
- Formed sheet steel construction.
- All switching and dimming components mounted on switchboard framing independent of cover plates.
- Dead front and rear — no live parts exposed.
- All internal wiring made at factory, terminating on conveniently located terminal strips.
- All control boards tailored to meet specific requirements.
- Specially designed dimmer operating lever handles, which indicate at a glance whether operating handle is in position for individual operation of dimmer or interlocked for group or master control.
- Specially designed slot closers, *completely* enclosing slot in dimmer control plate, through which dimmer handles operate.

REMOTE SWITCHING MANUAL DIMMING

Complete system includes stageboard and a remote board off stage. System is available with modified remote switching or full remote switching; the latter being available with multi-scene pre-selective switching. Also available with interlocking dimmers on a group master shaft which can be vertically interlocked for grand master control. Color master levers can be further interlocked on a slow motion wheel drive for operation of a large group of controls. Also for cross control, which means that certain groups of dimmers may be raised (brightened) simultaneously while other groups are lowered (dimmed). Dimmers are easily accessible from the rear of the board.

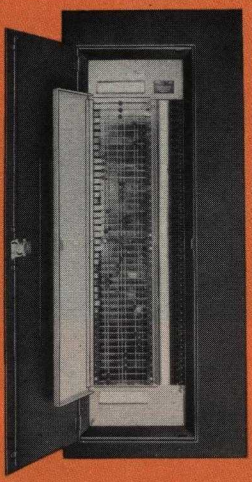


REMOTE SWITCHING and REMOTE DIMMING

Illustration shows a console pilot board for a remote switching and dimming system on which magnetic amplifier type dimmers were used. However, motor driven or auto-transformer types are also available. Advantages of system include pre-set dimming and switching for an unlimited number of scenes. Also permits proportional dimming, scene to scene fading at any desired speed and super-imposing of one scene on another. Miniature low voltage intensity selectors provide accurate intensity control plus smooth operation. Because they are miniature, the pilot board requires a minimum of space. Also enables location of dimming equipment off stage, and if desired, can be divided and located at two separate places. Dimming control may be extended to one or more stations or an additional pilot board.

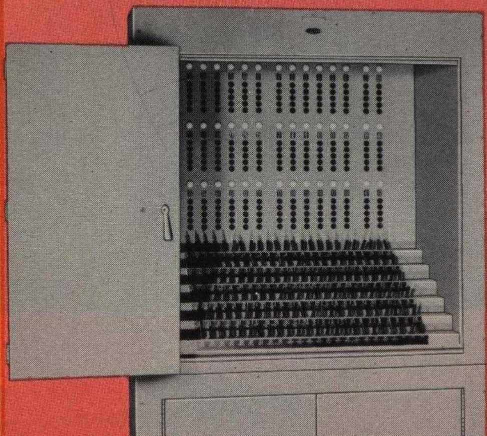
CROSS CONNECTION PANELS

Increase use and flexibility of ANY stageboard. Stage lighting circuits are arranged to be selectively connected either individually or in groups and at any time re-connected to control units either dimmed or undimmed, thus permitting a maximum of lighting circuits to be used with a given number of dimmers. Several types of cross connection panels are available. These panels can be built as an integral part of the stageboard or mounted separately away from the stageboard.



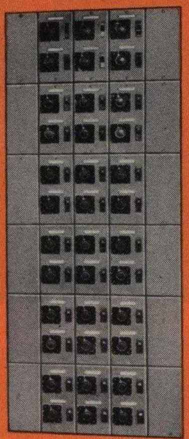
SLIDING PLUG AND BAR TYPE

Consist of horizontal bus bars connected to the branch circuits through a circuit breaker providing overload protection and switching control along with vertical bars connected to the dimmer control unit on switchboard or to an undimmed control unit. Slider plugs on the horizontal bars are furnished with insulated knobs which provide means for tightening connection to vertical bars permitting group control of branch circuits. A slotted lucite cover prevents accidental contact with live parts. Engraved nameplates identify the bus connections.



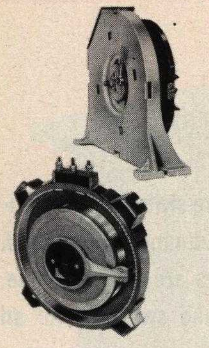
PLUG AND JACK TYPE

Consist of retractable cords and plugs for branch circuit connections and plugin jacks for dimmed or undimmed control units. The cords and plugs are connected to the branch circuits through circuit breakers, providing overload protection and switching control. The jacks are connected in groups of two or more to the dimmed or undimmed control units. Two or more cords and plugs can be plugged onto the control unit jacks for group control of branch circuits. Lights can be provided to indicate when plugin jacks are energized. Engraved nameplates identify dimmer and load circuits.



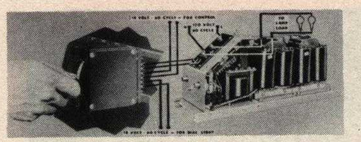
ROTARY SELECTOR SWITCH TYPE

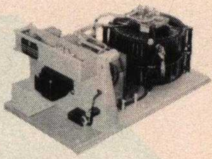
Cross connecting panels consist of heavy duty rotary selector switches, of the load break type operable under load. These rotary-selector switches can be furnished to provide from 2 to 12 positions. Each branch circuit is provided with its individual rotary selector switch connected through a circuit breaker to provide overload protection and switching control. The selector position contacts are connected to the dimmed or undimmed control unit. Engraved nameplates identify the positions on the selector switches and the branch circuit connections.



AUTO-TRANSFORMER DIMMER

This is the most popular type. Consists of an insulated copper conductor wound around a circular core of laminated transformer iron. Sliding contact is made with the winding to permit contact with each turn of the winding, resulting in flickerless dimming. Any load from a few watts to the full rated capacity of the dimmer can be controlled. Loads can be added to or taken from dimmers without affecting dimming characteristics. These dimmers are available in capacities of 2500, 6000, 6600, and 8000 watts and are adaptable for manual or motor-driven control.





MAGNETIC AMPLIFIER DIMMER

This dimmer consists of static core and coil transformers and reactors; dry disc rectifiers and resistors. There are no electronic tubes, no relays or moving parts. Speed of response is practically instantaneous. The dimmer is controlled by small indicating controllers. The load range for incandescent lamp loads is 30-1 ratio.

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FRANK ADAM ELECTRIC COMPANY

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safety switches • load centers • Quikheter

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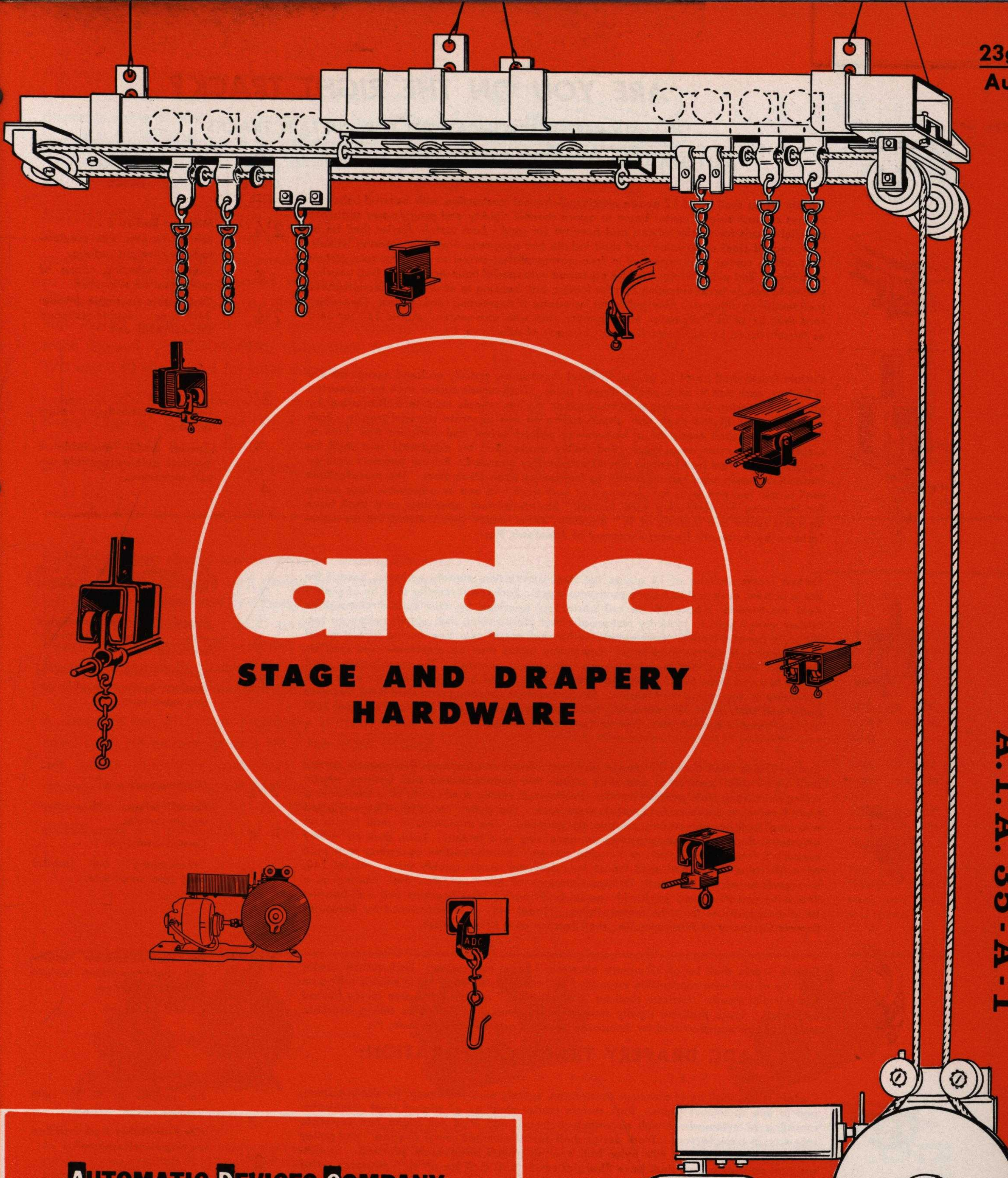

adc

STAGE AND DRAPERY HARDWARE

A.I.A. 35-A-1

AUTOMATIC DEVICES COMPANY
adc DRAPERY TRACK CORPORATION
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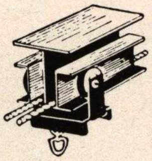
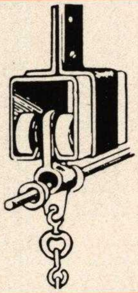
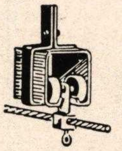
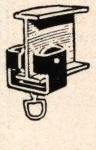
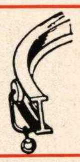
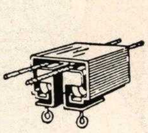
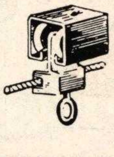
ALLENTOWN, PENNSYLVANIA

. . . setting the stage since 1919

ARE YOU ON THE RIGHT TRACK?

SUGGESTED SPECIFICATIONS FOR CURTAIN TRACKS

TRACK AND CARRIER ASSEMBLY	AUTOMATIC DEVICES COMPANY:	APP. TRACK SHAPE SIZE	SELECTOR GUIDE
	**CURVIT-SURE Model 350 (or 340) Curtain Tracks** Curtain Tracks shall be of 12 gauge aluminum I-channel construction, with inverted L-shaped flanges on each side of center beam to assure channel rigidity and provide two separate parallel treads for carrier wheels and runways for cord. Each curtain carrier shall be of nylon-coated steel construction and shall include two neoprene-tired ball bearing wheels. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. End pulley blocks shall be equipped with special noise-proof fibre ball bearing wheels to include brass retaining ring for locking ball bearing to wheel. The manufacturer shall furnish an adjustable floor pulley for increasing or decreasing cord tension. Operating cord shall be of ¼″ diameter, extra quality yarn with wire-center. Model 350 (or 340) as manufactured by Automatic Devices Company of Allentown, Pa.	2¼″ x 2¼″	Minimum Radius: 6′. For all lengths with medium-to-heavy weight curtains. Sketches reflecting radius of curve must be submitted. Obtainable as single (Model 340) or double-sectioned (Model 350) unit.
	**SILENT-STEEL Model 280 Curtain Tracks** Curtain Tracks shall be of 14 gauge full steel construction, entirely enclosed except for slot in bottom, each half to be in one continuous piece. Each curtain carrier shall be supported on a ball-bearing by two special composition rubber wheels held to ball-bearing by rustproof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel and sufficient trim chain to accommodate curtain snap hook. End pulley blocks shall be adjustable and shall be equipped with steel ball-bearing wheels adequately guarded. Rubber bumpers shall be inserted between each curtain carrier to function as noise eliminators. The manufacturer shall furnish two end stops for placement at each track end and an adjustable floor pulley for increasing or decreasing cord tension. Stretch-resistant operating cord shall have fiberglas center and shall be of ⅜″ diameter, extra quality yarn. Model 280 as manufactured by Automatic Devices Company of Allentown, Pa.	3″ x 3″	For all lengths with any weight curtains. Special models available to produce quietest possible curtain movement.
	**BESTEEL Model 170 (or FENESTEEL 260) Curtain Tracks** Curtain Tracks shall be of 14 gauge full steel construction, entirely enclosed, except for slot in bottom, each half to be one continuous piece. Each curtain carrier shall be of plated steel construction, supported on self-lubricating bearings by two special composition rubber wheels held to block by rust-proof nickel plated rivet, such wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. End pulley blocks shall be adjustable and shall be equipped with steel ball bearing wheels adequately guarded. The manufacturer shall furnish two end stops for placement at each track end and an adjustable floor pulley for increasing or decreasing cord tension. Stretch-resistant operating cord shall have fiberglas center and shall be of ¼″ diameter, extra quality yarn. Model 170 (or Fenesteel 260) as manufactured by Automatic Devices Company of Allentown, Pa.	2″ x 2″	For lengths up to 36′ with light and medium weight curtains. Model 170 double-sectioned unit; Model 260 single-sectioned unit. Special models available to produce quietest possible curtain movement.
	**RIG-I-FLEX Model 140 Curtain Tracks** Curtain Tracks shall be of 11 gauge aluminum I-Beam construction. Each curtain carrier shall be of steel construction and shall include two neoprene-tired ball bearing wheels rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. End pulley blocks shall be equipped with steel ball-bearing wheels adequately guarded. The manufacturer shall furnish an adjustable floor pulley for increasing or decreasing cord tension. Track shall be rigidly supported from ceiling clamps or hanging clamps. Stretch-resistant operating cord shall have fiberglas center and shall be of ¼″ diameter, extra quality yarn. Model 140, as manufactured by Automatic Devices Company of Allentown, Pa., shall function as a "bend-it-yourself" curved track with special ball-bearing idler brackets and ball-bearing spindles obtainable from the manufacturer. Model 141, as manufactured by Automatic Devices Company of Allentown, Pa., shall function as a straight track.	2½″ x 1″	Minimum radius: 6″. For all lengths with medium-weight curtains. Curved on-the-job. "Walk-along" unit (Model 142) also available.
	**FLEX-I-TRAC Model 130 Curtain Tracks** Curtain Tracks shall be of 13 gauge aluminum I-Beam construction. Each curtain carrier shall be of stiff wire construction supported on two self-lubricating nylon wheels rolling on two parallel treads. Curtains shall be "walked along" and shall traverse curves formed on-the-job. Track shall be rigidly supported from hanging clamps or ceiling brackets. Model 130 as manufactured by Automatic Devices Company of Allentown, Pa.	1½″ x ¾″	For short-to-medium lengths with light-to-medium weight cyclorama curtains. Curved on-the-job.
	**ADC DRAPERY TRACK CORPORATION:** **TRAK-EZE Model 210 Drapery Tracks** Curtain Tracks shall be of aluminum construction, entirely enclosed except for slot in bottom, and in one continuous piece. Each curtain carrier shall be of plated steel construction consisting of nylon wheel with polyethylene tread, and shall roll along two separate raceways in a single track. Track design shall permit unlimited center overlap. End pulley blocks shall be equipped with nylon ball bearing wheels adequately guarded. Stretch-resistant operating cord shall have fiberglas center and shall be of 3/16″ diameter, extra quality yarn. All moving parts shall be concealed inside the track. Model 210 as manufactured by ADC Drapery Track Corporation of Allentown, Pa.	1½″ x 2″	For lengths up to 30′ with medium-weight curtains. Cord-concealed track installed as single-sectioned unit.
	**SPANOTRAC Model 104 (or 105) Drapery Tracks** Curtain Tracks shall be of aluminum construction, entirely enclosed, except for slot in bottom, and in one continuous piece. Each curtain carrier shall be of plated steel construction supported on self-lubricating bearings by two special composition rubber wheels, rolling on two separate parallel treads. Each curtain carrier shall consist of a free-moving plated swivel to accommodate curtain snap hook. End pulley blocks shall be adjustable and shall be equipped with nylon wheels adequately guarded. The manufacturer shall furnish a floor pulley for hand operation. Stretch-resistant operating cord shall have fiberglas center and shall be of ⅛″ diameter, extra quality yarn. Model 104 (or 105) as manufactured by ADC Drapery Track Corporation of Allentown, Pa.	1″ x 1″	For lengths up to 20′ with light-to-medium weight curtains. Obtainable as single (Model 104) or double-sectioned (Model 105) unit.

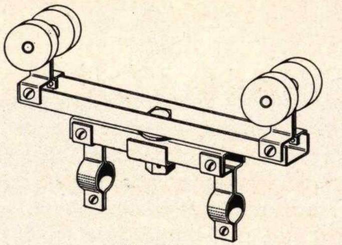
FOR INFORMATION ON HOSPITAL CUBICLE TRACKS AND FOR COMPLETE DETAILS AND ILLUSTRATIONS ON ALL ADC PRODUCTS WRITE FOR OUR NEW TWO-COLOR CATALOG AND OTHER DESCRIPTIVE LITERATURE.

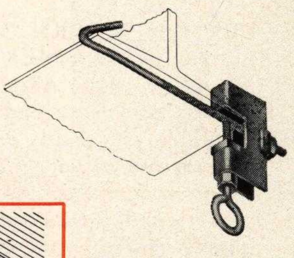
STAGE HARDWARE

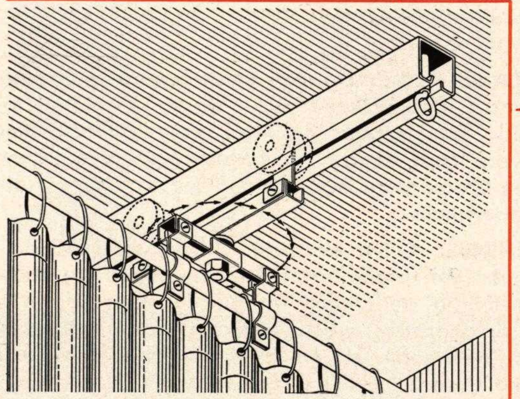
The smooth and effortless performance of stage curtains is of utmost importance in bringing out the full dramatic value of a stage presentation. In addition to curtain tracks ADC has a diversified line of stage hardware accessories to assure maximum effectiveness of the staging.

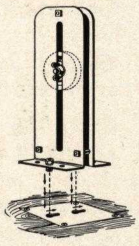
ROTODRAPER pivotal fixtures are used for changing the position of curtains. They are easily manipulated to any degree turn and yet provide sufficient tension so that curtain stays anchored in desired position. Carriers are composed of large diameter high strength, high impact plastic wheels which prevent climbing in track channel. ROTODRAPERS obtainable for 280, 170 and 140 tracks and for pipe suspension.

Other ADC Stage Hardware include Adjustable Beam Clamps, Detachable Floor Blocks (see p-4), Clews (see p-4), Spring Snaps, Oval Pipe, S-Hooks, Jack Chain, Eye Bolts, Turnbuckles, etc.


Rotodraper


Adjustable
Beam Clamp


Rotodraper Method of Attachment


Detachable
Floor Block

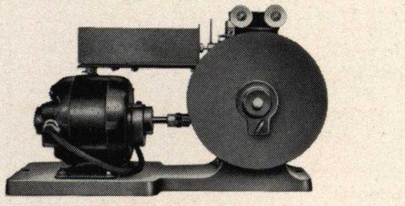
CURTAIN MACHINES

Only automatic control operation can accomplish a smooth, uniform opening and closing of a curtain—at just the right moment and at a constant speed—by the mere flip of a switch. ADC curtain machines are designed to provide all essential curtain movements by remote pushbutton control in a manner surprisingly simple to install and unusually reliable in operation.

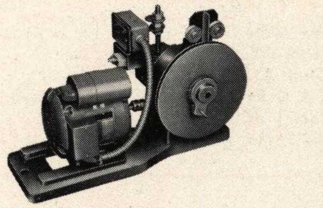
A complete line of curtain machinery is obtainable—from 1/35 HP motors up to 5 HP. The TOM THUMB line offers diminutive controllers for opening and closing draperies in homes, offices, funeral homes, etc. while AUTODRAPE, SILVER SERVICE AND HERCULES units are designed for stage spans.

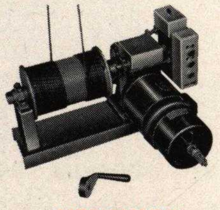
FOR COMPLETE DETAILS AND SUGGESTED SPECIFICATIONS FOR EACH MACHINE WRITE FOR OUR NEW TWO-COLOR CATALOG AND OTHER DESCRIPTIVE LITERATURE.

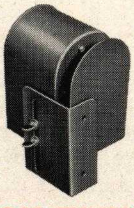
SELECTOR GUIDE	Recommendations
HERCULES models in 650 and 700 Series have ¾ and 1 HP motors, respectively, 60 cycles, 230 volts, 3 phase (available in other voltages, cycles or currents).	With all ADC tracks of any length.
SILVER SERVICE models in 290 Series have ½ HP motor, 60 cycles, 230 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 80 ft.
AUTODRAPE models in 93 Series have ¼ HP motor, 60 cycles, 115 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 36 ft.
AUTODRAPE models in 145 Series have ⅓ HP motor, 60 cycles, 115 volts, single phase (available in other voltages, cycles or currents).	With all ADC tracks up to 50 ft.
TOM THUMB models have 1/35, 1/12 or 1/6 HP motor, 60 cycles, 115 volts, single phase. Machines available for automatic or non-automatic operations; instantly reversible at any point along travel.	With Spanotrac, Trak-Eze, Fenesteel, and Besteel tracks.

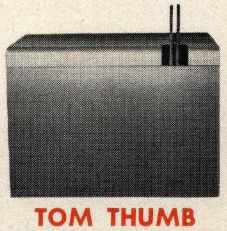

AUTODRAPE
Standard Model 93
¼ HP motor for drawing medium-weight stage curtains. Also available in ⅓ and ½ HP models. App. 20″ x 10″ x 14″.

AUTODRAPE
Three Button Stop, Start, Reverse Model 1455
⅓ HP motor for drawing medium-to-heavy-weight stage curtains. Also available in ¼, ½ and ¾ HP models. App. 21″ x 18″ x 13″.

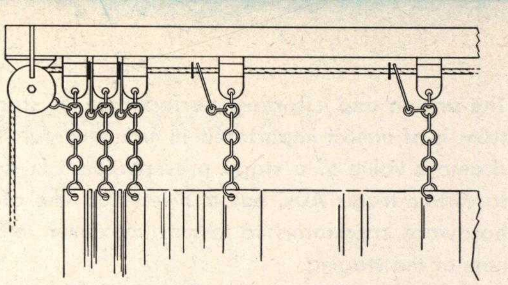

SILVER SERVICE
Standard Stop, Start, Reverse Model 2911
½ HP motor for drawing heavy-weight stage curtains. Also available in ¼, ⅓ and ½ HP models. App. 22″ x 12″ x 11″.


HERCULES
Lift-Brake Model 6507
¾ HP motor for lifting heavy-weight stage curtains. Also available in ½ and 1 HP models. App. 25″ x 25″ x 20″.


TOM THUMB
Non-Automatic Stop, Start, Reverse Model 67
1/35 HP motor for drawing light-weight commercial and residential draperies. Also available in 1/6 HP model. App. 5″ x 6″ x 7″.


TOM THUMB
Standard Stop, Start, Reverse Model 1001
1/6 HP motor for drawing light-to-medium commercial and residential draperies. Also available in 1/35 and 1/12 HP models. App. 12″ x 8″ x 9″ (incl. Casing).

THER PRODUCTS

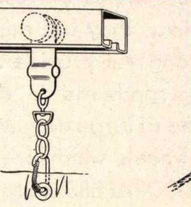


Back-Pack effect with Model 280 track

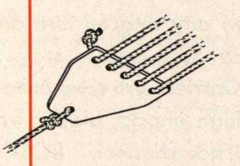
CURTAIN TRACKS: Many distinctive track accessories are manufactured by ADC. BACK-PACK Guides, for example, enhance the presentation through a unique effect which prevents the curtain from accumulating in gathers until track ends are reached. Ball-bearing-wheeled carriers are available with nearly every ADC track as optional equipment. Most end sheaves are of underhanging type and are anchorable to any position under track without drilling. SPACE SAVERS can be used in place of carriers and reduce curtain stacking area. Operating cord is of finest quality available anywhere.

STAGE HARDWARE: Detachable floor blocks (see p-3) are useful when track is to be "flyed." Beam clamps (see p-3) are connected to I-beams for support of track. Spring snaps are more versatile than ordinary snap hooks for attaching track carriers to curtain grommets. Clews are a means of grouping two or more lines into one line for appropriate manual or electric lifting operations.

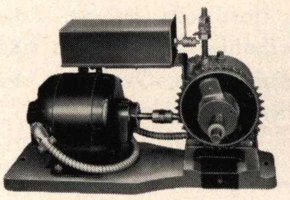
CURTAIN MACHINES: Other electrical ADC products include machines equipped with chain and sprockets to assure positive drive; track-mounted (Flying) units; Multi-Stop mechanisms with pre-set intermediate stops; and sliding chalkboard operators which motivate horizontal and vertical chalkboards. Also obtainable are electric timers which operate as alarm clocks to open and close draperies at pre-set times as well as key switches which keep machinery under lock and key to prevent mishandling when not being used.



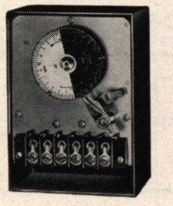
Spring Snap



Clew



Sprocket Drive Machine
(App. 20" L x 10" W x 14" H)



Timer
(App. 5" W x 8" H x 4½" D)

SOME OF OUR MOST CELEBRATED CUSTOMERS

Colleges & Universities

U. S. Military Academy
U. S. Naval Academy
U. S. Air Force Academy
Harvard University
Yale University
Princeton University
Lehigh University
Vassar College
Notre Dame University
University of California
Baylor University
Duke University

Schools (Public & Parochial)

New York City
Chicago
Los Angeles
and in most other communities

Public Buildings

The White House
Federal Bureau of Investigation
Offutt A. F. Base, Omaha
C & G Staff College, Ft. Leavenworth
Library of Congress
The Pentagon

Theatres

Radio City Music Hall
Loew's State, New York City
State-Lake, Chicago
Pantages, Hollywood
Bucks County Playhouse
Golden Gate, San Francisco
Metropolitan Opera House

Television Studios

NBC-TV, Los Angeles
CBS-TV, Chicago
ABC-TV, New York City
WDSU-TV, New Orleans
CBST-TV, Montreal
KRON-TV, San Francisco

Churches

LDS Mormon Temple, Salt Lake City
Riverside, New York City
The Temple, Cleveland
Buddha's Universal, San Francisco
Washington Cathedral

Hospitals

Institute of Living, Hartford
Tripler General Hospital, Honolulu
Jewish General Hospital, Montreal
Walter Reed, Washington

Hotels

Waldorf-Astoria
Conrad Hilton
Fontainebleau
Star Dust, Las Vegas
Riviera, Havana
Fairmont, San Francisco
Queen Elizabeth, Montreal
Brown Palace, Denver

Clubs and Civic Centers

Bohemian Club, San Francisco
Ford Memorial Auditorium, Detroit
Dallas Memorial Auditorium
Miami Beach Exhibition Hall
The Forum, Montreal
Museum of Natural History, NYC

Night Clubs

Chez Paree, Chicago
Latin Quarter, New York City
Ciro's, Los Angeles

Ships

U.S.S. United States
S.S. Brasil

and in Business, Industry, Funeral Homes, Exhibits, and Residences everywhere

Send us your problem. Our experienced engineers will be pleased to study your sketches or layouts for checking of dimensions and for making necessary recommendations on proper types of equipment. You assume no obligation in taking advantage of this service. Samples of ADC tracks are obtainable upon request at no charge as is our new, two-color catalog and other descriptive literature. Reference A.I.A. File Nos. 35-A-1, 35K and 27-C.

adc
stage and drapery hardware
Automatic Devices Company
ADC Drapery Track Corporation

OUR CREDO

Since 1919 the name "ADC" has been synonymous with quality products, smooth and efficient operation, and prompt and courteous service. Each job is custom-made and is therefore given individual attention. Our products are sold only through dealers and we are proud to be associated with this closely-knit family. Their continuing loyalty to "ADC" is probably the biggest single reason why we today enjoy the position of being the nation's leading manufacturer of stage and drapery hardware.

we support the most celebrated curtains in the world

ADC FORM 355 7-59 30M
PRINTED IN U.S.A.

A.I.A. No. 35-A

23g
CL

PORTABLE CONSOLE
for push button scene shifting

stage equipment

unseen essentials produce the wanted results

Mershen Auditorium
Ohio State University
Columbus, Ohio
Architect: Bellman, Gillet & Richards
Equipment Contractor: Janson Industries
Canton, Ohio

J. R. CLANCY, Inc.

1010 West Belden Avenue
Syracuse, New York

A.I.A. No. 35-A

stages... design service and equipment

When designing a new stage or remodeling an old one, theatre executives, architects and contractors should consider the latest developments in stage design and equipment; they should have a complete advance plan with blueprints that show in every detail the entire layout of the stage, detailed architectural specifications, a full record of all required equipment and supplies, and the approximate costs of all items.

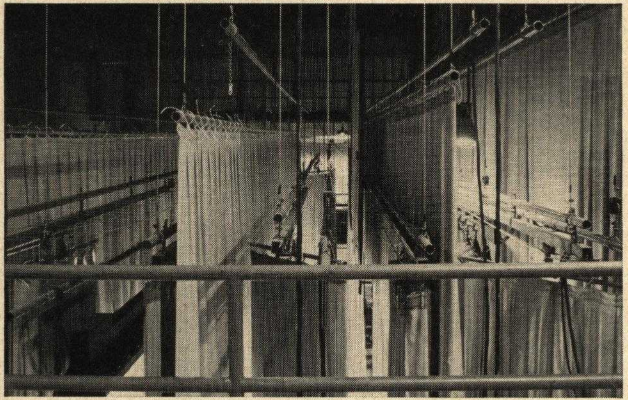
It is always preferable, in new construction, that matters pertaining to the stage be considered even before the steel is detailed for the building. Clancy engineers, frequently, have been able to suggest modifications which have provided a better working stage layout, oftentimes at no greater cost. Clancy suggestions, made early enough, have saved large sums in changes which eventually would have been imperative to a smooth and satisfactory operating stage.

Clancy's SceneControl represents the first practical use of modern technology in handling scenery. The result of 75 years of J. R. Clancy research and experience, SceneControl makes the back stage area safer, cleaner and more efficient for the artist and technician. See description on page 3.

complete planning service available

The Clancy Engineering Department, because of its long experience, can and will furnish such a plan. A Clancy plan will show a stage laid out in keeping with your requirements, and including all other data required. Such a stage, when planned by Clancy Engineers, will guarantee the most complete, modern and practical stage at the lowest possible cost. It will be a stage that is not only low in first cost but also most economical in operating and maintenance cost.

custom-built equipment



Linton High School, Schenectady, New York (a Progressive Architecture Award-winning school)
architects: Perkins & Will, Chicago, Illinois
stage equipment contractor: J. R. Clancy, Inc.

J. R. Clancy, Inc. is able to design and fabricate custom-built equipment to fit the needs of any job. This arrangement was custom designed by the architect so that the operator of the sets could face the rigging. This arrangement is particularly good for high schools because the set operator is almost always inexperienced and seeing the rigging gives him confidence.

This job also involved unusually large head blocks and a trip-type asbestos curtain.

based on your requirements

To properly plan a stage, so many details must be considered that we have prepared the questionnaire on the inside pages of this folder for the convenience of our patrons. This data will serve two purposes—first: remind you of important details; second: enable you to furnish us the information necessary to lay out a modern, efficient and economical stage.

Clancy equipment is Clancy-built

Clancy stage rigging and equipment is produced in our own complete, modern plant equipped with all the machinery and tools necessary to turn out this material on an economical basis. We carry on hand at all times a complete stock of all items in general use and can furnish complete equipment or replacement parts for any stage promptly.

We also carry on hand a complete supply of unfinished material from which any special units or equipment can be turned out on short notice. All work is done in our own plant. It is supervised by experienced executives with a thorough knowledge of the exacting requirements of the stage.

features of Clancy equipment

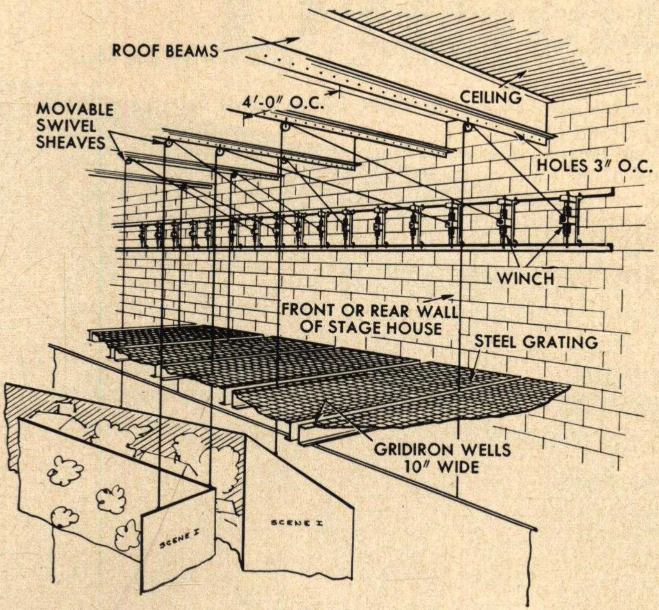
- *head blocks have Timken roller bearings with inner and outer races operating independently of shaft or hub.*
- *loft blocks are correctly sized to fit the cables; steel cross spaces positively prevent fouling.*
- *counterweight carriages have heavy tops of alloy metal with cast in eyes that do not cut cables; heavy steel side rods with lock nuts hold weights in place.*
- *floor blocks are noiseless; they have self-lubricating bearings that require no oil and wear a lifetime.*
- *rope locks are heavy cast one-piece construction with extra strong cams and locking levers and dependable safety lock; they are adjustable to all rope sizes and work equally well with old ropes as new ropes.*
- *cables are made to Clancy specifications with a safety factor of 2½; will last the lifetime of the stage when used in Clancy sheaves.*
- *hand lines are first grade Manila fibre, free of slivers and foreign matter.*

accept no substitutes

The great preference for Clancy stage equipment and the confidence in the Clancy name have brought about attempts to supply substitute equipment. When a substitution of this nature is attempted, the reason for it is obvious to any thinking person. To protect you against this substitution, every Clancy item is labeled with the Clancy trade-mark. Look for this trade-mark on the equipment you buy.

SceneControl

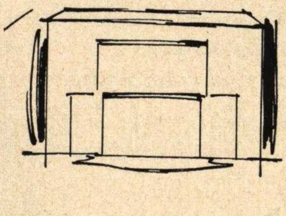
the most significant advance in stage equipment in over 2,000 years

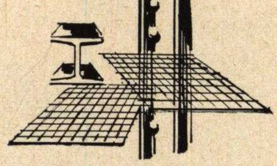


Electric powered winches mounted near roof on front and rear walls of stage house take the place of conventional counterweight rigging. Winches are synchronized through a variable speed drive and electrically controlled by means of a portable pushbutton console (photo of console on cover). Lines from winches are run through sheeves located as desired over stage in holes 3 inches in tee beams 4 feet on centers perpendicular to procenium.

saves 20% to 40% of stage house cubage

Standard theater equipment extends top roof line over full area of wings — Clancy SceneControl doesn't use this space for rigging.



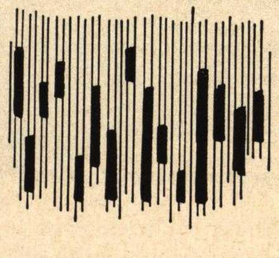


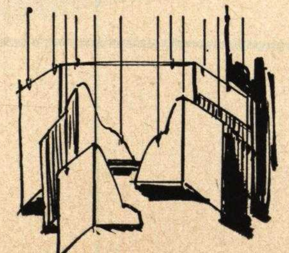
cuts steel requirements

Eliminates separate "grid" structure . . . cuts load requirements on roof steel.

eliminates pin-rail and fly gallery

All lines and rigging are loft height . . . side walls freed from rigging and counterweights are available for other useful purposes.

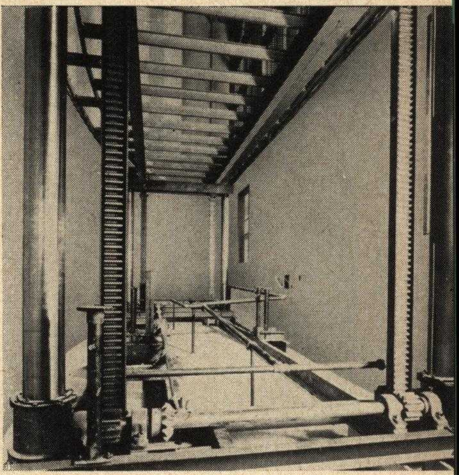




enables new concepts stage design

Without conventional rigging, the set designer does not have to fit his scenery to parallel rows of battens. Lines are spotted to handle the scenery, instead of the design matching the available rigging.

ORCHESTRA LIFT



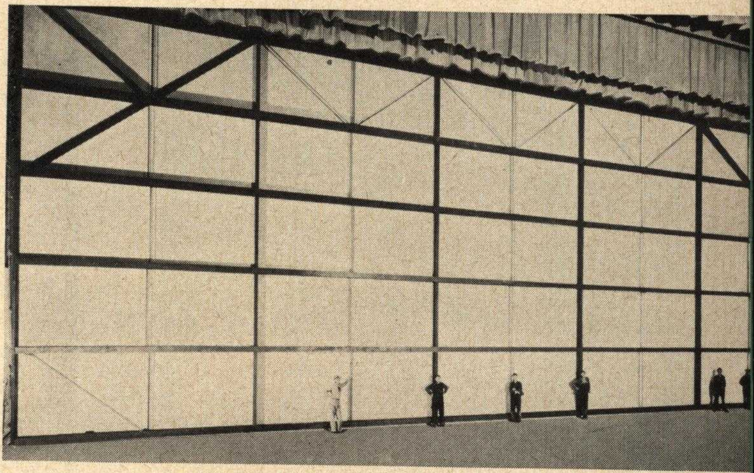
Purdue University Music Hall,
Lafayette, Indiana
architects: Walter P. Scholer
stage equipment consultant:
J. R. Clancy, Inc.
stage equipment contractor:
J. R. Clancy, Inc.

Orchestra lifts also greatly increase the flexibility of a stage and help create that certain indefinable air of magic. Each lift must be custom designed to exactly fit the needs of the installation. Each lift must be absolutely reliable and safe.

Clancy is the leading manufacturer of oil hydraulic orchestra lifts in the country; a few Clancy installations are as follows: Purdue University has 2, University of Wichita has 1, Dade County Auditorium in Florida has 1, Syracuse War Memorial Auditorium has 1, University of Indiana has 1, and State Teachers College, Greely, Colorado has 1 and Alice Statler Auditorium at Cornell University has 1.

This orchestra lift at Purdue University is large enough to accommodate a 100 piece symphony orchestra. It can bring a capacity load from the basement to the flush level of the stage in less than 75 seconds.

ASBESTOS CURTAINS



Purdue University Music Hall, Lafayette, Indiana (same job as above)

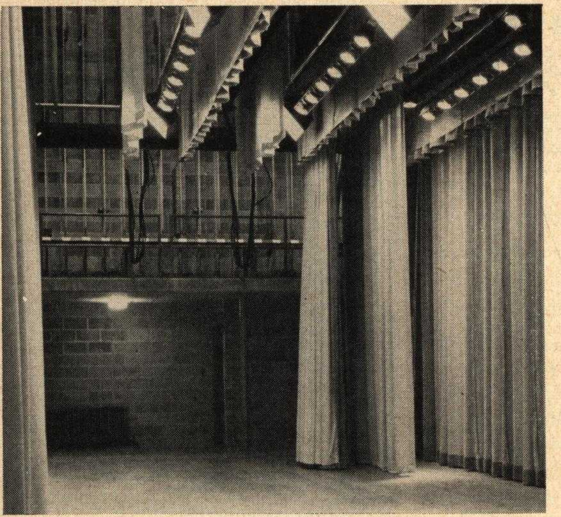
This fire curtain is 39′-6″ high and 103′-6″ wide. It weighs 19¾ tons. The weight and size of asbestos curtains demand that they be considered in the original structural design of the building.

Asbestos curtains are equipped with an electric motor for raising and lowering and an emergency lowering feature in case of fire. The danger inherent in these operations are apparent. Clancy asbestos curtains are safe, fool-proof in operation and meet the most rigid provision of fire codes.

Asbestos curtains are extremely expensive, potentially dangerous, potentially difficult to incorporate into the building but definitely required by building codes for auditoriums of a certain size (requirements for various areas differ). It is certainly prudent for the architect to get the best possible design and engineering service as early in the design stages as possible.

CLANCY STAGE EQUIPMENT

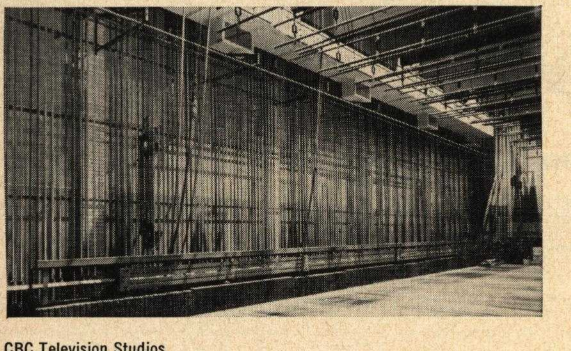
MULTIPLE SPEED SETS



The Pontificial College Josephenium, Worthington, Ohio (one of the three Roman Catholic Pontificial institutions in the United States)
architects: Karlsberger, McClellan & Gallogly, Columbus, Ohio
stage equipment contractor: Janson Industries Inc., Canton, Ohio

This installation is not extremely large but it is a very good, compact, safe and efficient arrangement. A fly floor with multiple speed sets was used. This arrangement is frequently used in small colleges because the floor space can be used for other necessary purposes, such as storage space, exit doors, etc.

CBC TELEVISION STUDIOS



CBC Television Studios
Canadian Broadcasting Company, Toronto, Canada
stage equipment consultant: J. R. Clancy, Inc.
stage equipment contractor: Canadian Contract Sales Ltd., Montreal, Quebec

The illustration shows a typical TV application of Tee-Bar guide counterweight sets. This installation provides for over 100 sets. With Clancy's engineering assistance this studio was provided with an extremely versatile arrangement of sets.

Clancy fabricated special troughs to follow the sets up and down and collect the power cables for the lights. This device prevented the cables from fouling and from cluttering critical sight lines. The neat and orderly appearance of the job is an indication of the workmanship.

suggested planning procedure

new construction

The following are items that should be established before designing the stage of any auditorium. A representative of J. R. Clancy will be happy to discuss and give you advice on them:

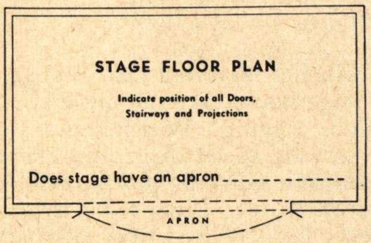
1. Size and shape of the stage area.
2. Location and amount of off stage areas for scene storage and scene changing.
3. Height of the gridiron or loft block beams. This determines the height of the fly loft.
4. Weight and location of stage equipment. This determines the structural steel of the building itself.
5. Location of counterweight guides, whether it be Wire or Tee-Bar Guide System, and also the proximity of either system with the stage side wall.
6. Location of head block beam; this beam is heavily loaded and the structural steel of the building must be designed to support it. It must be precisely located for the proper operation of the counterweight sets.

remodeling or when stage has been partially equipped

J. R. Clancy, Inc. can make a complete stage layout based on your requirements if you will supply the following information:

stage dimensions

Length: Side wall to side wall..
Depth: Proscenium to rear wall..
Height: Stage floor to top of gridiron..
Gridiron to roof..
(plan from back cover)


STAGE FLOOR PLAN
Indicate position of all Doors, Stairways and Projections
Does stage have an apron ____________
APRON

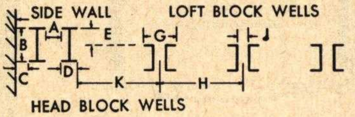
proscenium opening

Width..............................Height center..................Height sides.............

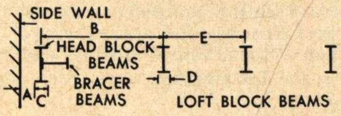
---

gridiron

UPRIGHT TYPE GRIDIRON



UNDERHUNG TYPE GRIDIRON



Is gridiron upright........................Is gridiron underhung..............................

fly loft

Yes....................No....................Height....................Width...............
Is there a locking rail............................Pin rail..............................
Length..........................
if blueprints are submitted, they should show in detail—stage floor plan, stage elevation, and gridiron plan

general information

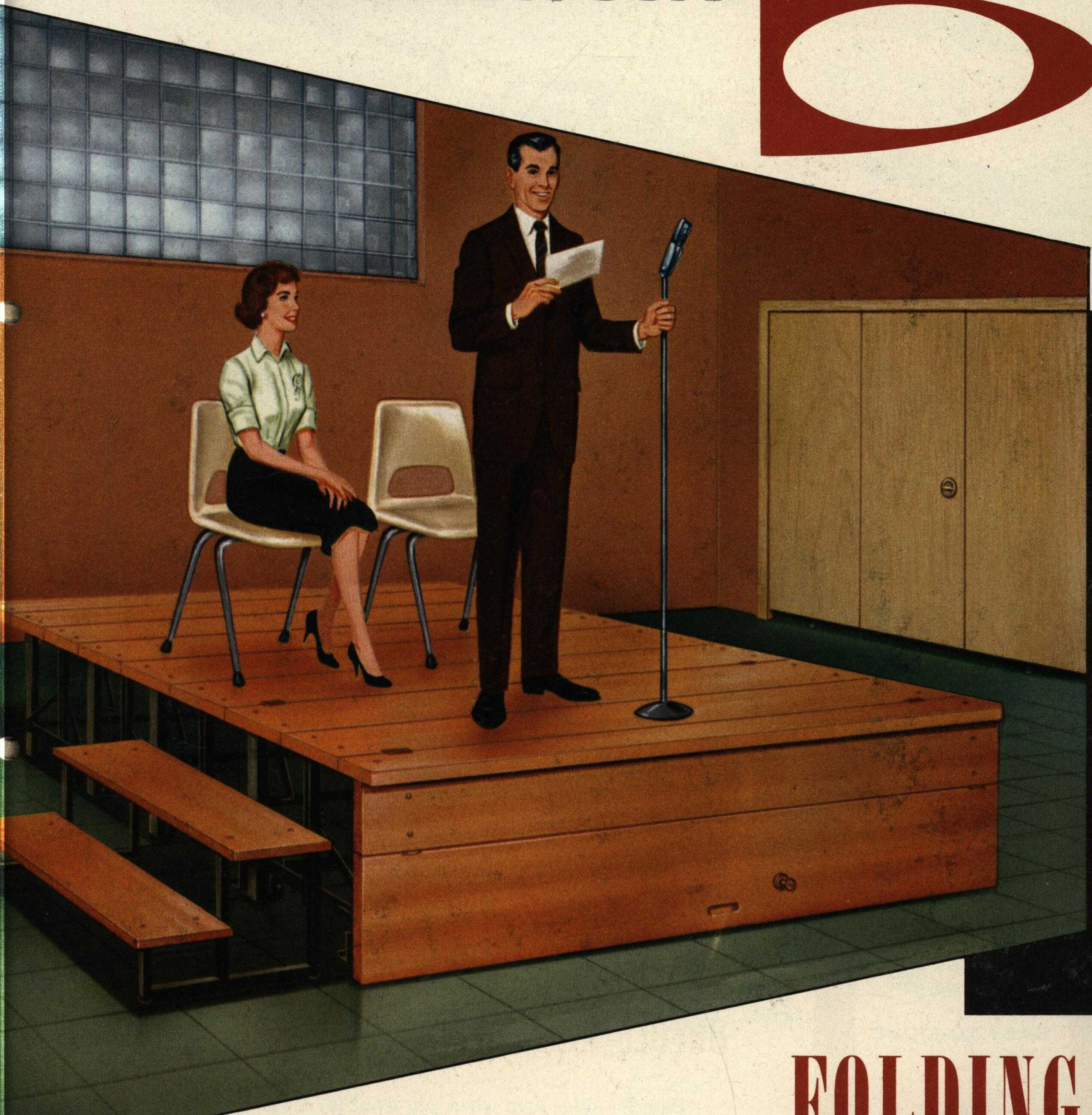
On which side of stage is head block well (looking toward audience)................................
Is space underneath clear for counterweight sets......................................
Are there any doors, entrances or stairs to conflict................(Indicate on floor plan)
Is asbestos curtain required..
Height—auditorium floor to stage floor..
Distance—proscenium opening to first row of seats......................................
Will auditorium have projection booth..
Picture screen....................Will auditorium have a balcony..........................
Will sound horn equipment be used..
Approximate number of counterweight sets desired ....

J. R. CLANCY, INC.
1010 W. BELDEN AVE.
SYRACUSE 4, NEW YORK

A.I.A. File No. 35-A-1

23g
Ho

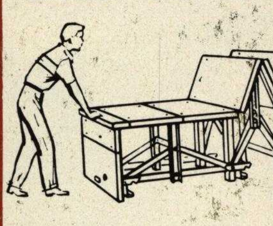
Brunswick



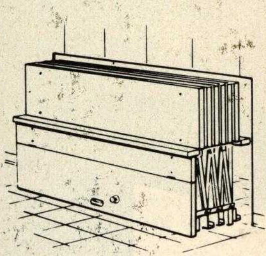
FOLDING STAGES

SAVE TIME...

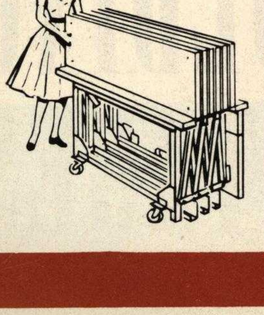
EASILY SET-UP



SPACE SAVING



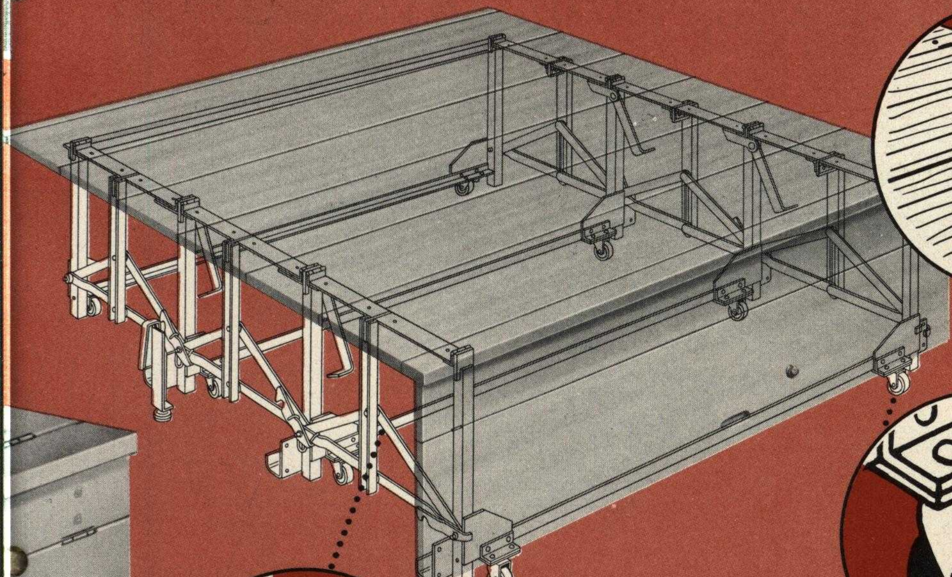
EASY TO MOVE

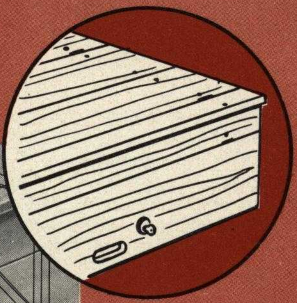


Brunswick PORTABLE STAGES
UNFOLD NEW AREAS FOR SPACE UTILITY

Plan for stage area when you want it . . . where you want it, with Brunswick Folding Stages. Any room can be converted into a theater, ballroom, banquet hall or convention area within minutes. Precious room space can be exploited for maximum utility . . . simply roll in a Brunswick stage, unfold it, lock it into position and it's ready for use.

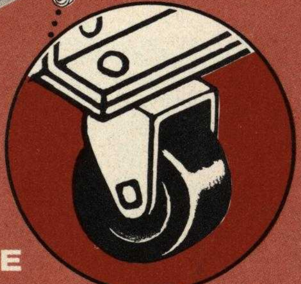
EFFORT...SPACE WITH *Brunswick* VERSATILE FOLDING STAGES





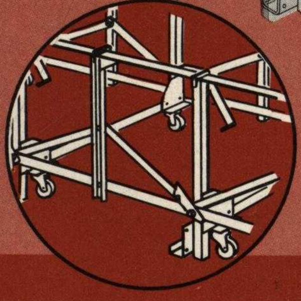
BOARD CONSTRUCTION

Select vertical-grain fir faceboards and floorboards are edge laminated under hydraulic pressure to eliminate warpage . . . provide maximum strength.



RUBBER WHEELS

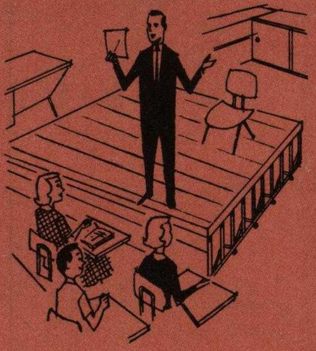
Brunswick Folding Stages roll into position on hard rubber wheels . . . make opening and closing easy—safeguard the floor as well.



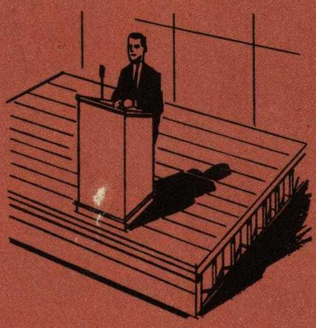
STEEL UNDERSTRUCTURE

Brunswick Folding Stages feature a rugged steel understructure that meets the most exacting requirements for strength and safety.

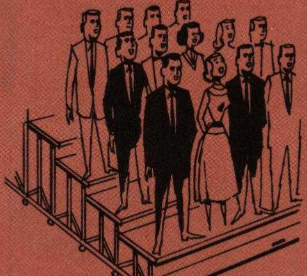
USE THEM ANYWHERE...



- Classrooms
- Multi-purpose Rooms
- Music Rooms



- Banquet Halls
- Hotels
- Conference Rooms



- Churches
- Community Centers
- Clubs

- Department Stores
- Offices
- Theaters

Brunswick SERVES YOU ACROSS THE NATION

FOLDING STAGE SPECIFICATIONS

1. GENERAL SCOPE:

A. Folding Stage shown in Architect's plans and specifications shall be as manufactured by the Brunswick-Balke-Collender Company, Kalamazoo, Michigan, or equal.

B. Folding Stage shall be delivered to Purchaser fully assembled. Uncrating of Stage shall be by Purchaser. Stage shall be guaranteed against faulty materials, workmanship and operation for a period of one (1) year from date of delivery.

2. EQUIPMENT REQUIREMENTS:

A. The manufacturer will furnish the following quantities of Folding Stages:

__________Units,__________'__________" Wide by
__________'__________" Deep by__________" High.

B. ACCESSORIES:

1. PORTABLE STEPS 36" in width shall be furnished with Folding Stage Units. Portable step units for 18" and 24" high Stages are non-folding type. Portable step units for 30", 36", 42" and 48" high Stages are folding type. Folding step units shall contain 3" diameter composition rubber wheels for mobility.

2. SIDE RAILS AND BACK RAILS shall be furnished with Folding Stage Units. Railings shall be fabricated of 1¼" diameter tubing rigidly anchored to Folding Stage floor boards by means of flush key hole plates and screw down mechanisms.

3. OPERATION:

A. Folding Stage shall be equipped with cylinder lock to prevent unauthorized operation.

B. Folding Stage shall extend and fold in a continuous action. Each section shall individually and automatically lock open. Folding and extending actions shall be accomplished by precision folding arms.

C. Folding Stage shall be completely mobile in both extended and folded positions. Stage shall be equipped with adjustable floor stops with rubber feet to anchor Stage in position for use.

4. DESIGN:

A. Folding Stage shall be designed and constructed to support a live load of 150 pounds per square foot.

B. Vertical support columns shall be steel tubing joined laterally at bottom by steel angles.

C. Folding Stage floor boards shall be supported at center hinge point by steel channel supports from which load shall be transmitted diagonally to support columns.

D. Each support column shall be fitted at the base with a 2" diameter composition rubber caster. Caster wheel shall include "OILITE" bushing requiring no additional lubricant.

5. CONSTRUCTION:

A. Manufacturer shall fabricate steel understructure and all wood members in his factories.

B. Electric arc welding shall be utilized on all steel members. All welding shall be done by certified welders.

C. All faceboards, floorboards and tailboards shall be vertical grain Douglas Fir fabricated from selected kiln dried lumber. Pitch pockets, knots, shake, wane and other defects will not be permitted. All floorboards shall be of a nominal ¾" x 11" dimension.

Floorboards shall consist of seven (7) or more individual rails edge laminated under pressure to prevent warping and to insure perfect alignment. Lamination shall be accomplished through use of electronic glue machines.

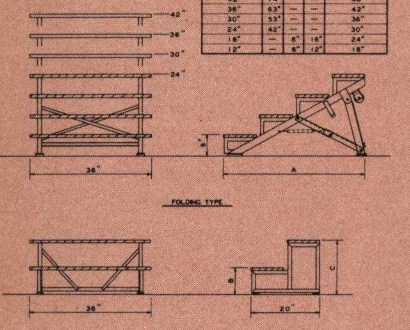
6. FINISH:

A. All steel understructure shall be bonderized before finishing. Metal parts shall be finished in DuPont Olive Green enamel No. 4458.

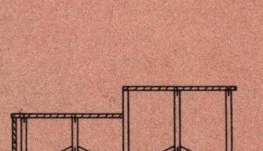
B. All wood parts shall be drum sanded, edges eased and final hand sanded before finishing. Finish shall consist of two (2) coats of Urea Based Synthetic finish on all finished sides of boards hand sanded between coats. The finish shall be dried under controlled temperatures. Paste wax shall be applied at Factory for maximum protection.

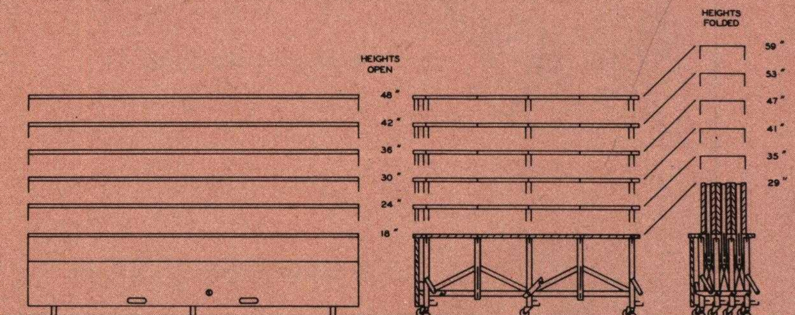
SPACE REQUIREMENTS—DEPTH OF UNIT								
NO. OF SECTIONS	OPEN	CLOSED	NO. OF SECTIONS	OPEN	CLOSED	NO. OF SECTIONS	OPEN	CLOSED
3	5 ft. 11 in.	1 ft. 5⅛ in.	9	16 ft. 11 in.	3 ft. 1⅜ in.	15	27 ft. 11 in.	4 ft. 9⅝ in.
4	7 ft. 9 in.	1 ft. 8½ in.	10	18 ft. 9 in.	3 ft. 4¾ in.	16	29 ft. 9 in.	5 ft. 1 in.
5	9 ft. 7 in.	1 ft. 11⅞ in.	11	20 ft. 7 in.	3 ft. 8⅛ in.	17	31 ft. 7 in.	5 ft. 4⅜ in.
6	11 ft. 5 in.	2 ft. 3¼ in.	12	22 ft. 5 in.	3 ft. 11½ in.	18	33 ft. 5 in.	5 ft. 7¾ in.
7	13 ft. 3 in.	2 ft. 6⅝ in.	13	24 ft. 3 in.	4 ft. 2⅞ in.	19	35 ft. 3 in.	5 ft. 11⅛ in.
8	15 ft. 1 in.	2 ft. 10 in.	14	26 ft. 1 in.	4 ft. 6¼ in.			

VARIOUS AND STAGGERED HEIGHTS



STEP HEIGHTS	A	B	C	STAGE HEIGHTS
42"	74"	—	—	48"
36"	63"	—	—	42"
30"	53"	—	—	36"
24"	42"	—	—	30"
16"	—	8"	16"	24"
12"	—	8"	12"	18"





Folding Gymnasium Seating
Sweet's File No. 23j/Ho

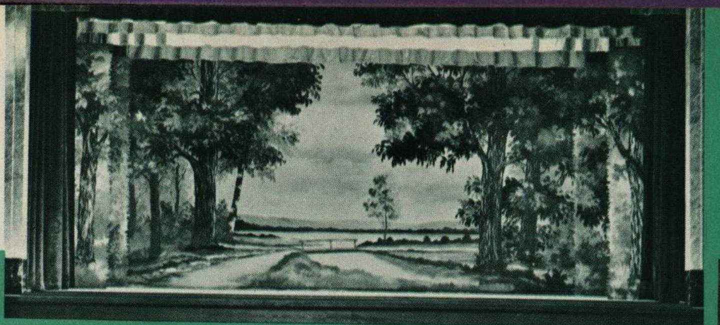
Folding Backstops
Sweet's File No. 23k/Ho

Folding Partitions
Sweet's File No. 22d/Hor

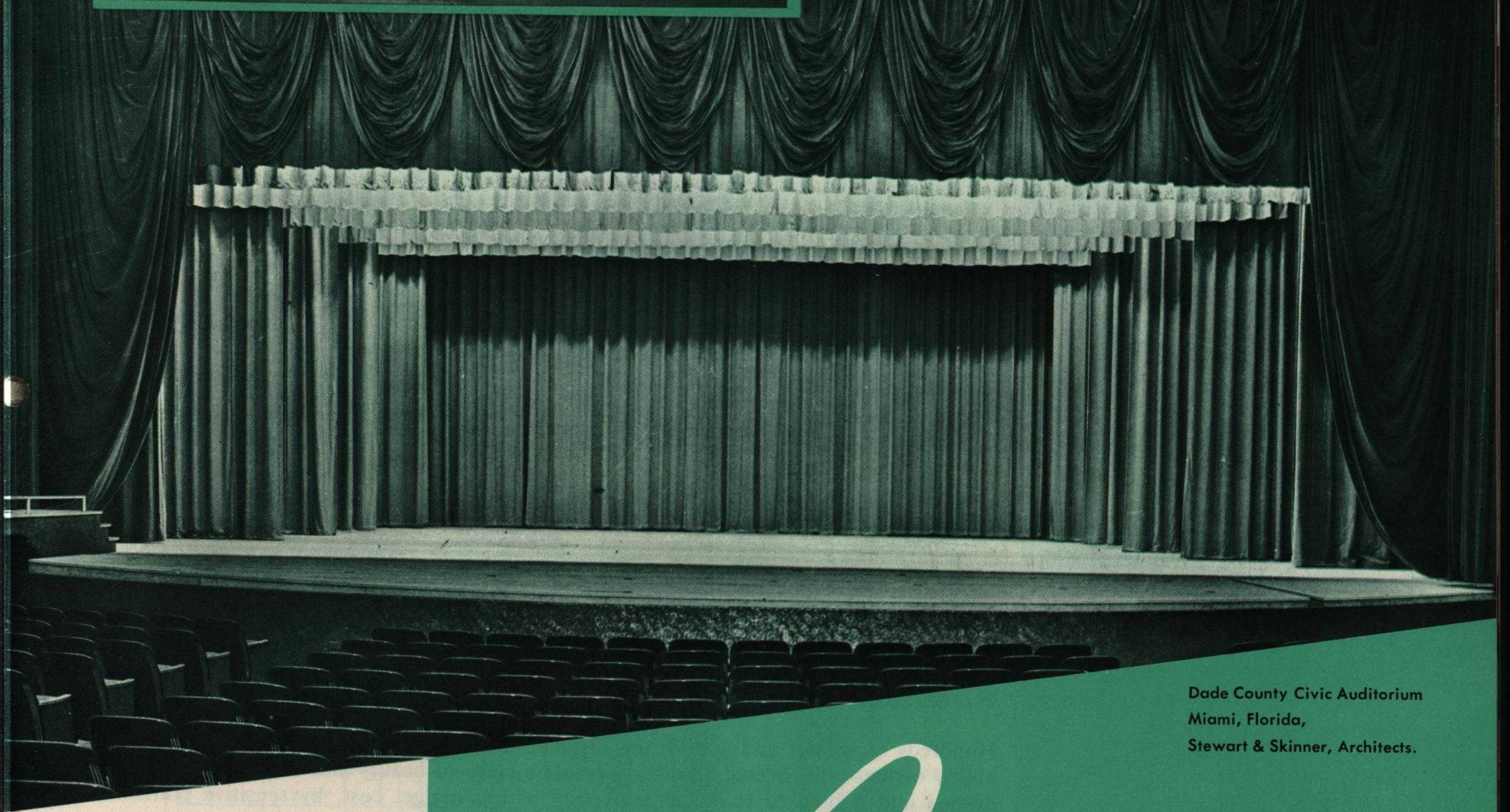
Brunswick
SCHOOL EQUIPMENT DIVISION
BRUNSWICK-BALKE-COLLENDER CO.
KALAMAZOO, MICHIGAN

IMPORTANT: When current manufacturing processes involve improvements in products illustrated in this catalog, or when conditions over which we have no control force us to depart from standard manufacturing processes, we reserve the right to supply the article that is our standard at time shipment is made.

23g
Kn



Stage scenery, hand-painted at Knoxville Scenic Studios and installed by workmen noted for their skill.



Dade County Civic Auditorium
Miami, Florida,
Stewart & Skinner, Architects.

ARTISTRY

ENGINEERING

PRODUCTION

INSTALLATION

FACILITIES

Artistry

THAT SETS THE STAGE

KNOXVILLE *Scenic* STUDIOS
INCORPORATED
MARYVILLE PIKE, KNOXVILLE, TENN.

Contour Curtains

Cycloramas

Asbestos Curtains

Counterweight Rigging

Traverse Track Systems

Auditorium and Window Drapes

Painted Scenery Sets

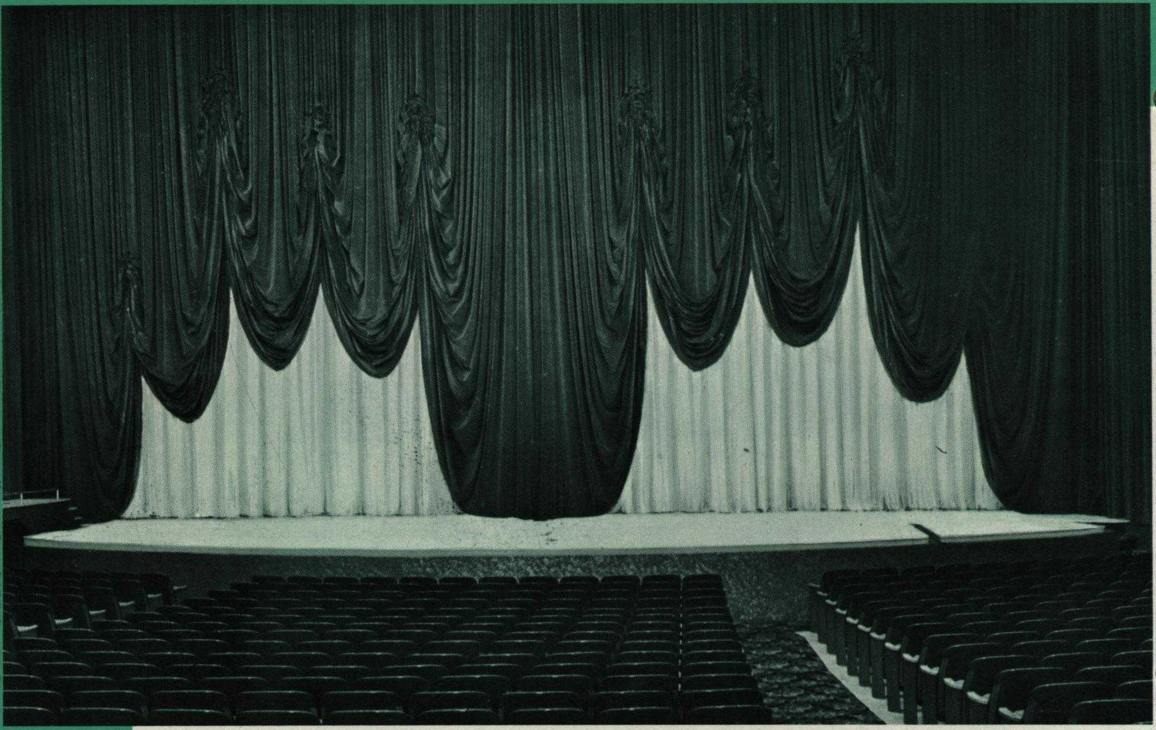
Fireproof Fabrics

Stage Curtains and Draperies

Revolving Stages and Orchestra Lifts

Sound-Retardant, Rigid-Frame Curtains

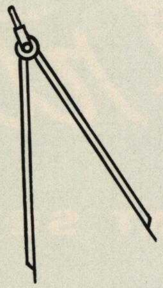
Wide-Screen Frames



Everything FOR THE STAGE BUT THE PLAYERS!

Whether you are planning to equip a civic auditorium, a high school stage, or a theater, ours is the experience, the training, the professional know-how that bring your plans and ideas to vivid life. With the most modern stage equipment studios in the nation, we offer a complete service from preparation of original drawings and specifications, with fabrication of components in exact accordance, to final installation.

Hundreds of theater and auditorium installations throughout the United States testify to the ability of Knoxville Scenic Studios to create a stage of beauty and brilliance. Installations are draped and lighted to technical perfection within budget cost, by sensitive craftsmen, with artistry that sets the stage—complete with everything but the players!



A CONSULTANT SERVICE FOR THE ARCHITECT

Our highly skilled engineering department, with many years of experience in all types of stage installations, will gladly assist you in the more technical phases of your planning . . . whether your project is a modest school, an elaborate college, municipal auditorium, or an ocean liner.

Three factors are paramount in approaching the problem: the space available, the desired function, the budget allocated.

Knowing these, we can determine the most feasible and practical use of the space, and make suggestive layouts that will best fit the dramatics needs of your client. Our recommendations can cover any or all phases of stage equipment, as requested . . . rigging, lighting, fabrics, asbestos curtains, scenery, stage properties, etc.

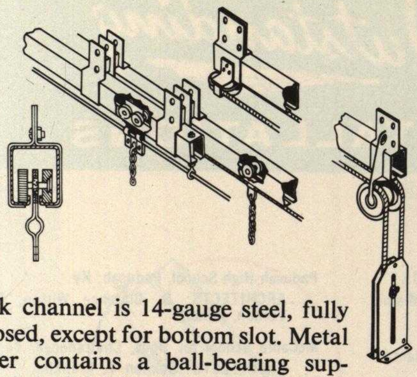
All suggestions are keyed for the greatest flexibility possible, to answer not only existing requirements but future needs as they might develop.

On those projects demanding highly technical settings, it is our usual procedure to have one of our consultants visit you for a discussion of problems involved, after preliminary layouts have been submitted for consideration.

This consultant engineering service can be of invaluable assistance to you in your planning, and can assure your client of the utmost satisfaction from the finest stage equipment, engineered for trouble-free service, fabricated for long life.

TRAVERSE TRACKS

NO. 400 HEAVY DUTY STEEL TRACK



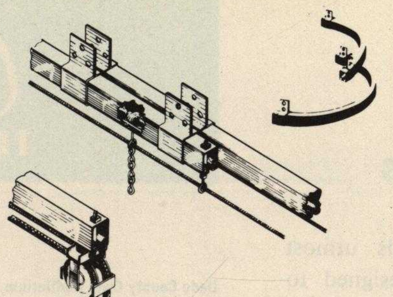
Track channel is 14-gauge steel, fully enclosed, except for bottom slot. Metal carrier contains a ball-bearing supported shaft with rubber composition wheels. Curtain suspended from two wheels rolling on parallel tracks. Rubber spacers between carriers.

NO. 300 MEDIUM DUTY STEEL TRACK

Basically the same as No. 400, but smaller in size; recommended for curtains up to 36 ft. in width.

CYCLORAMA TRACKS

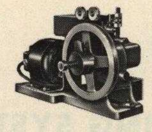
NO. 250 STEEL AND WOOD TRACK



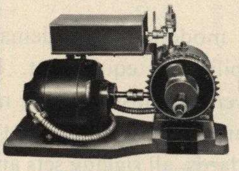
Available in both straight and curved effects. The formed steel channel supports two impregnated hardwood runners; carriers are specially treated, long-life wood balls. Straight track operated by ropes and pulleys from one point of control. Curved unit is "walk-around" track adapted to curved cyclorama settings.

Additional tracks, adaptable to specific uses, are also available. Write for information and recommendations on functional applications.

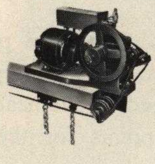
MOTOR CONTROLS



Standard Model



Sprocket Model

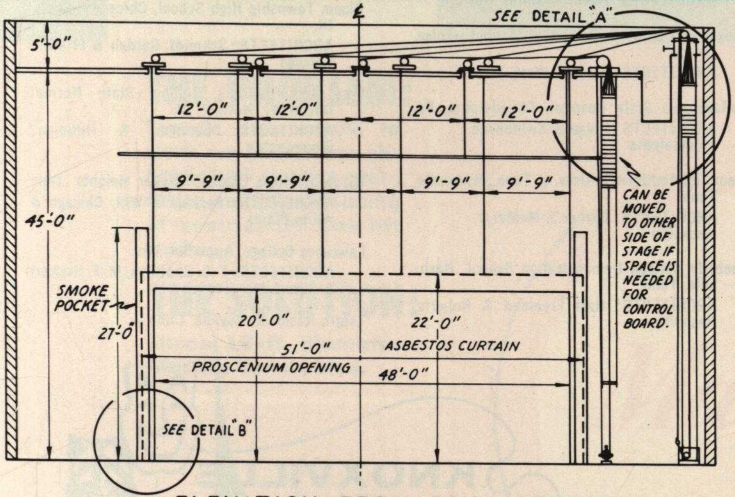


Flying Model

Motor controls only can pull stage curtains at precisely the right time, at exactly the right speed. Shown here are the three basic types of motor controls, long proved essential to satisfactory stage curtain operation.

Designed and developed to accomplish all necessary curtain operations by push-button control; easily installed, reliable in operation. Many variations of the basic models are available for specific functions; write for complete information.

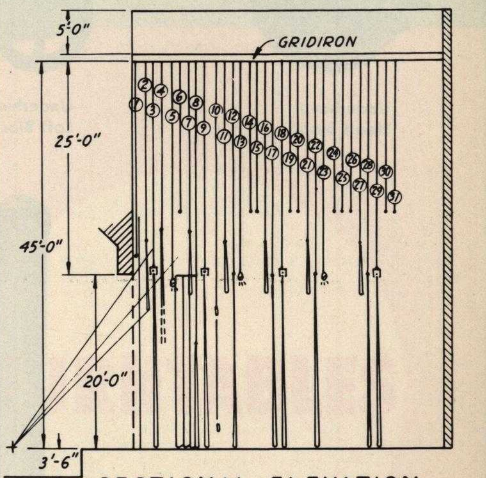
TYPICAL STAGE LAYOUTS


SEE DETAIL "A"
℄
5'-0"
12'-0"
12'-0"
12'-0"
12'-0"
9'-9"
9'-9"
9'-9"
9'-9"
45'-0"
CAN BE MOVED TO OTHER SIDE OF STAGE IF SPACE IS NEEDED FOR CONTROL BOARD.
SMOKE POCKET
27'-0"
20'-0"
22'-0"
51'-0"
ASBESTOS CURTAIN
PROSCENIUM OPENING
48'-0"
SEE DETAIL "B"

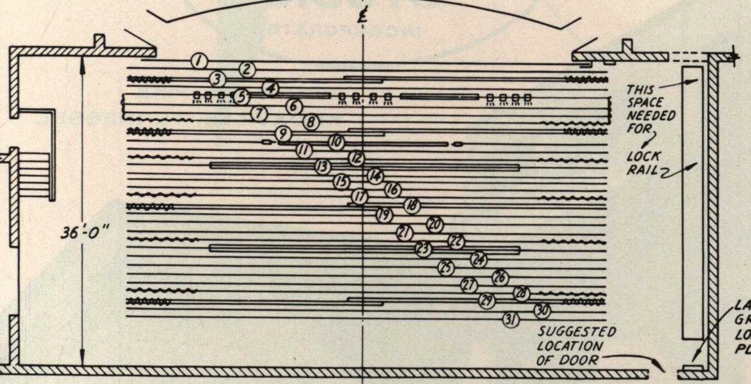
ELEVATION FROM BACK STAGE
Scale 1/8"=1'-0"

RIGGING SCHEDULE

1. ASBESTOS CURTAIN
2. VALANCE
3. FRONT CURTAIN
4. TEASER
5. #1 LIGHT BATTEN
6. SPARE
7. GRAND BORDER
8. TORMENTOR LEGS
9. CONCERT CURTAIN
10. PICTURE SCREEN
11. #1 CYCLORAMA BORDER
12. #1 CYCLORAMA SIDE LEGS
13. #2 LIGHT BATTEN
14. SPARE
15. SPARE
16. #2 CYC. BORDER
17. #2 CYC. SIDE LEGS
18. INTERMEDIATE CURTAIN
19. SPARE
20. SPARE
21. #3 CYC. BORDER
22. #3 CYC. SIDE LEGS
23. #3 LIGHT BATTEN
24. SPARE
25. SPARE
26. SPARE
27. #4 CYC. BORDER
28. #4 CYC. SIDE LEGS
29. REAR CURTAIN
30. SPARE
31. SPARE

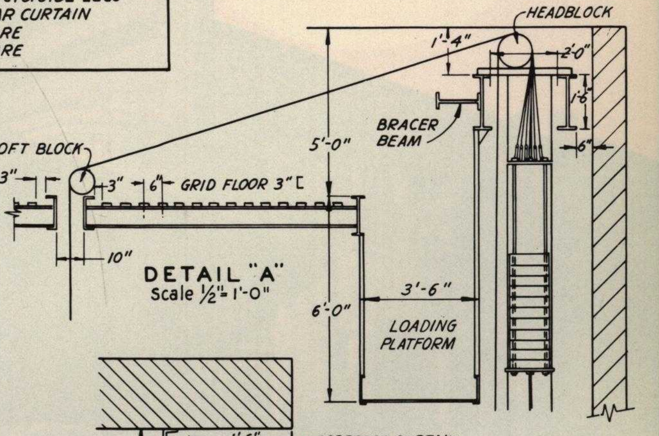

5'-0"
GRIDIRON
25'-0"
45'-0"
20'-0"
3'-6"
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

SECTIONAL ELEVATION
Scale 1/8"=1'-0"

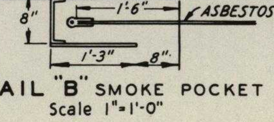

℄
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
36'-0"
THIS SPACE NEEDED FOR LOCK RAIL
LADDER TO GRIDIRON & LOADING PLATFORM
SUGGESTED LOCATION OF DOOR

FLOOR PLAN
Scale 1/8"=1'-0"

PROPOSED
STAGE EQUIPMENT
KNOXVILLE SCENIC STUDIOS INC.
KNOXVILLE TENN.
E.P.D. 2-6-53


HEADBLOCK
1'-4"
2'-0"
1'-6"
BRACER BEAM
5'-0"
6"
LOFT BLOCK
3"
3"
6"
GRID FLOOR 3" [
10"
3'-6"
6'-0"
LOADING PLATFORM

DETAIL "A"
Scale 1/2"=1'-0"


8"
1'-6"
ASBESTOS CURTAIN
1'-3"
8"

DETAIL "B" SMOKE POCKET
Scale 1"=1'-0"

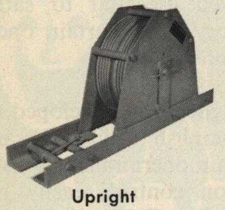
COUNTERWEIGHTED

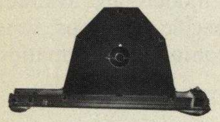
RIGGING SYSTEMS

The modern stage demands utmost flexibility of equipment. Designed to answer the most exacting needs, manufactured in our own plant under rigid standards, all rigging sets are engineered for flawless operation and long life usage.

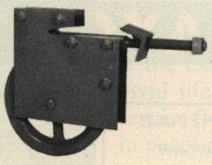
When no gridiron is present over the stage area, underhang type sheaves may be attached to overhead beams as suspension points for the counterweight system.

Multiple hoist units or winch sets are recommended if overhead height is insufficient for a counterweight system.


Upright Head Block


Upright Loft Block

Underhung Head Block


Underhung Loft Block

A FEW *Outstanding* INSTALLATIONS

Dade County Civic Auditorium, Miami, Fla.
ARCHITECTS: Stewart & Skinner, Miami

Weiss Theatre, Savannah, Ga.
ARCHITECTS: Tucker & Howell, Atlanta

Dayton Civic Auditorium, Dayton, Ohio
ARCHITECTS: Rial T. Parrish, Dayton

Windsor High School, Windsor, Conn.
ARCHITECTS: Ebbetts, Frid & Prentice, Hartford

Prudential Insurance Company, Jacksonville, Fla.
ARCHITECTS: Kemp Bunch & Jackson, Jacksonville

Fine Arts Building, St. Mary's College, Notre Dame, Ind.
ARCHITECTS: Naess & Murphy, Chicago

Maryville College, Maryville, Tenn.
ARCHITECTS: Schweikher & Elting, Chicago

Zumbrota High School, Zumbrota, Minn.
ARCHITECTS: Thorshov & Cerny, Minneapolis

Princess Anne High School, Thailia, Va.
ARCHITECTS: Oliver & Smith, Norfolk

Alexander Graham Bell High School, Tulsa, Okla.
ARCHITECTS: Black & West, Tulsa

Philadelphia State Hospital, Philadelphia, Pa.
ARCHITECTS: Nolen & Swinburne, Philadelphia

Memorial Auditorium, Univ. of Tenn., Knoxville, Tenn.
ARCHITECTS: Barber & McMurry, Knoxville

Peabody College Demonstration School, Nashville, Tenn.
ARCHITECTS: Hart Freeland & Roberts, Nashville

Paducah High School, Paducah, Ky.
ARCHITECTS: D. Clarence Wilson, Mt. Vernon, Illinois

McCallie School for Boys, Chattanooga, Tenn.
ARCHITECTS: Selmon T. Franklin, Chattanooga

Oak Ridge High School, Oak Ridge, Tenn.
ARCHITECTS: Skidmore Owings & Merrill, Oak Ridge-Chicago

Fine Arts Building, University of Kentucky, Lexington, Ky.
ARCHITECTS: Brock & Johnson, Lexington

Ellis Auditorium, Memphis, Tennessee
ARCHITECTS: Windrom, Haglund & Venable, Memphis

Senior High School, Hobbs, New Mexico
ARCHITECTS: Vorhees & Standhardt, Roswell

Union Hall of Music Annex, Purdue University, West Lafayette, Ind.
ARCHITECTS: Walter Schoeler & Associates, Lafayette

1000-Man Theatre, Naha, Okinawa
ARCHITECTS: Baker, Butler, Triplett, & Associates, Honolulu, Hawaii—Tokyo, Japan

Bloom Township High School, Chicago Heights, Ill.
ARCHITECTS: Schmidt, Garden & Erikson, Chicago

Fine Arts Building, Illinois State Normal University, Normal, Ill.
ARCHITECTS: Lundeen & Hilfinger, Bloomington

Byron Jr. High School, Shaker Heights, Ohio
ARCHITECTS: Perkins & Will, Chicago & White Plains

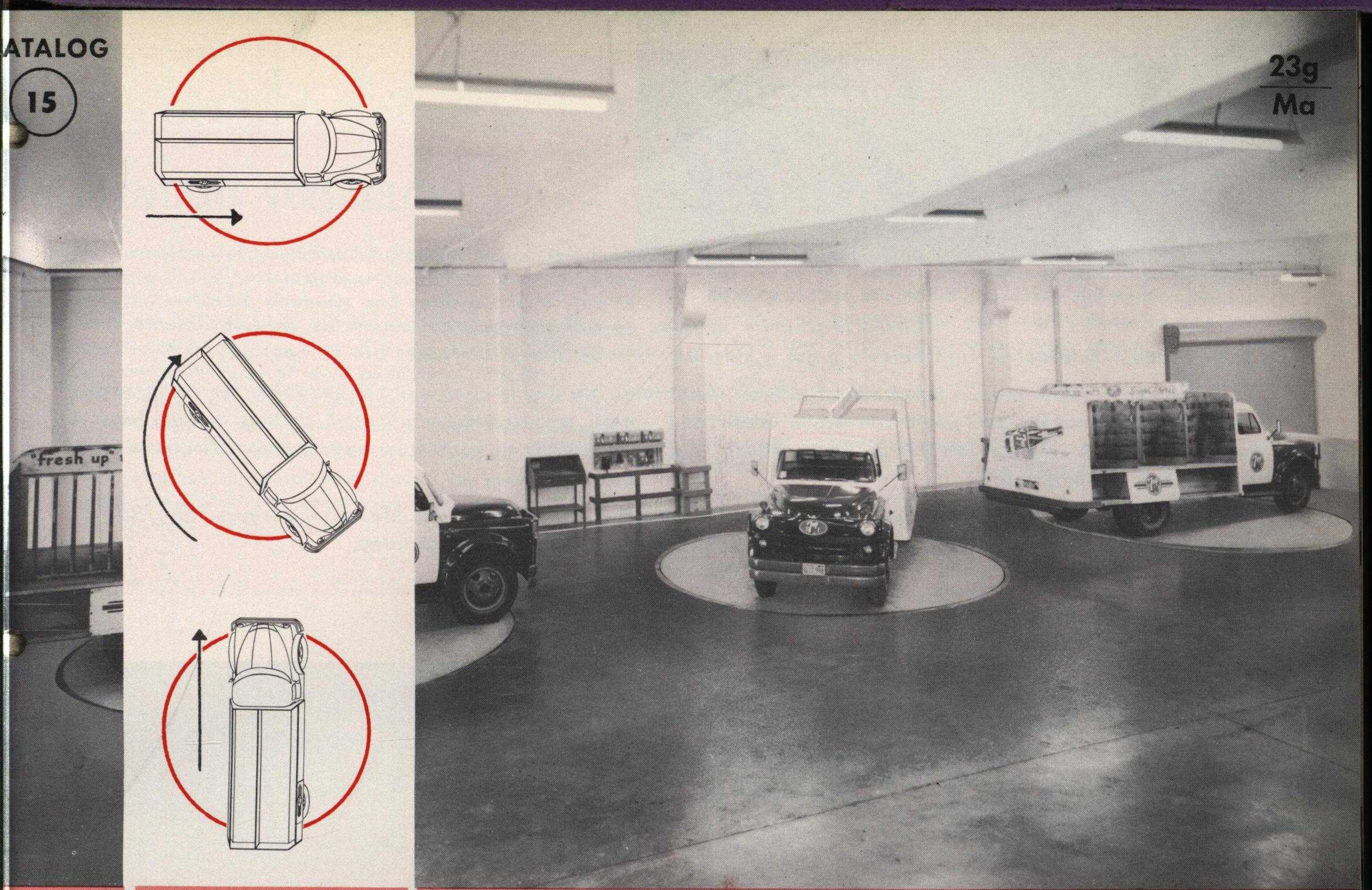
Lawrence College, Appleton, Wis.
ARCHITECTS: F. C. Shattuck, M. F. Siewert & Associates, Neenah

Teatro Nacional, Havana, Cuba

STAGE EQUIPMENT
Knoxville
SCENIC STUDIOS
DISTINCTIVE STAGE EQUIPMENT
Please DO NOT BLOCK DRIVEWAY

KNOXVILLE SCENIC STUDIOS
INCORPORATED

MARYVILLE PIKE
KNOXVILLE, TENNESSEE



THE PROBLEM:
Provide easy access to stock area, optimum utilization of storage area, faster palletized loading of vehicles by fork-lift trucks.

THE SOLUTION:
Three 18-ft. diameter Macton Turntables.

Macton TURNTABLES TURNTABLES

ANY SIZE—ANY SERVICE

Vehicle Positioning • Materials Handling
Product Display • Theatrical Motion

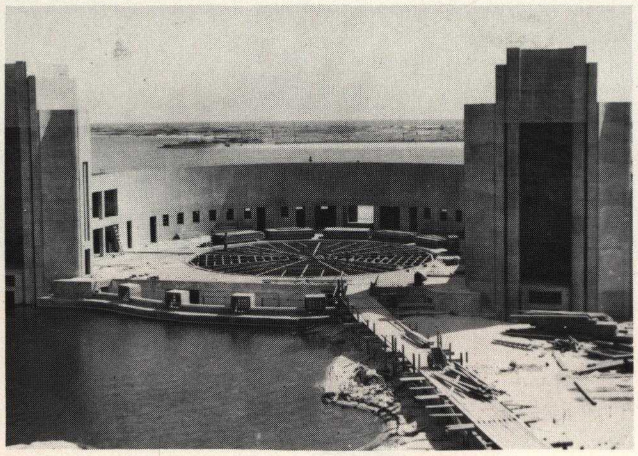
MACTON MACHINERY COMPANY, INC.

Macton TURNTABLES

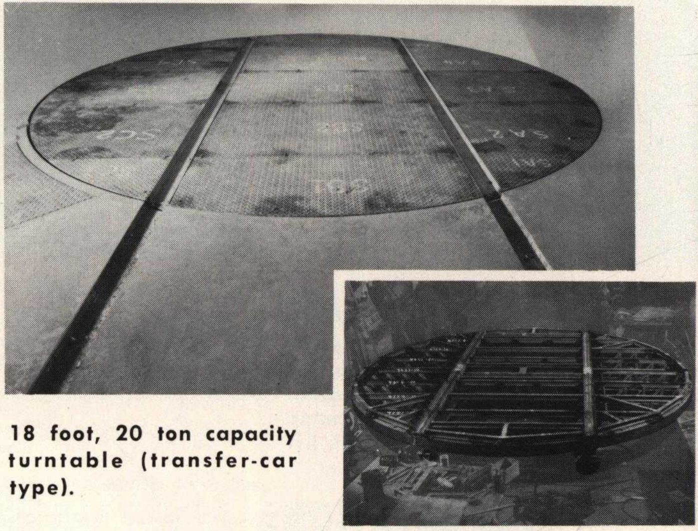
Macton Machinery devotes its collective experience, skills, and facilities to one basic product: turntables. Turntables are not a sideline with *Macton* —turntables are its specialty.

Hundreds of *Macton* turntables are giving continuing dependable service throughout the world today. And with numerous large and small, technically-complicated custom installations a matter of record, *Macton* can design and produce special turntables to your most exacting specifications with guaranteed dependability.

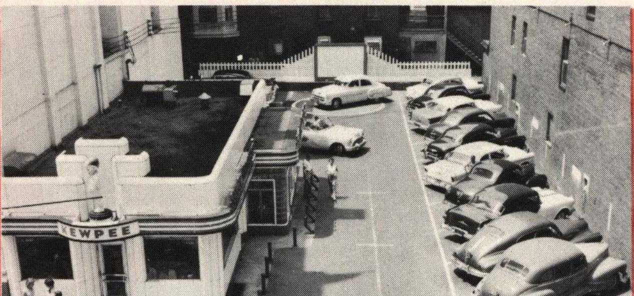
Truly engineered, with efficient mechanical and electrical designs, all *Macton* turntables are simple and economical to operate, and carry a full year's guarantee.



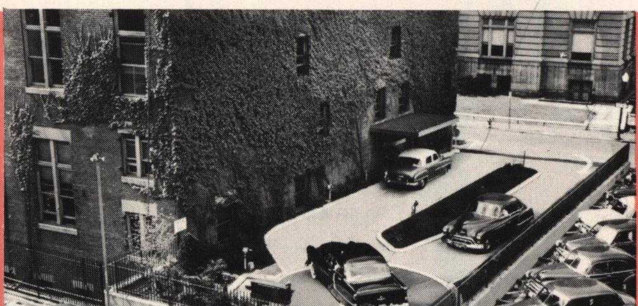
76 foot stage turntable—250 ton design load for State Park Commission, Marine Stadium, Jones Beach, L. I., N. Y.



18 foot, 20 ton capacity turntable (transfer-car type).



16 foot diameter drive-in parking turntable, Kewpee Hotels, Lima, Ohio.



Electronically-controlled 22 foot automobile turntable for drive-in bank, Waterbury, Conn.

MACTON MACHINERY COMPANY, INC.

TURNTABLE VERSATILITY

The advantages of turntables for dramatic display and flexible stage design have long been recognized. In recent years, however, architects, designers and engineers have come to recognize turntables as an efficient space-saving element wherever there are problems of traffic congestion, materials handling bottlenecks or work positioning difficulties.

For increasing effective floor space or display area, improving efficiency of factory processes or warehouse operations, turntables are often the perfect solution.

Don't overlook these valuable devices for new or existing installations. Macton's broad experience in this area is at your disposal.

MACTON DESIGNS

Macton has been the leader in the design and fabrication of turntable systems. No design problem is too difficult or complex for its turntable engineering and production specialists. Because of their specialized experience, the Macton group can design a turntable to meet your specifications for any size—to hold any weight—to revolve at any speed, continuously or intermittently.

In addition, Macton has several stock models which are available for immediate delivery. These range in size from the one-foot diameter model 200 for small displays to the model 5000 Paravane for the display of automobiles.

Dozens of standard designs have been developed for a wide variety of display and industrial applications. These can be used as is, or with modifications to conform to your precise requirements.

Swift
Swift
NO PARKING

24 foot turntable for maneuvering cars and trucks at a loading platform, Life and Casualty Building, Nashville, Tenn.

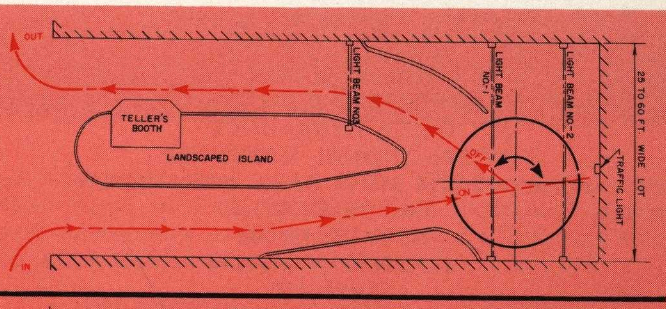
20 foot diameter multiple-set theatrical turntable.

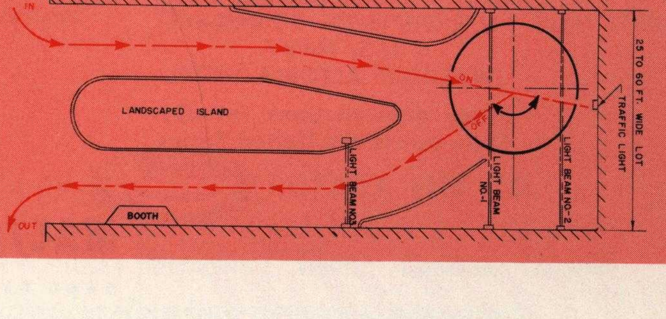
DRIVE-IN INSTALLATIONS

Typical use of Macton turntables to make optimum use of limited space are the many drive-in installations which Macton has made. Many banks and restaurants, faced with the lack of desirable drive-in facilities because of limited adjacent space, have installed a space-stretching Macton turntable system.

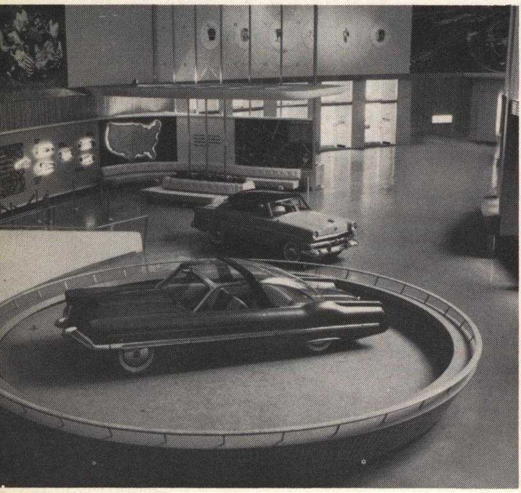
To these people, Macton has provided a complete system—safe, foolproof, and trouble-free—including the entire turntable mechanism, all photoelectric equipment, traffic lights, electrical control panels, foundation drawings, and instructions for installation and operation.

Macton can provide the same helpful solution to you for your banking, parking, loading, or other service problem.





OTHER TYPICAL INSTALLATIONS



24 foot sloping automobile turntable, Ford Rotunda, Dearborn, Mich.

6 foot, 6000 pound turntable; integral part of multiple-door elevator.

9 foot movable industrial turntable —variable speed drive, Belmont Smelting & Refining, N. Y.

TYPICAL USERS

Macton turntables are providing dependable service to a wide variety of users throughout the world from Hawaii to Turkey, Canada to Peru. A few of these are:

ALLIS-CHALMERS • AUSTIN MOTOR CO.
BELMONT SMELTING & REFINING
CBS TELEVISION
CHRYSLER CORP.
CINCINNATI MILLING MACHINE
FEDERAL TELEPHONE & RADIO
FORD MOTOR CO.
FRUEHAUF TRAILER CO.
GENERAL MOTORS
GREER HYDRAULICS
INTERNATIONAL HARVESTER
JONES BEACH STATE PARK COMMISSION
NBC TELEVISION
N. Y. COLISEUM
REPUBLIC AVIATION
SEVEN-UP
STUDEBAKER-PACKARD CORP.
U.S. DEPT. OF COMMERCE
U.S. NAVY
WALDORF-ASTORIA HOTEL

Many drive-in bank installations across the United States.

YOUR TURNTABLE APPLICATION

If you have a problem involving vehicle positioning, materials handling, product display, or theatrical motion, let us suggest an appropriate standard, modified, or custom turntable system.

Our applications engineers will be happy to assist you without obligation, if you will send us data as to your requirements:

a) Weight of load to be rotated

b) Dimensions of load

c) Nature of load—whether permanently on turntable, placed on by hand or by overhead crane, rolled on (such as on car rails), etc.

d) Type of service — (How fast — how far — how often must the load be rotated?)

e) Size of turntable if known — otherwise we can make determination from data furnished.

f) Power characteristics available.

g) Any other data pertinent to the installation.

TURNTABLES
Macton

MACTON MACHINERY COMPANY, INC.

6668 DYKE LANE • STAMFORD, CONN. • DAvis 4-6161
CHICAGO OFFICE: 4753 SHERIDAN ROAD, CHICAGO 40, ILL. • LOng Beach 1-4411

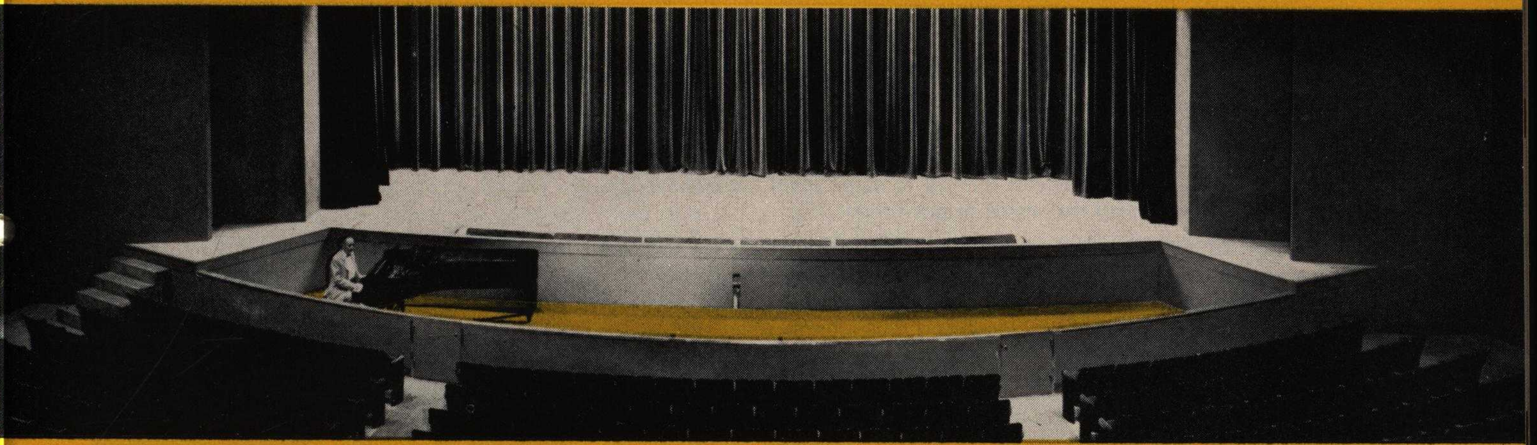
Cable: "MACTON" Stamford
Address all inquiries to our home office.

LITHO IN U.S.A.

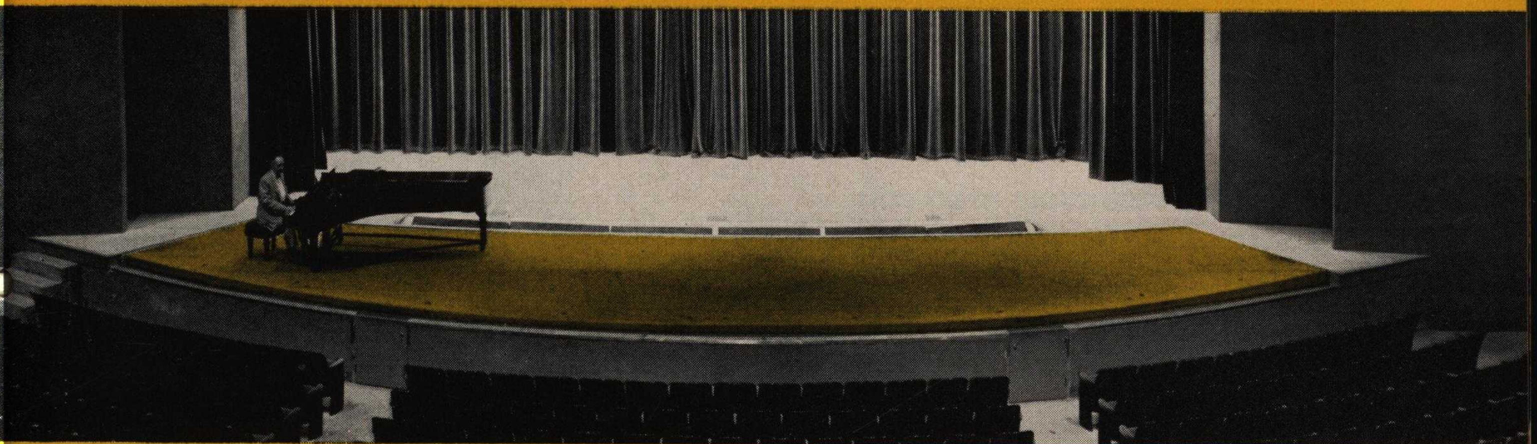
1059 • 33500 • BH

Rotary®

RISING STAGES



Rotary Rising Stage in Houston Music Hall shown at orchestra pit level (above) and raised to full height (below). This stage descends to basement level for bringing performers into view of audience.



Rotary Rising Stages take many forms . . . orchestra lifts, stage sections and complete stages which move vertically on dependable Oildraulic® pistons. They are used to produce elaborate and dramatic theatrical effects, save valuable floor space, and permit design of multi-use halls.

RECOMMENDED FOR

Auditoriums • Schools • Theaters • Music Halls • Night Clubs

Designed and built by Rotary® **ROTARY LIFT CO.**

Division of Dover Corporation 1053-A Kentucky, Memphis 2, Tenn. - Chatham, Ontario
Specialists in oil-hydraulic elevating devices—passenger and freight elevators—auto lifts

© 1958, Rotary Lift Co.

Printed in U.S.A.

Rotary®

RISING STAGES

Hydraulic lifts which combine utility with dramatic effect

Rotary Rising Stages consist, basically, of one or more hydraulic pistons on which a platform is mounted. By extending the pistons, the platform is raised.

Applications are many. A familiar example is the orchestra pit lift. The orchestra assembles on the lift at basement level and is raised to audience view. This type of Rotary Rising Stage is commonly designed so that it also can extend to stage level, providing added stage area when an orchestra is not used.

Other uses of the Rotary Rising Stage are limited only by the imagination. For spectacularly dramatic effects, several Rotary Rising Stages may be recessed into the stage surface to bring sets and performers majestically into view and carry them above stage level in stairstep arrangements. In such an installation, the Rising Stages may be operated individually or locked together to provide one big unit capable of lifting large sets or many performers.

SIZES AND CAPACITIES

There are practically no limitations on sizes and capacities of Rotary Rising Stages. They are ideal for use as simple organ console lifts or in installations where an entire stage rises to varying elevations for creation of spectacularly dramatic effects. One or any number of oil-hydraulic cylinders may be used, depending upon the individual requirements.

SMOOTH, QUIET, DEPENDABLE OPERATION

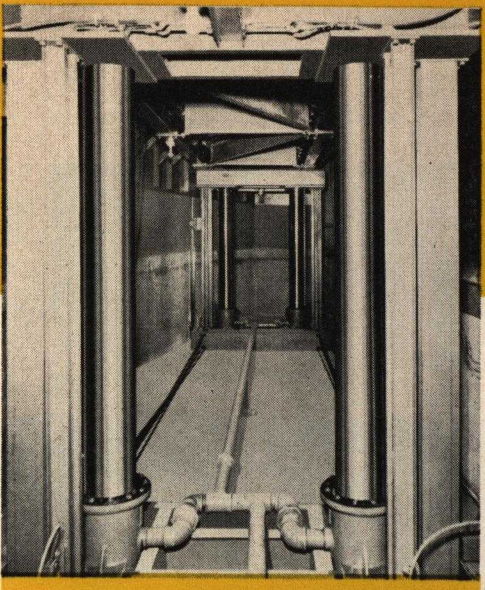
The Oildraulic principle, used successfully by Rotary Lift Co. in thousands of elevators and industrial lifts, provides dependable, efficient operation. Pushbutton controls, located wherever convenient, actuate an electric pumping unit which raises and lowers the Rising Stage. The unit moves smoothly and quietly on its oil-hydraulic piston. Elevator-type guide shoes and rails provide positive stability. Installations requiring more than one piston are designed with a mechanical equalizing mechanism that assures synchronized travel of all pistons, and a level platform regardless of position of load.

ECONOMICAL TO INSTALL AND OPERATE

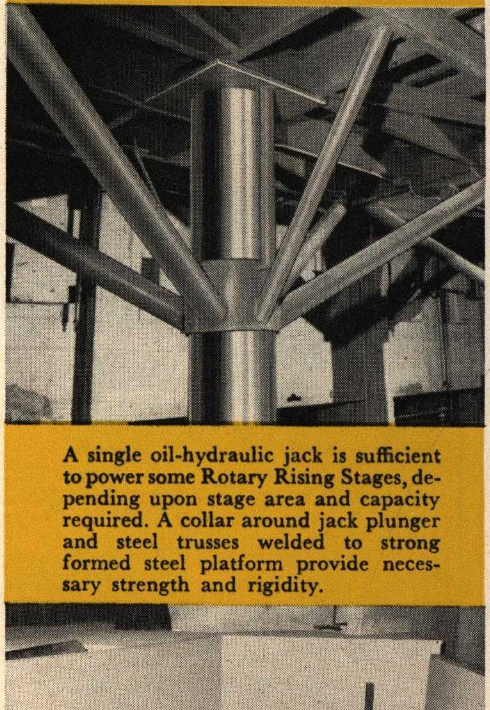
The pit required for a Rotary Rising Stage is uncomplicated in design and construction. Installation of the stage itself is more economical than any other type of stage lift due to the simplicity of the equipment and advanced design developed through many years of experience in engineering Rotary Rising Stages for many uses. The unit requires practically no maintenance.

DESIGN, ENGINEERING AND INSTALLATION SERVICE

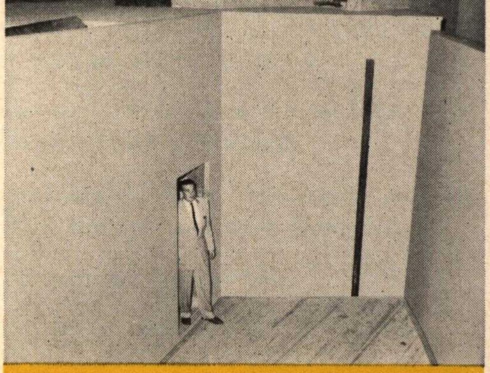
All Rotary Rising Stages are engineered to the specific requirements of the installation. Expert layout and specification assistance is available on request. Installation service is provided by a nation-wide organization of independent contractors with many years of experience with oil-hydraulic elevating devices of all types.



Pit view of Rising Stage in Charlotte, N. C., Auditorium-Coliseum shows rugged under-platform construction with four oil-hydraulic jacks. Guide shoes and rails assure smooth travel; cable equalizing system keeps platform level at all times, regardless of load.



A single oil-hydraulic jack is sufficient to power some Rotary Rising Stages, depending upon stage area and capacity required. A collar around jack plunger and steel trusses welded to strong formed steel platform provide necessary strength and rigidity.

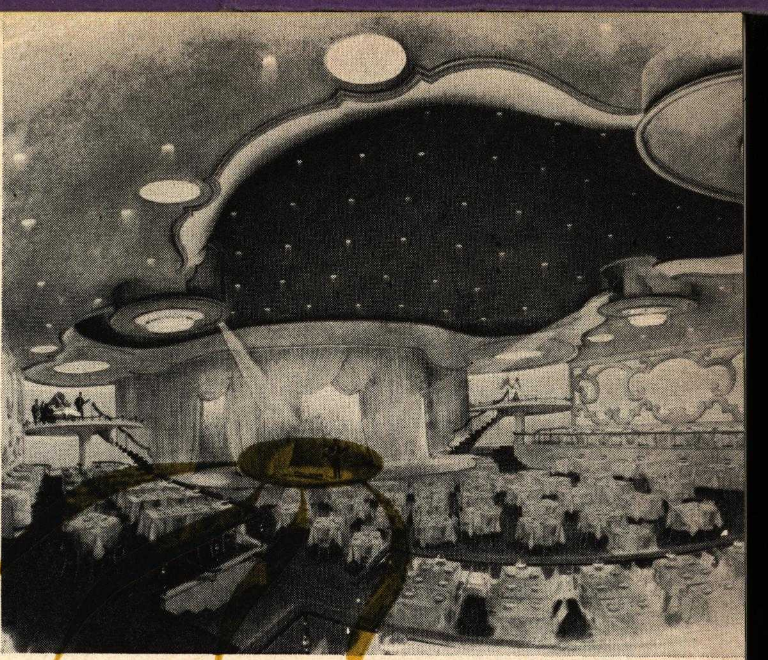


Rising Stage at basement level, showing doorway providing access for entertainers, out of view of audience. Stage area can be almost any size and shape. Power unit and controls can be located in any convenient place. Operation is extremely economical.

Rotary RISING STAGES

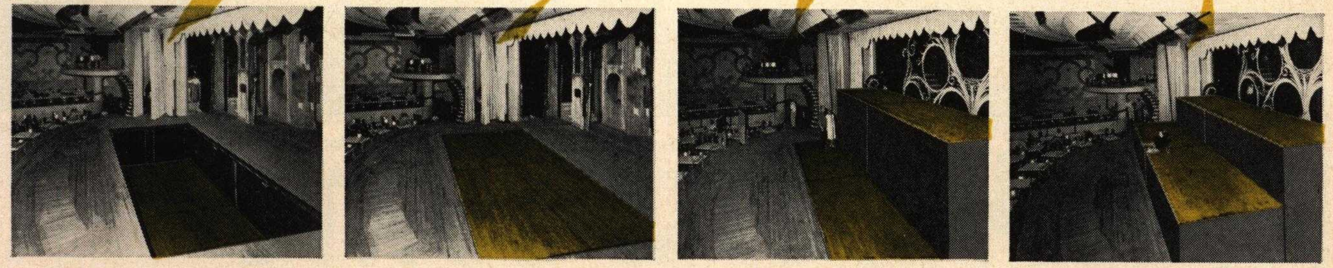
. . . create "The most advanced theater stage in the American entertainment world"

Utilizing six Rotary Rising Stages, designers of the Cafe Continental of Las Vegas' new Stardust Hotel made possible an infinite variety of spectacular theatrical effects. Ascending from basement level with performers and colorful sets, these Rotary Rising Stages can be operated independently and stopped at various levels to create majestic stair-step effects above the surrounding stage area. Four 7½′ x 15′ Rising Stages in one cluster can be locked together automatically to move as a single 15′ x 30′ unit. Similarly, two 15′ square Rising Stages rise independently or in unison. An important feature of these Rising Stages is the absolute quiet which distinguishes their operation. They glide smoothly up and down in absolute silence, creating an atmosphere of mystery and glamor.



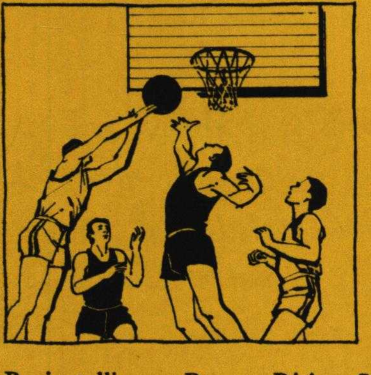
Interiors of Cafe Continental designed by Office of Jac Lessman, New York City.

STARDUST HOTEL in Las Vegas, world's largest resort hotel, features a dining room-theater equipped with six Rotary Rising Stages.

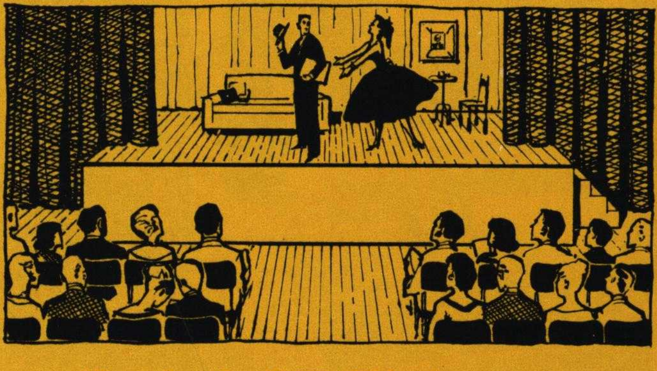


Cluster of four Rising Stages in Stardust Hotel shown at various levels.

Rotary Rising Stages for multi-purpose school buildings



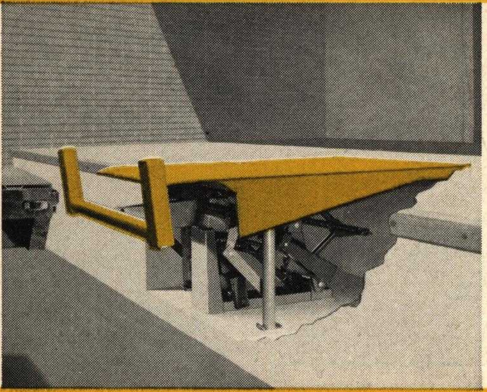
Gym in
the afternoon
- - - converts to
auditorium
by night



By installing a Rotary Rising Stage in one end of a school gymnasium or cafeteria, the room can be converted easily and quickly into an auditorium. Normally, the Rising Stage rests on concrete bumpers and is absolutely flush with the floor. To convert the room into an assembly hall or auditorium, it is raised the desired height, curtains are released from housings and portable seating placed. The Rising Stage is completely safe with tamper-proof controls and operating mechanism. It provides the most economical solution to the problem of providing auditorium facilities on a restricted budget in today's schools. Where budget is no problem, the Rotary Rising Stage is a worthwhile extra feature, adding to building flexibility.

Ask your Rotary Lift representative for additional information

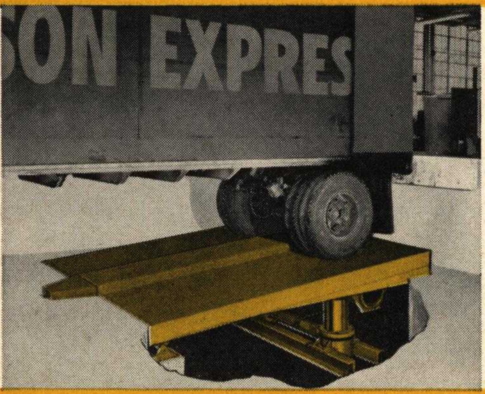
Loading dock equipment and industrial lifts



Automatic dock ramp

Truck-actuated, completely automatic ramp

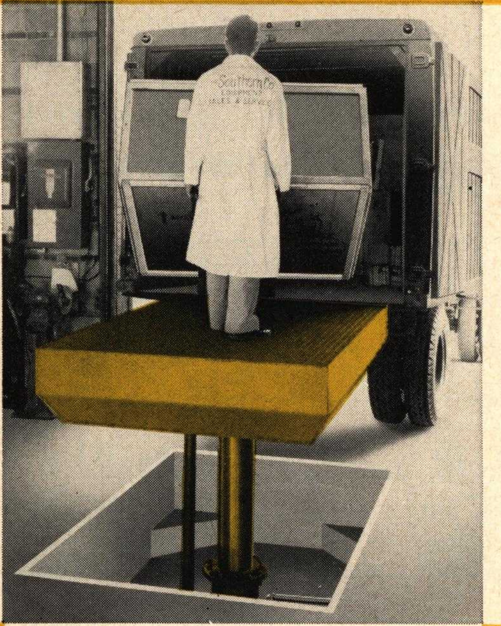
This all-new ramp positions automatically to bridge the gap between dock and truck bed for faster loading and unloading . . . with complete safety. It is powered by the pressure of the truck bed on the ramp bumpers, employing an exclusive spring compensator for smooth, controlled action. Has automatic safety lock, self-aligning bumper and other exclusive features. Easily installed at new or existing docks. Requires no maintenance. Write for catalog RE-404.



Truck leveler

Raises or lowers trailer to dock level

Recessed into the pavement in front of the loading dock, the Rotary Truck Leveler eliminates the need for ramps and dockboards and saves the space they require. Dual oil-hydraulic jacks with 40,000 lbs. capacity raise or lower the truck or trailer to bring the bed level with the loading dock, permitting materials handling equipment to move in and out with maximum speed and safety. Easily installed at new or existing docks. Dependable, economical maintenance-free operation. Write for Catalog RE-800-A.



Levelator® lifts

These simple, rugged platform lifts are used for a variety of purposes . . . loading carriers from plant floor level, feeding machines, bridging stepped floor levels, and lifting and lowering heavy loads in many other ways. Operation is by economical, dependable Oildraulic power. Available in standard models and special lifts in almost any size and capacity. Write for Catalog RE-203.

A complete description of the above equipment and other Rotary Oildraulic devices for materials handling is cataloged under 16*B*/*Ro in the Industrial Construction File.*

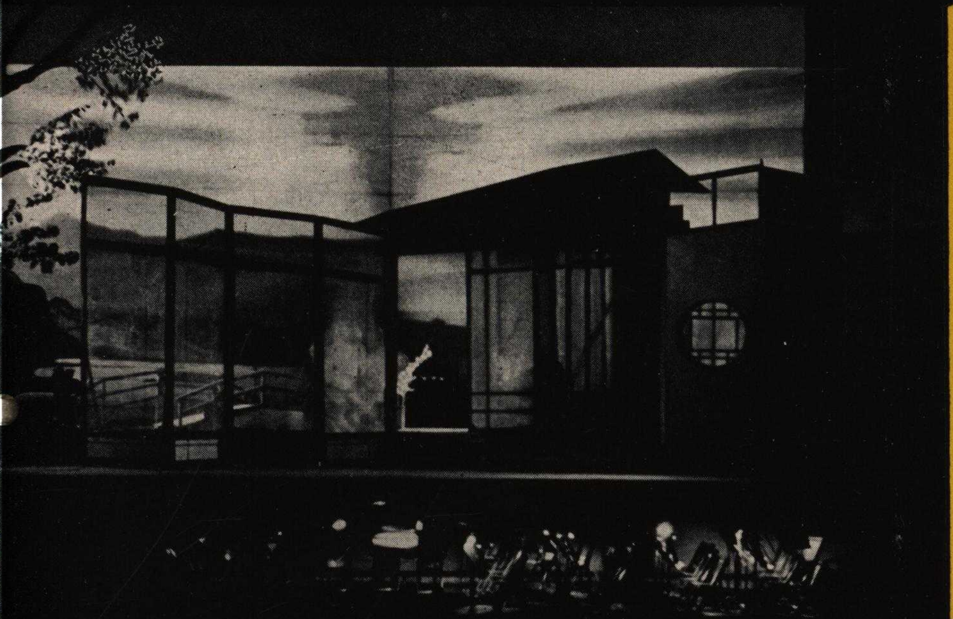
Rotary Oildraulic Equipment is sold, installed and serviced by a nationwide distributor organization working closely with Rotary Lift Company factory engineers.

For information on Rotary Oildraulic Elevators (Passenger and Freight) see 24a/Ro in the Architectural File or 16c/Ro in the Industrial Construction File.

Rotary®

ROTARY LIFT CO., *Division of Dover Corporation*
1053-A Kentucky, Memphis 2, Tenn. - Chatham, Ontario

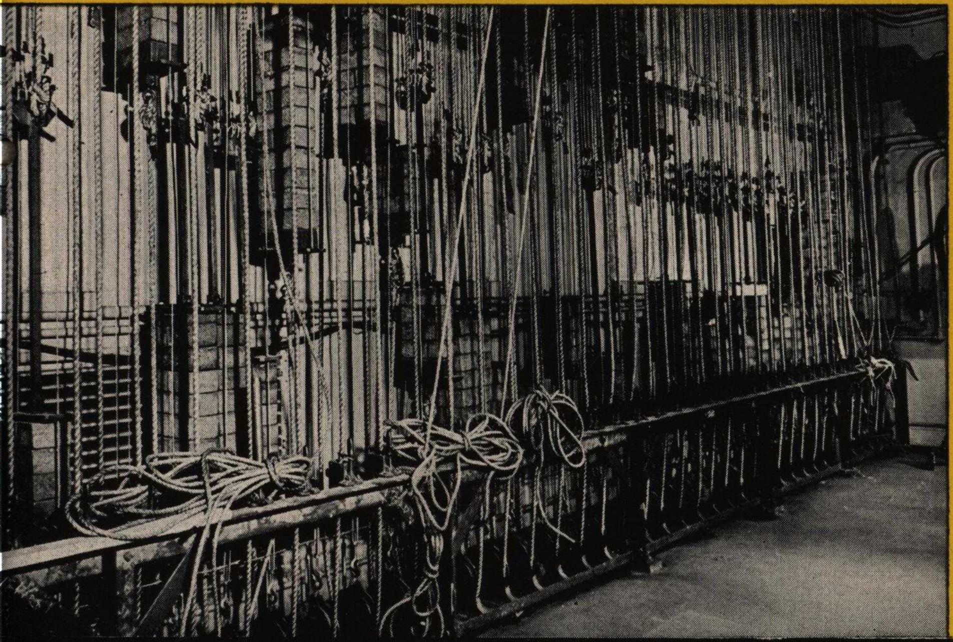
Affiliated with Shepard Elevator Co., Division of Dover Corporation.



complete

STAGE & TELEVISION

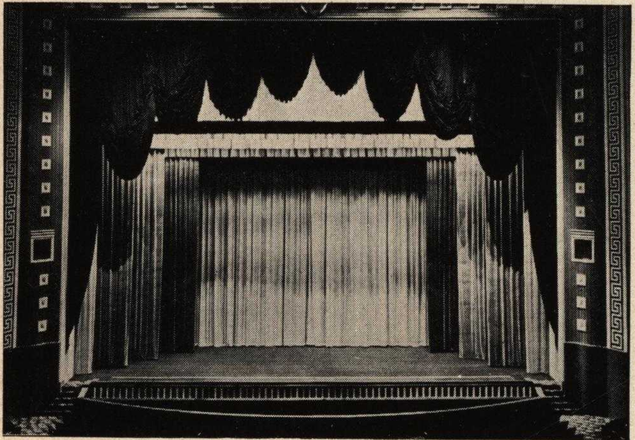
studio
equipment



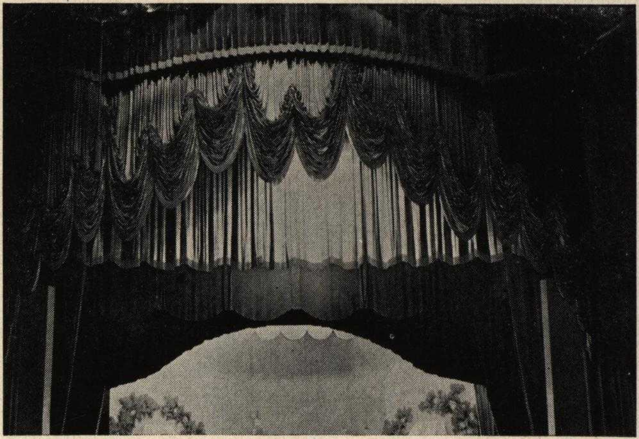
JOSEPH VASCONCELLOS, INC.

successor to PETER CLARK, INC.
West Babylon, N.Y., P.O. Box 1035
Burbank, California, 4021 W. Burbank Blvd.

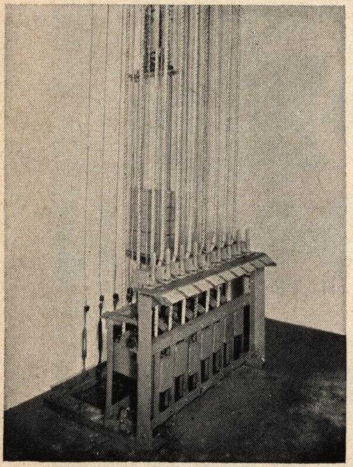
DESCRIPTION OF SOME TYPICAL VASCONCELLOS EQUIPMENT



Variable Contour Curtain rigging in El Roble Theatre, Mexico, D. F.



Fixed Contour Curtain rigging in Roxy Theatre, N. Y. C.



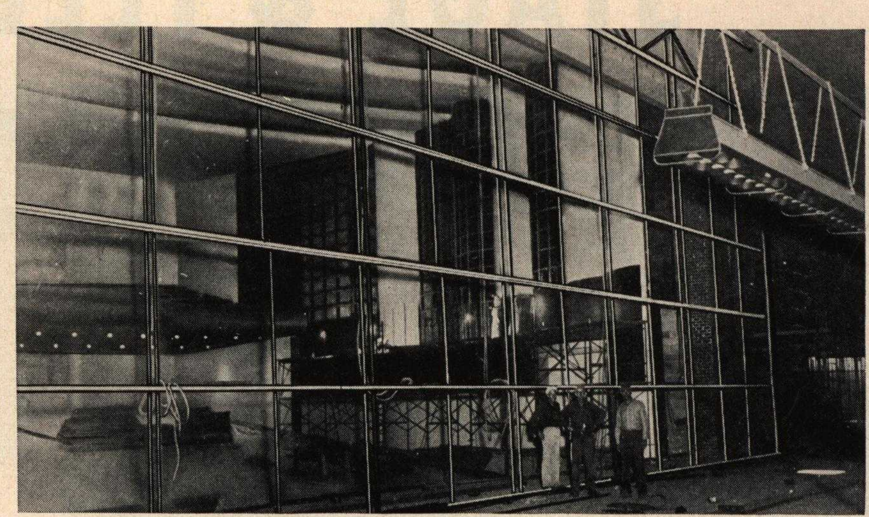
Close Up of Wire Guide Counterweight System with Locking Rail.

Contour Curtains

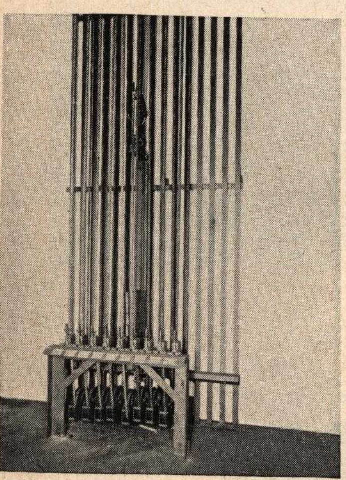
The modern way of rigging the front drapery. Its rich, versatile effects make it a "must" for the properly equipped stage.

It combines both vertical and horizontal movement in a wide variety of shapes and effects, from a single act tableau to a full opening.

Available in both pre-set type with complete remote control of shape and in the more economical fixed-shape type where size only is remotely controlled.



Rigid Asbestos Curtain, before covering, weighs 5½ tons and measures 70 ft. by 40 ft., installed at the E. C. Glass High School, Lynchburg, Virginia.



Close Up of Tee Track Counterweight System with Locking Rail.

Asbestos Curtains

We have designed, manufactured, and installed a wide variety of protective curtains in all practical combinations of the following types:

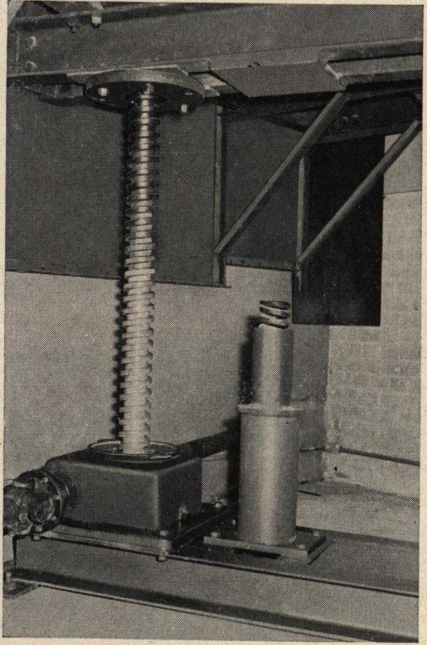
Single thickness asbestos, double-faced asbestos on rigid frame, and double-faced asbestos with steel core;

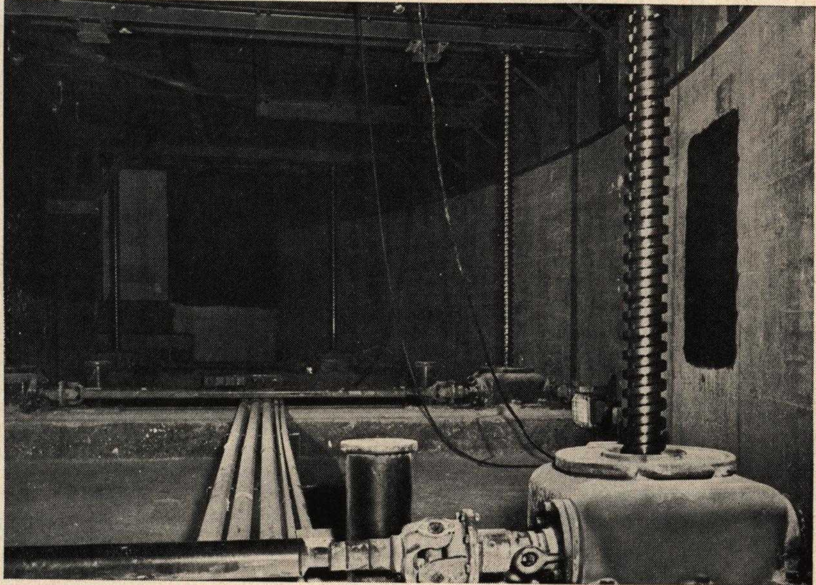
Straight lift, double-leaf, roll-up, and shirred types;

Manually operated, motor operated, or hydraulically operated.

All protective curtains are provided with an emergency release device of an approved type and are designed to comply with the applicable local code.

FOR THEATRES, STAGES, AUDITORIUMS





▲ View of Orchestra Lift pit—Lift in high position.
◀ View of section of orchestra lift pit-lift in low position.

Orchestra and Stage Elevators

Most commonly used as a pit elevator for musicians, the orchestra elevator is being used by present-day designers as a forestage extension at stage level, as a terraced forestage, or as an auditorium floor extension when additional seating is required.

Stage elevators, in single or multiple units, make possible many stage effects both above and below stage level; and also may serve as scenery and property elevators between scenes.

While we have designed, manufactured, and installed orchestra and stage elevators of many types, we usually recommend the jack screw type for mechanical reliability and low maintenance requirements.

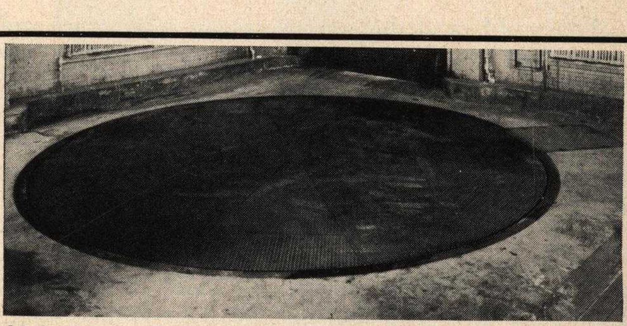
We also manufacture platform elevators for various industrial and special applications.

All of our elevators are designed to conform to applicable state and local code requirements.

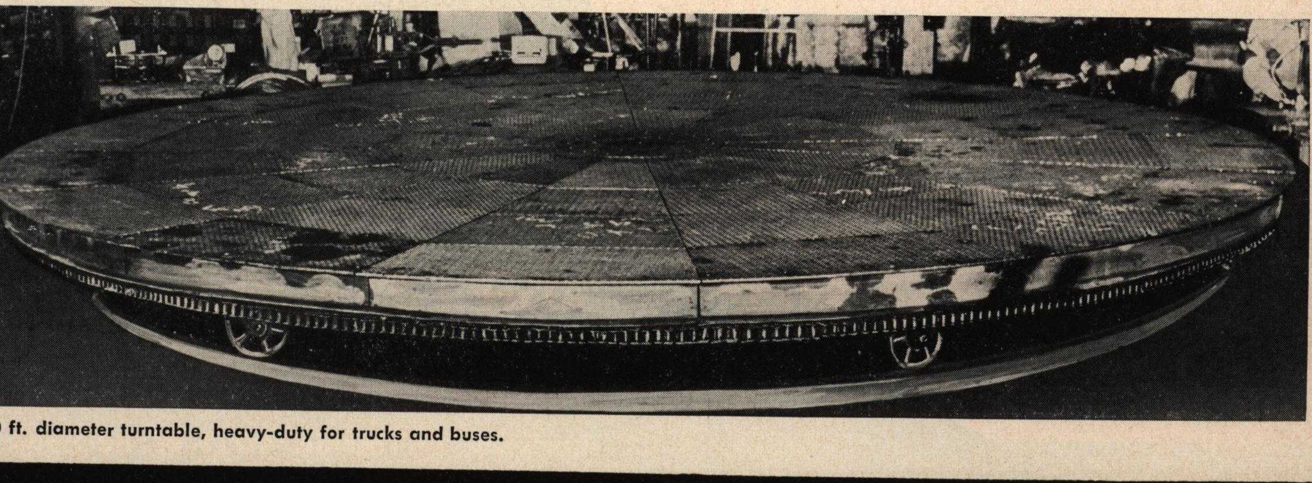
Turntables

We have designed, manufactured and installed turntables for many different applications, such as: display, stage, television studio, dance floor, vehicular, and industrial uses.

Each turntable was designed to suit its particular use and combined such features as: wood, steel or concrete slab platforms; constant or adjustable speeds; cyclic operation; current collectors, etc.



20 ft. diameter Bank turntable for Armored trucks, Federal Reserve Bank, Baltimore, Md.



40 ft. diameter turntable, heavy-duty for trucks and buses.

Desirability of Complete Service

JOSEPH VASCONCELLOS, INC. is the only organization in its field offering *complete* service—it both manufactures and installs required equipment. By maintaining complete control from the selection of raw materials to the installation of the finished equipment we eliminate the difficulties that arise from divided responsibility. A familiarity with field conditions, equipment built specifically for the job, installation by specialists, and a jealously guarded reputation for reliability, combine to guarantee satisfaction.

Wide Engineering and Erecting Experience

The problem of the proper designing of stages and equipment should be studied in the early sketch stage. Important savings in the cost and satisfactory stage operation can very often be assured if considered when the contract drawings are being developed. Having met the diverse requirements of stage, radio, television, and display fields, the personnel of Joseph Vasconcellos, Inc. has obtained unmatched experience, in every department. This experience is available to architects, engineers and builders in the development of designs and specifications to meet their requirements. Your inquiries are invited.

Catalog upon Request.

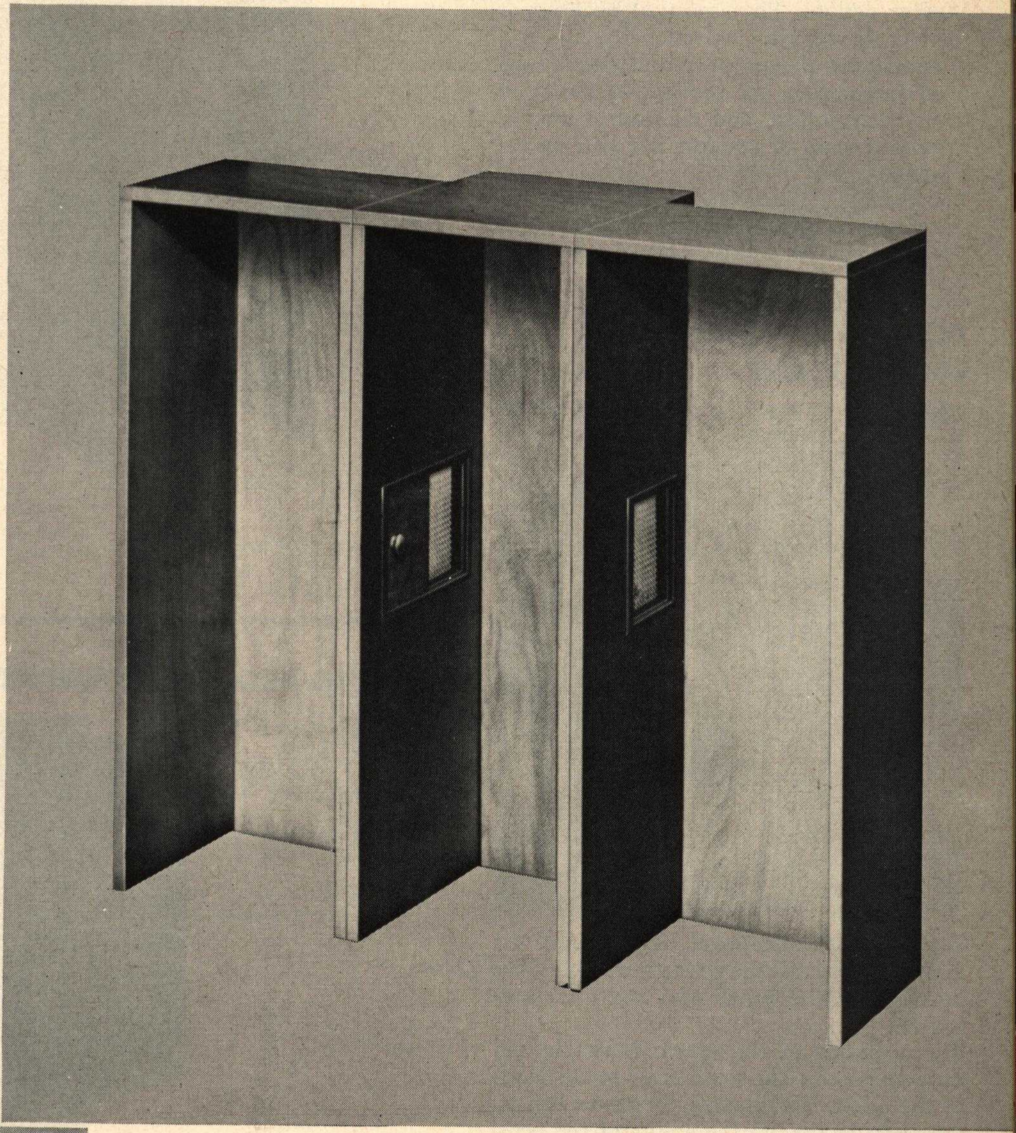
JOSEPH VASCONCELLOS, INC.

successor to PETER CLARK, INC.

West Babylon, N. Y., P.O. Box 1035

Burbank, California, 4021 W. Burbank Blvd.

for greater
CONFESSIONAL PRIVACY



DONALD

Acousti-Confessional

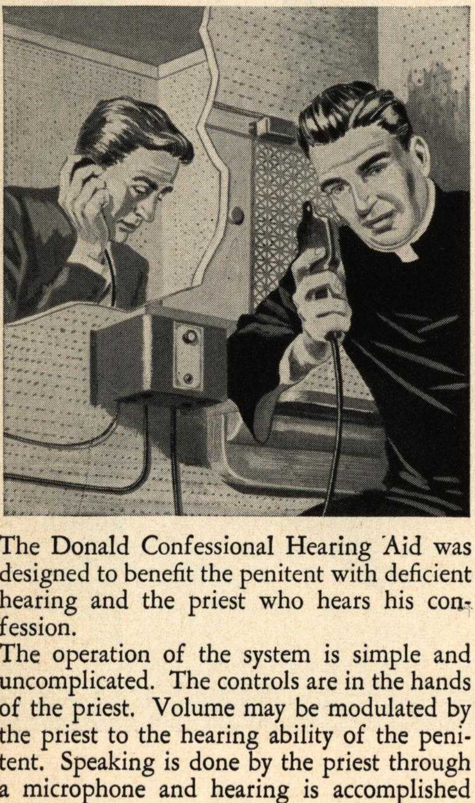
PERMANENT • MOBILE

J. R. DONALD CO. 620 N. 108th PLACE • MILWAUKEE 13, WIS.

The Donald Acousti-Confessional is the result of the study and work of outstanding acoustical engineers and the cooperation of Catholic clergy to provide a Confessional which is completely acoustic, practical and of efficient design. The acoustical qualities of the Donald Acousti-Confessional reduce to a minimum the danger of a confession being overheard beyond the confines of the Penitent's compartment, and the hushed interior imparts a sense of comfort and ease in the Penitent.

The Donald Acousti-Confessional, in either permanent or mobile model, is highly attractive, of the finest workmanship, durable, and intended to give lasting service.

DONALD CONFESSIONAL HEARING AID



The Donald Confessional Hearing Aid was designed to benefit the penitent with deficient hearing and the priest who hears his confession.

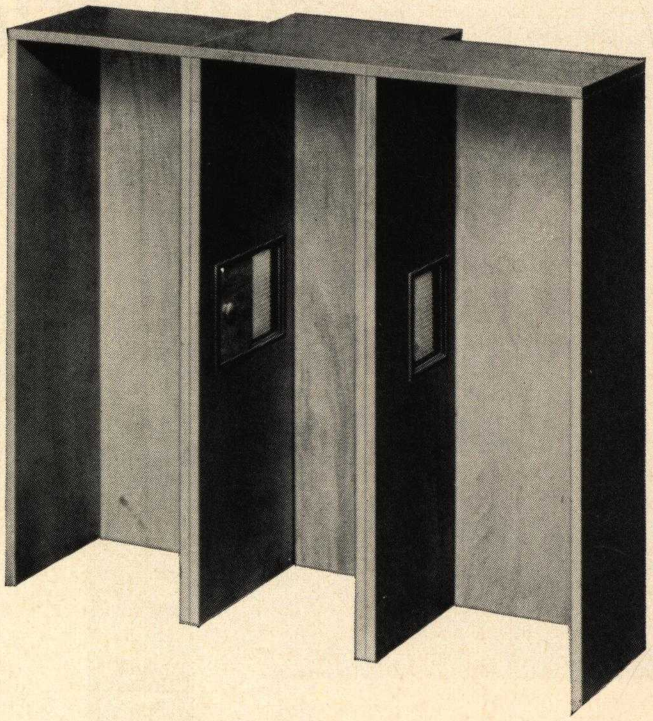
The operation of the system is simple and uncomplicated. The controls are in the hands of the priest. Volume may be modulated by the priest to the hearing ability of the penitent. Speaking is done by the priest through a microphone and hearing is accomplished by the penitent through a receiver which is suitably placed in the penitent's compartment and illuminated so that it may be clearly seen and readily available.

The Donald Confessional Hearing Aid was designed by a parish priest. It is a safe-guard against audibility beyond the confines of the confessional and reduces fatigue for the priest. It is easily installed.

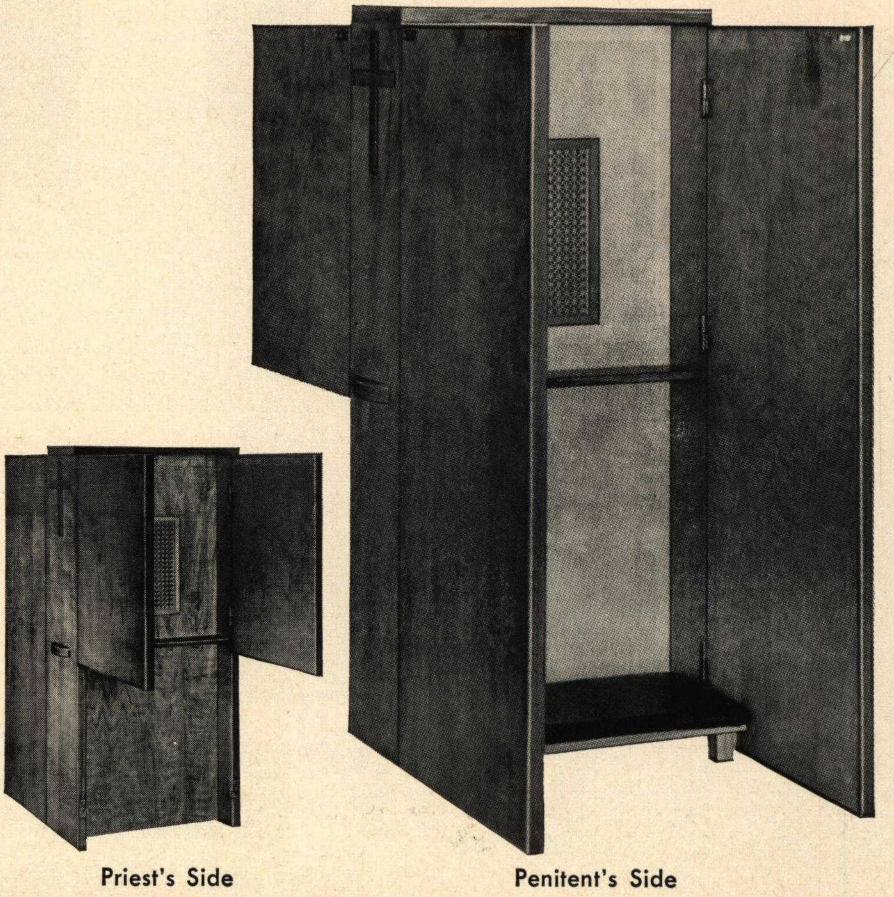
Specifications

115 Volts—25-60 Cycle. Power consumption less than 10 watts. No shock hazards. High gain amplification. Brown hammertone finish. All controls in hands of the priest.

PERMANENT ACOUSTI-CONFESSIONAL



MOBILE-ACOUSTI-CONFESSIONAL



Priest's Side

Penitent's Side

Acousti-Confessional

Model 801 DONALD PERMANENT Acousti-Confessional

For the Confessor, the Model 801 Donald Acousti-Confessional minimizes fatigue ordinarily attendant upon long hours in the Confessor's compartment. The acoustics decrease to a minimum the possibility of the Confession being overheard.

MATERIALS Model 801 is composed of twelve Donald Acousti-Panels and two Donald Grilles. Each panel consists of a solid outside panel and perforated inside panel enclosing a thick blanket of sound-absorbent material. The grilles each embody a thin translucent fabric which acts as a hygienic barrier against unpleasant odors and breath.

FINISH The 801 Donald Acousti-Confessional comes in a smoothly sanded natural birch finish ready for waxing or other fine finish.

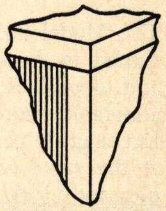
ADAPTABLE Panel dimensions have been selected to permit at least two alternative arrangements shown in the assembly combinations. Panel sizes may be adjusted to fit special conditions by trimming the solid edges or cutting through the panel wherever desired, without reducing the acoustical quality of the installation.

SINGLE CONFESSIONAL requirements may be met by reducing the number of panels to eight and one grille.

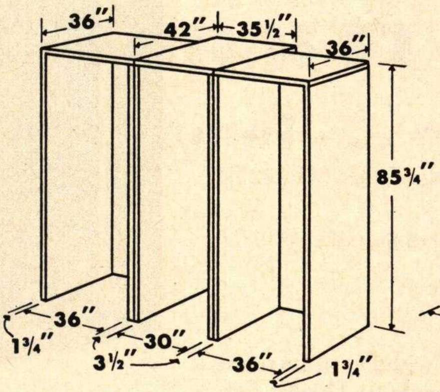
EXISTING CONFESSIONALS may be converted to give proper Confessional privacy with Donald Acousti-Panels. The panels are readily attachable to existing walls and ceilings by simply following the complete installation instructions packed with each panel.

Sizes and Assembly Combinations

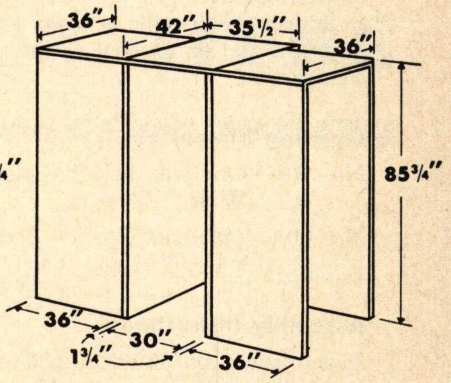
The Model 801 Donald Acousti-Confessional may be assembled with the penitent's compartments having entrances on the end or on the side shown here. The wall and ceiling panels are provided with solid wood edges which permit trimming as follows: a maximum of 1½″ on the sides and top, 4″ on the base of wall panels, 3″ on the edges of ceiling panel. All Model 801 Confessionals are shipped K.D. Complete assembly instructions are shipped with every confessional.



Top panel caps side panel as shown



Confessional with all entrances at the front.



Confessional with penitent's entrances on the end.

Model 702 DONALD MOBILE Acousti-Confessional

The multi-purpose Model 702 Donald Mobile Acousti-Confessional combines comfort, privacy and attractiveness, to give a practical answer to confessional problems in small as well as large parishes. In large parishes the Donald Mobile Acousti-Confessional may be used as an auxiliary unit to meet the problem of crowded Confessional facilities. In smaller churches or chapels it may be used not only as a mobile unit but as a permanent Confessional. It is also well suited for use in convents, monasteries, schools, hospitals, military establishments and other institutions.

DESIGN The sound-absorbent Donald Acousti-Panel components afford greater Confessional privacy than many conventional permanent confessionals. The open construction provides adequate fresh air and light for the comfort of both priest and penitent, but, nevertheless, maintains the privacy and seclusion which is so essential to the proper administration of the Sacrament of Penance.

PORTABLE The Donald Mobile Acousti-Confessional may be moved from one place to another without difficulty. One person can push the Confessional into place and two people can carry it with minimum effort.

FINISH The Confessional has a beautiful exterior finish of light walnut which harmonizes with any church interior. The interior is finished in natural birchwood. Other finishes are available on special order at slight additional cost.

COMPACT The Model 702 Donald Mobile Acousti-Confessional is compact, portable and easy to store. When closed the overall dimensions are 17¾″ x 28¾″ x 62″ high, which provides for ease of storage and economy of space.

Sizes and Assembly Combinations

FIGURE 1—standard arrangement, full length panels form the penitent's compartment; half-length panels form the confessor's compartment.

FIGURE 2—full-length panel on each compartment; this provides greatest privacy for both priest and penitent.

FIGURE 3—a corner installation for complete privacy; half panels are optional because the church walls provide adequate seclusion.

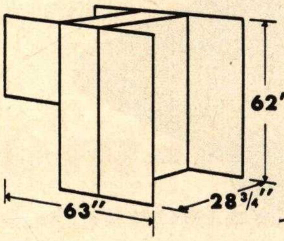


Fig. 1

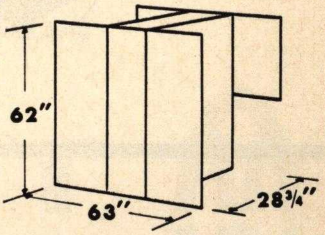
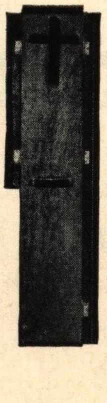


Fig. 2



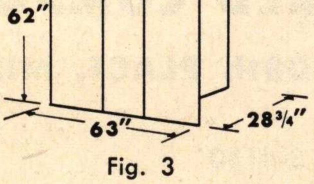
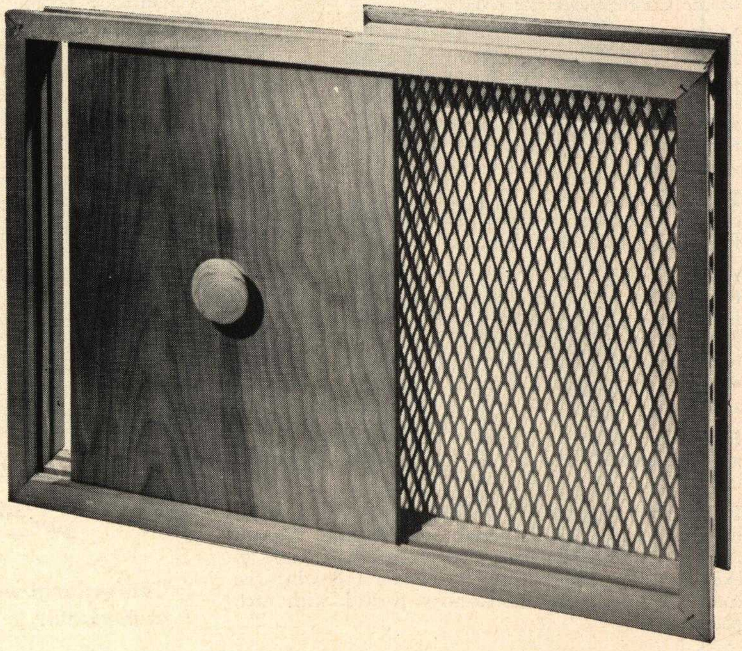


Fig. 3

DONALD CONFESSIONAL GRILLE

The Model 901 Donald Confessional Grille was designed to complement Donald Acousti-Confessional and to provide additional Confessional privacy. It is adaptable, moreover, to any Confessional. The translucent grille permits unimpeded passage of sound and at the same time acts as a hygienic barrier to unpleasant odors.

The Model 901 Donald Confessional Grille is made up of two protective metal screens, attractively perforated and finished, and separated by a thin fabric barrier. Grooves provide free and easy action of the slide door. The grille is easily assembled for use in any type of Confessional facility, regardless of wall construction.



Opening Dimensions

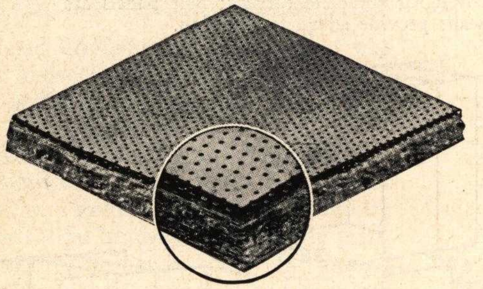
No. 901—One Side 11½″ Wide, Other Side 22⅞″ Wide.

No. 902 (Without Door)—Both Sides 11½″ Wide x 15½″ High.

Assembly Instructions

In permanent confessionals lined with Donald Acousti-Panels the two halves of the Model 901 Donald Confessional Grille are separated and installed per instructions shipped with grille. In existing confessionals the method is the same, except thinner partitions will require a filler on the grille in the penitent compartment. The Model 901 Donald Confessional Grille is unfinished to permit filling of individual requirements in finishing.

DONALD ACOUSTI-PANEL



In addition to being components of Donald Acousti-Confessional, Donald Acousti-Panels may be utilized and adapted to a great variety of conditions and circumstances requiring acoustical treatment.

Wherever circumstances require, Donald Acousti-Panels may be reduced in size by trimming or cutting without adversely affecting their acoustical efficiency. The panels, however, come in a number of convenient sizes which have been found to be ideal as standards.

Standard Sizes

24″ x 84″ x 1¾″
30″ x 84″ x 1¾″
36″ x 42″ x 1¾″
36″ x 48″ x 1¾″
36″ x 84″ x 1¾″
42″ x 84″ x 1¾″
48″ x 84″ x 1¾″

J. R. DONALD COMPANY

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Phone: GLENVIEW 3-4150

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THE STORY OF . . .

GARNETT
CHURCH FURNITURE
traditional . . . contemporary

Garnett offers a complete line of church furnishings built to rigid standards of quality and workmanship. In designing and manufacturing church furniture since 1879, Garnett has acquired unique experience in helping to solve the special problems facing church builders.

When you specify GARNETT you can be sure you have selected the finest church furniture, whatever your price range.

custom-crafted
for the most discriminating

GARNETT
CHURCH FURNITURE AND MANUFACTURING CO.
GARNETT • KANSAS

AIA No. 35-A-41

GARNETT PEWS

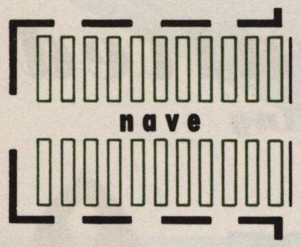
styling unlimited • quality unsurpassed

Church of the Gesu, University Heights, Ohio, John E. Miller, Architect, Cleveland, Ohio

Church seating involves more than comfort and convenience for the congregation. The style and quality of the pews contribute to the beauty of the structure as a whole, with the converging rows also helping to bring the focus upon the worship center.

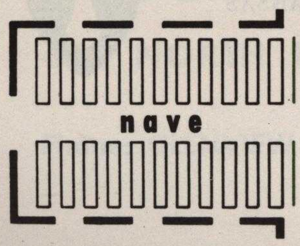
Technically, a pew is made up of two ends, a pew body, its center supports, and in certain cases, divisions. The styling and the quality of construction blend to make the finest church furniture. At Garnett, *you* determine the styling of every part of the pew. *Garnett* supplies quality craftsmanship in every construction detail.

PLAN YOUR PEW SPACING

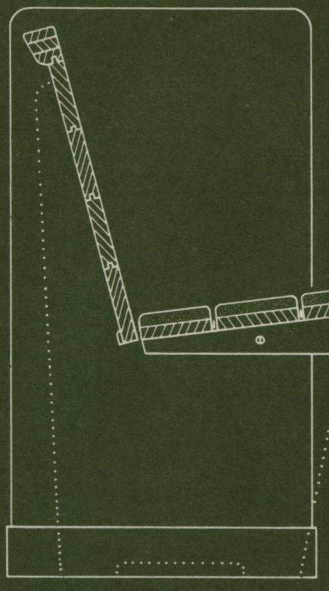


In sectarian churches, the pews should be spaced 34″ apart, from one pew back to the next pew back. In liturgical churches, where the faithful kneel for prayers, the spacing may be increased to 36″, and in this case, kneelers should be planned as a part of the pew. *For convenience in planning and laying out pew arrangements, Garnett can supply you with a special pew spacing scale upon request.*

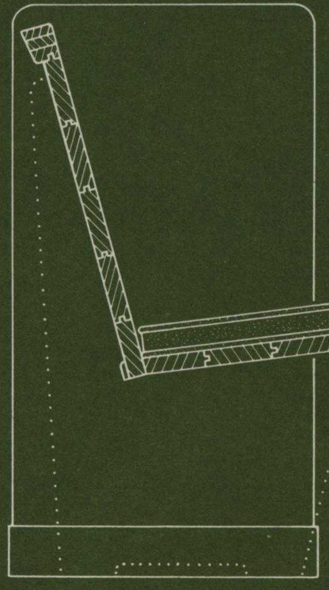
THE PEW SCREEN



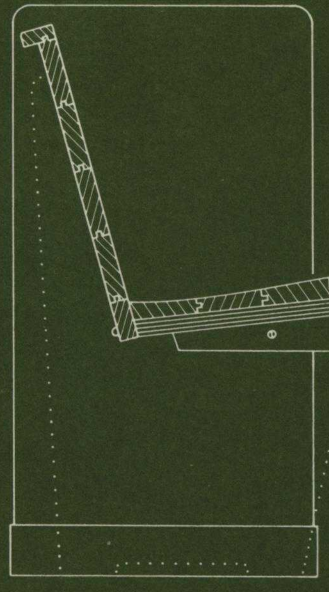
A pew screen (sometimes called a pew front) should be located in front of the first row of pews, its center 36″ to 42″ forward of the first pew back, its height equal to the height of the pew backs. Garnett pew screens are custom-crafted to match your pews in quality and styling.



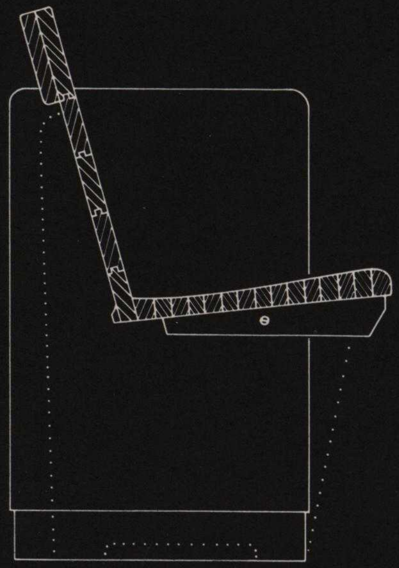
Pew Body No. 58



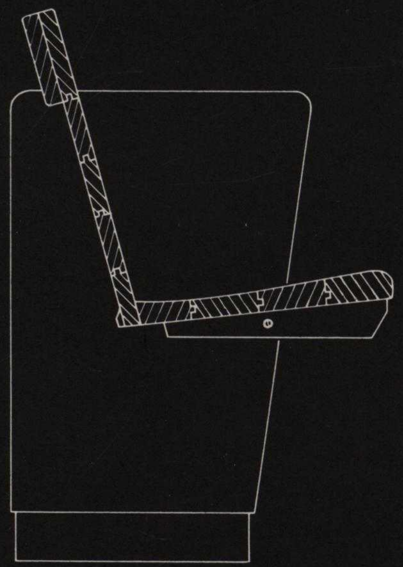
Pew Body No. 605



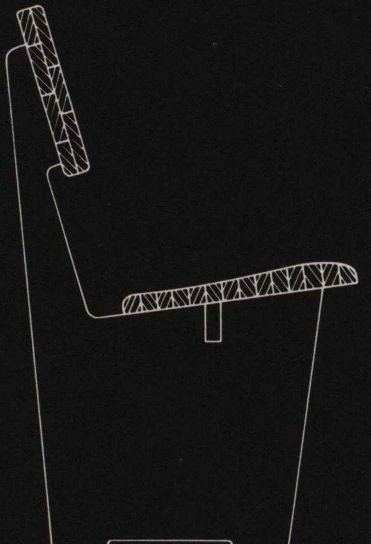
Pew Body No. 30



Pew Body No. 40



Pew Body No. 590

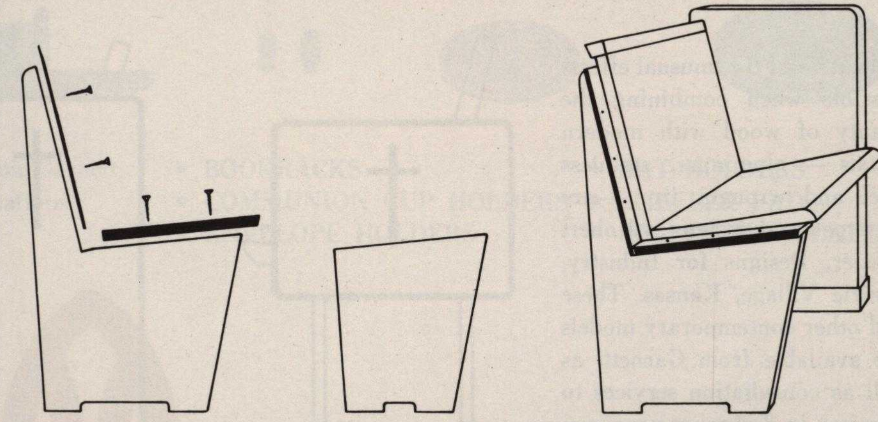


Pew Body No. 591

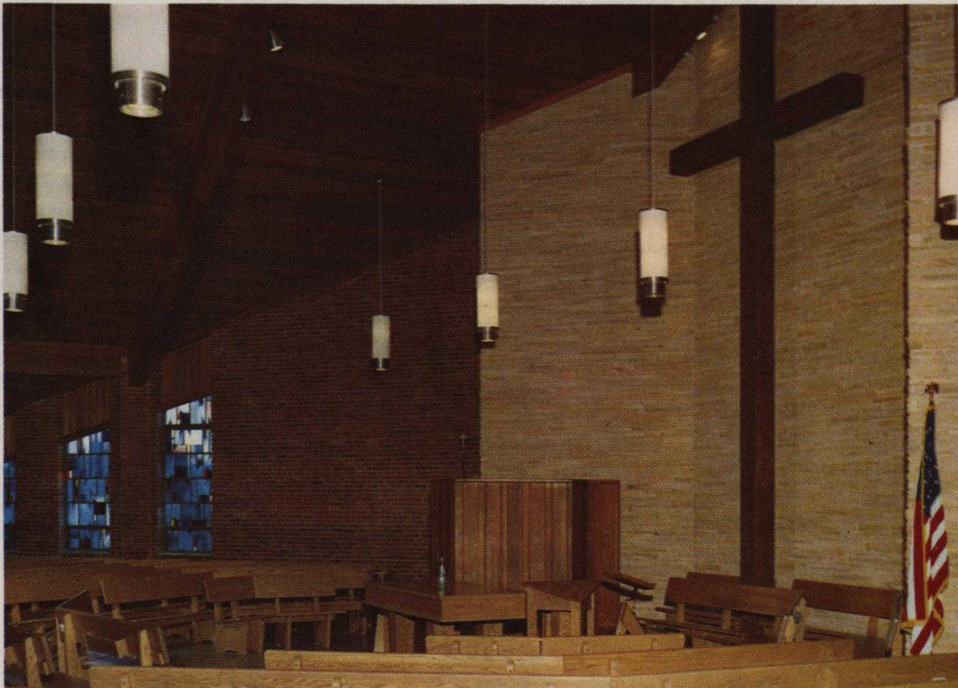
CREATE YOUR OWN PEW BODY

Let your theme determine the styling of a pew body best suited to your needs. Whatever that styling, Garnett can supply it. For example, the illustrations show a few of the most popular types, including pew bodies with strip seats or flat grain seats, and those with wide or narrow cap rails. The dimensions for these pew bodies were based on ideals of practicality and comfort, with the backs usually 32″-33″ from the floor to the top of the cap rail, and pitched from 4½″ to 5½″. The seats have a depth of 15″, rising 17″ from the floor to the front nose of the seat.

UNIQUE METHOD OF SUPPORT



Pews up to 14′ long are constructed without divisions. Longer pews, if necessary in your plans, have additional support in Garnett's unique blind division method, with sturdy cleats blind-screwed into seat and back — a simple, yet absolutely rigid construction allowing clear seating throughout the length of the pew.



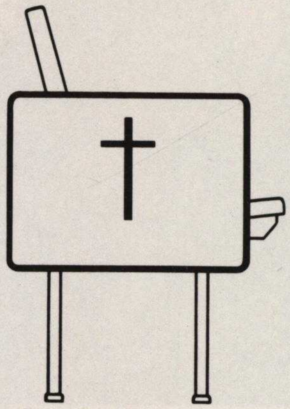
Trinity Presbyterian Church, Topeka, Kansas, Brown & Slemmons, Architects, Topeka, Kansas

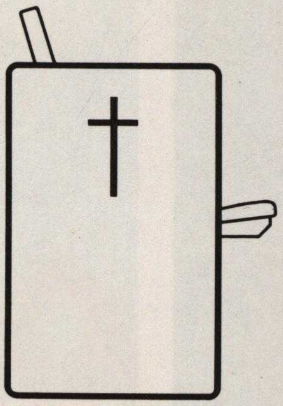
The quoted price on Garnett Church Furniture includes transportation and installation charges. Pews will be delivered in Garnett's own trucks and installed by Garnett's trained personnel.

ADD PEW ENDS OF YOUR OWN DESIGN

Design your pew ends to carry out the desired effect, assured that Garnett can translate your creation into the finest of furniture. As the sample illustrations indicate, we are experienced with all types of pew ends, from the best of the traditional to the newest of the contemporary — including styles utilizing the beauty of modern metals. Whatever style you specify, you can be sure of enduring craftsmanship, in 2¼″ three-ply ends framed from ¾″ solid pieces, with the center pieces frame-crossbanded to insure against warpage. The ends will be routed with a dovetail bit to fit tightly to the pew body. The cap rail of the pew body will be routed into the ends for maximum back support. Plying of the ends will be accomplished with Urea-Resin glues, insuring great strength and enduring beauty, free from the darkening often encountered as inferior glues age.

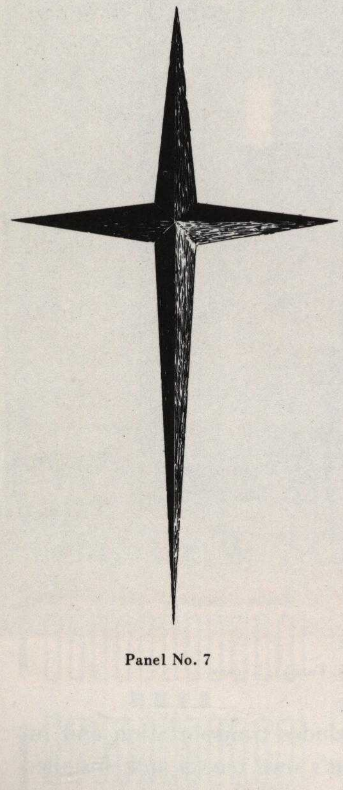
Indicative of the unusual effects possible when combining the beauty of wood with modern metals — aluminum, stainless steel and wrought iron — are these pew end designs by Robert Bessier, Designs for Industry, Prairie Village, Kansas. These and other contemporary models are available from Garnett, as well as consultation services to help you in designing your own Wood With Metal pew ends.


Pew End No. 5901


Pew End No. 5906

ADD YOUR OWN INDIVIDUAL TOUCHES

In specifying Garnett, you are free to individualize your pews with your choice of cap mouldings, edge mouldings, panel carvings and bas relief details. The panel motifs illustrated are only a few of the many you might consider. *For your convenience, Garnett maintains a complete file of symbols appropriate to every denomination. We welcome the opportunity to help you select exactly the right symbolic elements for all your church furnishings.*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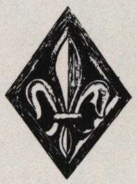
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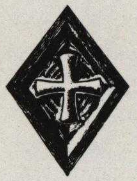
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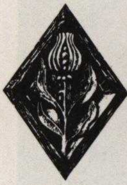
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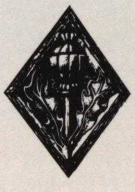
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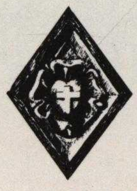
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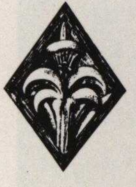
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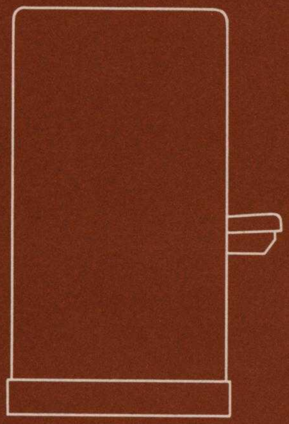
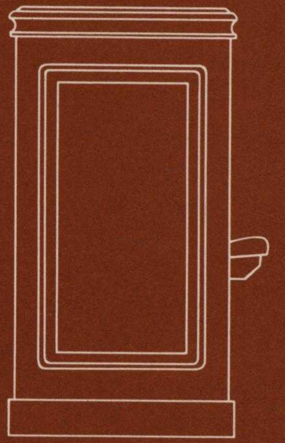

Pew End No. 9548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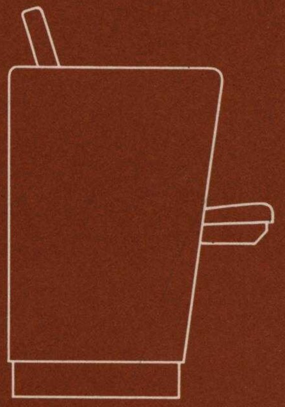
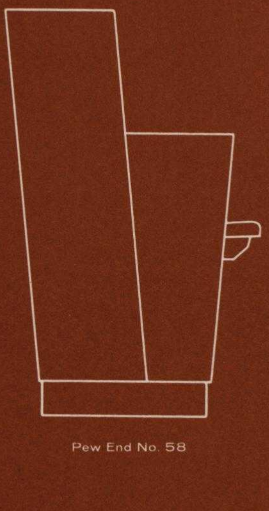
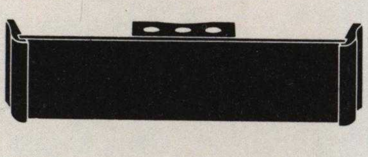
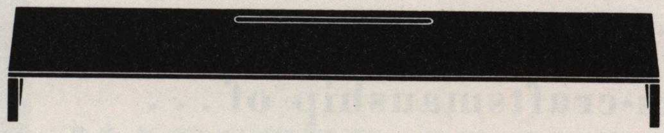
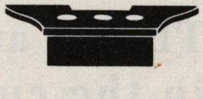
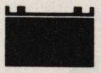
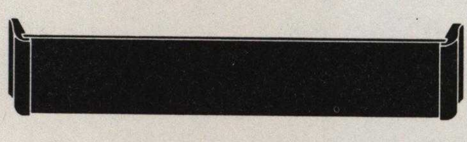
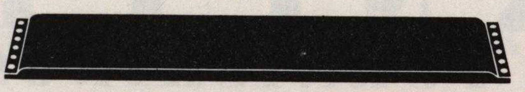
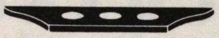
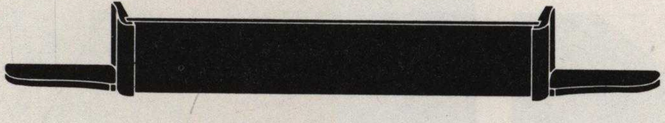
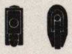
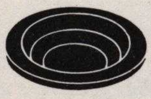
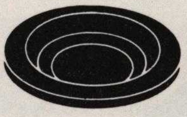

Pew End No. 48-2


Pew End No. 58

GARNETT ACCESSORIES FOR YOUR PEWS

All traditional pew accessories are available from Garnett, or Garnett will manufacture to your specifications.

- BOOKRACKS
- COMMUNION CUP HOLDERS
- ENVELOPE HOLDERS
- HAT HOLDERS
- KNEELER PADS
- COLLECTION PLATES

GARNETT

finest construction throughout

Although frequently copied in styling, Garnett Church Furniture cannot be surpassed for quality of workmanship and materials. Garnett uses highland-grown Appalachian Red Oak, a superior wood which grows slowly during cool mountain summers to form a finer grained, finer textured product, free from checks and mineral streaks. The lumber is air-dried for six months prior to being custom-kilned in Garnett's own kilns. The moisture content is carefully regulated for the area in which the furniture will be used. Where other companies might be content with the standard U. S. Forest Products recommendation of 7% moisture content, Garnett takes special care to reduce moisture to as little as 1% for furniture to be used in arid areas, and tailors the moisture content at 13% to 15% for higher humidity areas.

Grain patterns are matched as the wood is joined. Only best quality sun bronze screws are used, and except when attaching accessories to pews, the screw heads are plugged with oak. All glued joints are surfaced on Garnett's Glue-jointer so that the pieces snap into place for perfect bonding. Animal glue (the most invisible bonding agent) is used on all surface joints. Where animal glue is used, the material is heated to approximately 100° F. and the joints are allowed to stand at least 48 hours before surfacing. All plying (as on pew ends) is accomplished with Urea-Resin glues, finest for strength, durability and moisture resistance.

Throughout the production of any piece of Garnett Church Furniture, only the best genuine cabinet construction methods are employed — methods far surpassing millwork.

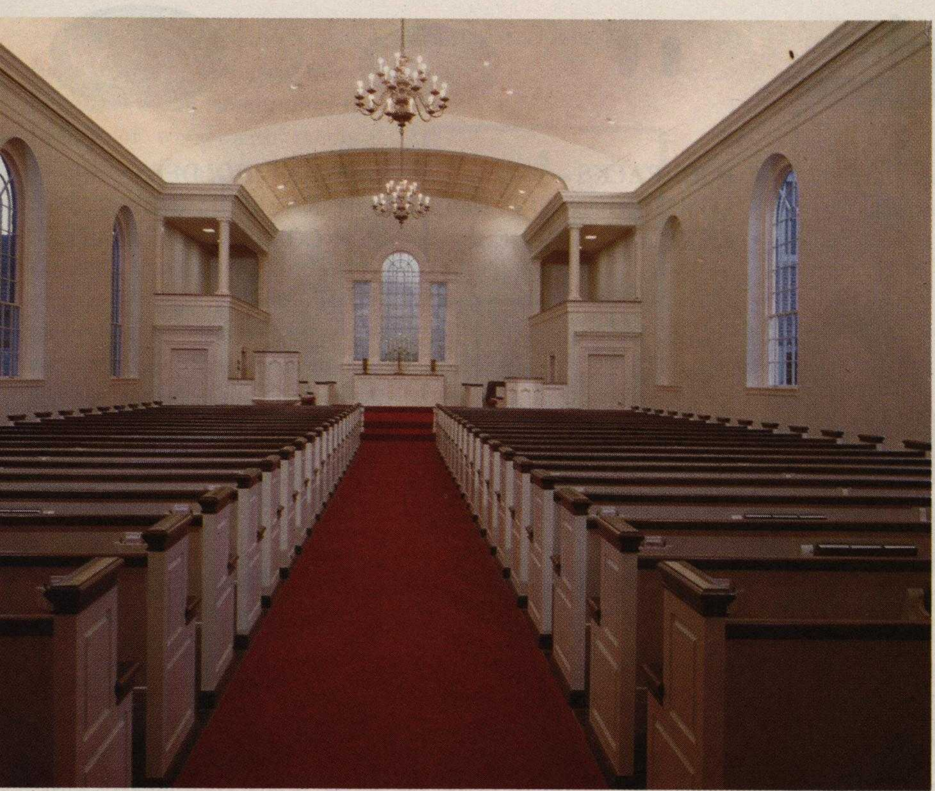
There are no standard finishes on Garnett furniture. After each piece is hand sanded and scraped, it is sealed and finished with Garnett's especially compounded finishes, scientifically applied to bring out the greatest beauty of the wood.

in the sanctuary...

Theme and function combine superbly in the custom-craftsmanship of . . .

GARNETT

CHANCEL FURNISHINGS



St. John's Methodist Church, Kansas City, Missouri, Harry L. Wagner, Architect, Kansas City, Missouri

The chancel, whether it is of the divided type or of the center pulpit type, sets the theme for your treatment of the entire church. You may look to Garnett for the most faithful and accurate development of your theme through custom produced chancel furnishings.

The divided chancel and the center pulpit require different groupings of the furnishings; and there are, of course, variations among the denominations as to placement of the individual pieces. Having furnished more than ten thousand churches of all faiths, Garnett is fully experienced with all these variations, and can give you completely integrated service in designing your chancel and its fitments.

Examples illustrated are of churches for which Garnett has supplied complete chancel groupings.

Park Avenue Christian Church, Des Moines, Iowa
Wetherell & Harrison, Architects, Des Moines, Iowa

St. Thomas Episcopal Church, Hollywood, California
Harold H. Martin, Architect, Pasadena, California

Messiah Lutheran Church, Independence, Missouri
Fullerton & McCamis, Architects, Kansas City, Missouri

Leeds Baptist Church, Kansas City, Missouri
Everitt-Bleistein-Associates, Architects & Engineers, Kansas City, Missouri

- Altars
- Alms Boxes
- Baptismal Fonts
- Bible Boxes
- Canopies
- Christian Science Readers' Desk
- Clergy Seats
- Coat and Hat Racks
- Communion Chairs
- Communion Tables
- Communion Rails
- Confessionals
- Credence Shelves
- Ewer Shelves
- Flower Stands
- Gradines
- Hymn Boards
- Lecterns
- Litany Desks
- Organ Grilles
- Panelling
- Prie Dellas
- Prie Dieux
- Pulpits
- Pulpit Chairs
- Reredoses
- Retables
- Sedilias
- Tabernacles
- Vestment Cases

MATCHED GROUPS
INDIVIDUAL PIECES
. . . of quality and distinction

In addition to complete chancel groups, Garnett offers custom-designed fitments in the enduring beauty of solid oak construction, with ornamentation and symbols either carved from solid oak or executed in gleaming metals.

Other woods are also available, in the same high quality construction, if specified.

Chairs may be upholstered in velvet or best quality heavy weight plastic, if desired.

Feel free to contact Garnett for any information you may require. We will be happy to supply shop drawings and/or detail drawings for inclusion in your church plans.

Our Savior Lutheran Church, Greeley, Colorado, Donald R. Hollis, Architect, Overland Park, Kansas

GARNETT CHURCH FURNITURE IS COMPETITIVELY PRICED

Garnett welcomes the opportunity to submit quotations on church furniture and accessories designed to your specifications. You will find no better quality at any price. Note, too, that the quoted price includes all installation and transportation costs.

SPECIFICATIONS

We welcome the opportunity to work with you in detailing complete specifications for chancel furniture, panelling, pews and accessories as custom-designed for your church.

GARNETT'S PLEDGE TO YOU

For three generations, Garnett has produced church furniture of the highest quality in materials and workmanship. We are proud of our products and we offer them with our guarantee of complete satisfaction. On all orders, large or small, you will receive first class cabinet work with high quality finishing. Garnett guarantees to replace, at any time, any work that proves unsatisfactory on account of faulty materials or workmanship.

Garnett is large enough to fill your orders promptly; not too large to give friendly personal attention to your church furnishing problems. If there is any way we can serve you, contact the Garnett, Kansas, office or your nearest Garnett distributor:

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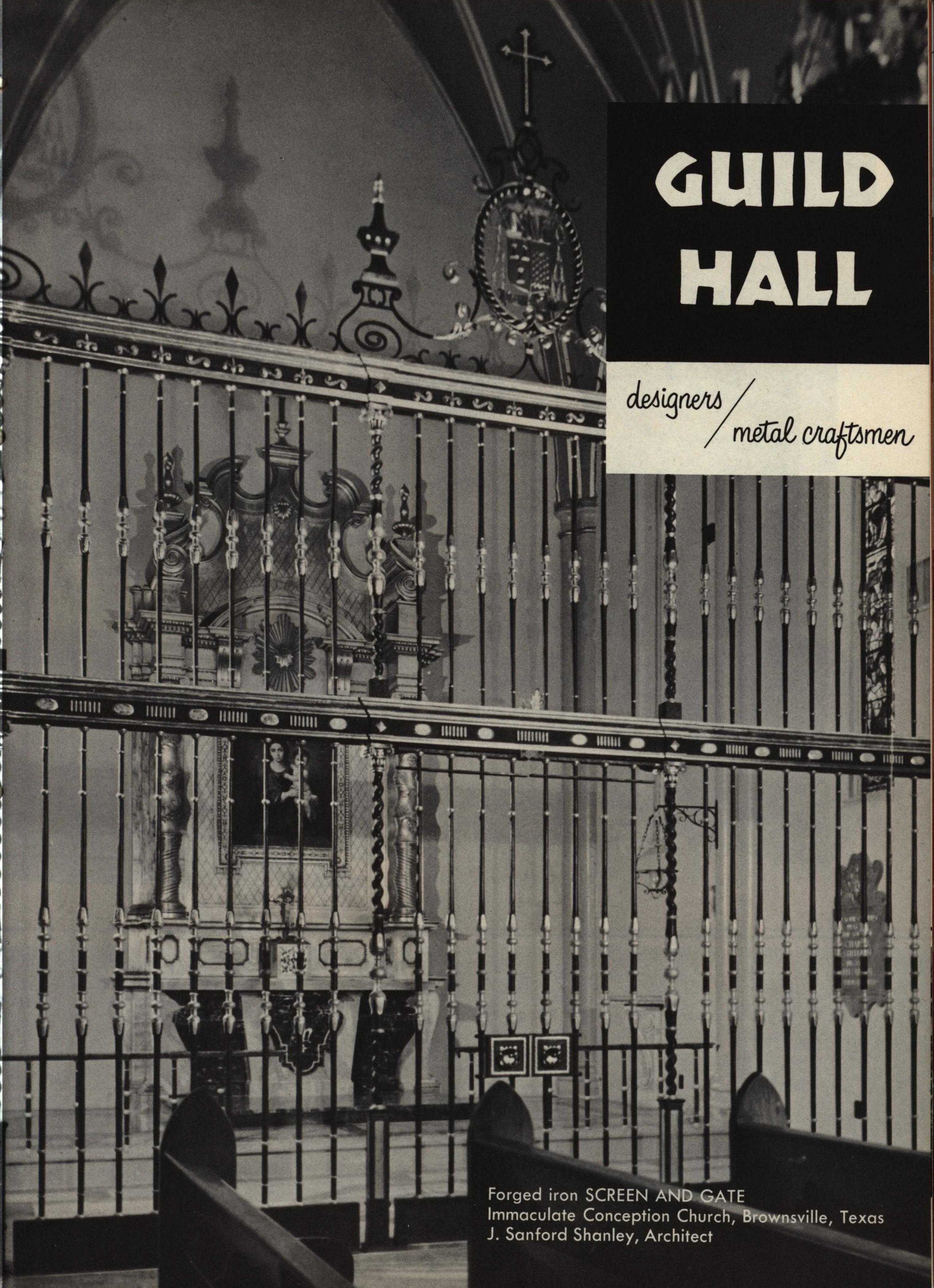


GUILD HALL

designers / metal craftsmen

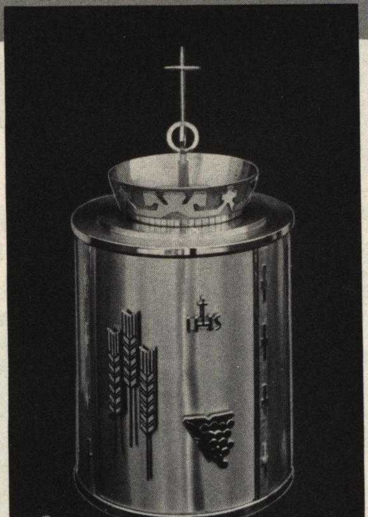
Forged iron SCREEN AND GATE
Immaculate Conception Church, Brownsville, Texas
J. Sanford Shanley, Architect

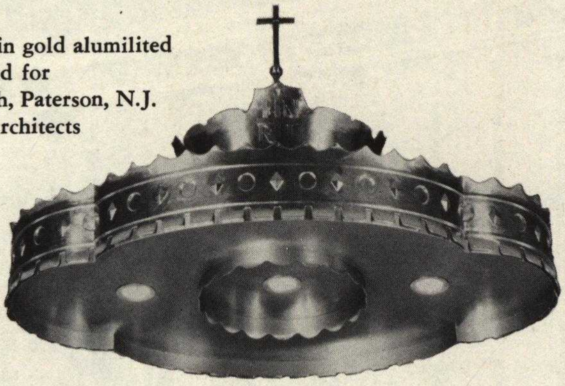
GUILD HALL *designs*

conceived and executed directly in our workshop

Our work with architects on commercial and church projects is a constant factor in the development of new ideas, methods and applications of one of the oldest of Man's crafts.

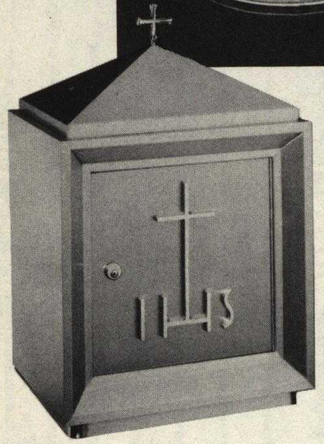
The Guild Hall staff will collaborate with the architect as designer-craftsmen — or work as craftsmen in fabricating his designs. Recommendations on preliminary sketches will be made without obligation.



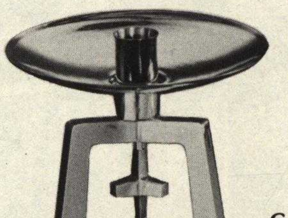


BALDACCHINO in gold alumilited aluminum. Executed for St. Boniface Church, Paterson, N.J. Fanning & Shaw, Architects

TABERNACLE Design 28-A
Bronze with vitreous enamel symbols
13½″ diam. x 27½″ o.a. height



TABERNACLE Design 40-B
Bronze. 16″ width x
24″ o.a. height x 12″ depth



CANDLESTICK Design 131
Bronze. 8″ height

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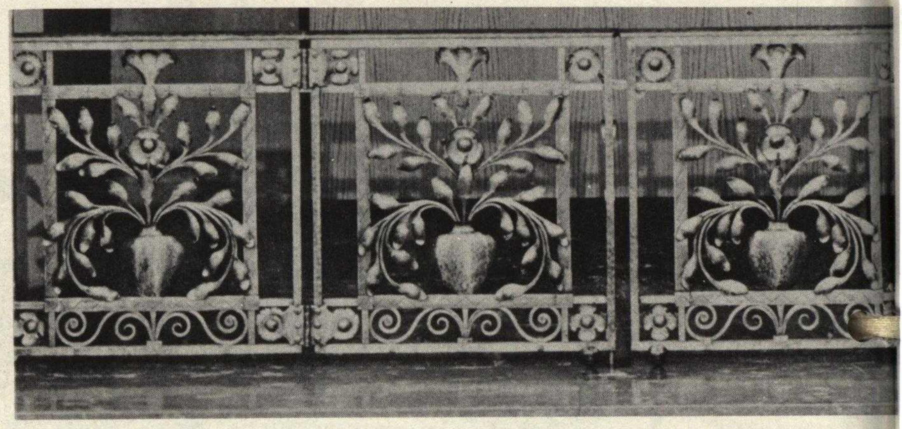
architects' designs

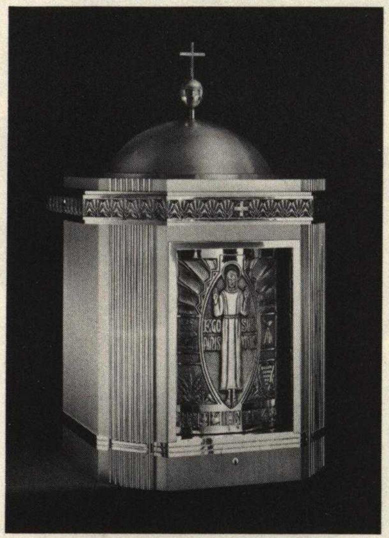
executed by GUILD HALL

Forged iron 4-section COMMUNION RAIL GATE
Trinity Church, New York City
Thomas M. Bell, Architect

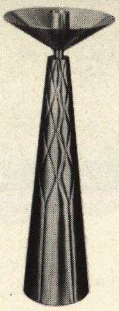
Wrought iron and bronze COMMUNION RAIL GATE
Church of the Nativity, Fairhaven, N. J.
Fanning & Shaw, Architects

Bronze curved COMMUNION RAIL
Sacred Heart Church, Hartsdale, N.Y.
Paul C. Reilly, Architect

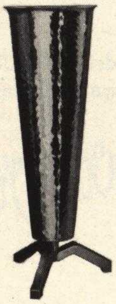




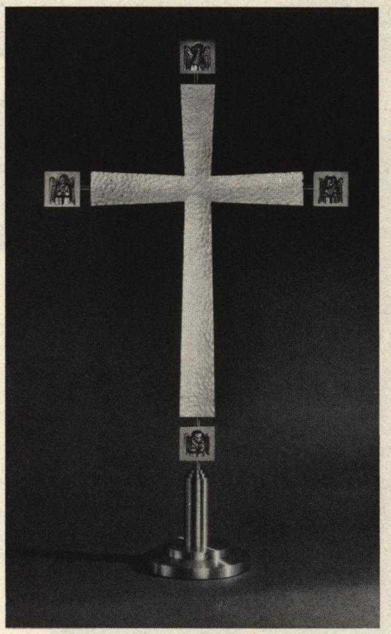
TABERNACLE Design 65-C
Bronze with revolving (on ball bearings) cylinder door
Variations in door design
20″ width x 35½″ o.a. height x 20″ depth



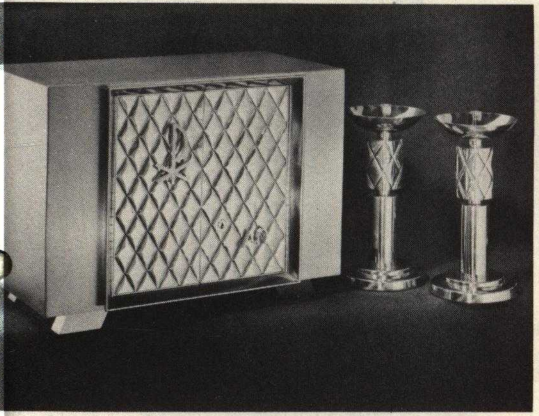
CANDLESTICK
Design 133
Handcrafted over lead and bronze. 18¾″ height



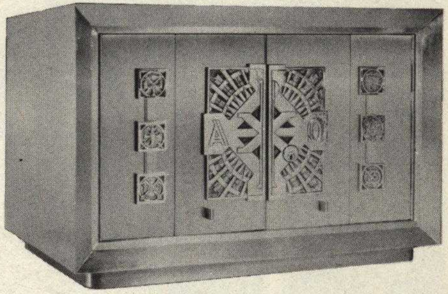
VASE Design 145
Hand hammered bronze
with removable liner
14″ or 16″ height



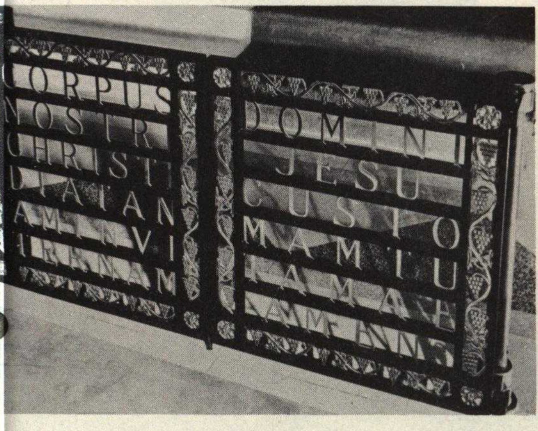
CROSS Design 147
Hand hammered concave cross
with four evangelists' symbols
30″ height x 17″ width

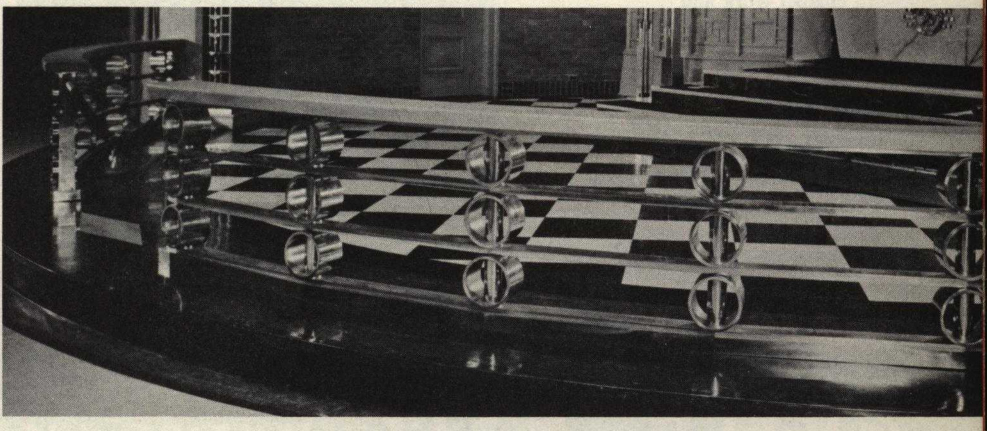


TABERNACLE Design 58-A with CANDLESTICKS Design 168
Bronze with hand tooled
door design. 21″ width x
15½″ height x 11″ depth



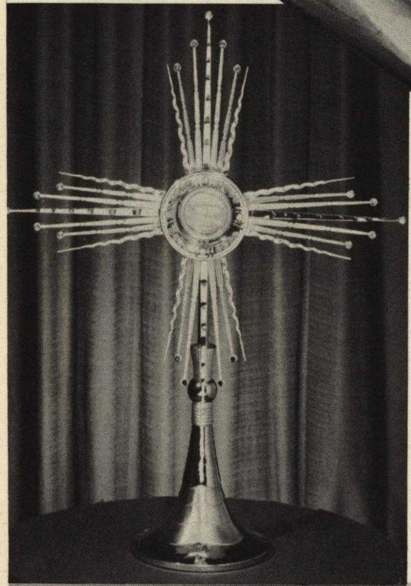
TABERNACLE Design 63
with 4-section folding doors
Bronze; 22½″ width x
15¼″ height x 14″ depth

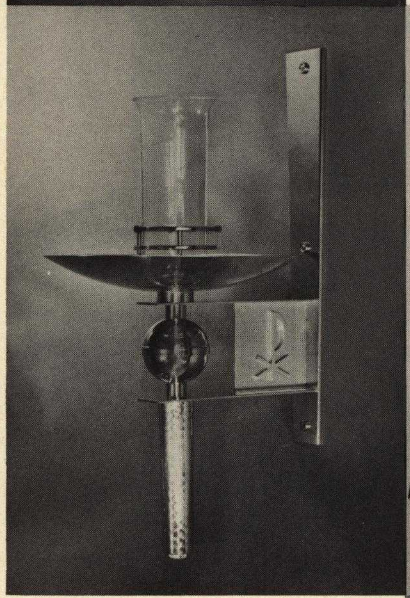


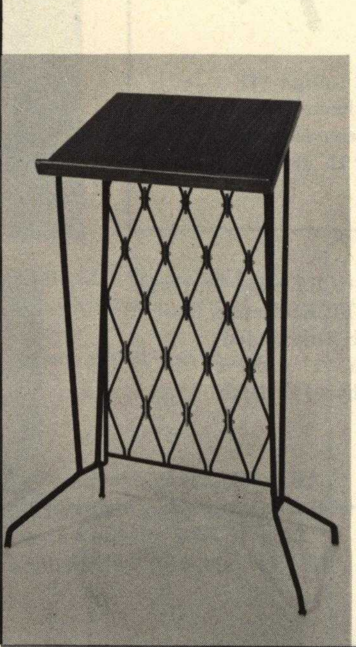


GUILD HALL STUDIOS, INC.

Original model CORPUS in bronze
Sculptor: Herman Wiemann, Guild Hall







- MONSTRANCE in gold plated bronze and silver with enamel work and semi-precious stones Designed in collaboration with J. Sanford Shanley, Architect
- SANCTUARY LAMP Design 145 Bronze; overall height 27½" Maximum projection 16½"
- LECTERN Design 1515 in wrought iron with bronze accents, walnut bookrest
- Bronze FALDSTOOL Design 12889

GUILD HALL STUDIOS, INC.

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for over 100 years...

McShane bells and chimes

McShane Bell Foundry Company, Inc.

McShane **bells** and **chimes**

There's art and skill in the making of a Bell . . . an assembling of materials . . . deft hands to guide their fashioning . . . and a mass of shapeless metals becomes translated into deep, rich tones of sweetest music, floating across the air from the lofty tower of some cathedral . . .

Such is the making of a McShane Bell . . . a bit of master craftmanship that knows no other law than that of scientific accuracy.

Since the establishment of the company in 1856, over 100,000 McShane Bells have been installed. They ring from the towers of Cathedrals, Churches and Public Buildings in all sections of this country and throughout the world.

Our complete foundry and manufacturing facilities, our skilled workmen, long experienced in the uncommon art of Bell making, and the finest of materials assure a product unexcelled in its field.

McShane Bells are composed of pure Ingot Copper and imported East India Tin, the only metals which years of experience and test have demonstrated are capable of producing a satisfactory ringing alloy.

McShane chimes

While there is no limit to the number of bells in a chime, they are generally understood to consist of at least eight bells. One octave gives a narrow scope for tune playing. The most practical consists of ten to thirteen. The lighter sets ten; medium eleven; the heavier ones thirteen. We do not recommend more than thirteen unless an extra heavy bell is used for the "tenor."

The frame in which the bells are hung is built to suit the specific requirements of the tower.

Our playing actions are extremely simple; easy to install and play, inexpensive to maintain, being a make-and-break contact using a minimum of current.

Old or new chime installations can be electrified to be played from keyboard placed at organ console. The evenness of tone quality, solidity of frame and fixtures, everything desirable in a superior chime is inherent in "McShane Chimes."

PLANNING TOWERS FOR CHIMES

The average tower measures from 12′ to 15′ square with about a 10′ to 16′ ceiling having windows as large (maximum closure 2′ at floor and ceiling) and as open as possible. Louvers may be used to close the openings provided they are at a 45° angle. The floor should be nearly level, supported by heavy timers or "I" beams with a 4′ to 5′ square trap door in the center for hoisting the bells if the windows won't permit entry.

keyboard

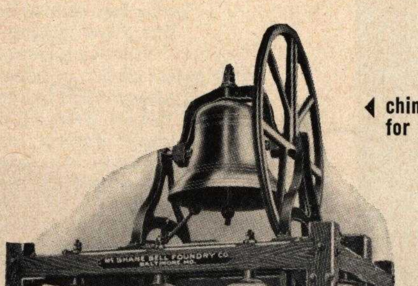
Made of quartered oak or any finish desired, with a key for each tone hooked up to the relay panel. Relays also can be attached to the organ console itself.

hand ringing

Playing is done by the hand ringing stand below. A player roll attachment operated from a push button or clock is also available.

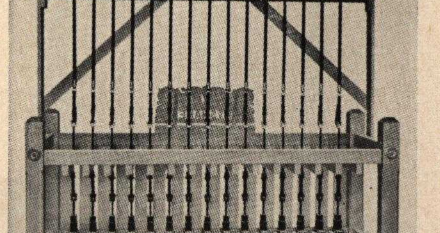
relay panel

In a steel cabinet attached to the lower part of the bell carrying frame. All parts are easily accessible and will give an indefinite period of service.



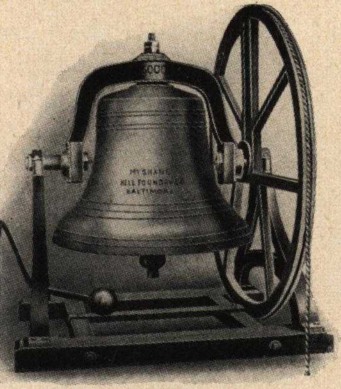
◀ chime of bells with large bell mounted for separate ringing

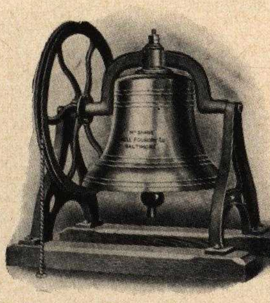
▲ size: 17″ x 17″ x 10″



hand ringing stand ▶ with electric operating units

McShane church and chapel bells





▲ chapel bell

◀ church bell

Church and chapel bells are fully warranted as to excellence of tone, composition and workmanship. They are completely mounted and equipped with McShane rotary yoke, steel clapper springs, substantial steel stand mounted on Georgia pine, with pillow block ball-bearings, tolling hammer, steel wheels and rope.

STEEL WHEELS ARE FURNISHED WITH ALL BELLS.

BELL			MOUNTING	
Wt.	Tone	Dia.	Frame Size	Wheel Dia.
church				
300	D	25″	3′4″ x 2′8″	2′10″
350	D	26″	3′4″ x 2′8″	3′6″
400	C♯	27″	3′4″ x 2′10″	3′6″
450	C♯	28″	4′0″ x 2′10″	4′4″
500	C	29″	4′0″ x 2′10″	4′4″
550	C	30″	4′0″ x 2′10″	4′4″
600	B	31″	4′0″ x 2′10″	4′4″
650	B	32″	4′5″ x 3′3″	4′9″
700	B♭	33″	4′5″ x 3′3″	4′9″
750	B♭	33″	4′5″ x 3′3″	4′9″
800	A	34″	4′5″ x 3′3″	4′9″
900	A	35″	4′5″ x 3′3″	4′9″
1000	G♯	36″	4′9″ x 3′4″	5′6″
1100	G♯	37″	4′9″ x 3′4″	5′6″
church (cont.)				
1200	G	38″	4′9″ x 3′7″	5′6″
1300	G	39″	4′9″ x 3′7″	5′6″
1400	F♯	40″	5′0″ x 3′10″	5′6″
1500	F♯	41″	5′0″ x 3′10″	5′6″
1600	F	42″	5′4″ x 4′0″	5′6″
1800	F	44″	5′4″ x 4′0″	6′3″
2000	E	46″	5′8″ x 4′6″	6′3″
2300	E	48″	5′8″ x 4′6″	6′3″
2500	E♭	50″	6′1″ x 4′6″	6′3″
2800	E♭	52″	6′1″ x 4′6″	7′0″
3000	D	54″	6′8″ x 5′0″	7′0″
3400	C♯	55″	6′8″ x 5′0″	7′0″
3800	C♯	57″	7′0″ x 5′0″	7′7″
4200	C	59″	7′0″ x 6′0″	7′7″
church (cont.)				
5000	B	62″	7′6″ x 6′0″	7′7″
5500	B	64″	7′6″ x 6′0″	7′7″
6200	B♭	66″	7′6″ x 6′0″	7′7″
7000	A	72″	8′0″ x 7′0″	7′7″
chapel				
100	A	17″	2′1″	2′0″
125	G	18″	2′7″	2′0″
150	F♯	20″	2′10″	2′0″
175	F	21″	3′0″	2′0″
200	E	22″	3′0″	2′0″
225	D♯	23″	3′0″	2′0″
250	D♯	24″	3′2″	2′10″

McShane Westminster peal bells

Peals are a combination of from two to five bells attuned to various musical intervals, and are fitted with the complete mountings in the manner of church bells and rung together. Each tone falling in one after the other produces a very beautiful, harmonious and pleasing effect.

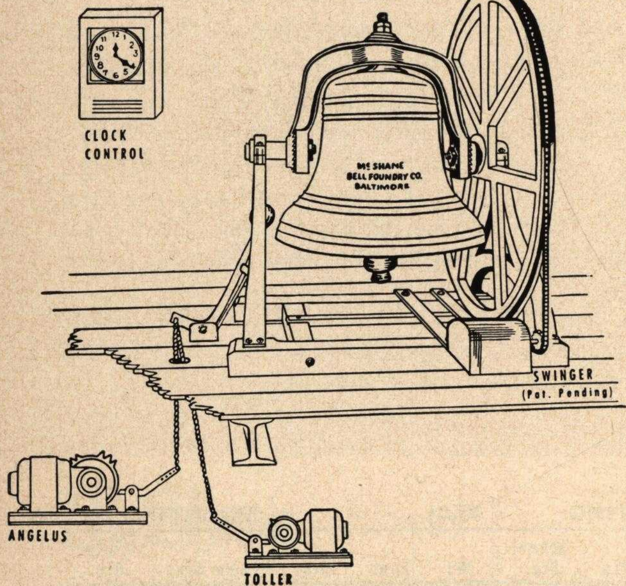
The demand for peals is constantly growing and we have had the honor of building the largest swinging peals in this country. This class of work is a specialty with us and many sets are sent out each year.

The Westminster peal is copied after the famous bells in the tower of the houses of Parliament, Westminster, and introduced many years ago in St. Mary's, Cambridge. It is also known as the "Cambridge Quarters." In England almost every parish has its "Peal" and change ringing is an art peculiar to that country.

The Westminster Changes consist of an interchange of sixteen notes. Four bells are required.

The usual method of mounting when used with tower clocks is in a frame with all bells stationary. All mountings are designed to permit the attaching of clock hammers when desired, and are arranged to suit the individual tower.

McShane bell swinger
Funeral Toller—Angelus



The new silent bell swinger is precision built, consisting of hardened and ground gears, completely ball bearing equipped to give you years of trouble free service. Bells are rung automatically or switch controlled. Our unconditional five year guarantee eliminates the need for service policies or adjustments of any kind.

McSHANE WARRANTY AND SERVICES

We extend the following warranty attached to the bill of sale of all bells of one hundred pounds in weight and upward.

"The above mentioned bell is warranted to be of genuine bell metal composition, of finest workmanship and of perfect tone (the purchaser to decide this). It is warranted not to break while being used in the proper manner, for a period of twenty-five years from this date. In case of failure in any of these respects, and notice be given us, we agree to recast the bell, or provide another of the same weight and quality which will be satisfactory, the purchaser to bear only the expense of transportation."

"Electrical equipment consisting of electric keyboard action, and player roll attachment, is guaranteed for a period of five years from date of purchase against original defects in workmanship and material."

We are always pleased to give any information desired on the subject, inspect towers, give demonstrations, furnish specifications and estimates.

for over 100 years . . . . .

Over 100,000 McShane Bells have been installed and ring from the towers of the finest Cathedrals, Churches and Public Buildings in every section of the world.

McShane Bells have been composed of all virgin copper and tin, the only metals which years of experience and test have demonstrated as capable of producing a satisfactory ringing alloy.

The name McShane has been, in itself, an unconditional guarantee of unrivalled quality and workmanship.

typical McShane installations

St. Helena Cathedral — Helena, Montana
Highland Park Presbyterian Church — Pittsburgh, Pa.
St. John's Lutheran Church — Columbia, Pa.
Wesley Memorial M.E. Church — High Point, N. C.
University of Illinois — Champaign, Ill.
Ohio Wesleyan University — Delaware, Ohio
Geneva College — Beaver Falls, Pa.
Loyola University — New Orleans, La.
Ohio State University — Columbus, O.
St. Mary-of-the-Woods Col. — St. Mary-of-the-Woods, Ind.

McSHANE BELLS FOR EVERY REQUIREMENT

In addition to the bells and chimes shown on the previous pages, our complete facilities enable us to furnish bells and their fastenings for any and all purposes. The list alongside shows but a few of the many uses we service.

- **fire alarm and town clock bells**
- **academy and school bells**
- **court house bells**
- **lighthouse and fog bells**
- **ship and factory bells**

McShane Bell Foundry Company, Inc.
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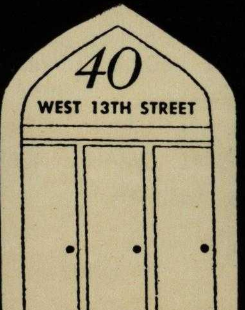

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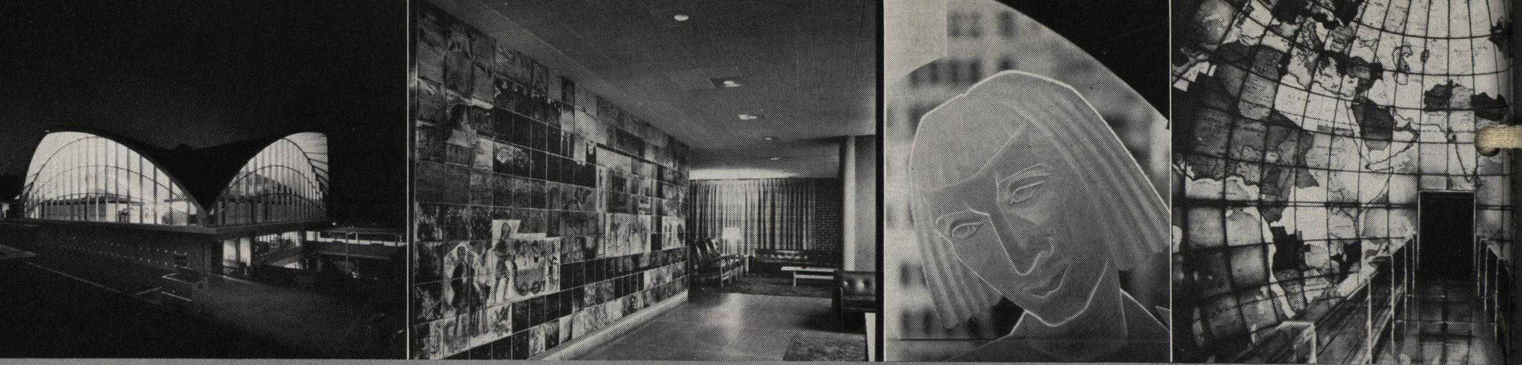
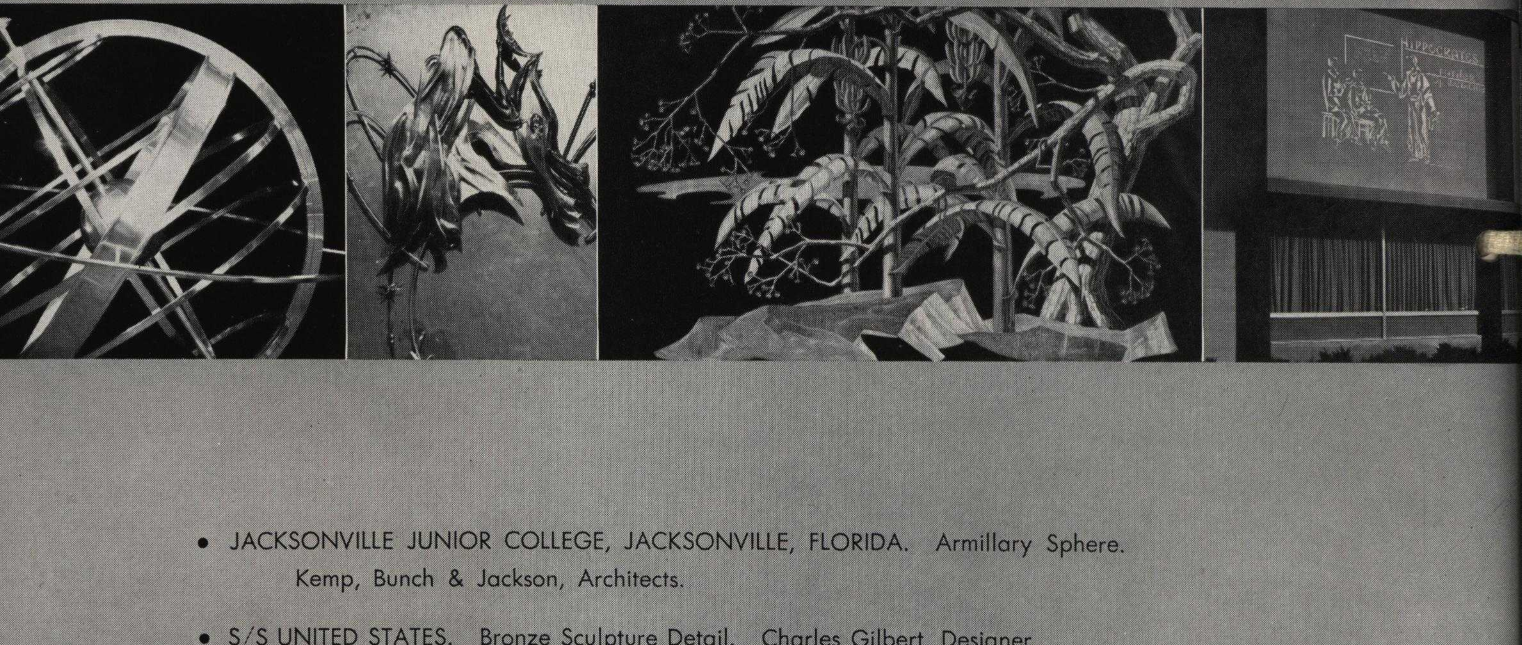


- ST. LOUIS AIR TERMINAL BUILDING, ST. LOUIS, MO. Lighting.
  Hellmuth, Yamasaki & Leinweber, Architects.
- KLINGENSTEIN PAVILLION, MT. SINAI HOSPITAL, NEW YORK, N. Y. Lighting.
  Kahn & Jacobs, Architects.
- ST. THOMAS MORE CHAPEL, YALE UNIVERSITY, NEW HAVEN, CONN.
  Carved Plate Glass Window.
  William Douglas and Douglas W. Orr, Associate Architects.
- CHRISTIAN SCIENCE PUBLISHING, BOSTON, MASS. Colored Maparium Glass Enamel Sphere.
  Chester Lindsay Churchill, Architect.



- JACKSONVILLE JUNIOR COLLEGE, JACKSONVILLE, FLORIDA. Armillary Sphere.
  Kemp, Bunch & Jackson, Architects.
- S/S UNITED STATES. Bronze Sculpture Detail. Charles Gilbert, Designer.
  Smyth, Urquhart and Marckwald, Inc., Interior Decorators.
  Eggers & Higgins, Interior Architects.
- MORRISON CAFETERIA, PONTE VEDRA, FLORIDA. Painted Mural.
  Marsh and Saxelbye, Architects.
- CLARKSON MEMORIAL HOSPITAL, OMAHA, NEBRASKA. Sandblasted Murals.
  Leo A. Daly Associates, Architects.

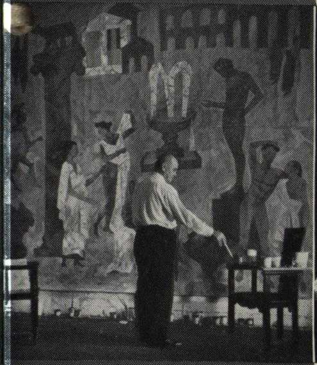
- THE FORUM OF THE XII CAESARS RESTAURANT, NEW YORK, N.Y.
  Restaurant Associates, Inc., Owners. Full-sizing for Mosaic.
  William Pahlmann Associates, Inc., Interior Designers.

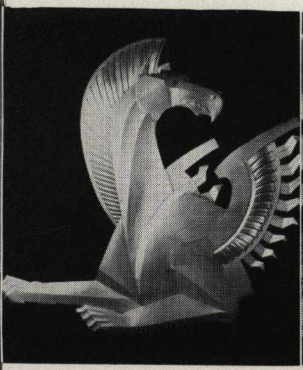
- ALUMINUM SCULPTURE.
  Hildreth Meiere, Designer.

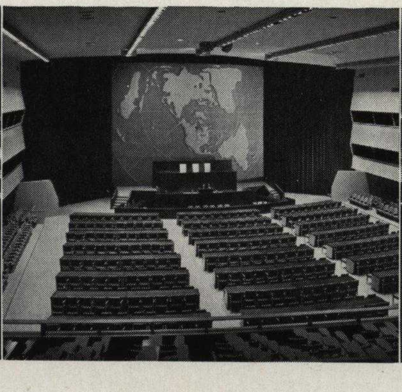
- WORLD ASSEMBLY HALL, FLUSHING, NEW YORK. United Nations Metal Map.
  Skidmore, Owings & Merrill, Architects.

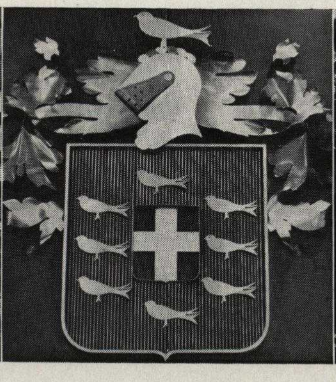
- SCHRAFFT'S RESTAURANT, ESSO BUILDING, NEW YORK, N. Y. Bronze Crest.
  Robert Foster, Designer.
  Carson & Lundin, Architects.

- U. S. COAST GUARD ACADEMY CHAPEL, NEW LONDON, CONN.
  Sandblasted Tinted Glass.
  Douglas W. Orr, A.I.A., Architect.





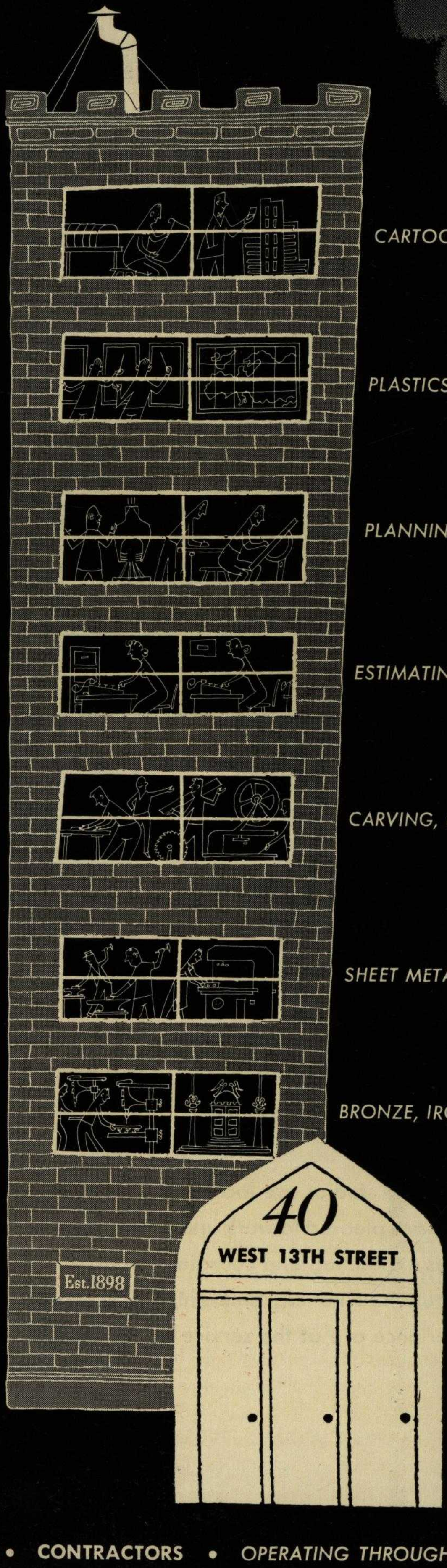




Architects and decorators have engaged our craft and design facilities for many years. We are prepared to set up a budget, estimate, full-size, fabricate, deliver and install projects in metal, wood, glass, mosaic, plastic and color-styling, developing submitted ideas or making original designs.

Our shops and studios are located in one building. Our staff is union. We are pleased to work under one contract in our several fields, thus expediting and coordinating all processes of design and execution. Fine craftsmanship is achieved when talent and experience are at the service of architects and designers.

CONTRACTING
IN-THE-CRAFTS
UNDER ONE ROOF—
ONE MANAGEMENT



MODEL SHOP	CARTOONING, PAINTING, MURALS
GLASS SHOP	PLASTICS, ENAMELS
DESIGNING ROOM	PLANNING, ENGINEERING
ACCOUNTING	ESTIMATING, COST RECORDS
CABINET SHOP	CARVING, PANELLING, FINISHING
METAL SHOP	SHEET METAL, FORGING, CHASING
FIXTURE SHOP	BRONZE, IRON

RAMBUSCH NEW YORK CITY
DESIGNERS • ENGINEERS • CRAFTSMEN

MANUFACTURERS • **CONTRACTORS** • *OPERATING THROUGHOUT THE UNITED STATES* • **OR**EGON **5-0400**

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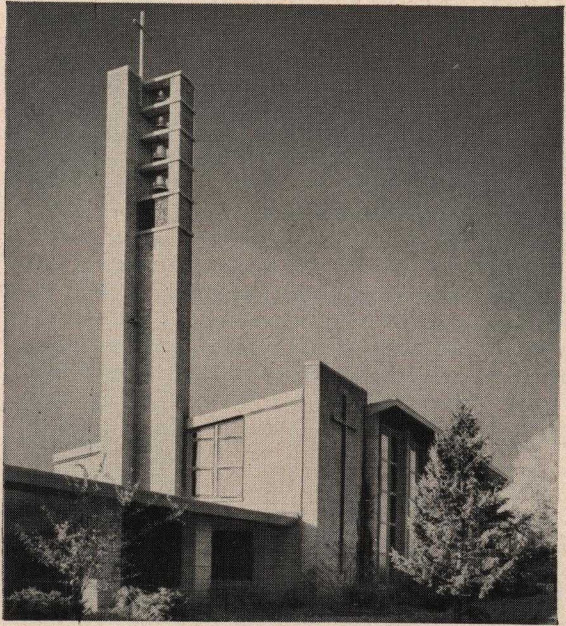
SCHULMERICH

- CARILLONS
- BELLS
- CHIMES



for

churches
universities
colleges
schools
commercial bldgs.

SCHULMERICH CARILLONS INC.

CARILLON HILL • SELLERSVILLE, PA.

Worlds Largest Producer of
Carillons, Bells and Chimes

SCHULMERICH

The Ultimate in Bell-Tone Perfection

The carillon, comprising many bells—supreme musical voice of all ages—has sung through the centuries in music which has no peer. Traditionally the voice of the towers of Europe, there can be no more magnificent mode of expressing the hopes and aspirations of mankind.

The carillon holds a place in the hearts of all who appreciate finer things. No other instrument ever conceived in the mind of man can approach its music in majestic beauty and ethereal splendor.

In the Low Countries of Europe, the people desired sets of bells on which the most elaborate musical patterns could be played. After centuries of search and experiment, the Flemish developed bells of such tonality that they could be used for unlimited harmony. Thus was born the Flemish carillon.

This magnificent instrument should be a part of each community—for the voice of the carillon reaches multitudes of people in all walks of life with its message of inspiration, hope, joy, comfort, peace and good will. But, in years past, because of the tremendous size and prohibitive high cost of cast bell carillons, few persons have been able to benefit by its unique contribution to the cultural and religious needs of the community.

NOW, this is no longer true!

why select a SCHULMERICH BELL *instrument*

Backed by a quarter-century of experience in the design, manufacture and installation of thousands of the popular "Carillonic Bells"* instruments, Schulmerich Carillons have proven their ability to provide music identical in every way to that of the finest type cast-bell carillons—at a fraction of the cost.

In addition to the traditional monochromatic voice of bells alone, Schulmerich has recently created the newest of all carillons—the "Americana" Bells instrument. This new multi-tuned instrument creates a full compliment of percussive voices providing musical dimensions never before possible in carillon music. All Schulmerich carillons use precision-tuned, miniature bell-metal tone generators, struck by metal hammers, as their tone sources—exclusive Schulmerich patents. Thus, because its action duplicates that of a metal clapper striking a cast bronze bell, the tones are produced in the traditional manner.

Through the magic of modern electronics, the faint but perfect vibrations of the bells of the Schulmerich Carillons are amplified millions of times and projected from the tower or roof by special stentors.

Over 5 thousand churches, colleges, schools, commercial institutions and public buildings throughout the world send out the beautiful music of Schulmerich Bells instruments. Whether large or small, Schulmerich manufactures bell instruments to meet the musical budget requirements of each one.

"CARILLON AMERICANA"® BELLS INSTRUMENT

The world's largest and finest carillon. A 305 Bell instrument comprising the following sets of chromatically tuned bells:

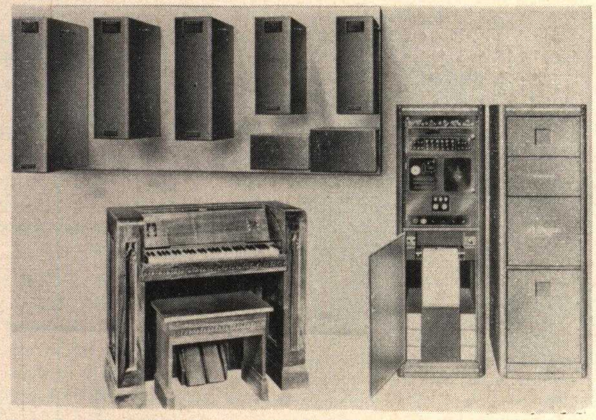
61	Flemish Bells
61	Harp Bells
61	Celesta Bells
61	Quadra Bells
61	Minor Tierce Bells

The "Carillon Americana" Bells are played from a 2 manual organ type console with full pedal clavier built to AGO standards. This instrument can be installed in any building—with or without a tower, and without the massive construction required to support heavy cast bells. All units of this instrument, other than the stentors, are housed within the building, in as little as 50 square feet of floor space. Total weight of the tower equipment is under 500 pounds. Automatic programs on the carillon are provided through clock-controlled playing devices.

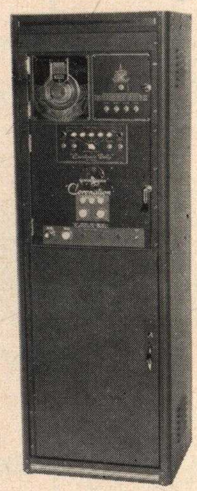
"AMERICANA"® BELLS INSTRUMENT

Inspired by the beauty of the Schulmerich "Carillon Americana" Bells, the "Americana" Bells are available in 50 to 183 bell ranges. To the beauty of traditional bell tones are added the new voices of the harp bells and/or the celesta bells. Schulmerich "Americana" Bells add true depth to carillon music—a new spiritual dimension never before provided by carillons of old. The "Americana" Bells are played manually from a dual manual keyboard or automatically through the use of clock-controlled program accessories. In a true carillon, ancient or modern, each note must share an exact relationship with every other note, as to the location and proportion of the particals making up its tone. In the "Americana" Bells, as in all Schulmerich instruments, tuning of each partical of each note is achieved by a patented process, using a chromatic stroboscope assuring an accuracy of 1/20 of 1 per cent.

"ARLINGTON"® CARILLON



Schulmerich "Arlington"® Carillons are manufactured in 25-, 37-, 49- and 61-bell instruments, with power factors engineered to meet the volume requirements of every type of installation location. Played manually from a single, chromatic keyboard, from the organ console, or through completely automatic playing devices, the "Arlington" Carillons meet every known bell service demand. Over 600 "Arlington" Carillon Models available.



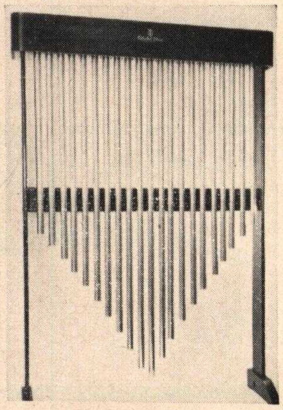
"CORONATION"® CARILLON

The Schulmerich "Coronation"® Carillon is a 25-Bell instrument, English-type tuning, for use from the tower as a carillon, plus inside the church or building with the organ, as organ bells. It is basically designed for manual playing, by any musician familiar with piano or organ—and may also be equipped with complete automatic playing devices. Over 900 "Coronation" Carillon Models available.

CATHEDRAL CHIMES

Schulmerich Cathedral Chimes of conventional tubular brass design, are built both for use with the organ and for amplified chime music from the tower. Engineered to out-perform all other tower chime systems and organ chimes, they are beautifully voiced in perfect pitch by "harmonic-tuning." They are built in 21- and 25-note models, with amplification systems to meet all tower volume demands.

Over 30 Cathedral Chime Models available.



CHIMEATRON®

The Schulmerich Chimeatron is a self-contained instrument, with chime-tone generators, amplifier, reproducer and keyboard cased in fine wooden cabinet—for use as a solo instrument or with the organ as organ chimes. It is also amplified to provide tower-chime tones—distinctly different tones as compared to the perfect cast bell tones of the "Arlington" Carillons and the "Carillonic Bells" instruments.

Over 40 Chimeatron Models available.

"BASILICAN"® BELLS INSTRUMENT

The Schulmerich "Basilican"® Bells is the most complete traditional bell instrument ever created. Originally designed for the North American College in The Vatican City, Rome, Italy, it is now available to chapels, churches and cathedrals. Using 6 bells, it is the perfect instrument for ringing the Angelus, Sunday and weekday Mass Calls, the de Profundis, all by clock control, and Funeral Tolls manually. The "Basilican" may be combined with the 25-bell "Coronation" Carillon, with any of the "Arlington" Carillons, or with both, for broader program use.

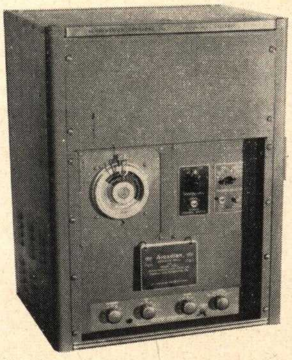
Over 300 "Basilican" Bells Models available.

"MARIAN"® BELLS INSTRUMENT

The Schulmerich "Marian"® Bells is a medium-priced instrument, designed to provide minimum traditional bell uses for the Church. It is a three-bell unit, offering completely automatic clock control of one to three bells for the Angelus and Mass Calls, with semi-automatic and manual use of the bells for tolling and other purposes.

Over 60 "Marian" Bells Models available.

"ARCADIAN"® BELLS INSTRUMENT



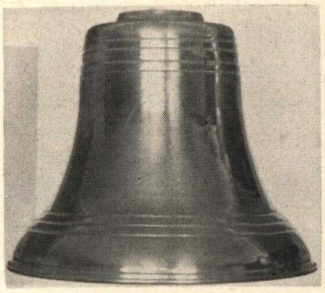
The Schulmerich "Arcadian"® Service Bell and Hour Toll provides a low-priced instrument for the church, using one bell of the "Carillonic Bells' as its tone source. It is designed for use where a single bell is required, the bell being rung manually or automatically by a program control clock. The "Arcadian" Angelus and Mass Bell, a similar instrument, provides the Angelus and Mass Calls for the Catholic Church by clock control, with manual tolling of the single bell for funerals. Both of the "Arcadian" instruments may be equipped with a manually-operated record-player—either single-speed manual or three-speed automatic changing.

Over 40 "Arcadian" Bell models available.

"MAGNEBELL"® TAPE PLAYER

The Schulmerich "MagneBell" is designed for the church or institution with a limited budget. At low cost, it provides the music of the famous Schulmerich carillons played on prerecorded magnetic tape, controlled by a 15-minute interval program clock. A "Call-to-Service" Bell is included. The basic control cabinet provides a single housing for the tape player, the special audio amplification, the "Call-to-Service" Bell and a monitor reproducer. Schulmerich also produces the model 155 "RecordaBell"* instrument, similar to the above, with a 4-speed record changer replacing the tape player mechanism.

SCHULMERICH BRONZED ALUMINUM BELL SHELLS



The churches on the cover are equipped with the above illustrated Schulmerich Bronzed Aluminum Bell Shells.

Where the bell shape becomes an important factor in the architectural design of a building, Schulmerich provides decorative bell shells in varying sizes to conceal the tower stentors. Made of spun aluminum finished in an anodized bronze color, these bell shells are available as accessories to any Schulmerich Bell instrument. Here is the perfect answer to the problem of combining modern bell instruments with the traditional visual representation of the bell shape.

services

The selection of the type and size tower instrument best suited to the needs of the institution and community to be served, can only be made after a survey of the many factors to be considered. Until the basic functions and program use of the instrument is determined, the proper equipment cannot be selected. Too much emphasis cannot be placed on the importance of making a thorough survey of the program needs of the institution, and a careful analysis of the facilities offered by each instrument, before a final selection is made.

To assist architects and clients, these services are offered by Schulmerich Carillons, Inc., without cost or obligation:

a. Field survey by District Manager
b. Equipment and wiring layout by District Engineer.
c. Architects Information File (available on request) no charge
d. Factory engineering services for special projects.

distribution

Sales of all Schulmerich carillon and bell instruments are handled by direct factory representatives located throughout the United States and Canada. Schulmerich also maintains its own organization of factory-trained field-engineers for installation and maintenance of Schulmerich carillon and bell instruments throughout the United States and Canada.

cast bells and carillons

For those lovers of traditional cast bells to whom weight and cost are no obstacle, Schulmerich offers the finest in imported cast bells. Carillons, chimes, peals, individual bells and a complete line of bell ringing equipment is now available.

installations

Partial List of Schulmerich Installations

churches

East Liberty Presbyterian Church, Pittsburgh, Penn.
Blessed Sacrament Cathedral, Detroit, Michigan
First Baptist Church, Midland, Texas
Saint Sophia Greek Orthodox Church, Los Angeles, Calif.

educational institutions

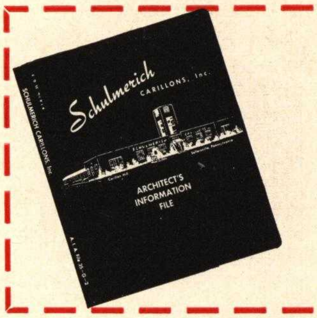
Purdue University, Lafayette, Indiana
University of Minnesota, Minneapolis, Minnesota
University of Florida, Gainesville, Florida
North American College, Rome, Italy

commercial

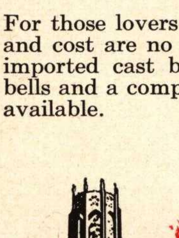
First Security Bank, Salt Lake City, Utah
Vienna Opera House, Vienna, Austria
Syracuse Savings Bank, Syracuse, New York
First Federal Savings and Loan Ass'n, St. Petersburg, Florida

memorials

Bok Singing Tower, Lake Wales, Florida
Stanley Park Carillon Tower, Westfield, Massachusetts
Victoria Lawn Cemetery, St. Catherines, Ontario, Canada
Veterans Memorial Carillon, Brainerd, Minnesota

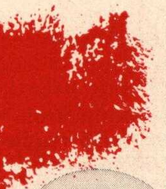


Architects information file available on request.



SCHULMERICH CARILLONS, INC.

CARILLON HILL • SELLERSVILLE, PENNSYLVANIA



Producers of The Famous National Evening Hymn Memorial Carillon at Arlington National Cemetery

*"Carillon Americana"** ® *Bells at the famed Singing Tower Lake Wales, Florida Installed 1957*

* ®TRADEMARK

PRINTED IN U.S.A.

23i
Br

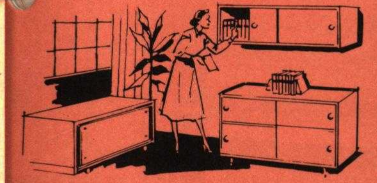
Brunswick

for better learning . . . for lasting value

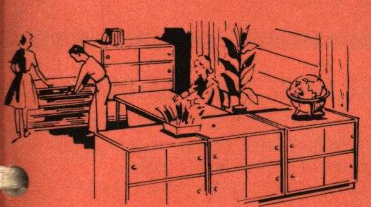
MOVABLE CABINETS

A complete line of storage and special purpose classroom cabinets

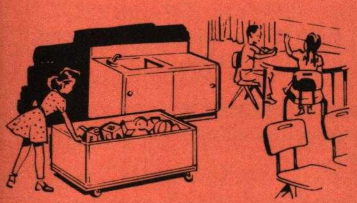
AS WALL CABINETS



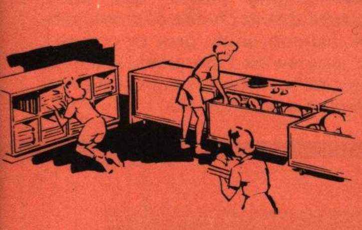
AS A ROOM DIVIDER



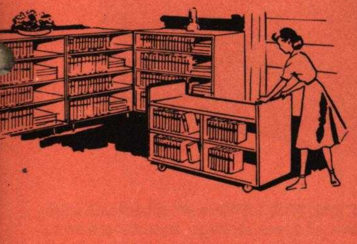
AS A MOBILE CABINET

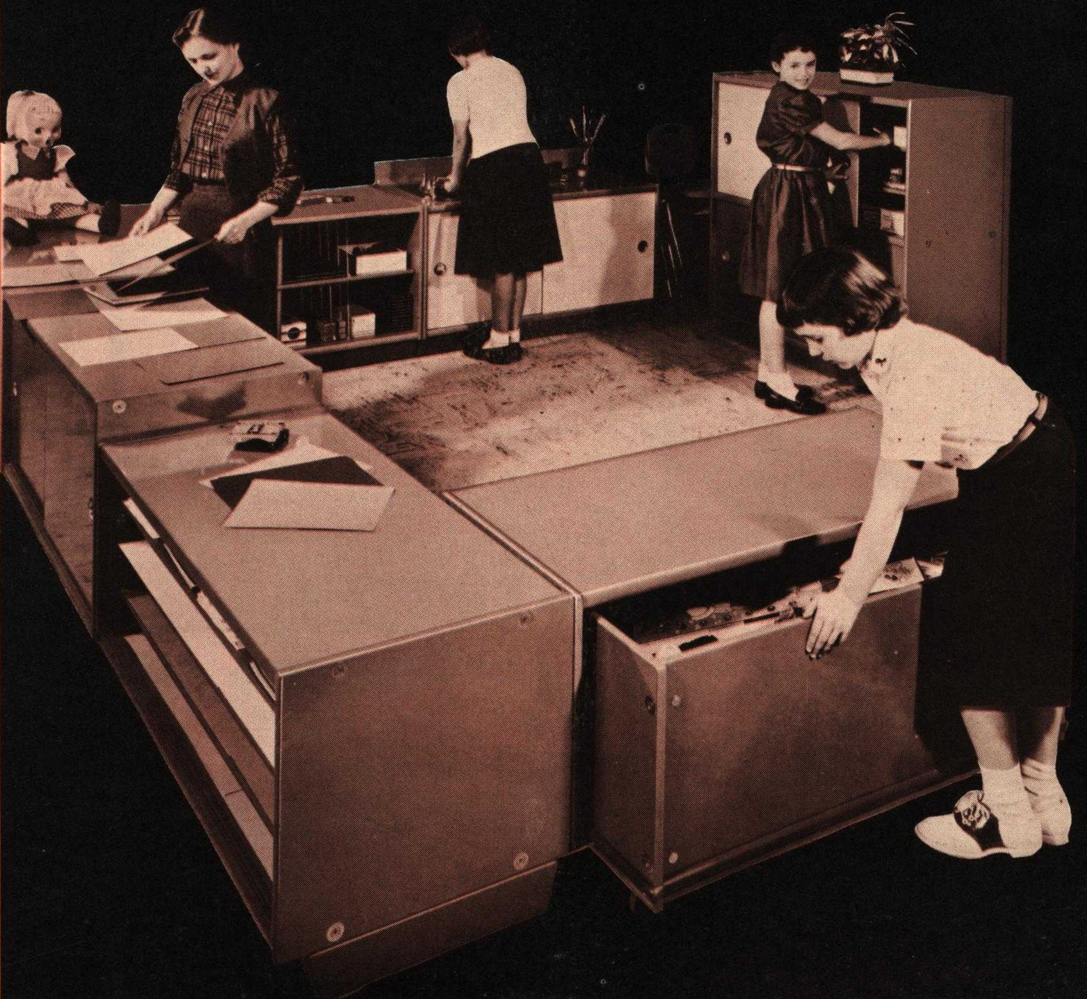


FOR STORAGE



FOR LIBRARY USE





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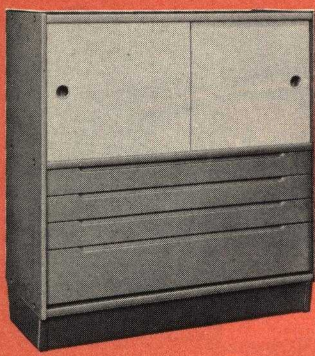
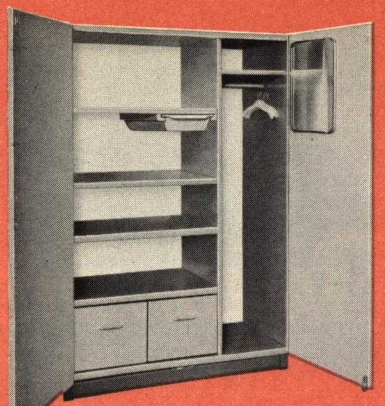
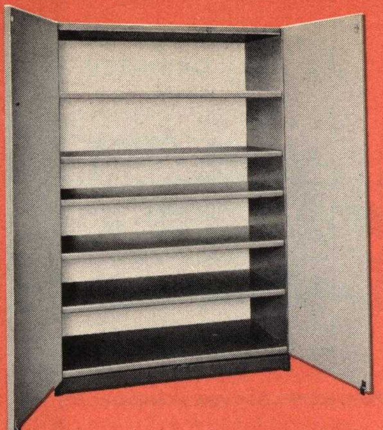


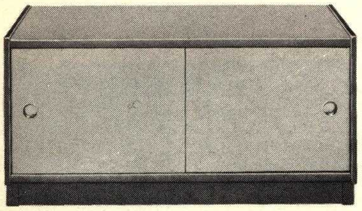
DOUBLE HEIGHT GENERAL STORAGE CABINET has twice as much practical storage space. One shelf allows storage of massive items . . . or add dividers to make up to 36 cubicles. Height: 49", 51"; Depth: 22".



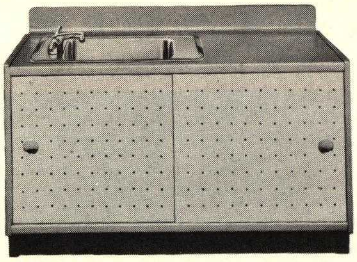
TEACHER'S WARDROBE—STORAGE CABINET. Teachers love this handy, compact, lock-away cabinet. It gives her a plastic vanity tray, mirror, file drawers and plenty of shelving. Height: 69½", 71½"; Depth: 22".



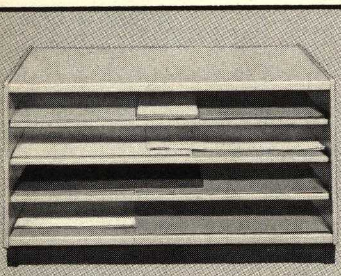
TEACHER'S STORAGE CABINET with five adjustable shelves. Lets the teacher keep her supplies locked away . . . gives her an uncluttered orderly classroom. Height: 69½", 71½"; Depth: 22".



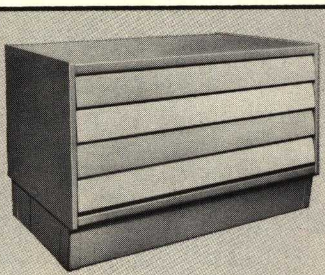
GENERAL STORAGE CABINET for all-around multipurpose storage. Use without shelves to store large items . . . or use up to 7 adjustable shelves, or with pull-out drawers. Height: 23", 25", 27", 29", 35", 37"; Depth: 22".



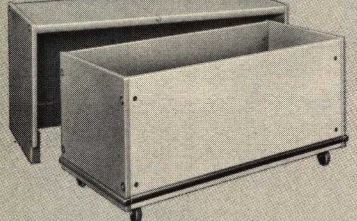
CABINET SINK with rugged plastic surface and deep-well stainless steel sink. Has H & C faucets, towel rack, basket strainer and optional fountain bubler. Perforated doors for proper ventilation. Height: 23", 25", 27", 29", 35", 37"; Depth: 22".



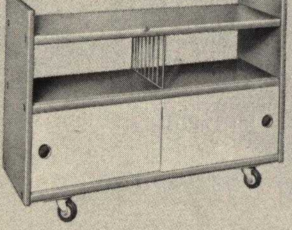
PAPER STORAGE CABINET extra deep . . . perfect for large drawing paper, newspapers, etc. Will accommodate up to 5 horizontal shelves. Height: 23", 25", 27", 29"; Depth: 26".



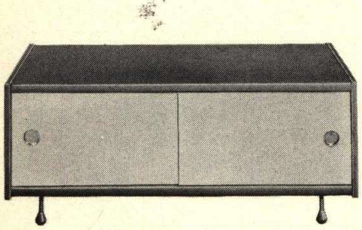
PAPER DRAWER STORAGE CABINET with waterfall front design, 4 or 5 alternating blue and yellow pull-out drawers on sliding extention arms. Height: 23", 25", 27", 29"; Depth: 26", Width: 39".



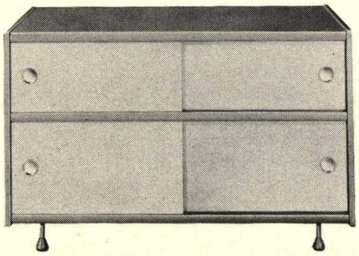
TOY CART WITH TABLE SHELL. Caster-mounted cart may be pulled out to move or gather toys, leaving the plastic-surfaced shell to serve as ah extra table. Height: 23", 25", 27", 29"; Depth: 22".



BOOK TRUCK on wheels for complete mobility. Roll books or supplies right to the spot where they're needed . . . and, against a wall, it banks as a Two-Tier cabinet. Height: 29"; Depth: 15".



ONE TIER CABINET. Ideal for wall mounting, supplementary storage . . . or as a decorative low cabinet for plant or book display. Perfect as a seat-storage bench. Unit height: 15"; Depth: 15".



TWO TIER CABINET for supplementary work surfaces. Singly or in banks, this cabinet can be used as "see-over" room dividers. Also ideal for spot storage of materials. Height: 29"; Depth: 15".

COMPARE THESE PLUS FEATURES

HONEYCOMB CORE construction gives tremendous strength without mass.

STEEL INTO BARREL NUT assembly permits unlimited reassembly without wear.

VERTICAL DIVIDERS, as many as 5 per shelf, answer specific functional needs.

LEVELING ADJUSTMENT assures perfect horizontal alignment despite floor irregularities.

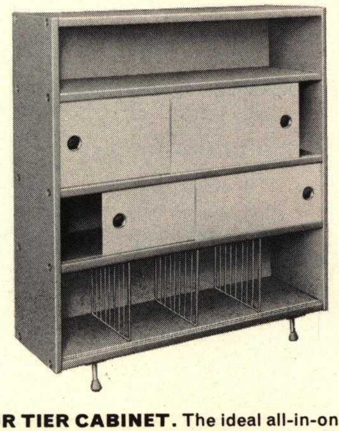
PLASTIC EDGING on all end panels and dividers to prevent marring.

ONE TOOL ASSEMBLY—Any cabinet can be assembled in minutes with a Phillips screw driver.

FIVE TYPES OF MOUNTINGS to choose from: Legs, Casters, Wall Mounting, Island Base, Full Base.

MOVABLE SHELVES may be moved up or down according to individual needs.

AVAILABLE IN 6 COLORS FOR LEARNING—Sliding panels and back panels are available in choice of coral, yellow, green, salmon, blue, grey to compliment your Brunswick Fiberglass seating. Warm grey cabinet frames help create the perfect learning environment.



FOUR TIER CABINET. The ideal all-in-one cabinet for open or closed storage space. Used in series it's a room divider . . . or it can be a storage-island or plant display unit. Height: 53"; Depth: 15".

consider quality and economy …then specify the investment line that continues to set the pace!

Brunswick

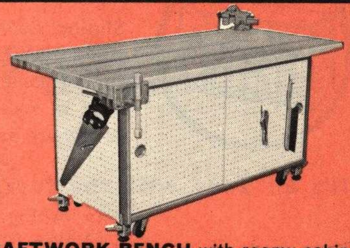
MOVABLE CABINETS

Quality and economy *do* go hand in hand . . . when you use Brunswick movable cabinets! One hundred thirteen years of quality manufacturing experience, together with the most advanced thinking in school furniture design, has enabled Brunswick to mass produce the most complete, functional line of movable classroom cabinets, and furniture available anywhere . . . and do it economically. As a result, here's the practical solution to the many problems incurred with undependable job-site construction of expensive, built-in storage cabinets. With Brunswick, you needn't worry about warping or checking, mismatched replacement parts, or worse yet . . . part-time performance of inflexible, fixed cabinets that are old before their time.

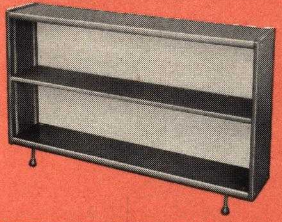
Brunswick movable cabinets complement your Brunswick furniture and flex with every need of the classroom . . . they serve as extra work surfaces, room dividers, project areas, storage islands. The only cabinets made with interchangeable parts that let you take out dividers, add shelves, or change heights to meet the ever changing functions of the modern school. Top quality throughout . . . precision turned hardware, sturdy structural parts, plastic covered work surfaces and molding, precision engineering, factory-built quality, inspected and tested to meet rigid standards of perfection. Brunswick cabinets are strong . . . will give a lifetime of good service.

All of the Brunswick representatives are school specialists who will welcome the opportunity to show you our complete line of classroom cabinets and furniture. Call your local dealer today . . . in addition to furnishing you with technical information and price quotations, he will be happy to place a trained staff of room equipment layout experts at your service.

AUDIO CONSOLE with Califone transcription player to serve a hundred uses. Use it as a portable PA system . . . for speech correction . . . music appreciation . . . even dances. Height: 29"; Depth: 22".

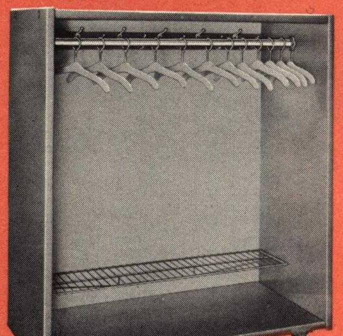


CRAFTWORK BENCH with roomy cabinet understructure mounted on casters provides a truly portable workshop. And tools may be safely hung out of the way. Height: 25", 29"; Surface: 28" x 60".

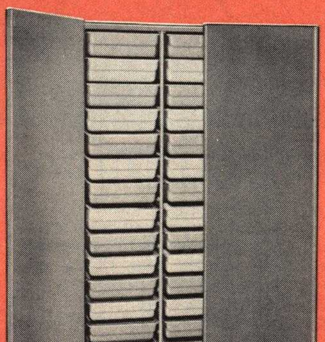


BOOKSHELF CABINET MODEL A with shallow 10" depth adjustable shelves fits snugly against the wall in minimum-space areas. A perfect unit for classroom or library. Height: 29", 31".

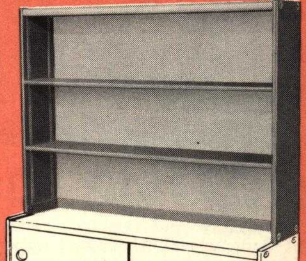
BOOKSHELF CABINET MODEL B with 5 fully adjustable shelves is a real space saver anywhere. Bank several snugly against a wall, or use them as handsome room dividers. Ideal for classroom or library. Height: 69", 71"; Depth: 10".



STUDENT'S WARDROBE with 15 hangers, 12 coat hooks and a wire shelf for books or lunch boxes. Turn it around and it's a sage green corkboard. Heights: 51", 54½"; Depth: 22".



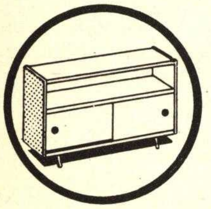
TOTE-TRAY STORAGE CABINET with up to 48 removable, plastic storage trays lets the student move books, ledgers or supplies to project areas quickly . . . easily. Height: 69½", 71½"; Depth: 22".



BOOKSHELF CABINET MODEL C with 3 fully adjustable shelves is a perfect accessory to the Two Tier and General Storage Cabinets. Mounts right on top to double your storage area in just minutes. Height: 34"; Depth: 10".

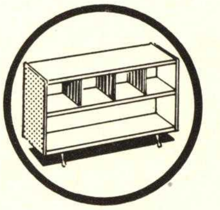
Brunswick MOVABLE CABINETS

exclusive advanced design features



Open Shelves or Doors

Sliding doors are available in a choice of six colors. Back panels are constructed of sturdy hardboard. Doors are automatically fixed in sliding position when cabinet side-panels are assembled.



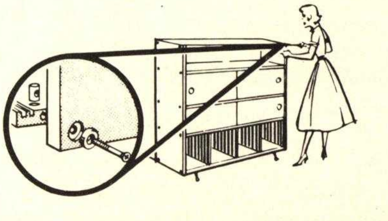
Full or Divided Shelves

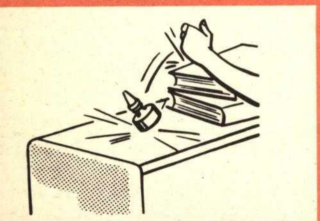
All shelves may be vertically divided with partitions extending from front to rear. Shelves are provided with pre-drilled anchor holes for this purpose.

It's all done with the turn of a screwdriver . . .

EXCLUSIVE "ONE TOOL" ASSEMBLY

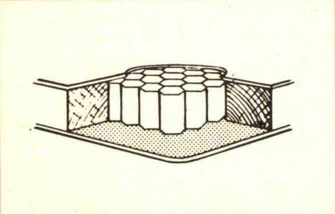
Any cabinet can be assembled in a matter of minutes with a Phillips screwdriver. Phillips head screws fit easily into pre-threaded metal ferrules which are permanent parts of all fixed shelves. Ferrules do not enlarge with use as do screw holes in wood. When panels are fastened into place all other components including doors, back panels and shelf dividers are locked in position. Once assembled, cabinets are more sturdy, more durable than any custom-made fixed cabinet installation.





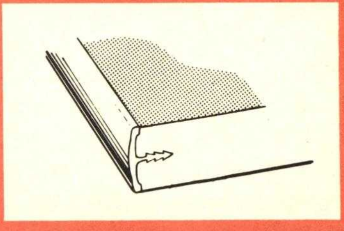
rotective Melamine Plastic Finish

he topmost surface of every cabinet, in its role
a work surface, needs and gets the double
otection of an impervious hide of pupil-proof
elamine plastic. It's approved by N.E.M.A.
addition, all surfaces receive a hard protective
ndercoat that acts as a tough, binding adhesive
r a sprayed on coat of sage grey finish.



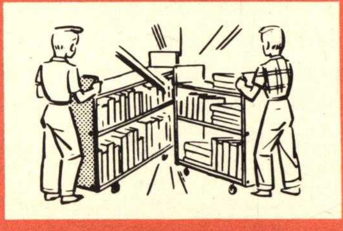
Reinforced Honeycomb Construction

Greater strength and mass without weight, plus resistance to warpage, is achieved by using an exclusive honeycomb core construction. A kraft material is formed in a honeycomb, impregnated with phenolic resin for extra durability, then sandwiched between two panels of strong, tempered hardboard in a hardwood frame.



Inlaid Plastic Edging

End panel, adjustable shelf and divider edges are faced with a strip of durable, smooth-surfaced ethyl cellulose plastic. Prevents cabinet from bruising, marring, markings. Strip is inlaid into middle layer of plywood panel, will not come loose during life of cabinet.

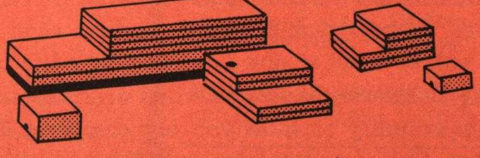


Rugged, Tempered Hardboard

The constant movement of books, materials and supplies in and out of cabinets calls for tough, long lasting construction materials. To stand up to this duty, Brunswick selected a well-muscled, tempered hardboard which gives it extreme durability and resistance to damage from liquids, abrasives and cuts.

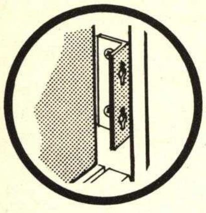
Shipped Flat . . . Stored Flat

Brunswick Cabinets are shipped "KD" (knocked down). All components for one cabinet packed in one carton. You save excessive freight charges on valueless bulk. In-school storage and handling are simplified. It is another example of how Brunswick Advanced Design keeps the total budget of the school official in mind.



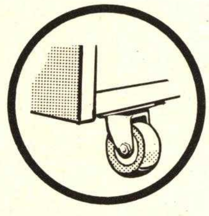
5 FUNCTIONAL MOUNTINGS

Brunswick Cabinets may be fitted with interchangeable wall mountings . . . casters . . . legs . . . bases—a choice which assures complete flexibility to satisfy any and all curricular needs.



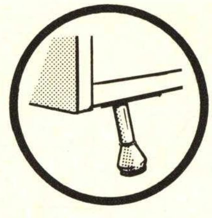
On the Wall

Can be simply and rapidly mounted on a wall through use of heavy-guage angle steel wall mounting brackets. This provides a semi-permanent installation. May be mounted with or without back panels.



On Wheels

Free-rolling, rubber-tired casters may be affixed to any unit (except Toy Storage Table and Cabinet Sink units) for complete "'round the school" mobility. Standard on Book Truck and Toy Cart.



On the Floor

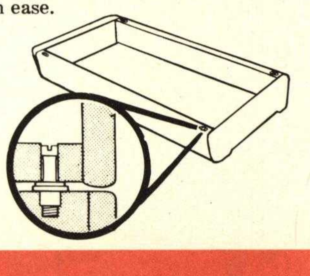
Heavy-gauge, welded steel legs are equipped with exclusive resilient feet of nonmarking rubber and fitted with hard chrome-plated on-steel glides — assures silent and effortless cabinet movement.

Full and Island Bases

Available in $3\frac{9}{16}$ inch and $5\frac{9}{16}$ inch heights for the 2200 series only, bases extend around four sides of the cabinet. Receding angular design at front and rear affords ample toe-room. Large floor contact area minimizes damage to soft floor coverings. Also available, open front and rear island bases for use in rooms where baseboard heating is employed.

Self-Aligner Simple Screw Leveling Adjustment

Every base-fitted cabinet can be set in perfect horizontal alignment regardless of floor irregularity. The adjustment screw built into the corners of each base can be easily reached from the inside of the cabinet and manipulated with ease.



CONTACT YOUR NEAREST BRUNSWICK DEALER
FOR DETAILED SPECIFICATIONS . . . PRICES . . . MORE INFORMATION

or write The Brunswick-Balke-Collender Company • School Equipment Division • 623 South Wabash Avenue • Chicago 5, Illinois.

Printed in U.S.A.

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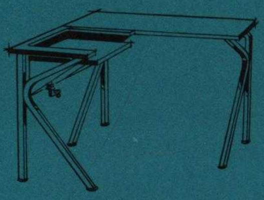
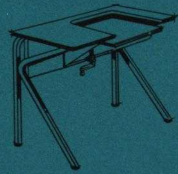
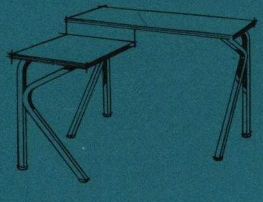
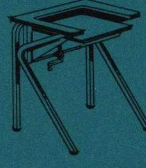
Cramer Profession-L

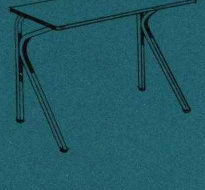
BUSINESS TRAINING LABORATORY FURNITURE
and
OFFICE EQUIPMENT • CHAIRS

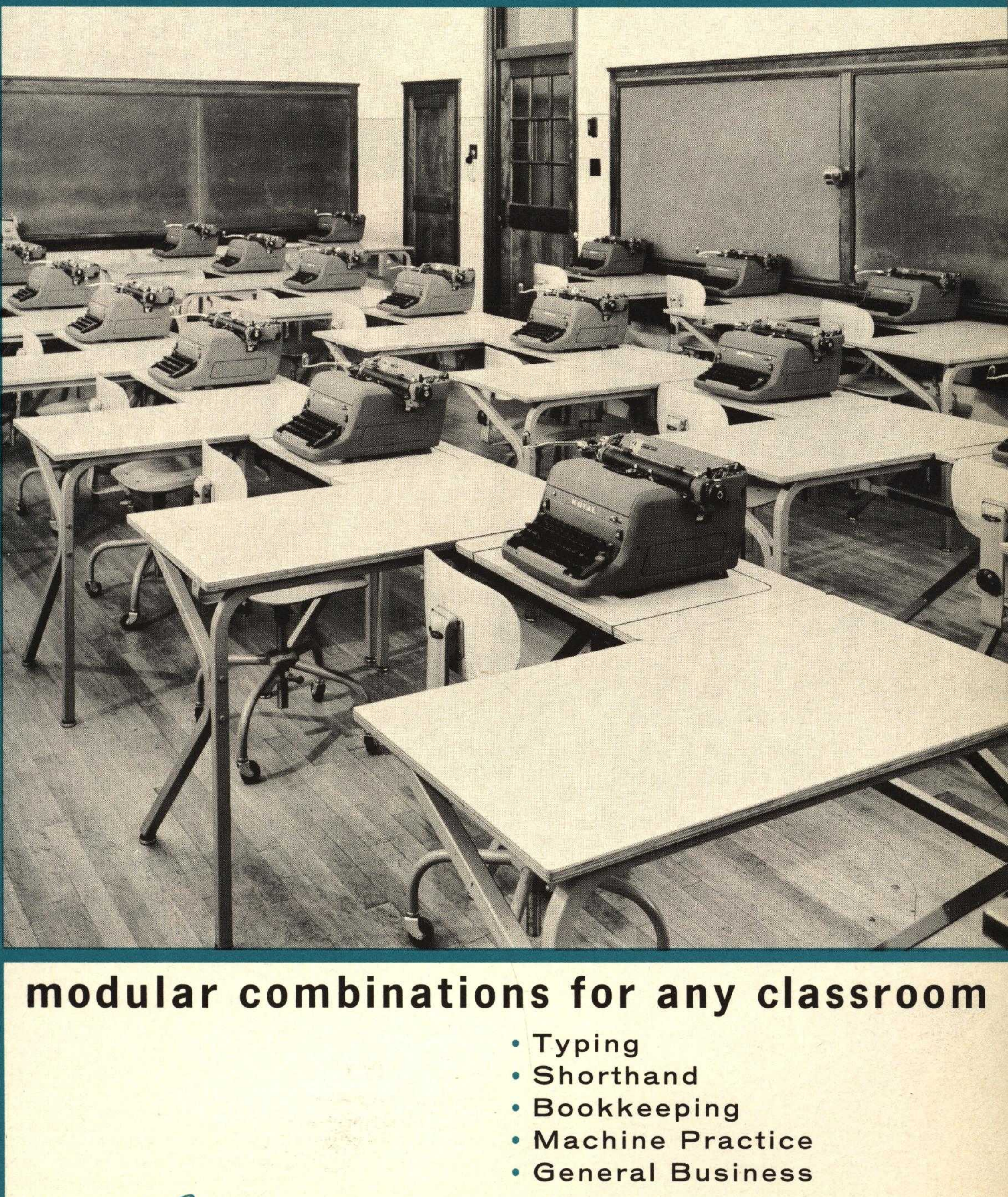












modular combinations for any classroom

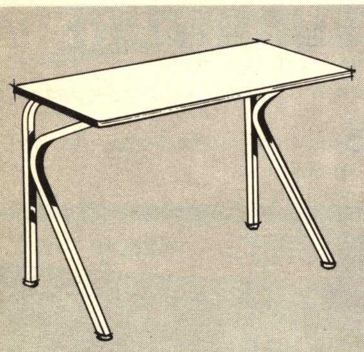
- Typing
- Shorthand
- Bookkeeping
- Machine Practice
- General Business

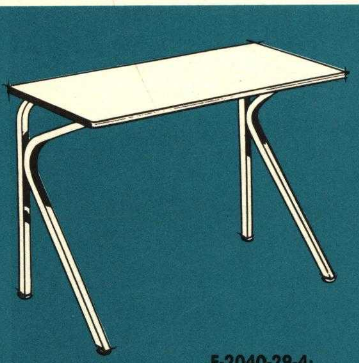
Cramer POSTURE CHAIR COMPANY, INC., 625 ADAMS • KANSAS CITY 5, KANS.

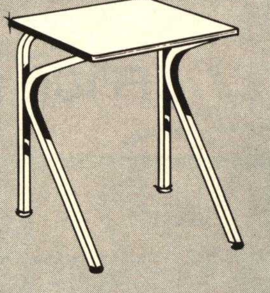
Cramer Profession-L

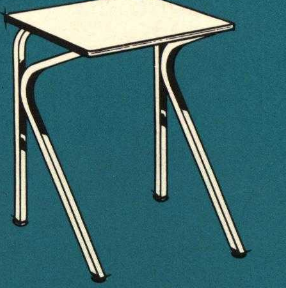
BUSINESS TRAINING LABORATORY FURNITURE

7 FREE STANDING DESKS


F-2040-26-4:
Top 20"x40", stands 26" high.


F-2040-29-4:
Top 20"x40", stands 29" high.


F-1824-26-4:
Top 18"x24", stands 26" high.


F-1824-29-4:
Top 18"x24", stands 29" high.

plus famous

CRAMER POSTURE CHAIR

Encourages correct posture habits, lessens fatigue. Simple 3-way adjustment for seat height, depth and back height. Swivel or non-swivel.

MODEL SL-6-N with rubber cushion glides. Seat height adjustment: 15½" to 19".

MODEL SL-6-NC with ball-bearing casters. Seat height adjustment: 15½" to 19".

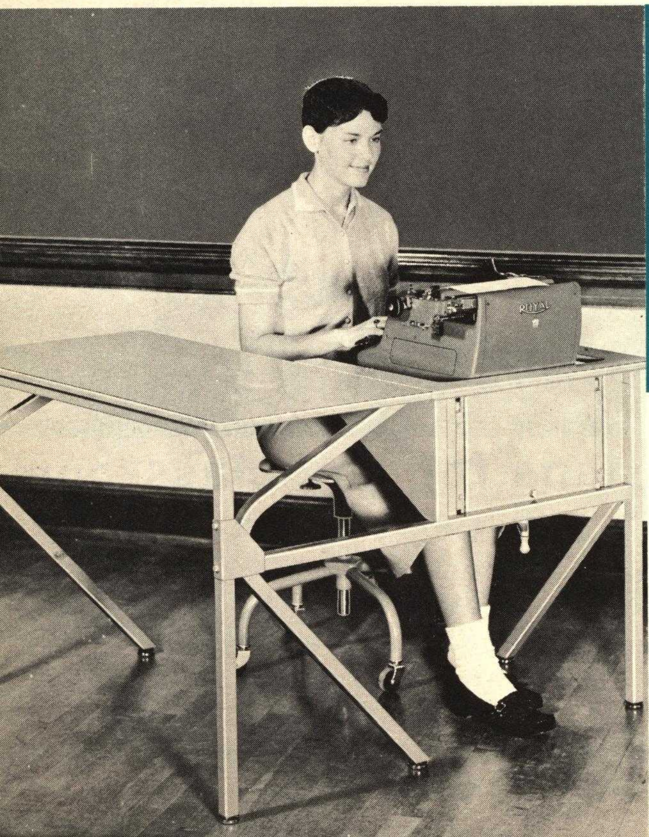
MODEL SL-6-N

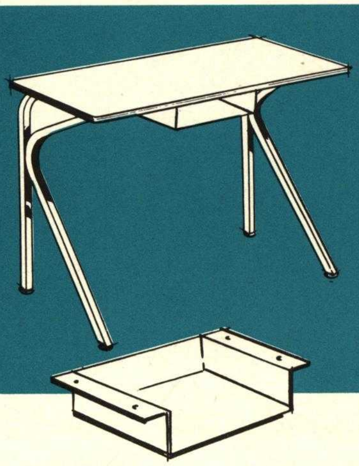
This exclusive series offers the most versatile school furniture designed in modular units for teaching typing, shorthand, bookkeeping, machine practice and general business.

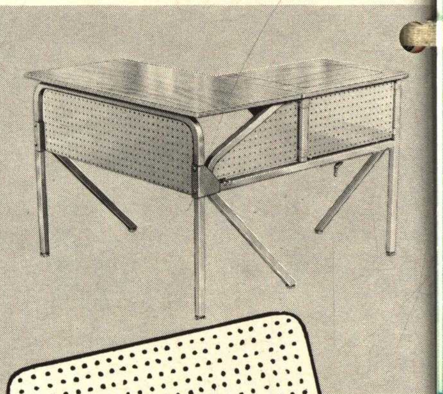
AUXILIARY UNITS

Three basic auxiliary units, all with tops 18"x24", can be attached to the larger, free-standing desks (with tops 20"x40") to give a wide variety of modular groups for any requirement.

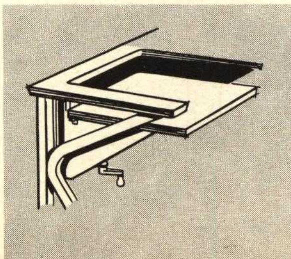
Note: All left and right designations are determined from the position of the student sitting at the **front** of the desk.



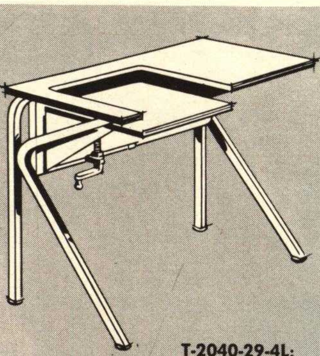

ATTACHABLE BOOKSHELF
Adequate size


MODESTY PANELS
to fit all basic units.

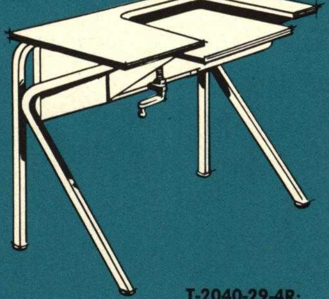
HEIGHT ADJUSTMENT FOR TYPEWRITER DESKS
Micromatic screw raises or lowers heaviest typewriters quickly, easily.



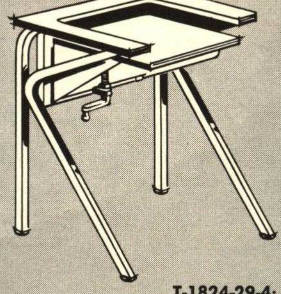
7 FREE STANDING DESKS
+3 BASIC AUXILIARY UNITS=
100's OF MODULAR COMBINATIONS



T-2040-29-4L: Typewriter top, 20"x40", 29" high, left.

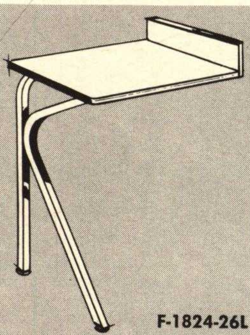


T-2040-29-4R: Typewriter top, 20"x40", 29" high, right.

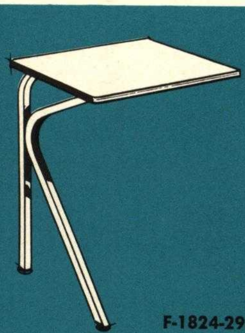


T-1824-29-4: Typewriter top, 18"x24", 29" high, center.

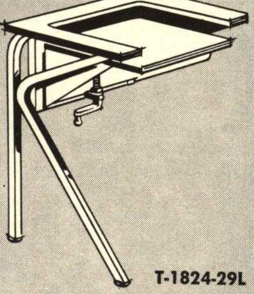
3 BASIC AUXILIARY UNITS



F-1824-26L
Top 18"x24", stands 26" high. left hand attachment.

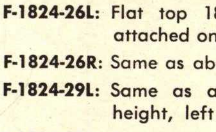


F-1824-29L
Top 18"x24", stands 29" high. left hand attachment.

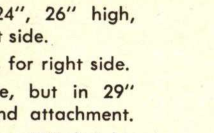


T-1824-29L
Typewriter top, 18"x24", 29" high, left hand attachment.

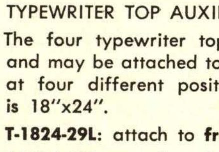
1. FLAT-TOP UNITS TO ATTACH TO **FRONT**
   These flat top units, all with 18"x24" tops, are available in both 26" and 29" heights.
   - **F-1824-26L:** Flat top 18"x24", 26" high, attached on left side.
   - **F-1824-26R:** Same as above, for right side.
   - **F-1824-29L:** Same as above, but in 29" height, left hand attachment.
   - **F-1824-29R:** Same as above, 29" height, right hand attachment.
2. FLAT-TOP UNITS TO ATTACH TO **BACK**
   These units are same as four above, except designed for back attachment. The model numbers for back attachment are indicated by (Z) designation.
3. TYPEWRITER TOP AUXILIARY UNITS
   The four typewriter top units are 29" high, and may be attached to the free-standing desk at four different positions. Overall top size is 18"x24".
   - **T-1824-29L:** attach to **front, left** side.
   - **T-1824-29R:** attach to **front, right** side.
   - **T-1824-29ZL:** attach to **back, left** side.
   - **T-1824-29ZR:** attach to **back, right** side.



ADJUSTABLE GLIDES
are rubber cushioned, front glides adjustable to compensate for uneven floors. Eliminates vibration and travel.



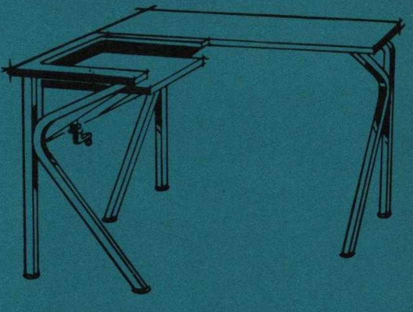
PLASTIC SURFACE
Tops are ¾" thick, with 7-ply hardwood core and high pressure laminated plastic surfacing on top and bottom.



FRAME CONSTRUCTION
of 16 gauge 1⅛" sq. tubing. Smooth rounded edges prevent scratches and snags. Rigid.

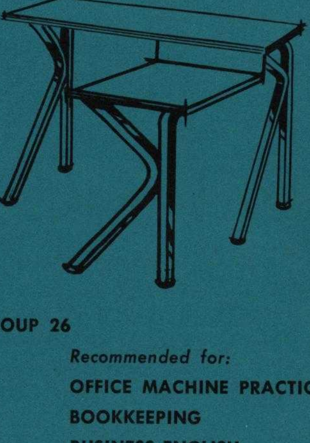
DURABLE FINISH
Electrostatic sprayed baked enamel, choice of dawn blue, rock rose, flora green, mist green, silvertone, copper tan and driftwood tan. Highly resistant to scratching and chipping.

SOME SUGGESTED COMBINATIONS



GROUP 25

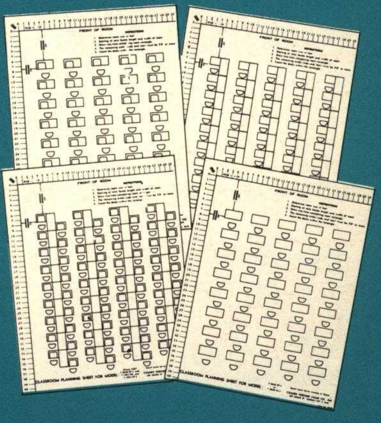
Recommended for:
TYPING
BOOKKEEPING
SHORTHAND
SECRETARIAL TRAINING
BUSINESS PRACTICE



GROUP 26

Recommended for:
OFFICE MACHINE PRACTICE
BOOKKEEPING
BUSINESS ENGLISH
BUSINESS LAW

NOTE:
Write for complete detailed, scaled drawings and specifications.



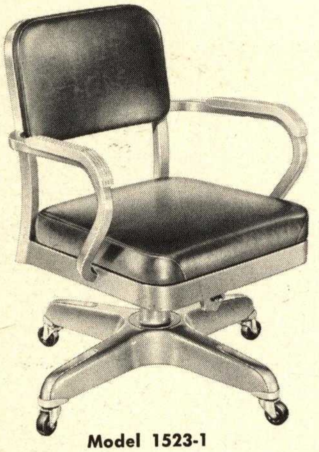
CRAMER POSTURE CHAIR CO., INC.
625 ADAMS ST.
KANSAS CITY 5, KANSAS

Cramer COMPLETE LINE includes
151 different chairs and accessories

ALL NEW! Cramer "V" LINE 1500 SERIES

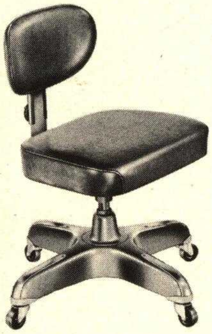
**low-cost matched steel chairs*

Engineered to last a lifetime without expensive maintenance. Finger-tip adjustments. Removable seat and back covers . . . choice of colors and fabrics. 16 different styles for every office seating need.



Model 1523-1

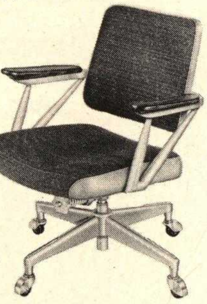
Office chairs and accessories available in dawn blue, rock rose, flora green, mist green, silvertone, copper tan and driftwood tan finishes.



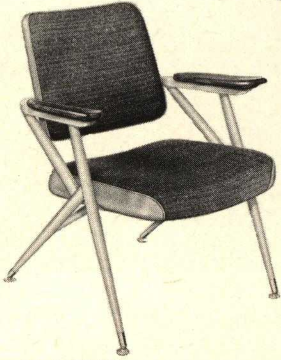
Model 15C-22

Most popular posture chair ever built! Finger-tip adjustments, molded foam latex cushions, removable covers, ball-bearing casters.

CONTEMPORARY "K" LINE



Model 1423



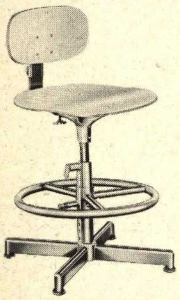
Model 1421

Five chair models, combining smart modern design and unmatched comfort, at reasonable cost. Choice of fabrics, colors.

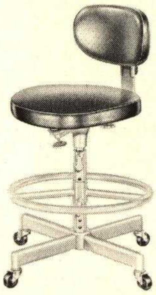
DRAFTING STOOL

Engineered for good posture, comfort. Steel construction with formed plywood seat and back. Natural finish.

Seat size, 17" wide x 13¾" deep.
Back size, 13" wide x 7¼" high.
Seat height, 22" to 31".
Base spread, 22".



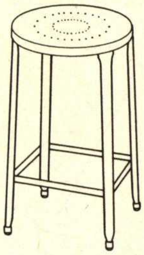
Model 4F-6N



Drafting Stool
Model 4D-22-TC

LABORATORY STOOL

New! Modern

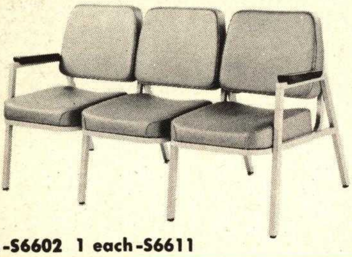


Designed for the laboratory, these versatile stools are useful for many other purposes. The formed steel seat plate, angle legs, and foot-rest brace are welded into a rigid, durable frame. 13½" diameter tempered composition seat. Plastic socket leg tips.

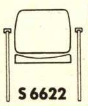
Model 13-LS-24, 24" High
Model 13-LS-26, 26" High

SECTION-L SEATING

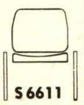
Five chair styles, to group in pairs or multiples. Choice of steel or aluminum frames—wide range of colors, choice of replaceable covers. Write for complete specifications.



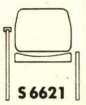
2 each-S6602 1 each-S6611



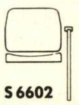
S 6622



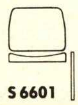
S 6611



S 6621

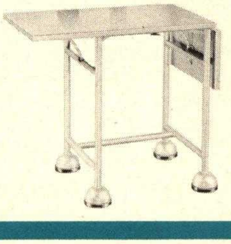


S 6602



S 6601

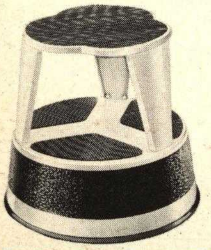
OFFICE MACHINE STAND



MODEL OMS-1

Rigid—holds heaviest machines. Fingertip lever extends casters for easy rolling. With casters retracted, stand "freezes" to floor.

KIK-STEP MAKES YOU 14" TALLER



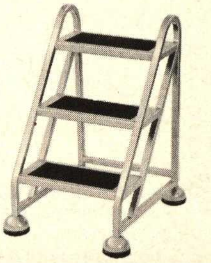
Safest, easiest way to climb. Rolls when you kick it, holds when weight is applied. Exclusive "cloverleaf" design, rubber safety treads. Wide choice of colors.

Coppertan
Desert Sage
Mist Green
Silvertone Grey

Seafoam Blue
Primrose Yellow
Winter Green
Woodtone Biege

Almond Pink
White
Black

STOP-STEPS



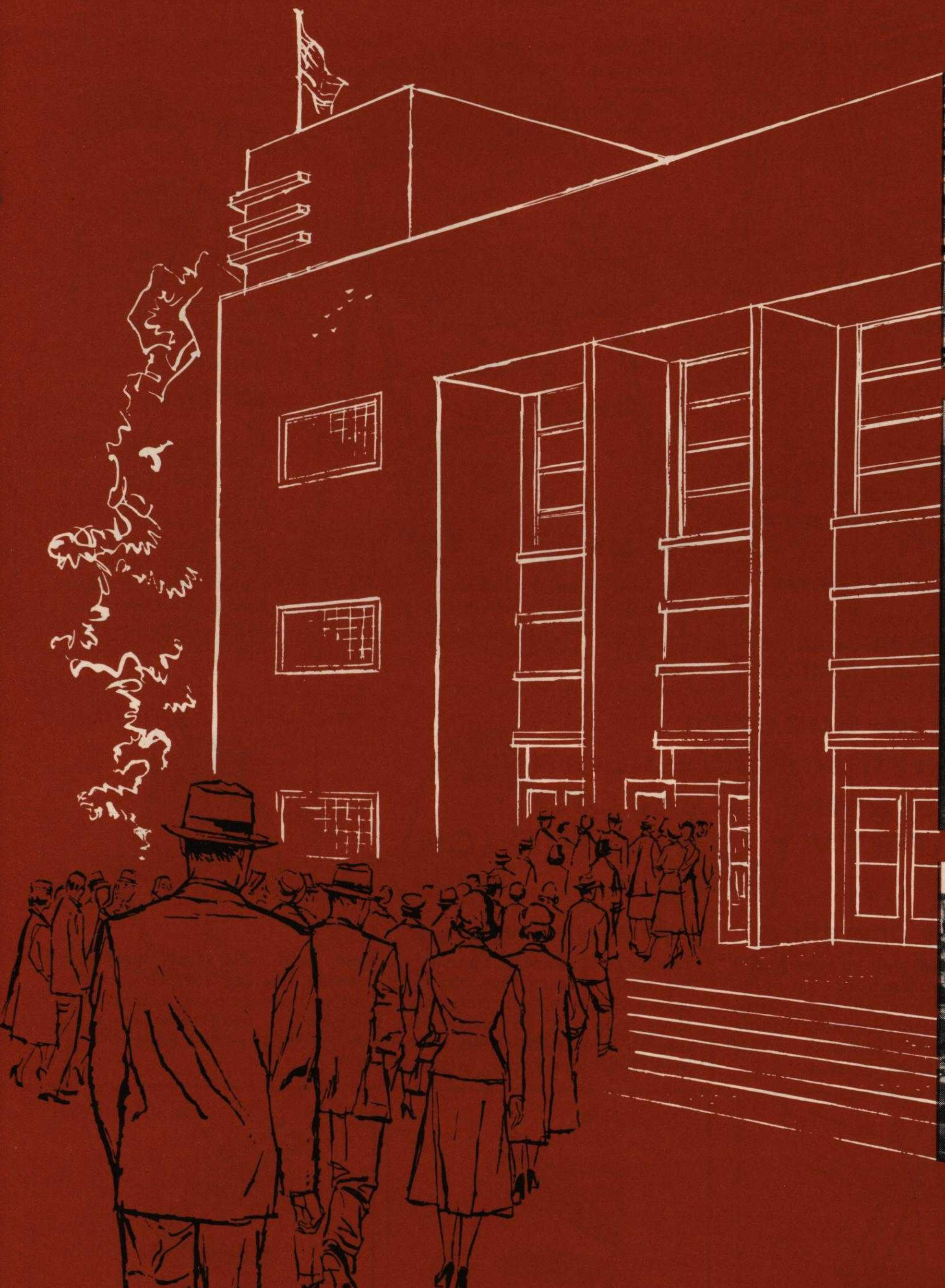
MODEL SS-30

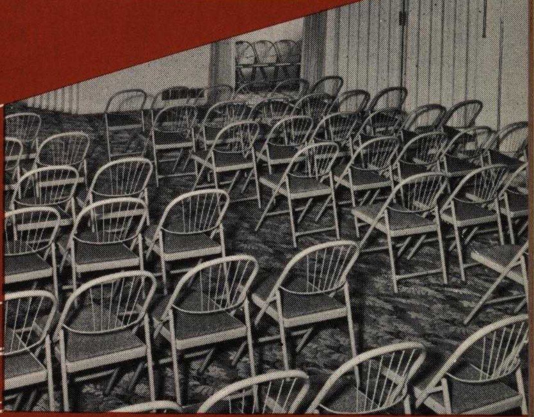
Safer climbing for high work. Available with one to eight steps, with or without handrails.

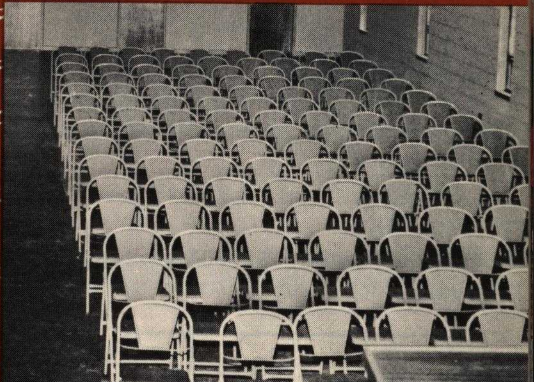
CRAMER POSTURE CHAIR CO., INC. • 625 ADAMS ST. • KANSAS CITY 5, KANSAS

23i
Du

Public Seating Equipment
BY
Durham





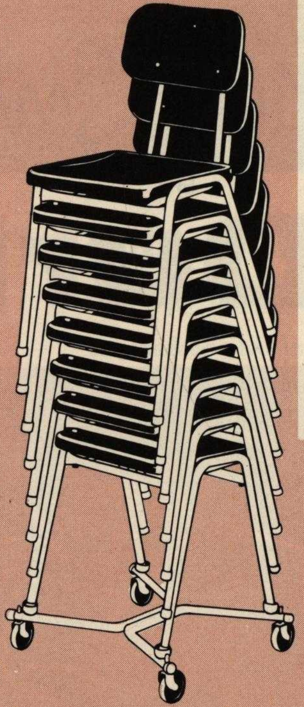


Durham
MANUFACTURING CORPORATION
MUNCIE, INDIANA

Durham......

Wherever people have to be seated in chairs which can be easily and quickly set up, easily removed and stored again, Durham is the logical choice for comfort, strength, beauty, dependability, and long service life.

Durham furniture is the result of more than a half century of experience in product design, development, manufacture, and distribution. Every step in the production process is carefully controlled, to assure that only the best bears the Durham name. Wherever you use them, you're sure of complete satisfaction.



No. 555 STACK CHAIR **No. 225 DOLLY**

Permanent chair utility incorporated in a stack chair. Vinyl plastic laminated to a steel seat and back for luxurious appearance and long wearing qualities. Seat and back won't scratch or mar! All steel tubular frame and legs. Standard dining height and comfortable posture built in. Rubber bumpers protect seats when chairs stacked. Fits standard folding chair trucks; minimum storage space required.

No. 566 Stack Chair. All steel construction. Beige painted finish.

Strong, easy-rolling dolly is specially designed for handling Durham stack chairs. Carries as many as 8 easily, safely.

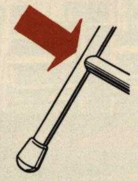
No. 875

Modern tubular frame all-metal folding chair. Posture back and large 16"x16" non-tipping seat.

No. 875TA

Folding tablet armchair. Same as 875 with large tablet arm 12"x24". 5 ply hardwood core base with high pressure plastic laminated face. Exclusive Wrap Rack on back. Compact storage; folded, 39½" high and 5" deep.

these superior construction features guarantee COMFORT · SAFETY · CONVENIENCE

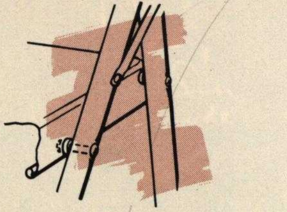


electronic braze

Die-cut tubular rear leg brace electronically welded with silver solder; 360° welded surface; strength unsurpassed in any type of chair construction.

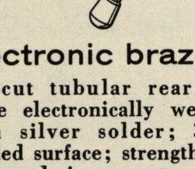
easy operation

To fold, step on rear brace, pull up on back. To open, bear down on chair back. Safety link prevents tipping of seat if someone stands on it front or rear.



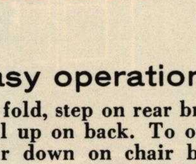
eyelet spacers

Four eyelet spacers, fastened forever, hold solid steel rivets joining chair seat to legs. Spacers provide bearing surface for free-riding rivets to turn smoothly, silently. Spacers bear weight when chair is in use. Exclusive with Durham . . . positive assurance of smooth operation, strength and safety. Fully curled edge of steel seat eliminates rough, sharp edges.



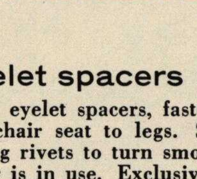
thick rubber foot

Rounded metal cap on steel leg protects rubber foot, lets it revolve for uniform wear. Rubber foot extra thick at base; thinner wall at top assures adhesion to steel leg.



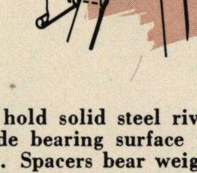
reinforcement

Channel frame chairs have cross braces embossed for strength, double riveted to legs. Flat rubber feet held by washer inside channel, easily removed for replacement.



3-way economy

"X" type Durham channel frame chairs save time, space, labor in setting up, clearing auditorium. Fold, unfold quickly, easily. Stack compactly, store in minimum space.



easy ganging

Clamps with quickly tightened wing nuts permit easy ganging. Use No. 800 clamps for tubular frames (**3** between chairs); No. 600 clamps for channel frames (**2** between chairs).

public seating equipment

product information

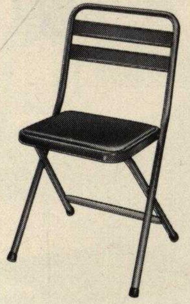
style no.	colors	frame	seat material	ht. folded	ht. open	overall width	seat width	seat depth	seat ht.	depth back	floor space width	floor space depth	wt. per carton
555	Bronze/russet brown	tubular	vinyl/clad steel	non-fold	30⅞″	17″	14¼″	14¼″	18″	7½″	17″	18½″	45 lbs.
566	Beige	tubular	steel	"	"	"	"	"	"	"	"	"	"
902	see lists A and B	tubular	upholstered	35½″	30⅜″	16¾″	14⅜″	14¼″	17¼″	8″	16¾″	19½″	43 lbs.
873	see list B only	tubular	upholstered	38⅞″	30¾″	18¼″	16″	16″	17¼″	11⅛″	18¼″	20⅝″	53 lbs.
874	Beige, taupe or brown	tubular	wood panel	38⅞″	30¾″	18¼″	16″	16″	17¼″	7⅝″	18¼″	20⅝″	56 lbs.
875	Beige, taupe or brown	tubular	steel	38⅞″	30¾″	18¼″	16″	16″	17⅝″	7⅝″	18¼″	20⅝″	48 lbs.
877	see lists A and B	tubular	upholstered	38⅞″	30¾″	18¼″	16″	16″	17¼″	7⅝″	18¼″	20⅝″	51 lbs.
868	see lists A and B	tubular	upholstered	38⅞″	30¾″	18¼″	16″	16″	17¼″	11⅛″	18¼″	20⅝″	56 lbs.
605R	Beige, taupe or brown	channel	steel	37⅜″	32⅜″	16⅞″	14⅞″	13⅝″	17½″	7½″	16⅞″	20⅜″	48 lbs.
625	Beige, taupe or brown	channel	steel	"	"	"	"	"	"	"	"	"	49 lbs.
527	see list B only	channel	upholstered	37⅜″	32⅞″	16¾″	14⅜″	14¼″	17½″	7½″	16¼″	20″	44 lbs.
305	Beige, taupe or brown	channel	steel	35¾″	31⅜″	15⅛″	12½″	13″	17½″	7″	15⅛″	19″	33 lbs.
316	Greige/red, greige/chocolate	channel	leatherette	"	"	"	"	"	"	"	"	"	"
251	see list A—also greige/red or greige/chocolate	tubular	panelled	27½″	23½″	14⅜″	12½″	11″	14¼″	6¾″	14⅜″	16″	13 lbs.*
252	see list A	tubular	upholstered	"	"	"	"	"	"	"	"	"	14 lbs.*
305J	Beige, taupe or brown	channel	steel	30″	26″	15⅛″	12½″	11″	13″	7″	15⅛″	16⅜″	28 lbs.
318J	see list A only	channel	leatherette	"	"	"	"	"	"	"	"	"	"

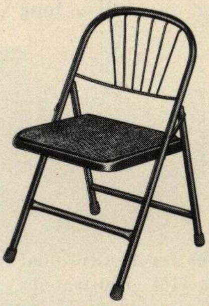
Color list A:
Beige/Chocolate
Taupe/Chocolate

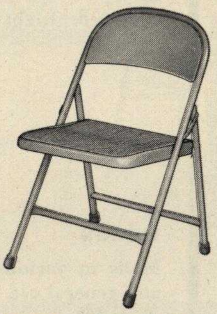
*Wt. of 2 chairs per carton.

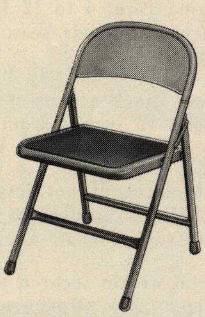
Color list B:
Greige/Red
Greige/Spice Brown
Greige/Turquoise
Black/Red
Black/Charcoal
Black/Oyster
Bronze/Oyster

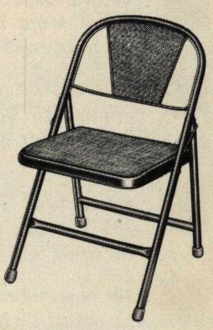
tubular construction


No. 902. New ladder back. Upholstered seat.

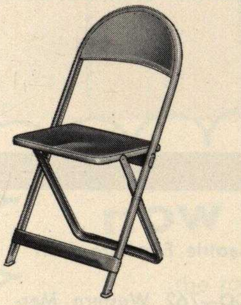

No. 873. Upholstered seat. Wire back.

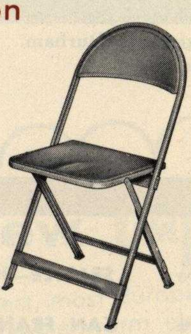

No. 874. Five (5) ply wood seat riveted on steel pan.

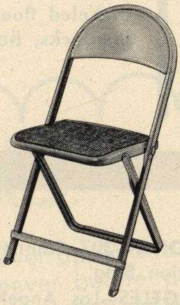

No. 877. Upholstered seat and enameled steel back.

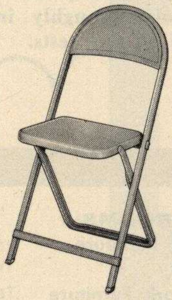

No. 868. Debonair. Upholstered seat and back.

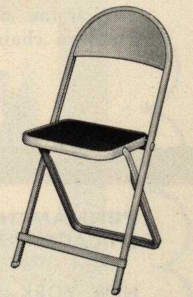
channel construction


No. 605R. U-leg chair. Saddle seat.

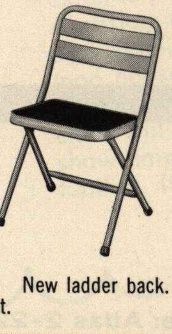

No. 625. 4-leg chair. Saddle seat.

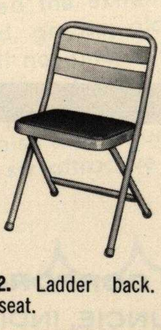

No. 527. U-leg chair. Upholstered seat.

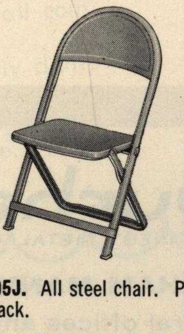

No. 305. U-leg. All steel chair. Dual-curved back.

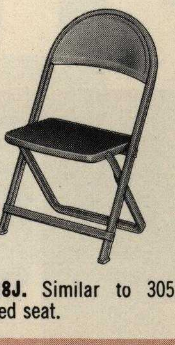

No. 316. U-leg chair. Panelled seat in leatherette.

juvenile chairs


No. 251. New ladder back. Panelled seat.

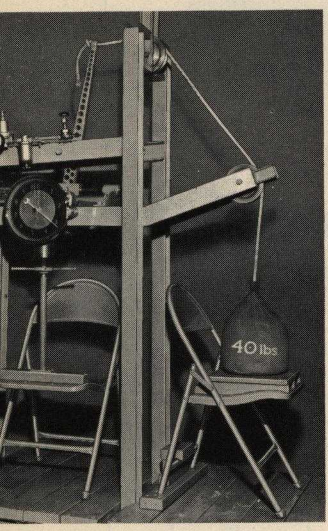

No. 252. Ladder back. Upholstered seat.


No. 305J. All steel chair. Posturized back.


No. 318J. Similar to 305J with panelled seat.

Durham . . . *public seating equipment*

tests



Durham chair tests

In our own and in independent testing laboratories, Durham chairs are subjected to exhaustive, demanding tests, among which are five developed by the U. S. Bureau of Federal Supply:

1 **Brace Test** Static force of 300 lbs. applied vertically to center of rear leg cross brace, uniformly distributed over distance of 4″ about center line.

2 **Vertical Impact Test** 40 lb. sandbag dropped 10,500 times, from heights ranging from 4 to 12 inches, on hardwood board attached to chair seat.

3 **Seat Test** Static pressure of approximately 300 lbs. applied to ¾″ thick wood block resting on seat, with center point of block 12 inches from edge of seat.

4 **Frame Test** Vertical static force of not less than 295 lbs. nor more than 305 lbs. applied to block of wood 4″ long fitted to top of chair back.

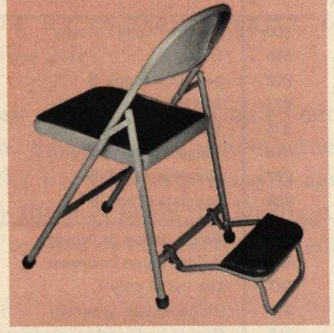
5 **Tilt Impact Test** 76 lb. metal weight secured to seat at point 5″ from rear edge. Chair tilted rearward until front legs are 4″ from floor and released at rate of approximately 25 drops per minute for 20,000 impacts.

After each test chairs are carefully measured for any frame deflection and thoroughly inspected. Durham chairs withstand all five tests.

accessories

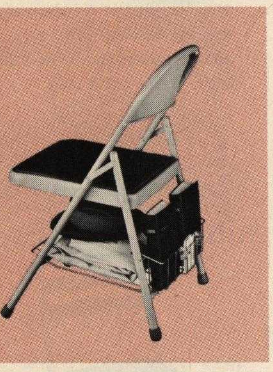
kneeler—7001

Clamps to rear brace of any Durham tubular folding chair. Folds compactly within chair for storage; can be tilted up under seat to keep aisle clear. Firm density foam rubber pad ½″ thick on ⅜″ plywood base; covered with chocolate vinyl leatherette. Top size 12″x 5″; height 6″; overall length, including clamps, 13″.



book hat rack—7008

Made of bronze plated wire. Holds two hymnals, two communion cups, offering envelopes. Under seat storage rack for hats and coats. Chair folds flat with rack attached, holding hymnals or empty. Cups rest securely yet easily removed. Lightweight, attractive, long lasting.



tables

Made in various styles for institutional and general use. Table 34M (illustrated) is standard card table size, adaptable to many purposes. Has 30″ square tempered Masonite top with Benite finish, supported by steel cross braces. Deep ribbed frame. One-inch tapered steel legs with nickeled floor glides; positive Durham leg locks, fingertip release.

PERMANENT SHOW ROOMS:

CHICAGO—946 American Furniture Mart
NEW YORK—906 New York Furniture Exchange
HIGH POINT—307 Southern Furniture Exposition Bldg.
LOS ANGELES—Los Angeles Furniture Mart
SEATTLE—801 Seattle Furniture Mart
SAN FRANCISCO—762 Western Merchandise Mart
INTERNATIONAL DIV.—6643 N. Oliphant Ave., Chicago 31, Illinois. Cable Address: DENEXCO

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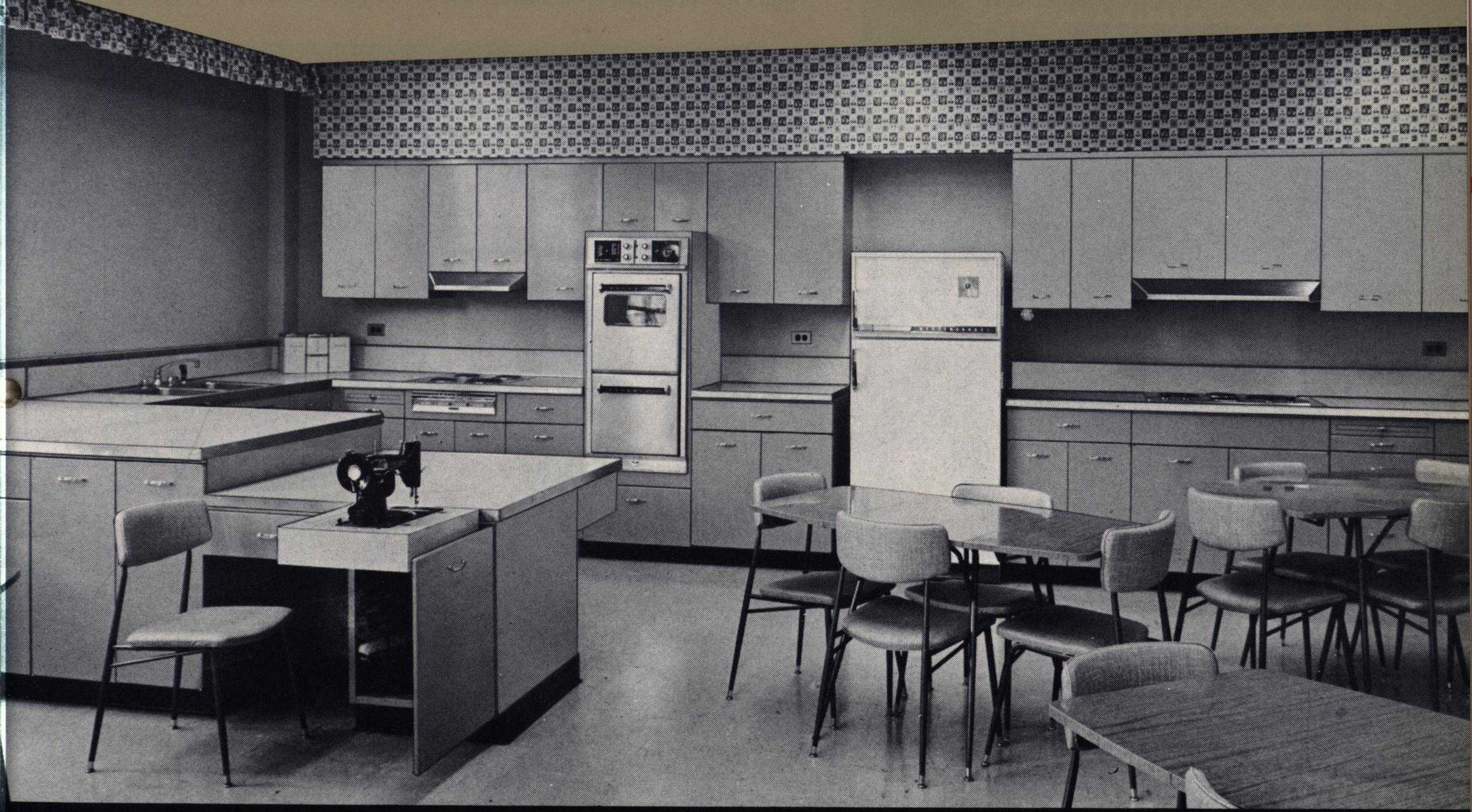
KITCHENS

STEEL CASEWORK
FOR SCHOOLS AND COLLEGES



FOOD AND CLOTHING LABORATORIES • ARTS AND CRAFTS ROOMS

now new Impasto.

. . . the toughest, most durable finish ever applied to cabinets. Here is unbelievable warm elegance, never before possible in steel cabinet design. Impasto imparts a soft, textured effect that eliminates the high gloss and highlights of baked-on enamel. It is not simply a new finish, but a far superior finish that is extremely resistant to marring, chipping, scratching, and staining. Abrasion tests have proved the extreme durability of Impasto, and indelible ink, mustard, grease, alcohol, vinegar — all common household items, will not phase this new finish.

Maintenance is practically nil with Impasto. A slightly damp cloth will whisk away any spots or dust. Fingerprints just don't show. Impasto textured finish affords unlimited decorating opportunities. It is available in six attractive colors, plus white.

easy to clean, stain resistant

unlimited decorating opportunities

quiet as a whisper

ENEVA MODERN KITCHENS Div. of Acme Steel Co. **GENEVA, ILLINOIS**

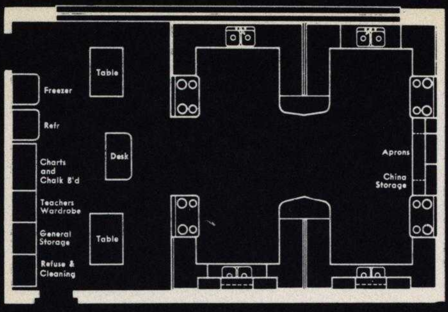


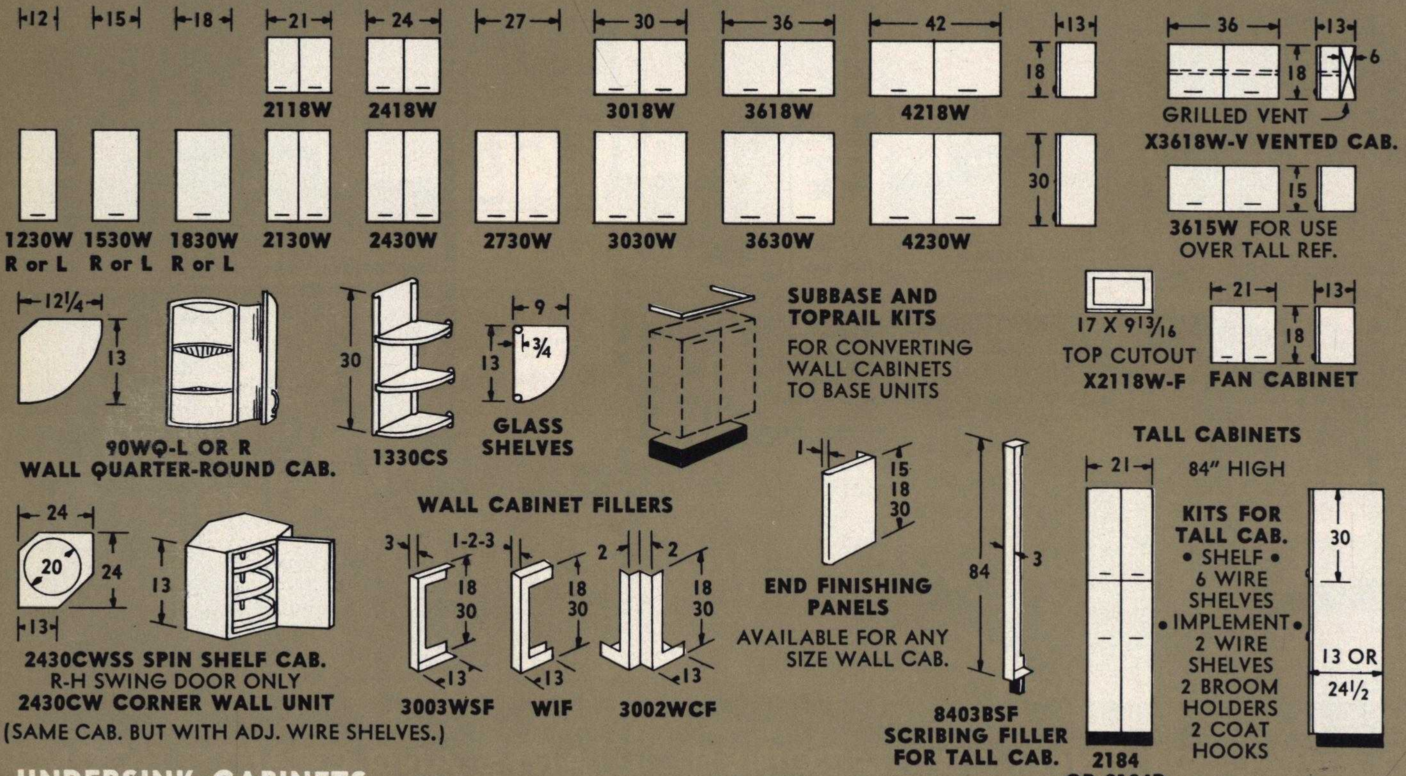
Table
Freezer
Refr
Desk
Charts and Chalk B'd
Aprons
China Storage
Teachers Wardrobe
General Storage
Table
Refuse & Cleaning

FOOD LABORATORIES

The basic line dimensioned on these two pages gives complete flexibility in planning Foods Laboratories. Any space can be planned exactly the way you want it with this wide assortment of standard size cabinets. It may also be used in conjunction with the Clothing Laboratory and Arts and Crafts lines which are detailed on the following pages. Architects and teachers alike hail the quality of Geneva casework as ideal for school use because the maintenance is negligible. Geneva's finish keeps its luster, doesn't chip or crack.

BASIC LINE

WALL CABINETS


12
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9
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13
3
1-2-3
18
30
2
2
18
30
18
30
13
13
13
1
15
18
30
84
3
21
21
13
18
30
13 OR
24½

2118W **2418W** **3018W** **3618W** **4218W**

GRILLED VENT
X3618W-V VENTED CAB.

1230W R or L **1530W R or L** **1830W R or L** **2130W** **2430W** **2730W** **3030W** **3630W** **4230W**

3615W FOR USE OVER TALL REF.

90WQ-L OR R WALL QUARTER-ROUND CAB.

1330CS

GLASS SHELVES

SUBBASE AND TOPRAIL KITS
FOR CONVERTING WALL CABINETS TO BASE UNITS

17 X 9$^{13}/_{16}$
TOP CUTOUT
X2118W-F

FAN CABINET

2430CWSS SPIN SHELF CAB.
R-H SWING DOOR ONLY
2430CW CORNER WALL UNIT
(SAME CAB. BUT WITH ADJ. WIRE SHELVES.)

WALL CABINET FILLERS

3003WSF **WIF** **3002WCF**

END FINISHING PANELS
AVAILABLE FOR ANY SIZE WALL CAB.

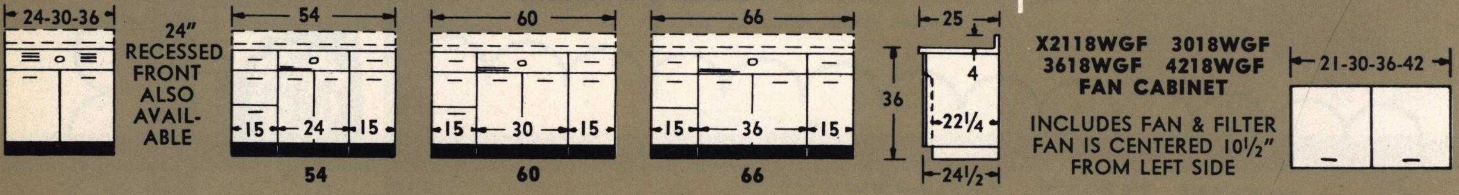
8403BSF SCRIBING FILLER FOR TALL CAB.

TALL CABINETS
84" HIGH

2184 OR 2184D

KITS FOR TALL CAB.
- SHELF -
6 WIRE SHELVES
- IMPLEMENT -
2 WIRE SHELVES
2 BROOM HOLDERS
2 COAT HOOKS

UNDERSINK CABINETS


24-30-36
54
15
24
15
60
15
30
15
66
15
36
15
25
4
36
22¼
24½
21-30-36-42

SINK CAB

24" RECESSED FRONT ALSO AVAILABLE

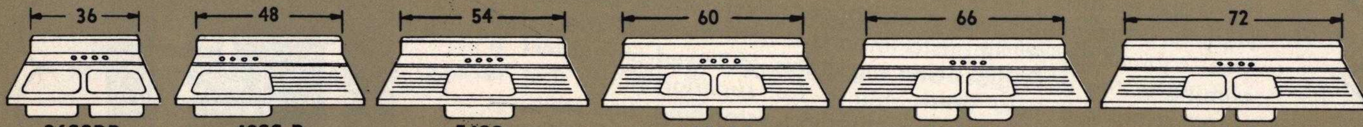
UNDERSINK CABINETS

54 **60** **66**

X2118WGF 3018WGF 3618WGF 4218WGF FAN CABINET

INCLUDES FAN & FILTER
FAN IS CENTERED 10½" FROM LEFT SIDE

STAINLESS SINKS


36
48
54
60
66
72

36SSDB **48SS-R** **54SS** **60SSDB** **66SSDB** **72SSDB**

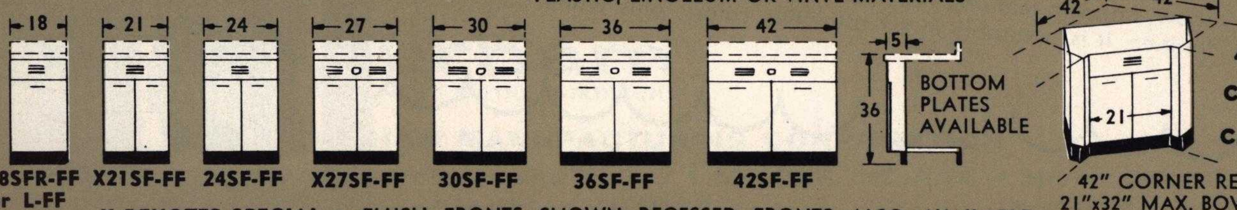
SINK FRONTS

OTHER SINKS

PORCELAIN — 42"R OR L — 54"SB — 66"DB

SB — SINGLE BOWL
DB — DOUBLE BOWL

CUSTOM SINK TOPS IN ANY SIZE OR SHAPE WITH PLASTIC, LINOLEUM OR VINYL MATERIALS


18
21
24
27
30
36
42
5
36
42
42
21

X18SFR-FF or L-FF **X21SF-FF** **24SF-FF** **X27SF-FF** **30SF-FF** **36SF-FF** **42SF-FF**

BOTTOM PLATES AVAILABLE

42CSC

CORNER SINK CABINET

42" CORNER REQUIRED
21"x32" MAX. BOWL SPACE

X DENOTES SPECIAL — FLUSH FRONTS SHOWN RECESSED FRONTS ALSO AVAILABLE

There are hundreds of Geneva installations in clasrooms throughout the country. Your Geneva distributor will be glad to give you a list to visit in order that you can see for yourself how they can be adapted to any particular requirement.

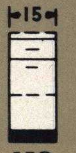
Color plays an important role in any school room design. Geneva offers at no extra cost a selection of six pastel colors. Each color is carefully calculated to coordinate with other colors and all are easy to decorate around. Many schools have combined as many as three or four different colors into one large department with delightful results.

Geneva
KITCHENS

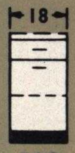
FOOD LABORATORIES

BASE CABINETS

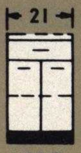
BASE CUPBOARD CABINETS



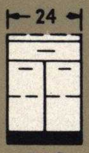
15C R or L



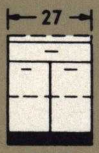
18C R or L



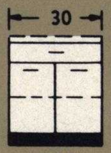
21C



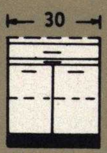
24C



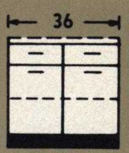
27C



30C

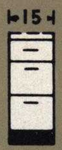


30POC
PULL-OUT TABLE

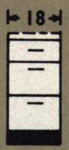


36C

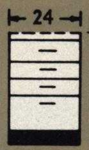
BASE DRAWER CABINETS



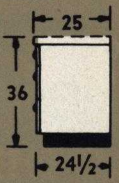
15D



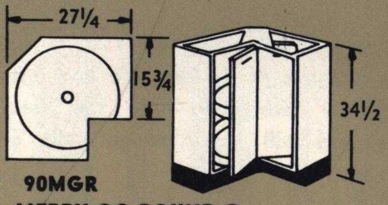
18D



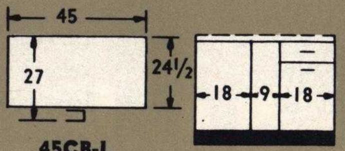
24D4

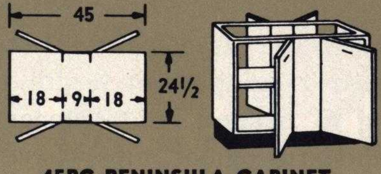


BASE CORNER CABINETS

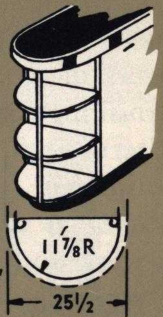


90MGR
MERRY-GO-ROUND D
(REQUIRES 36" CORNER SPACE)

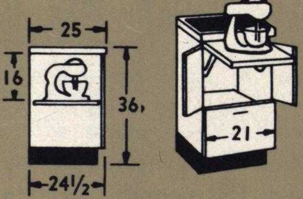

45
27
24½
18
9
18
45CB-L
CORNER BASE CABINET
L-H SHOWN 45CB-R OPPOSITE

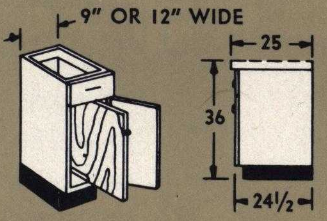

45
18
9
18
24½
45PC PENINSULA CABINET

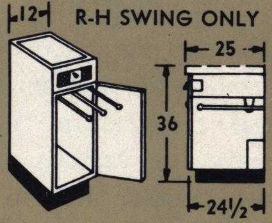
BASE SHELVES

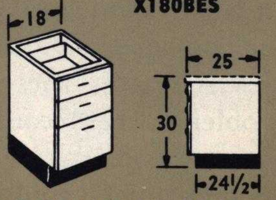


TOP DIMENSION FOR ISLAND 25½" WHEN USED AGAINST WALL 25"
X180BES

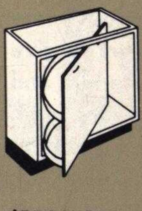

25
16
36
24½
21
21MC MIXER CABINET

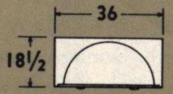

9" OR 12" WIDE
25
36
24½
9 OR 12UT UTENSIL CABINET
R-H SWING ONLY


12
R-H SWING ONLY
25
36
24½
X12TD TOWEL DRYER CAB.

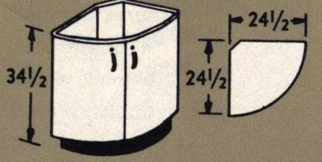


18DTH-3 TABLE HIGH DRAWER

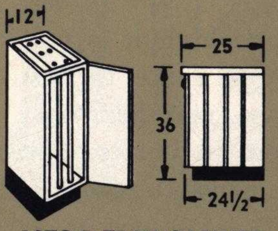




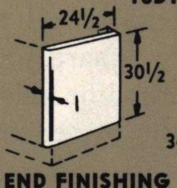
36TAB
TURNABOUT CABINET
(REQUIRES 45" CORNER SPACE)



90QR QUARTER ROUND

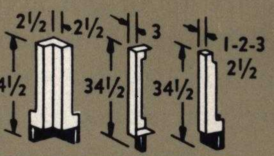


12TC-R TRAY CABINET



END FINISHING PANELS AVAILABLE FOR ANY SIZE BASE CAB.

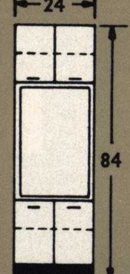
BASE CABINET FILLERS


2½
2½
3
1-2-3
2½
34½
34½
34½
3402½BCF BSF BIF

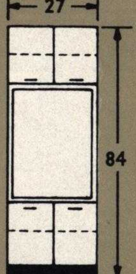
RANGE AND OVEN CABINETS

BUILT-IN OVEN CABINETS (24½" DEEP)

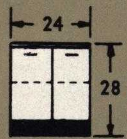
BUILT-IN RANGE CABINETS (24½" DEEP)



2484OC

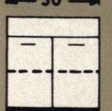


2784OC

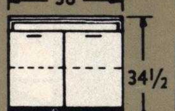


X24COC

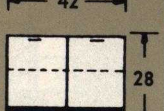
THESE AND OTHER OVEN AND RANGE CABINETS WILL FIT MOST MANUFACTURER'S MODELS. ANY SPECIAL SIZE CAN BE MADE. SPECIFY MODEL NUMBER OF APPLIANCE.



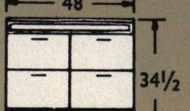
30RC



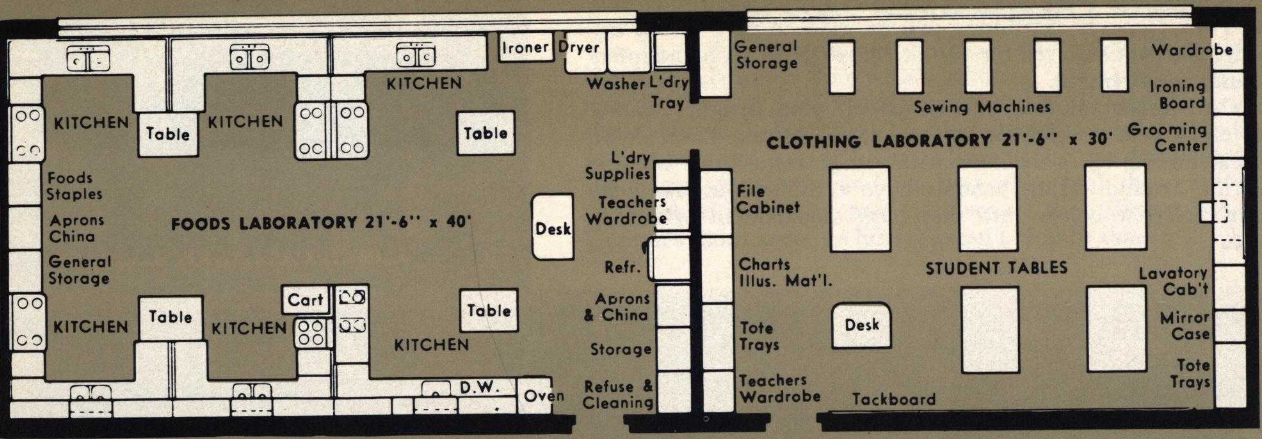
36RC



X42CRC



48RD


Ironer
Dryer
Washer
L'dry Tray
General Storage
Wardrobe
KITCHEN
KITCHEN
Table
KITCHEN
Table
Sewing Machines
Ironing Board
CLOTHING LABORATORY 21'-6'' x 30'
Grooming Center
L'dry Supplies
Foods Staples
Teachers Wardrobe
File Cabinet
Aprons China
FOODS LABORATORY 21'-6'' x 40'
Desk
General Storage
Refr.
Charts Illus. Mat'l.
STUDENT TABLES
Lavatory Cab't
Cart
Table
Aprons & China
Mirror Case
KITCHEN
Table
KITCHEN
Tote Trays
Desk
KITCHEN
Storage
Tote Trays
D.W.
Refuse & Cleaning
Teachers Wardrobe
Tackboard
Oven

CLOTHING LABORATORIES

WHY YOU SHOULD SPECIFY GENEVA

Today's curriculum in the Homemaking Department covers many subjects ranging from health to home furnishings, sewing to sickness, and management to maternity. The modern school must have proper equipment to house the tools for teaching these courses, as efficiency and a desirable place in which to work and learn are extremely important.

The Geneva casework for this purpose incorporates all of the latest thinking and design ideas of architects and home economists. Special cabinets for specific uses and accessories galore solve the various storage problems which confront both teacher and student. Most accessories may be moved from one location to another quickly and easily.

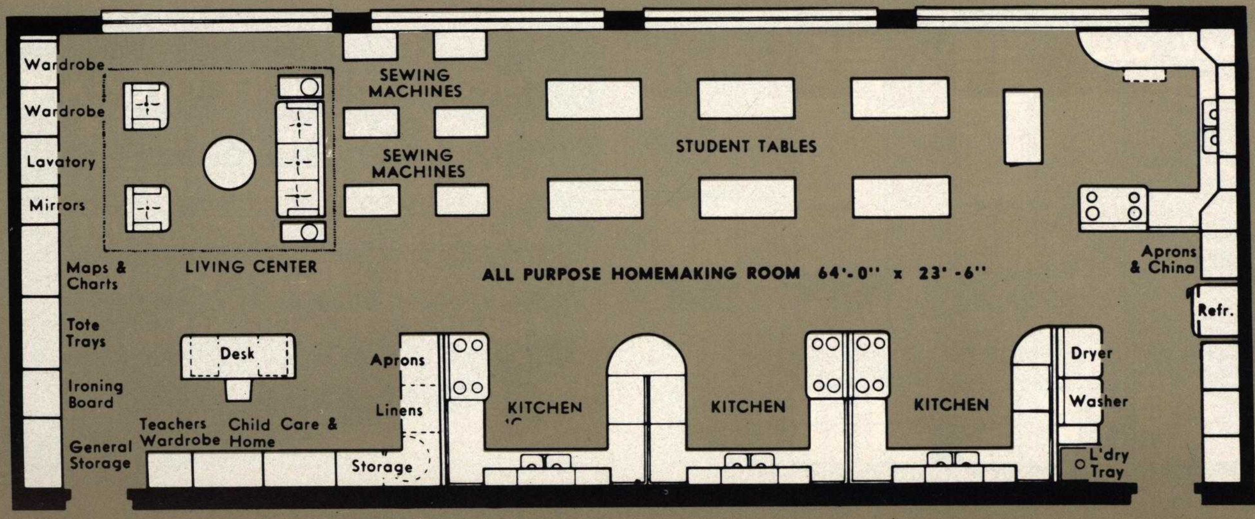
With building costs at an all time high it is necessary to utilize every square foot of space to best advantage. The Geneva line allows great flexibility so that best use can be gained from the space. You are not limited to "stock" arrangements or sizes.

1 LONG LIFE — Steel casework is ideal for school use because of its long life and lasting beauty. It blends in with the steel appliances and will never warp, split or shrink.

2 LESS MAINTENANCE — A simple wiping will keep Geneva cabinets clean and looking like new. Paint will not chip or flake off requiring frequent painting. Drawer slides will never wear out or need replacement.

3 COMPLETE FLEXIBILITY — Geneva offers the widest selection of cabinets plus any custom work desired. This permits complete personalized planning.

4 SUPERIOR QUALITY — Many exclusive features are built into Geneva casework to give it unmatched quality. Finest materials and expert craftsmanship go into every unit. Backing up these advantages is a price to fit your budget.

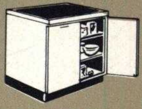

Wardrobe
Wardrobe
Lavatory
Mirrors
SEWING MACHINES
SEWING MACHINES
STUDENT TABLES
LIVING CENTER
Maps & Charts
ALL PURPOSE HOMEMAKING ROOM 64'-0'' x 23' -6''
Aprons & China
Refr.
Tote Trays
Desk
Aprons
Dryer
Ironing Board
Linens
KITCHEN
KITCHEN
KITCHEN
Washer
Teachers Wardrobe
Child Care & Home
General Storage
Storage
L'dry Tray

CLOTHING LINE DIMENSIONAL GUIDE

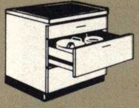
(in inches)

USE WITH BASIC LINE CABINETS

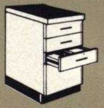
Geneva
KITCHENS



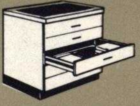
GENERAL STORAGE
30"—30GS
45"—45GS



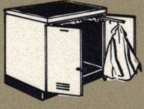
3-DRAWER STORAGE
30"—30D3
45"—45D3



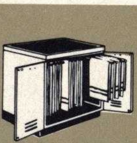
4-DRAWER STORAGE
15"—15D4



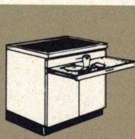
5-DRAWER STORAGE
30"—30D5
45"—45D5



APRON STORAGE
30"—30AS
45"—45AS



TOWEL STORAGE
30"—30TS
45"—45TS



PULL-OUT COUNTER
30"—30POC

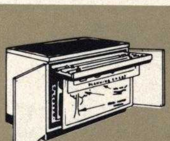
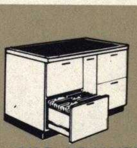
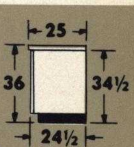
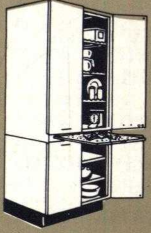


CHART & MAP STORAGE
45"—45CM

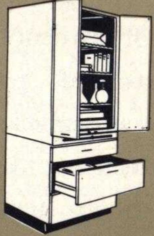


FILE DRAWER CABINET
45"—45FD

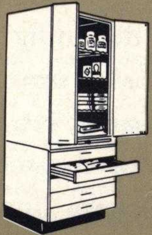




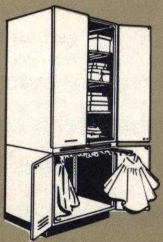
GENERAL STORAGE
30"—3084SGS
45"—4584SGS



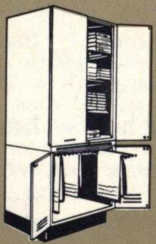
3-DRAWER STORAGE
30"—3084SD3
45"—4584SD3



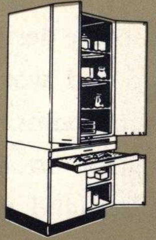
5-DRAWER STORAGE
30"—3084SD5
45"—4584SD5



APRON STORAGE
30"—3084SAS
45"—4584SAS



TOWEL STORAGE
30"—3084STS
45"—4584STS



PULL-OUT COUNTER
30"—3084SPO

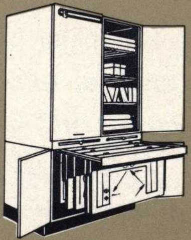
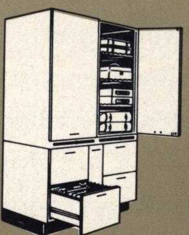
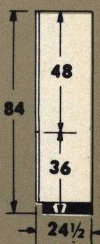
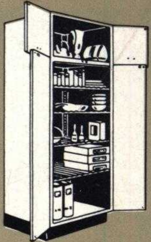


CHART & MAP STORAGE
45"—4584SCM

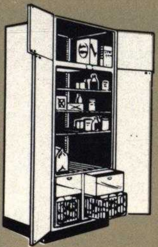


FILE DRAWER CABINET
45"—4584SFD

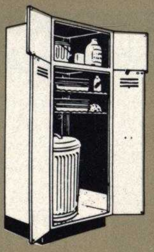




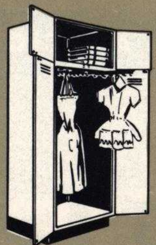
GENERAL STORAGE
30"—3084GS



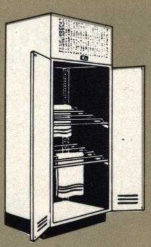
FOOD STAPLES STORAGE
30"—3084FS



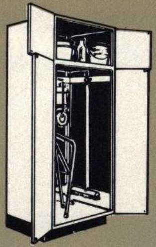
REFUSE CABINET
30"—3084RE



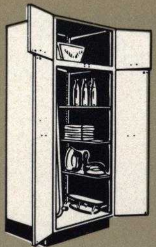
APRON STORAGE
30"—3084AS



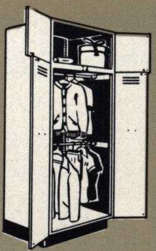
TOWEL DRYING CABINET
30"—3084TD



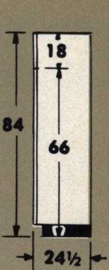
CLEANING UTENSIL
30"—3084CU

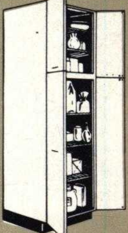


IRONING BOARD
30"—3084IB

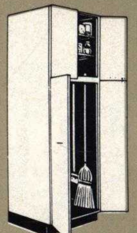


WARDROBE CABINET
30"—3084WB

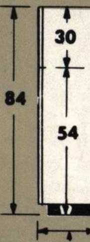


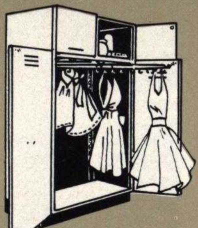


SHELF CABINET
13" DEEP—2184
24½" DEEP—2184D

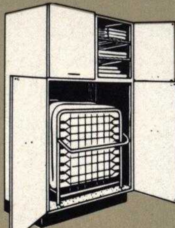


IMPLEMENT CABINET
KITS REQUIRED

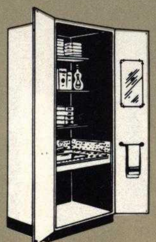




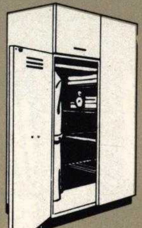
APRON STORAGE
45"—4584HAS



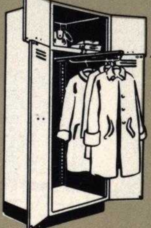
BED STORAGE CABINET
45"—4584HBS



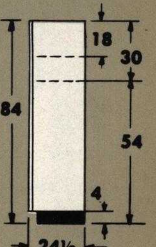
LAVATORY CABINET
30"—3084LA



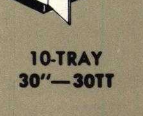
CORNER WARDROBE CABINET
45"—4584CWB



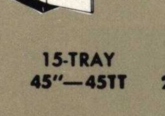
WARDROBE CABINET
30"—3084WA



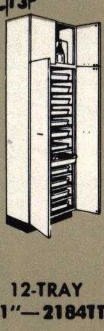
TOTE TRAY CABINET SIZES



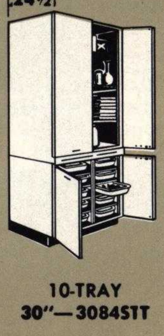
10-TRAY
30"—30TT



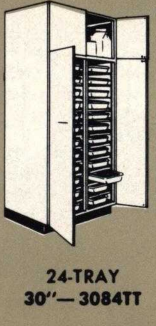
15-TRAY
45"—45TT



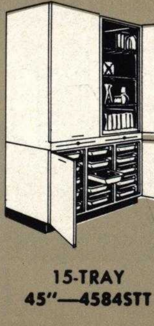
12-TRAY
21"—2184TT



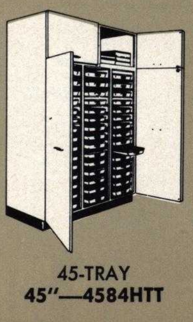
10-TRAY
30"—3084STT



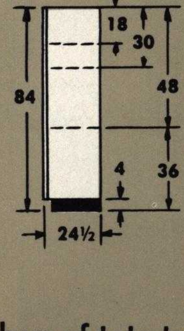
24-TRAY
30"—3084TT

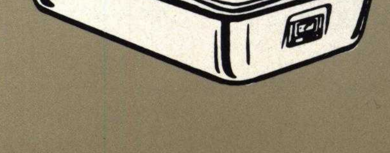


15-TRAY
45"—4584STT



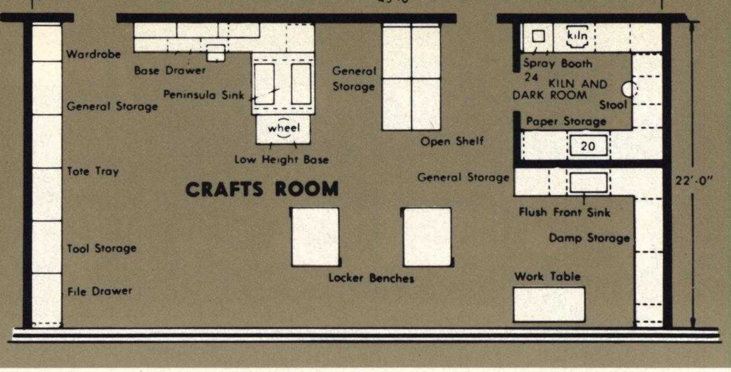
45-TRAY
45"—4584HTT





TOTE TRAYS —Cabinets shown directly above will hold various numbers of tote trays, depending on size. Geneva's tray is made of high impact gloss plastic. Each tray is perfectly formed with coved bottom and smooth, rounded edges. Chrome plated nameplate is attached on end. SIZES: 11½"W, 18"D, 4¼"H, or 11½"W, 18"D, 3¼"H.

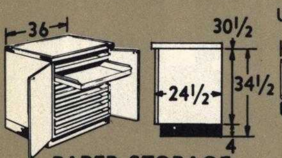
ARTS AND CRAFTS ROOMS


45'-0"
Wardrobe
Base Drawer
Peninsula Sink
General Storage
wheel
Low Height Base
General Storage
Open Shelf
General Storage
kiln
Spray Booth
24
KILN AND DARK ROOM
Stool
Paper Storage
20
22'-0"
Tote Tray
CRAFTS ROOM
Flush Front Sink
Damp Storage
Tool Storage
Locker Benches
Work Table
File Drawer

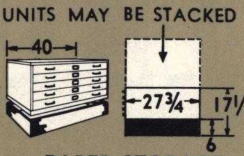
Casework shown on this page has been designed to solve the many unusual storage and working problems peculiar to Arts and Crafts rooms. The range of activities which take place in these Studio-Workshops demand flexibility and versatility. Space used for drawing classes in the morning may have to be converted to model building or set designing for afternoon classes.

Special materials, clay storage, paint spray booths, clean-up sinks, etc., make specialized casework a "must" for the modern art department. The complete Geneva line shown here has been engineered and designed to handle every storage problem in the field of art.

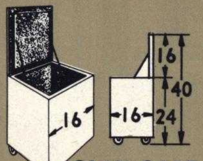
DIMENSIONAL GUIDE (in inches) USE WITH BASIC LINE AND CLOTHING LABORATORY CABINETS


36
30½
24½
34½
4

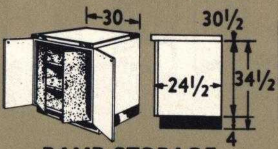
PAPER STORAGE
X36LC
8 SLIDING SHELVES. SHELF DIM. 32½" W, 21¾" D.


UNITS MAY BE STACKED
40
27¾
17⅛
6

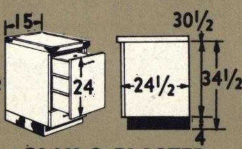
PAPER STORAGE
1210FD
5 DRAWERS. DRAWER DIM. 37½" W, 26" D.


16
40
16
16
24

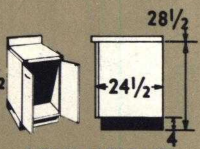
CLAY CART
16"—16CC
GALVANIZED LINED


30
30½
24½
34½
4

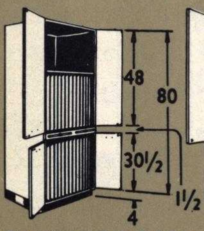
DAMP STORAGE
30"—30DS
GALVANIZED LINED


15
30½
24
24½
34½
4

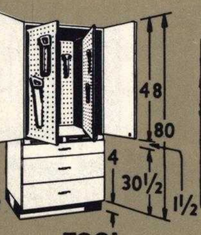
CLAY & PLASTER CABINET
15"—X15FBC



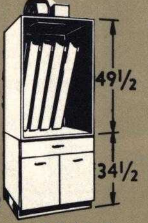
LOW HEIGHT CUPBOARD
24"—X24TH
36"—X36TH


48
80
30½
1½
4

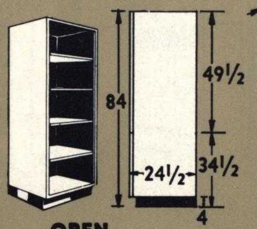
DRAWING BOARD STORAGE
30"—3084DBS
45"—4584DBS


48
80
4
30½
1½

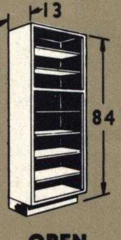
TOOL STORAGE
30"—3084TS
45"—4584TS



SPRAY BOOTH
24"—2449UB

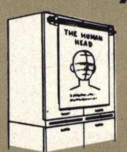

84
49½
24½
34½
4

OPEN TALL
30"—30840TD
45"—45840TD

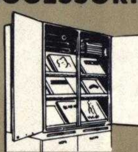


OPEN TALL
24"—X24840TC

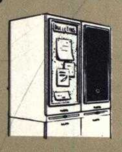
ACCESSORIES


THE HUMAN HEAD

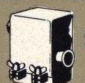
DRAWING CHART RAIL
22"-400CMR



MAGAZINE RACKS
30"-30MAR
45"-45MAR

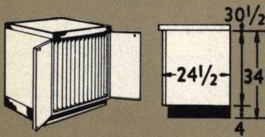


CORKBOARD & CHALKBOARD
FOR 30" OR 45" UNITS



SEDIMENT TRAP
400ST

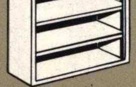
LOCKS AVAILABLE FOR ALL CABINETS


30½
24½
34½
4

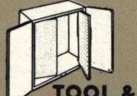
DRAWING BOARD STORAGE
30"—30DBS
45"—45DBS

OPEN SHELF

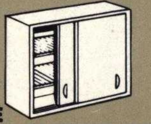
BASE
30"—30-OSB
45"—45-OSB



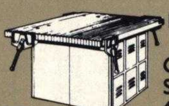
WALL
18", 21", 24", 27", 30", 36", 42", WIDTHS
30", 36", 42", 48" HEIGHTS



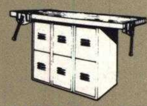
TOOL & KEY CASE
24"-2430TKC



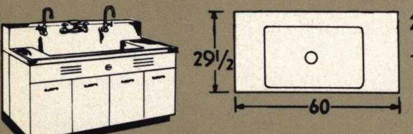
SLIDING DOOR WALL CABINETS
21, 24, 27, 30, 33, 36, 39, 42 Widths.
15, 18, 24, 30, 36, 42, 48, Heights.



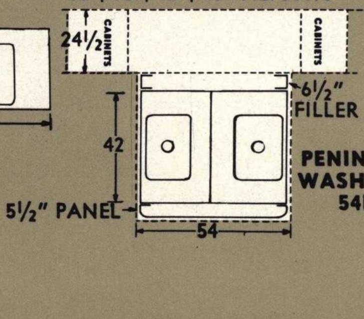
LOCKER BENCH
2569LB
OVERALL LOCKER SECTION 36" W, 42½"D, 31" H.



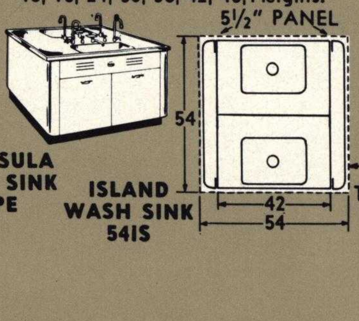
LOCKER BENCH
2568LB
OVERALL LOCKER SECTION DIM. 36" W, 21" D, 31" H



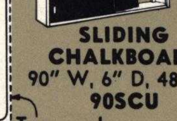
WASH SINK 60"—60WS
303F GOOSENECK FAUCET
311F MIXING FAUCET


24½
CABINETS
CABINETS
6½" FILLER
42
5½" PANEL
54

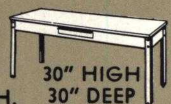
PENINSULA WASH SINK
54PE


5½" PANEL
54
42
54
Top overhangs ½" all sides

ISLAND WASH SINK
54IS



SLIDING CHALKBOARD
90" W, 6" D, 48" H.
90SCU


30" HIGH
30" DEEP

WORK TABLE
60"—1320WT
72"—1321WT

Geneva
KITCHENS

SPECIFICATIONS

WALL CABINETS — Design shall be flush type construction and cabinets shall be of width, depth and height as indicated. They increase in width at increments of 3″. Cabinets shall be constructed of U. S. S. cold rolled high grade furniture steel. Corner mullions shall be of full wrapped construction with no raw edges or flanges exposed. All welds shall be flush and ground to eliminate flashing or pitting. Shelves shall be of heavy open wire construction and fully plastisol coated. They shall be adjustable on 1″ centers.

BASE CABINETS — Design shall match exterior wall cabinet styling. Cabinets shall be of width, depth and height as indicated and increase in widths at 3″ increments. Cabinets shall be of U. S. S. high grade furniture steel. Gussets and reinforcing members shall be of 16 ga. steel. Cabinets shall be equipped with fixed top rail. All base cabinets shall have an integral subbase forming a recessed toe space 3″ deep and 4″ high. Shelf shall be of steel reinforced construction. All welds shall be flush and ground to eliminate flashing and pitting.

TALL CABINETS — Such as general storage, tote and wardrobe, etc. Same specifications apply as listed above.

SINK CABINETS — Same specifications apply as listed under base cabinets, except that top rail shall be of special corrosive resistant steel.

FILLERS, ACCESSORIES AND SPECIAL UNITS — A complete line of accessories shall be available to fit standard cabinet units with minimum effort for installation. All fillers and special units shall follow same specifications for construction and gauges of metals as wall and base cabinets.

DOORS — Shall be of double pan construction with interlocking flange die drawn with radius edges. These parts shall be completely finished inside and out before assembly. Reinforcing and sound deadening material shall consist of full size pad laminated to both inner surfaces of front and liner under heat and pressure, forming a dense integral unit. Doors shall close against sound deadening bumpers.

DRAWER SLIDES — Drawers shall be suspended on four rollers formed of moulded nylon securely riveted to channel members which incorporate self-closing device and built-in stops. Channel members shall be of 16 gauge Terne Plate (lead coated) steel.

DRAWER BODIES — shall have radius bottom sides and be securely fastened to cabinet lining in a manner that forms a rigid integral unit.

DRAWER HEADS — shall be painted inside and out and filled with sound deadening material. These fronts shall be removable, but shall be assembled with special push in tabs forming a rigid assembly to the drawer body.

HANDLES — Decorative bar type pull shall be die cast steel heavily chrome plated and polished to a bright finish.

HINGES — shall be semi-concealed type which open 180°. They shall be made of extra heavy cold rolled steel and plated for full protection. All 62″ high doors shall be equipped with three hinges.

CATCHES AND STRIKES — Catches shall be sound deadened type of moulded nylon closing against steel strikes. All 62″ high doors close with approved roller type nylon catches.

FINISH — shall consist of chemically etched surfaces covered with minimum ¾ mil coat of rust inhibiting primer baked at a suitable temperature for one-half hour, followed by a minimum ¾ mill coat of decorative synthetic gloss enamel baked for one-half hour at a suitable temperature.

PACKING — Wall units shall be wrapped in protective paper and doors shall be securely wire strapped in locked position. Units shall then be packed in approved type cartons with protective top and corner pads. Base cabinets shall be crated in reinforced slat type full enclosed package. Doors and drawers shall be securely fastened against accidental opening.

STANDARD STAINLESS STEEL SINK TOPS — Construction of deck surfaces and bowls shall be of approved type stainless steel. Complete deck and backsplash surface shall be one-piece construction with raised edge section and without exposed notching or welding on the top surface. Bowls shall be flush welded to deck and ground to form a seamless appearance. Entire underside of sink shall be fully sound-deadened.

CUSTOM COUNTER & SINK TOPS — shall be 25″ deep. Core is ¾″ plywood built up to 1½″ thick with back splash 4″ high and 1″ thick. Surfacing shall be securely bonded to water-proof plywood under applied pressure. Standard edging available.

SPECIAL ITEMS — Other related items such as flat drawer files, tables, work bench bases and tops are of best commercial quality.

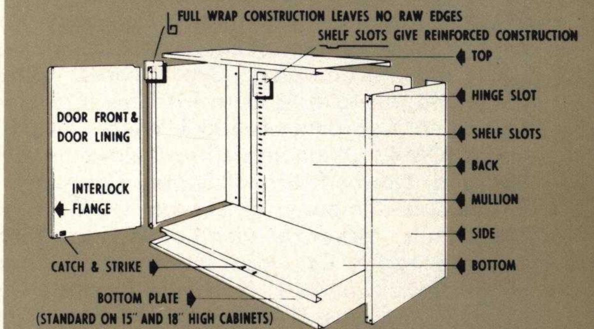
CONSTRUCTION

Here is quality based on finest materials, skilled engineering, and superb workmanship throughout. Geneva cabinets are fabricated from the highest grade steel available. For maximum strength, Geneva incorporates into each cabinet section the strongest bends known.

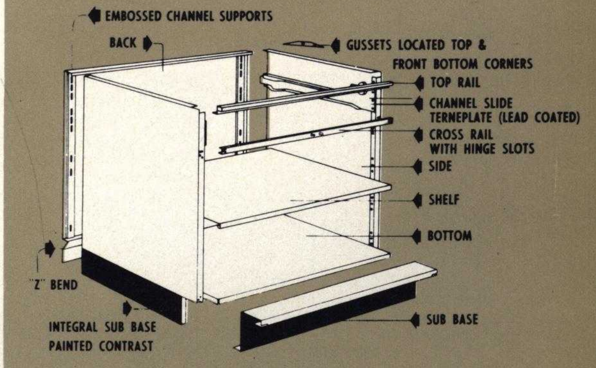
In addition, each section is die formed. The wrap-around mullion construction leaves no sharp edges to cut or snag. Like size drawers are interchangeable from one cabinet to another . . . drawer fronts are replaceable. On each Geneva cabinet two baked-on enamel coats are applied to chemically etched steel, yielding a satin smooth . . . chip-proof finish.

Nothing has been spared to make Geneva the finest cabinet available.

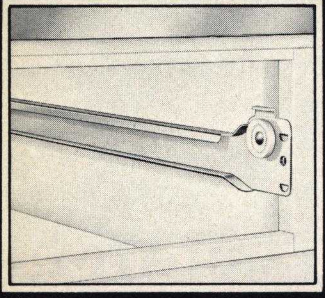
WALL CABINET CONSTRUCTION FEATURES


FULL WRAP CONSTRUCTION LEAVES NO RAW EDGES
SHELF SLOTS GIVE REINFORCED CONSTRUCTION
TOP
HINGE SLOT
DOOR FRONT & DOOR LINING
SHELF SLOTS
BACK
INTERLOCK FLANGE
MULLION
SIDE
CATCH & STRIKE
BOTTOM
BOTTOM PLATE
(STANDARD ON 15″ AND 18″ HIGH CABINETS)

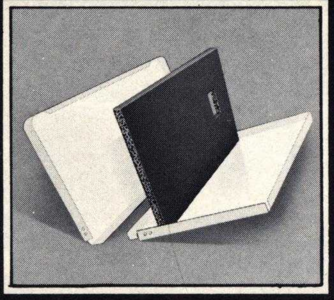
BASE CABINET CONSTRUCTION FEATURES


EMBOSSED CHANNEL SUPPORTS
BACK
GUSSETS LOCATED TOP & FRONT BOTTOM CORNERS
TOP RAIL
CHANNEL SLIDE TERNEPLATE (LEAD COATED)
CROSS RAIL WITH HINGE SLOTS
SIDE
SHELF
BOTTOM
"Z" BEND
INTEGRAL SUB BASE PAINTED CONTRAST
SUB BASE

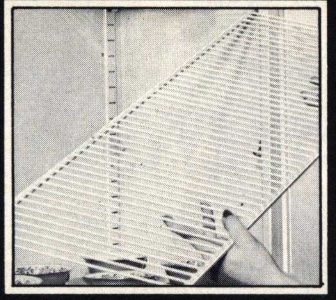
Features like these add up to top quality



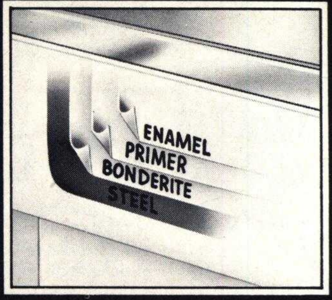
DRAWER SLIDE
The slightest touch gently closes a fully loaded drawer. These lead-coated interlocking steel channels and wear-proof nylon rollers combine to produce effortless action.



INSIDE PAINTING
All door and drawer fronts are painted inside and out to protect against effects of humidity and moisture. Full thickness insulation gives complete sound deadening.



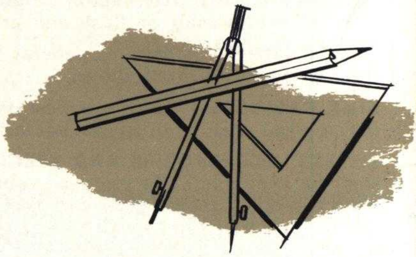
PLASTISOL SHELVES
Exclusive plastisol coating of open wire shelves eliminates noise and affords real protection for dishes and glassware. Plastisol is a vinyl which resists abrasion.



NO-CHIP FINISH
Steel is Bonderized before $^3/_4$ mil coat of rust inhibiting primer is baked on. Top coat of $^3/_4$ mil decorative synthetic gloss enamel is then baked on.

GENEVA DISTRIBUTORS

ALABAMA; Birmingham, Bodine-Bryson & Rolling, Inc.: **ARIZONA;** Phoenix, PBSW Supply & Equipment Company: **CALIFORNIA;** LaFayette, J. A. Arrigo; Los Angeles, Geneva Modern Kitchens (Los Angeles Branch): **COLORADO;** Denver, Kitchen Distributors, Inc.: **CONNECTICUT;** Bridgeport, Burritt Building Materials, Inc.: **DISTRICT OF COLUMBIA;** Washington, Douglas Distributing Corporation: **ILLINOIS;** Chicago, Chicago Seating Company: **INDIANA;** Fort Wayne, Lynn Koehlinger Co., Inc.; Indianapolis, H. H. Smith Company: **IOWA;** Cedar Falls, J. S. Latta and Son: **KANSAS;** Topeka, Thacher, Inc.; Wichita, Siebert & Willis, Inc.: **KENTUCKY;** Covington, BAM Distributing Company, Inc.; Louisville, The Otis Hidden Company: **LOUISIANA;** New Orleans, F. F. Hansell & Brothers, Ltd.; Shreveport, Building Service Company: **MASSACHUSETTS;** Boston, Gledhill Brothers, Inc.: **MICHIGAN;** Detroit, Custom Kitchen Distributors, Inc.; Grand Rapids, G & K Distributing, Inc.; Lansing, McFadden Corporation: **MINNESOTA;** Minneapolis, Century-Elcon; **MISSISSIPPI;** Jackson, Martin School Equipment Company: **MISSOURI;** Kansas City, Doolittle Equipment Company; Hicks-Ashby Company; St. Louis, Blackwell-Wielandy: **MONTANA;** Billings, Insul Fibre: **NEBRASKA;** Lincoln, Stephenson School Supply; Omaha, Briggs Pump Company, Inc.: **NEW JERSEY;** Newark, Herbert L. Farkas Company: **NEW MEXICO;** Albuquerque, The John Barnes Company: **NEW YORK;** Buffalo, Lee Distributing Company; Ruslander & Sons, Inc.: **NORTH CAROLINA;** Raleigh, Universal Equipment Company, Inc.: **NORTH DAKOTA;** Fargo, Fargo Glass & Paint Company; Grand Forks, Colborn School Supply Company: **OHIO;** Cleveland, Geneva Modern Kitchens (Cleveland Branch); Columbus, Leffel School Equipment Company; Luethi & Welch, Inc.; Toledo, Folding Equipment Company: **OKLAHOMA;** Oklahoma City, Oklahoma Electrical Supply Company: **OREGON;** Portland, Northern School Supply Company: **PENNSYLVANIA;** Harrisburg, C. M. Eichenlaub Company; Pittsburgh, C. M. Eichenlaub Company: **SOUTH DAKOTA;** Sioux Falls, McKenzie Distributors, Inc.: **TENNESSEE;** Chattanooga, Chattanooga School Products Co., Inc.; Johnson City, London Hardware Company; Memphis, Shobe, Inc.; Nashville, Nashville Products Company, Inc.: **TEXAS;** Dallas, Ewing Kitchen Designers: **UTAH;** Salt Lake City, ZCMI Office & School Supply Company: **VIRGINIA;** Richmond, Virginia School Equipment, Inc.: **WEST VIRGINIA;** Charleston, B. Preiser Company, Inc.: **WISCONSIN;** Milwaukee, Kitchenlines Distributor, Inc.



PLANNING SERVICE

Soaring enrollments and high building costs have combined to make all school space costly and valuable. This makes proper room planning doubly important as every square foot must be put to its best use.

Geneva maintains a staff of specialists who are expert in this specific field. They will be happy to help you with plans of any kind. You will find their talents can save you time, money and worry. Call on them anytime.

GENEVA MODERN KITCHENS DIVISION OF ACME STEEL CO. **GENEVA, ILLINOIS**

Form No. SCH-5

23i
Gr

GRADE-AID®

CLASSROOM EQUIPMENT

MODULAR • MOBILE • ALL-STEEL

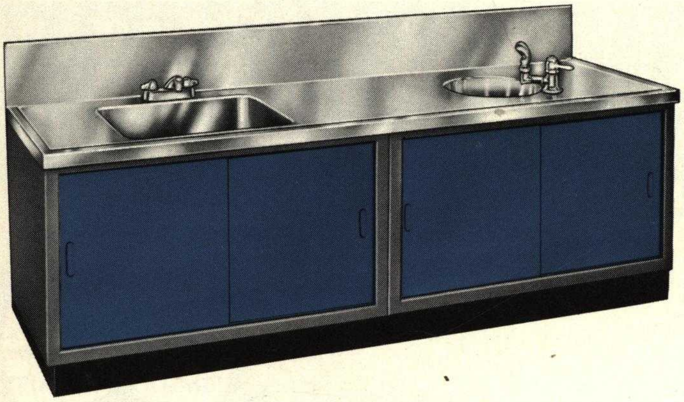
A. I. A. File No. 29-H-6
A. I. A. File No. 35-B-4

GRADE-AID
CORPORATION
Nashua, New Hampshire

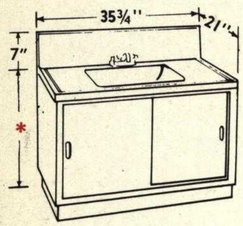
GRADE-AID® CLASSROOM EQUIPMENT

SINK UNITS

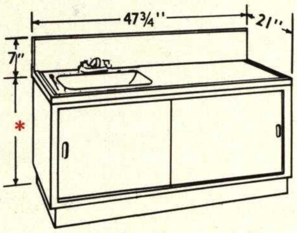
1000 SERIES



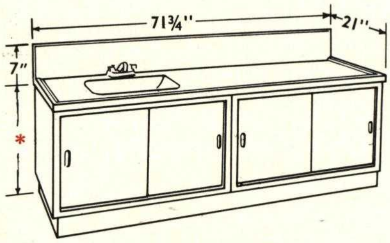
Grade-Aid offers the most complete line of classroom sink units available. One piece tops with 7″ backsplash are either melamine plastic or 16 gauge stainless steel. All units are equipped with stainless steel sink bowls, chrome fixtures and plumbing trim, sliding doors in a variety of materials and colors, and levelling bolts. Optional equipment includes bubblers, separate bubbler bowls and end splashes. (See page 5 for features and general specifications.)



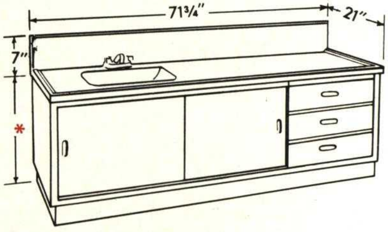
No. 1001
(Plastic top)
No. 1004
(Stainless steel top)



No. 1002
(Plastic top)
No. 1005
(Stainless steel top)



No. 1003
(Plastic top)
No. 1006
(Stainless steel top)

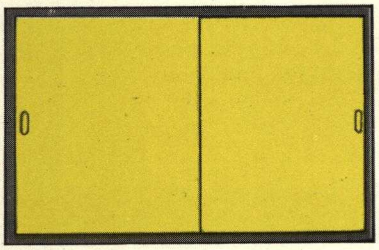


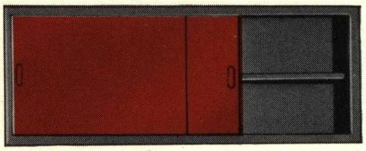
No. 1003-3D
(Plastic top)
No. 1006-3D
(Stainless steel top)

* *Available in following heights: 24″, 26″, 28″, 30″, 34″, 36″.*

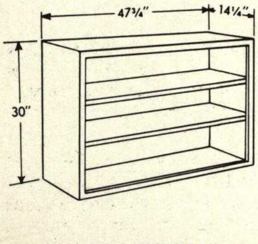
WALL UNITS

2000 SERIES

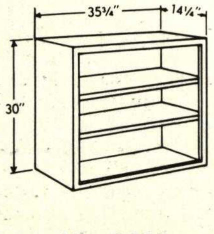




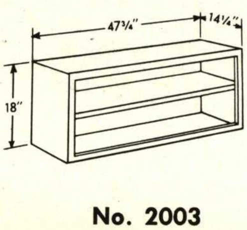
Grade-Aid wall units, designed to provide efficient storage space over sinks or counter units, are available in a variety of sizes. These units are constructed with recessed backs for secure and attractive installation. Doors are optional, in a variety of materials and colors. (See page 5 for features and general specifications.)



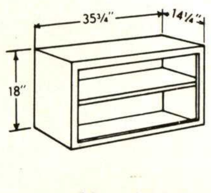
No. 2001
(Two shelves)



No. 2002
(Two shelves)

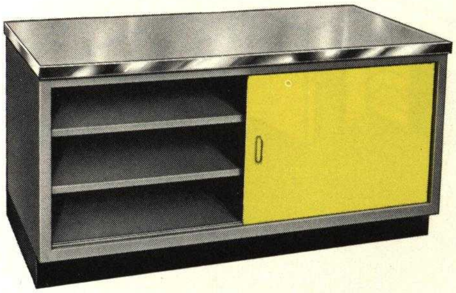


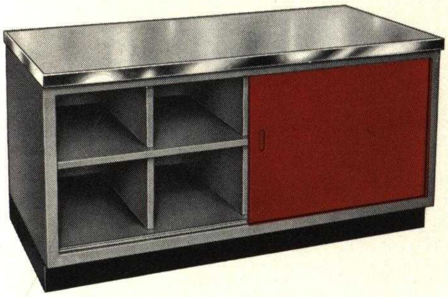
No. 2003
(One shelf)



No. 2004
(One shelf)

DESIGNED to fit classroom needs PRICED to meet all



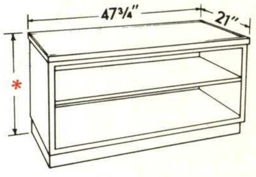


COUNTER STORAGE UNITS

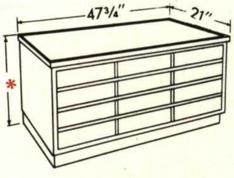
3000 SERIES

Grade-Aid presents an expanded line of counter height storage units of all types, including shelf storage, book storage, cubicle storage, tote tray storage, drawer storage and paper storage units. Standard features include melamine plastic tops and rubber-cushioned glides. Optional equipment includes sliding doors in a variety of materials and colors, casters, backsplashes and endsplashes. (See page 5 for features and general specifications.)

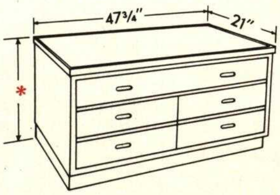
21" deep



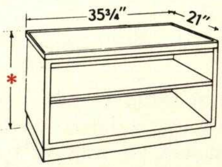
No. 3421



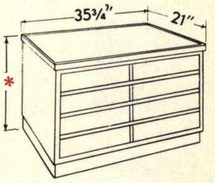
No. 3421-12TB
No. 3421-15TB



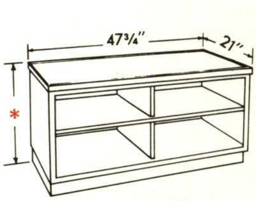
No. 3421-5D



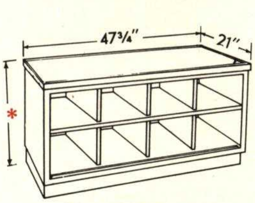
No. 3321



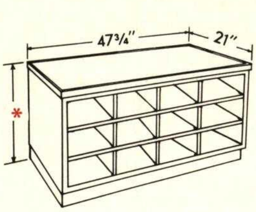
No. 3321-8TB
No. 3321-10TB



No. 3421-4C



No. 3421-8C



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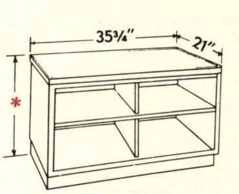
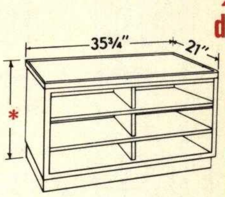


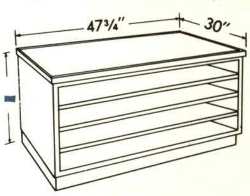
No. 3321-4C



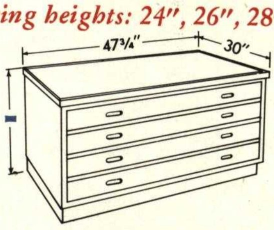
No. 3321-6C

* *Available in following heights: 24", 26", 28", 30", 34", 36".*

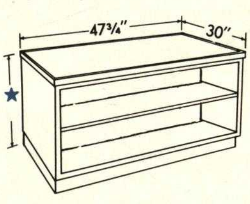
30" deep



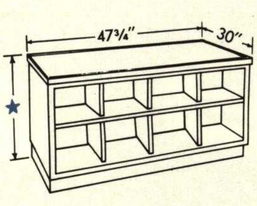
No. 3430-4S
(open — 4 spaces)
No. 3430-5S
(open — 5 spaces)



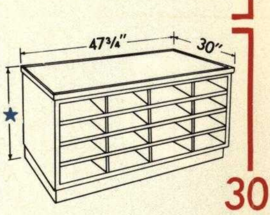
No. 3430-4D
(4 drawers)
No. 3430-5D
(5 drawers)



No. 3430-DS
(Double-sided)



No. 3430-16C
(8 spaces each side)

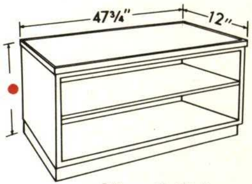


No. 3430-24C
(12 spaces each side)

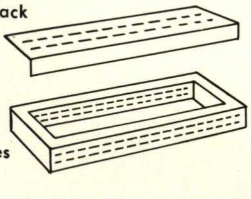
▬ *No. 3430-4S & No. 3430-4D available in following heights: 24", 26".*
No. 3430-5S & No. 3430-5D available in following heights: 28", 30", 34", 36".

★ *Available in following heights: 24", 26", 28", 30", 34", 36".*

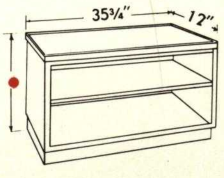
Shallow



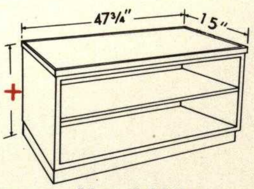
No. 3412
(12" depth window wall bookcase and storage unit)


Louvered back grills
Louvered cabinet bases

35¾" or 47¾"
Available for use with
No. 3312 and No. 3412



No. 3312
(12" depth window wall bookcase and storage unit)



No. 3415
(15" depth storage unit)

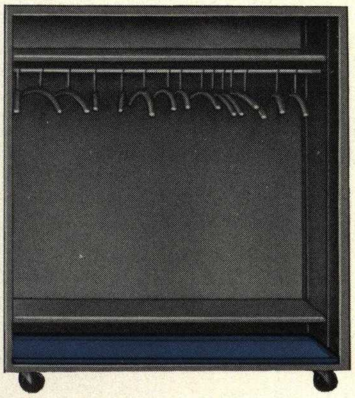
+ *Available in following heights 24", 26", 28", 30", 34", 36".*

● *Available in following heights: 28", 32".*

school budgets **BUILT** to last the life of the school

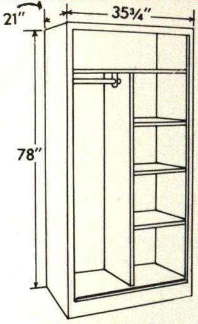
WARDROBE AND STORAGE UNITS

4000 SERIES

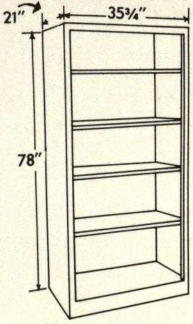


Grade-Aid offers a wide selection of 4000 series units to meet all wardrobe and other special classroom storage requirements. All fixed units are equipped with heavy-duty levelling bolts. Mobile units are equipped with 3″ rubber-wheeled swivel casters, and tackboard on back. Standard equipment on "CB" units includes 3 hangers and mirror. Single or double file drawers are optional. All 78″ high units are equipped with doors. 59½″ units do not have doors. (See page 5 for general specifications.)

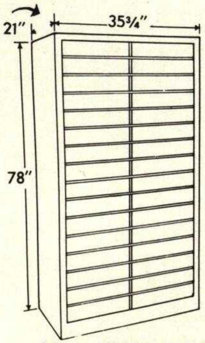
TEACHERS' WARDROBE AND STORAGE UNITS



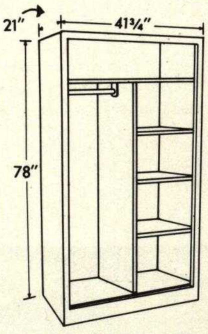
No. 4378-CB
Swinging doors
and lock



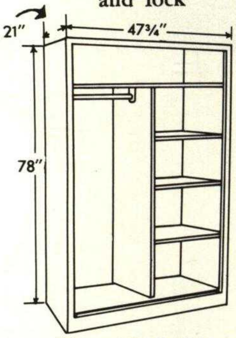
No. 4378-ST
Swinging doors
and lock



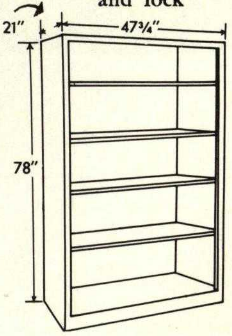
No. 4378-32 TB
Swinging doors
and lock



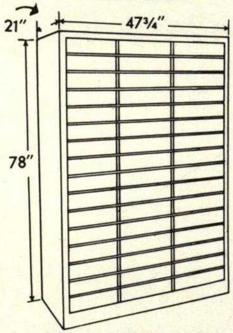
No. 4001-CB
Sliding doors
and lock



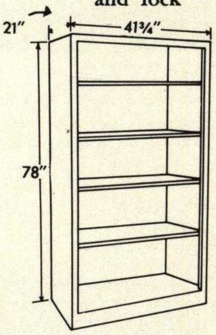
No. 4478-CB
Swinging doors
and lock



No. 4478-ST
Swinging doors
and lock

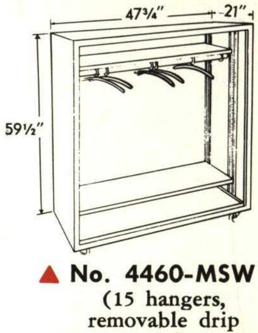


No. 4478-48TB
Swinging doors
and lock

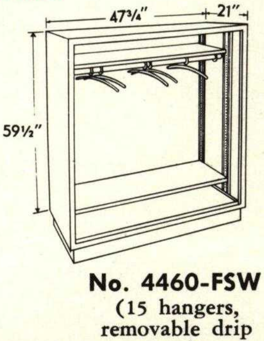


No. 4001-ST
Sliding doors
and lock

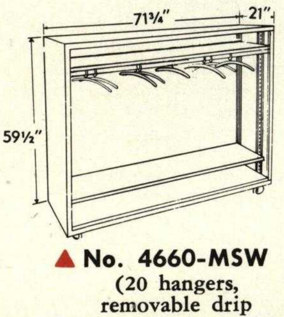
STUDENTS' WARDROBE UNITS



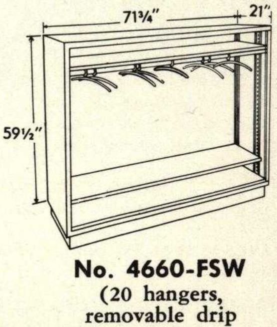
▲ **No. 4460-MSW**
(15 hangers,
removable drip
pan)



No. 4460-FSW
(15 hangers,
removable drip
pan)



▲ **No. 4660-MSW**
(20 hangers,
removable drip
pan)

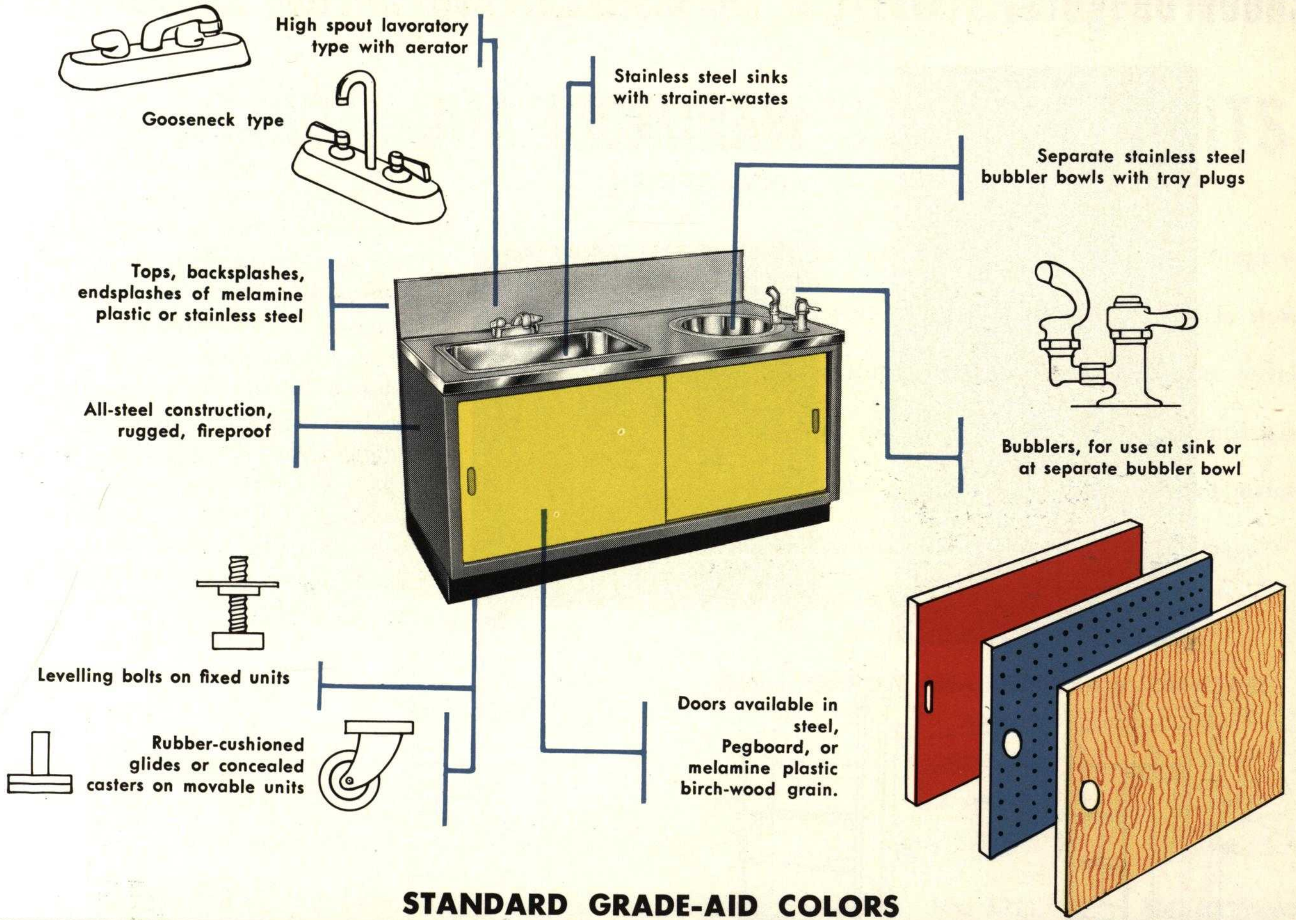


No. 4660-FSW
(20 hangers,
removable drip
pan)

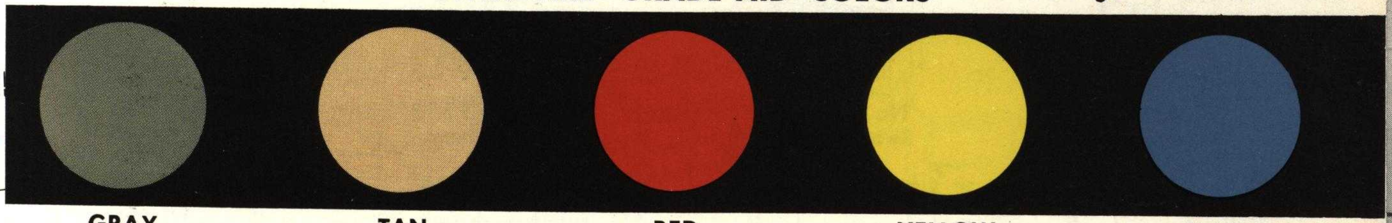
▲ *Movable students' wardrobes feature tack board project panel on back, as illustrated in cover photo.*

OUTSTANDING LIFE-TIME FEATURES AND ACCESSORIES FOR

GRADE-AID® MODULAR ALL-STEEL CLASSROOM EQUIPMENT


High spout lavatory type with aerator
Gooseneck type
Stainless steel sinks with strainer-wastes
Separate stainless steel bubbler bowls with tray plugs
Tops, backsplashes, endsplashes of melamine plastic or stainless steel
All-steel construction, rugged, fireproof
Bubblers, for use at sink or at separate bubbler bowl
Levelling bolts on fixed units
Rubber-cushioned glides or concealed casters on movable units
Doors available in steel, Pegboard, or melamine plastic birch-wood grain.

STANDARD GRADE-AID COLORS



GRAY	TAN	RED	YELLOW	BLUE
Available for cabinets, steel doors and Pegboard doors.	Available for cabinets, steel doors and Pegboard doors.	For steel and Pegboard doors only.	For steel and Pegboard doors only.	For steel and Pegboard doors only.

Actual Baked Enamel color samples are available upon request.

GENERAL SPECIFICATIONS

CABINETS — Cabinets shall be constructed from 20 gauge cold rolled steel, resistance welded throughout. 18 gauge steel is used in 78" high #4000 Series cabinets.

CABINET BASES — Cabinet bases shall be constructed from 18 gauge or heavier cold rolled steel, resistance welded throughout and shall be equipped with leveling bolts, rubber cushioned steel glides, or 2" diameter rubber wheel ball bearing swivel type casters.

CABINET DOORS — Steel doors shall be double wall construction, resistance welded throughout. Special sliding door track shall be furnished. Steel doors, Pegboard doors, and melamine plastic doors may be used interchangeably on sink, counter storage, and wall cabinets. When doors are not required, cabinets shall be equipped with door track fillers.

FINISH — Cabinets, bases, doors, and other steel parts shall be degreased and a 60-90 mg. per square foot phosphate coating applied, then sprayed with two coats of high bake specification enamel to withstand approximately 250 hour salt spray test.

MELAMINE PLASTIC TOPS — Top material shall be 1/16" melamine plastic bonded to 18 gauge steel. Sink units shall be equipped with 7" back splashes of same construction. Top and backsplash trim and coving shall be non-marking clear anodized aluminum. All sinks and bowls shall be deep drawn stainless steel and shall be attached with standard sink frames.

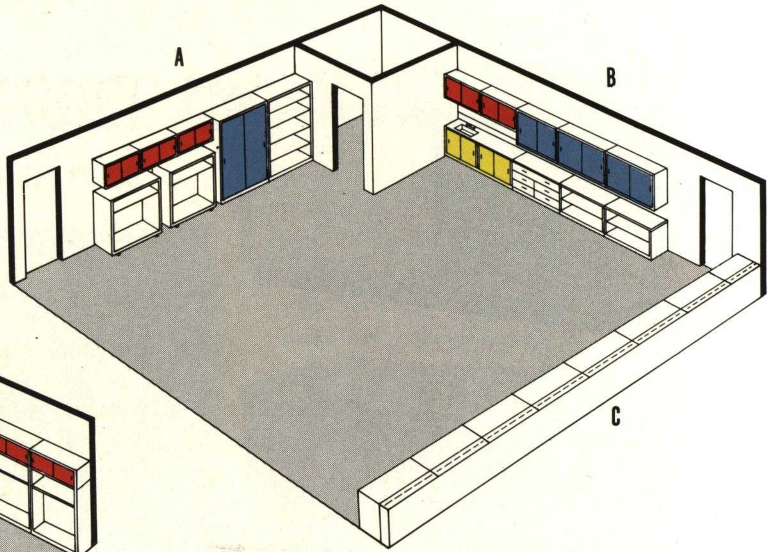
STAINLESS STEEL TOPS — Tops and integrally formed 7" back splashes shall be fabricated from 16 gauge #302 stainless steel. All edges shall be die formed into channel shape and shall be die depressed along front and ends to form a 1/4" raised lip. All sinks and bowls shall be deep drawn stainless steel and shall be seamlessly welded to tops. No overlapping or soldered joints shall be permitted. The entire top shall be ground and polished to a #4 mill finish.

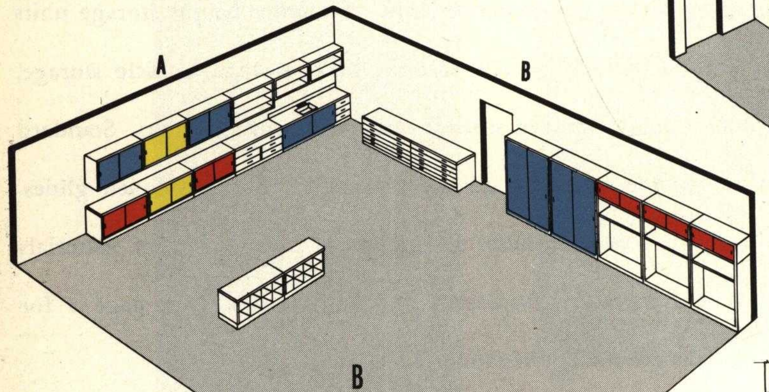
PLUMBING TRIM — To the extent required sink units shall be equipped with combination faucets, squirt-proof bubbler fountain heads, strainer-wastes with tailpipes for sink bowls, and tray plugs with tailpipes for bubbler bowls.

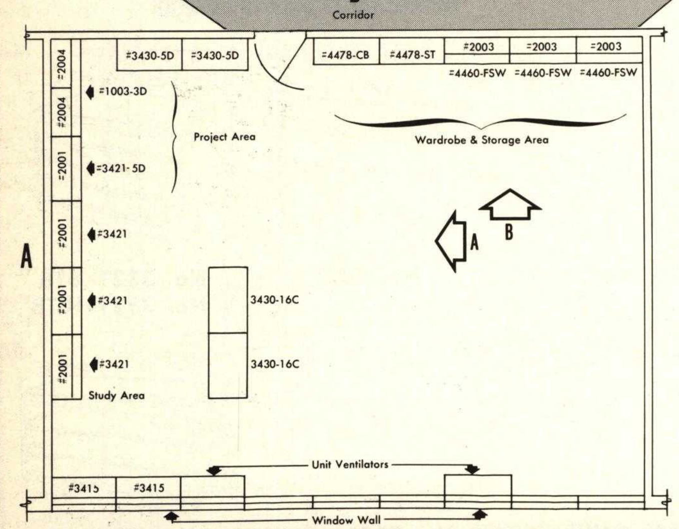
SHIPMENT AND INSTALLATION — All cabinets shall be shipped set up to eliminate on-the-job assembly. Sink cabinets are equipped with removable back panels. All traps and fittings and all plumbing connection work shall be supplied by others. Wall cabinets are constructed with recessed backs which are pre-punched for mounting. Installation shall be done by others.

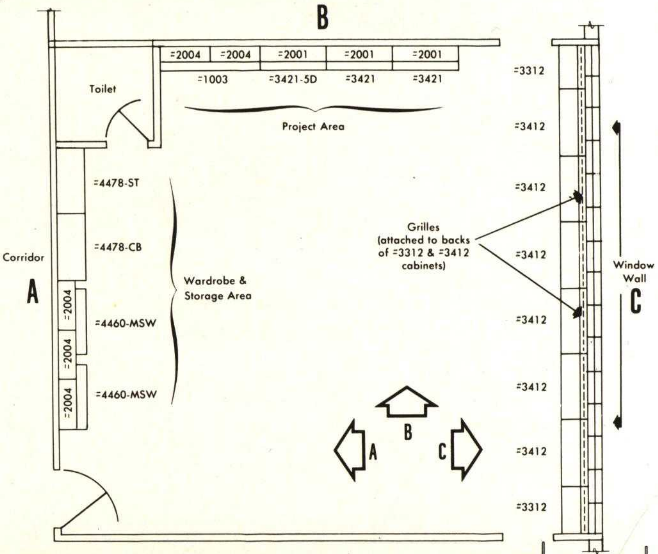
TYPICAL ROOM LAYOUTS

Typical classroom plans demonstrate the adaptability of Grade-Aid Classroom Equipment. All-Steel Grade-Aid units are designed to meet any Architectural and structural requirements. Mobile Grade-Aid units may be arranged to fit all classroom needs.



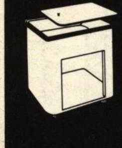



B
Corridor
#3430-5D
=3430-5D
=4478-CB
#4478-ST
#2003
=2003
=2003
=4460-FSW
=4460-FSW
=4460-FSW
=2004
#2004
=2001
#2001
#2001
#2001
=1003-3D
=3421- 5D
#3421
#3421
#3421
Project Area
Wardrobe & Storage Area
A
A
B
3430-16C
3430-16C
Study Area
Unit Ventilators
#3415
#3415
Window Wall

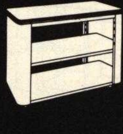

B
=2004
=2004
=2001
=2001
=2001
=1003
=3421-5D
=3421
=3421
Toilet
Project Area
=4478-ST
=4478-CB
Corridor
A
=2004
=2004
=2004
=4460-MSW
=4460-MSW
Wardrobe & Storage Area
Grilles (attached to backs of =3312 & =3412 cabinets)
=3312
=3412
=3412
=3412
=3412
=3412
=3412
=3312
Window Wall
C
A
B
C

GRADE-AID® MOBILE ALL-STEEL SUPPLEMENTARY CLASSROOM EQUIPMENT

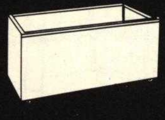
For complete information, write for Supplementary Catalogs.



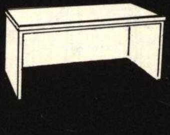
No. 5003
Clay Cart



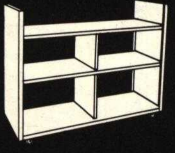
No. 5004
Utility Cart



No. 5001
Toy Cart

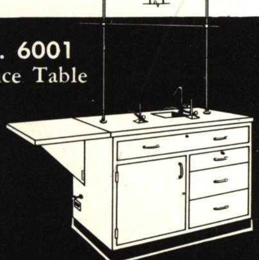


No. 5002
Toy Shell



No. 5005
Book Cart

No. 6001
Science Table



No. 6050
Stationary model

DISTRIBUTION GRADE-AID ALL-STEEL CLASSROOM EQUIPMENT IS SOLD AND DISTRIBUTED NATIONALLY.

GRADE-AID® CORPORATION
46 Bridge Street Nashua, New Hampshire
Subsidiary of The Maine Manufacturing Company, Established 1874

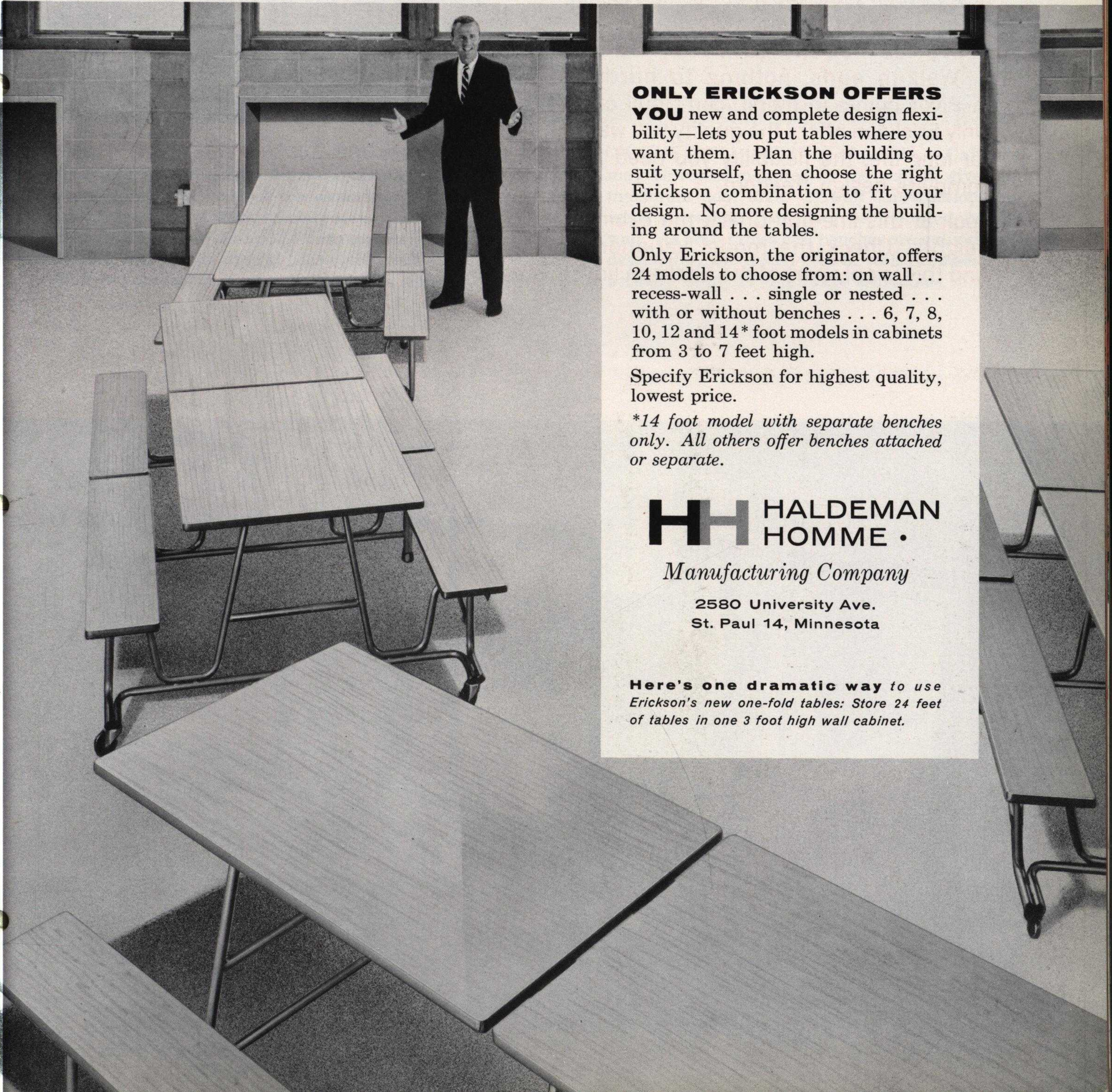
Printed in U.S.A.

Form No. 1A

23i
Ha

NEW!
Revolutionary design flexibility with Erickson *one-fold* wall tables

24 MODELS TO CHOOSE FROM — SIX CABINET HEIGHTS, 3 TO 7 FEET



ONLY ERICKSON OFFERS YOU new and complete design flexibility—lets you put tables where you want them. Plan the building to suit yourself, then choose the right Erickson combination to fit your design. No more designing the building around the tables.

Only Erickson, the originator, offers 24 models to choose from: on wall . . . recess-wall . . . single or nested . . . with or without benches . . . 6, 7, 8, 10, 12 and 14* foot models in cabinets from 3 to 7 feet high.

Specify Erickson for highest quality, lowest price.

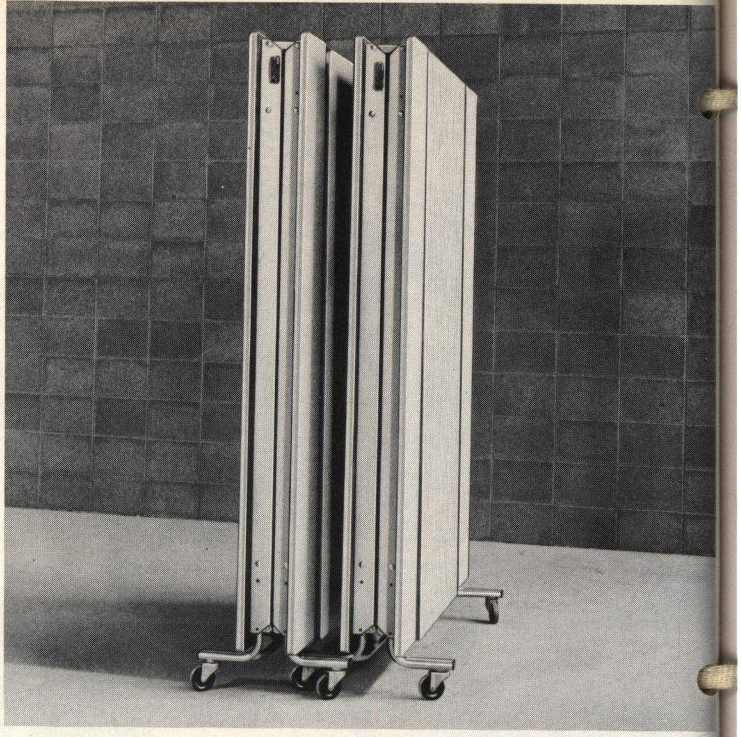
**14 foot model with separate benches only. All others offer benches attached or separate.*

HALDEMAN
HOMME •
Manufacturing Company
2580 University Ave.
St. Paul 14, Minnesota

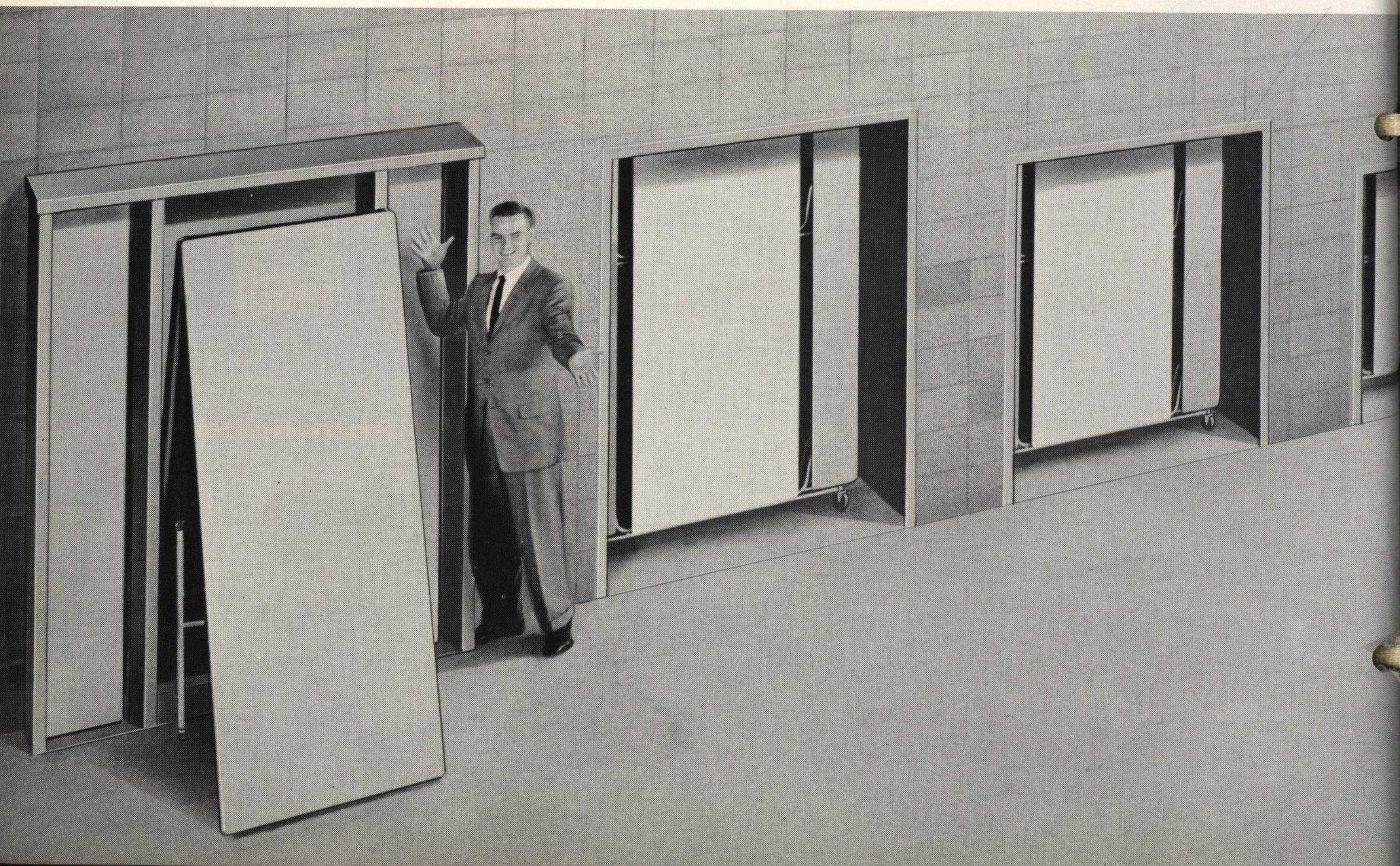
Here's one dramatic way *to use Erickson's new one-fold tables: Store 24 feet of tables in one 3 foot high wall cabinet.*

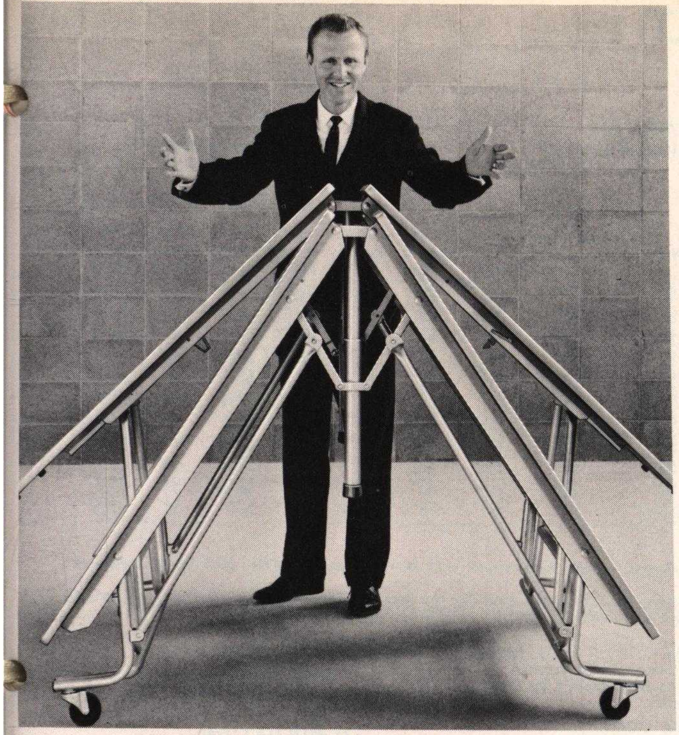
Here's the quality you get in each and every one of Erickson's 24 one-fold models: 1. Two steel channels under each bench and the table top, an Erickson exclusive, 2. Rugged, simple understructure, no unsightly knobs or projections to bump or tear, 3. Torsion and compression springing for one-step controlled folding and unfolding, 4. Bonded NEMA plastic tops and benches with ¾″ solid core material, 5. Sanitary benches never touch table tops, 6. Position locks —no teeter-totter when extended, no "surprise" openings when folded, 7. Walk-in ends, nothing to hurdle, 8. Pivot points in metal, can't pull out. Only Erickson offers the quality you want for long life, the flexibility you need for complete design freedom.

Look at this line-up! Check the cabinet heights. Check the model variations. And this is only part of the Erickson line!



SEE HOW THE ERICKSON TABLES NEST. Each table has its own track and its own guide wheels. Wheels move easily to the right track and a simple push puts the table exactly in place. Take out one table, or two, or all. The school gets flexibility, too. (Photo shows two portable models nested. Wall units nest flush in cabinets.)

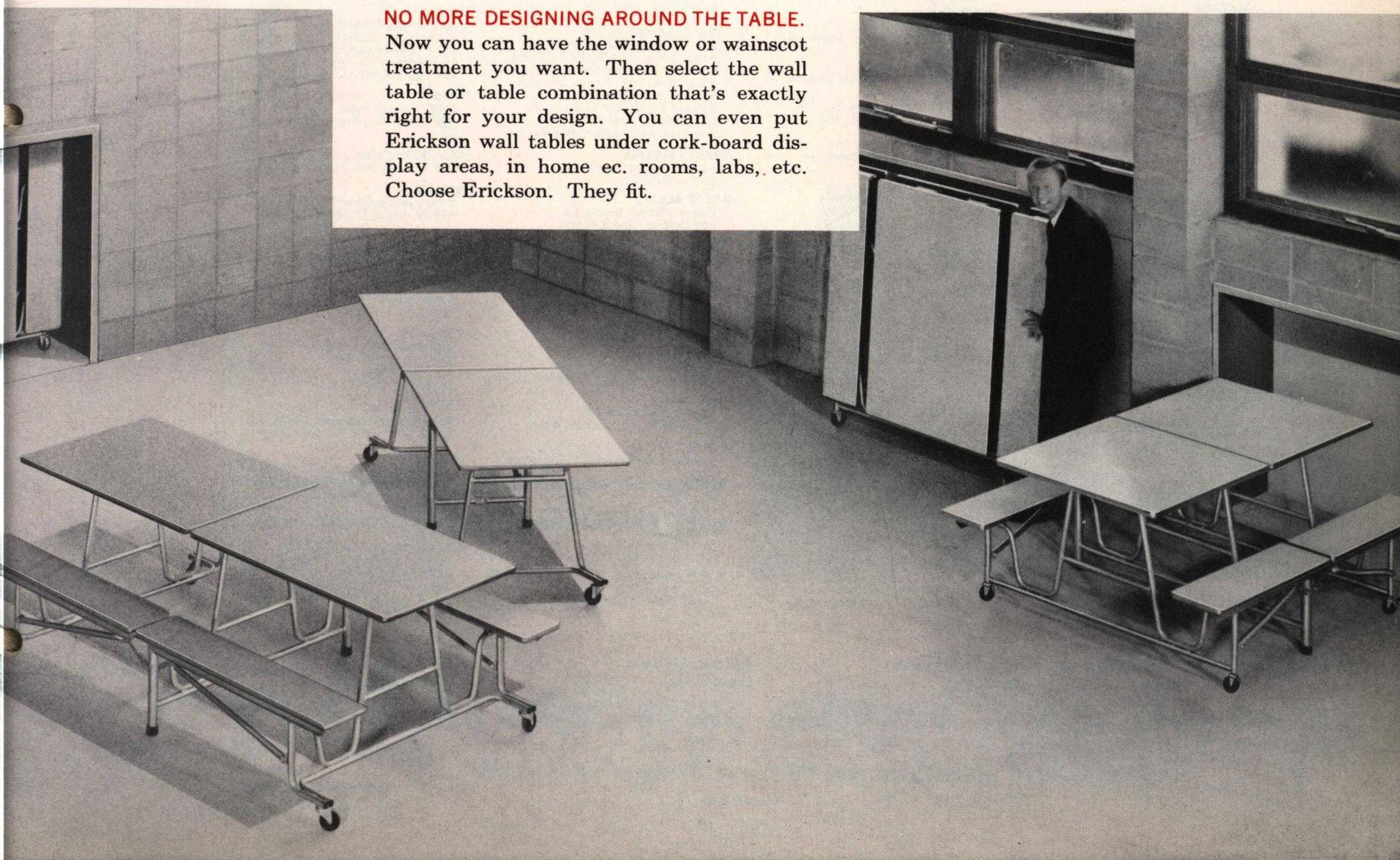




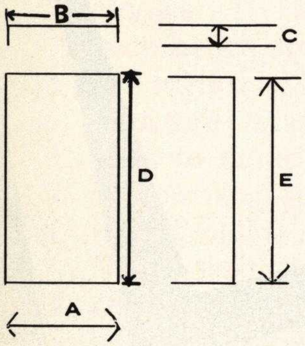
SIMPLE, FAST, EASY, SAFE OPERATION. Erickson's special torsion and compression springing maintains complete control throughout the entire folding and unfolding cycle. Never before has folding and unfolding been so convenient and effortless.

ON THE WALL OR IN THE WALL. Cabinets may be recess-mounted in the wall to give you maximum floor area. If wall construction prevents recessing, they may be mounted on the wall. As both tables and benches are individually detachable, the initial cost of wall cabinets may actually result in long range economies.

NO MORE DESIGNING AROUND THE TABLE. Now you can have the window or wainscot treatment you want. Then select the wall table or table combination that's exactly right for your design. You can even put Erickson wall tables under cork-board display areas, in home ec. rooms, labs, etc. Choose Erickson. They fit.



ERICKSON ONE-FOLD WALL TABLES



MODEL NO.	GENERAL DIMENSIONS					BENCH DIMENSIONS		CABINET DIMENSIONS						
									General		With Benches		Without Benches	
	Length	Width of Table Tops With and Without Benches	Height Folded With Benches	Height Folded Without Benches	Top Height Unfolded	Width	Bench Height Unfolded	'C" Depth	"D" Height Front	"E" Height Back	"A" Width Front	"B" Width Back	"A" Width Front	"B" Width Back
2912BRW	12′	30″	76½″	77¼″	29″	52″	17″	7½″	79″	78″	56½″	52¾″	34″	31½″
2712BRW	12′	30″	76½	77¼″	27″	52″	15″	7½″	79″	78″	56½″	52¾″	34″	31½″
2910BRW	10′	30″	64½″	65¼″	29″	52″	17″	7½″	67″	66″	56½″	52¾″	34″	31½″
2710BRW	10′	30″	64½″	65¼″	27″	52″	15″	7½″	67″	66″	56½″	52¾″	34″	31½″
298BRW	8′	30″	52½″	56½″	29″	52″	17″	7½″	55″	54″	56½″	52¾″	34″	31½″
278BRW	8′	30″	52½″	54½″	27″	52″	15″	7½″	55″	54″	56½″	52¾″	34″	31½″
297BRW	7′	30″	46½″	54″	29″	52″	17″	7½″	49″	48″	56½″	52¾″	34″	31½″
277BRW	7′	30″	46½″	52″	27″	52″	15″	7½″	49″	48″	56½″	52¾″	34″	31½″
296BRW	6′	30″	40½″	51⅝″	29″	52″	17″	7½″	43″	42″	56½″	52¾″	34″	31½″
276BRW	6′	30″	40½″	49⅝″	27″	52″	15″	7½″	43″	42″	56½″	52¾″	34″	31½″
RW 1 & 2	14′	30″	86″		29″	56½″	17″	5½″	89″	87¼″	61½″	59″	34″	31½″

Note: On-Wall Tables have Model Numbers similar to Recess Models, except, for example, a 12 ft. table has Model No. 2912-BOW, instead of 2912-BRW. For 14′, use RW and OW.
Cabinet Dimensions for On-Wall Tables are the same as the following two dimensions given for the Recess Wall Cabinets: Width Front "A"; Width Back, same as front; and Depth "C". Cabinet depths are for single tables only. For nesting, multiply by number of tables desired.

SPECIFICATIONS

Tables shall be Erickson "One-Fold" Model (No.)———— (specify unit or combination of units desired from above chart). Recess Wall (or On-Wall) type Tables with Benches (without benches) as manufactured by Haldeman-Homme Mfg. Co., St. Paul 14, Minnesota.

OPERATION: Tables (and benches) shall fold and unfold from wall cabinet in a single operation with both folding and unfolding operations controlled through their cycles by a combination of torsion and compression springing. End legs shall be equipped with casters.

CONSTRUCTION: Top to be of ¾" solid core material with NEMA Standard high pressure Melamine plastic 1/16" thick bonded to tops with plastic balancing sheet on the underside. (Tops of benches to be plastic covered with plastic balancing sheet on the underside.)

Color of tops (and Benches) shall be ————. Specify number of tables desired in the color combination desired from the following: Yellow Plaid Top (with Charcoal Plaid Benches) . . . Turquoise Plaid Top (with Charcoal Plaid Benches) . . . Light Birch Top (with Charcoal Plaid Benches) . . . Light Birch Top (with Light Birch Benches.) (Other selections on special order.)

All edges of tops (and benches) trimmed with flush-type plastic T-molding with no exposed fastenings.

UNDERSTRUCTURE: Legs of 1" 14 gauge round steel tubing cold formed and jig welded. Table top shall have two 14 gauge channel steel frames of 1½" (and benches shall each have two channel steel frames — outside channel 2⅜" . . . inside channel 1½"). All metal parts finished with gray baked enamel applied by electrostatic process.

RECESS WALL CABINETS: To be of 16 gauge steel construction, complete with strap anchors welded to each side of cabinet. For Recess Wall installation make openings approximately ¾" wider at top and sides and ½" more in depth than actual cabinet measurements.

Note: Lintels for cabinets to be supplied by others when required.

ON-WALL CABINETS: Same as Recess Wall cabinets except shall have finished sides and top to mount to existing walls.

FINISH: Recess Wall or On-Wall cabinets shall be supplied with prime coat, to be finished on job by others.

ALL PARTS AND MATERIALS to be unconditionally guaranteed.

Note: Copy within the parentheses to be used when specifying tables with benches.

14′ OPERATION

Tables shall be equipped with hydraulic cylinder for automatic and safe opening. There shall be an opening between table and bench tops to act as safety space. Tables and benches shall open with manual lock, and lock automatically when folded to close position. Unlocking shall be accomplished with special key wrench through stile of cabinet with no openings in table top or bench tops. Both tables and benches shall detach from the cabinet.

Complete specifications, shop drawings and 20 page catalog available from nearest Erickson distributor or from Haldeman-Homme.

DISTRIBUTORS

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Bodine, Bryson & Rolling, Inc.
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NEW MEXICO
John Barnes Company
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School Equipment, Inc. (Eastern)
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(New York City Public Schools)
38 Park Row, New York City
Checker Equipment Corp.
(Institutional and Industrial)
One Park Ave., New York City
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North Carolina Seating Co.
Box 6, Liberty
NORTH DAKOTA
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OHIO
Denny Supply Co. (Northern)
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1026 W. Goodale Blvd., Columbus
Condit Construction Products, Inc.
(Southern)
2800 East 3rd, Dayton
OKLAHOMA
Dowlings, Inc.
607 W. Grand Ave., Oklahoma City
OREGON
Guy V. Sweet Co., Inc.
105 E. 56th St., Seattle, Wash.
PENNSYLVANIA
Playtime Equipment Co. (Western)
Mars
Equipment and Furniture Co., Inc.
(Eastern)
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G. H. Towne Co.
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SOUTH CAROLINA
R. L. Bryan Co.
1440 Main St., Coumbia
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4012 Hillsborough, Nashville
Tayloe Paper Co. (Western)
420 South Front St., Memphis
TEXAS
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912 Brazos St., Austin
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VIRGINIA
Brownson Equipment Co.
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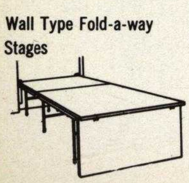
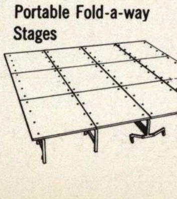
William L. Kittelberger (Eastern)
2708 South 44th St., Milwaukee
WYOMING
Colborn School Supply Co. (Western)
27th and Minnesota, Billings, Mont.
Horblit and Company (Eastern)
2329 Champa St., Denver, Colo.
CANADA
ALBERTA AND SASKATCHEWAN
Evans Engineering Sales, Ltd.
3628 Burnsland Road, Calgary, Alta.
10149 - 106 St., Edmonton, Alta.
No. 7 Mitchell Bldg., Regina, Sask.

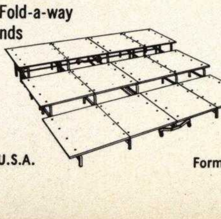
Wall Type Fold-a-way Stages



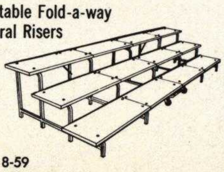
Portable Fold-a-way Stages



Portable Fold-a-way Band Stands



Portable Fold-a-way Choral Risers



Printed in U.S.A.

Form No. 8-59

HALDEMAN
HOMME •
Manufacturing Company
2580 University Ave.
St. Paul 14, Minnesota

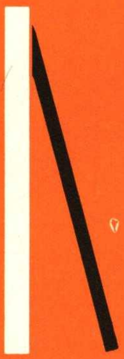
Mitchell FOLD·O·LEG Doubler

PORTABLE TABLES AND BENCHES

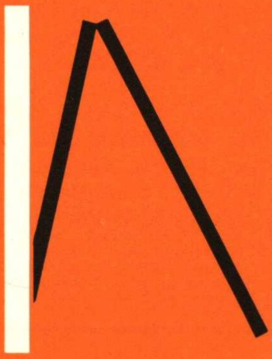
fast conversion for . . .

- CAFETERIAS
- ASSEMBLY HALLS
- BANQUET ROOMS
- MEETINGS ● MOVIES
- STUDY ROOMS
- SOCIALS ● DANCES
- SPORTS ● GAMES

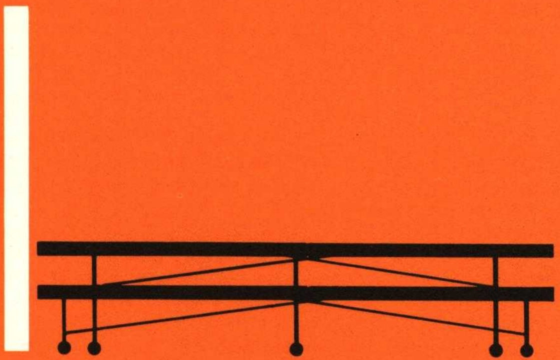
BUILT-IN STORAGE



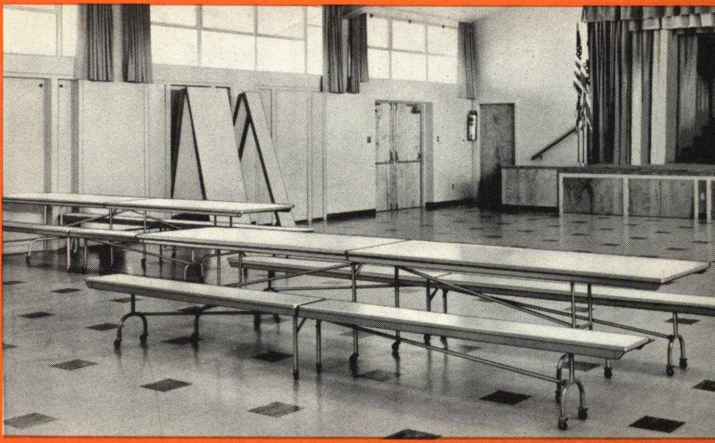
OPENED OR CLOSED IN A FEW SECONDS



SMOOTH EASY OPERATION BY ONE PERSON



USED EITHER ATTACHED OR AWAY FROM CABINET

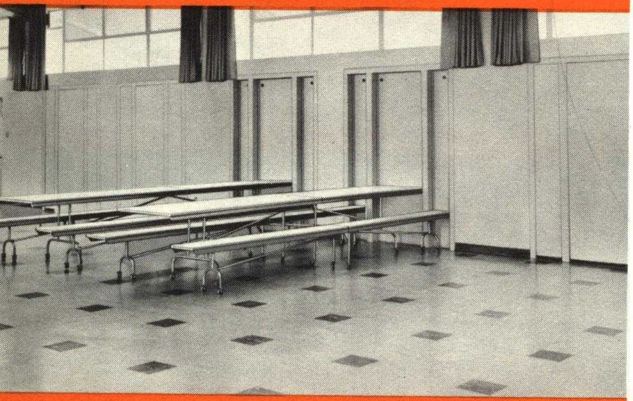


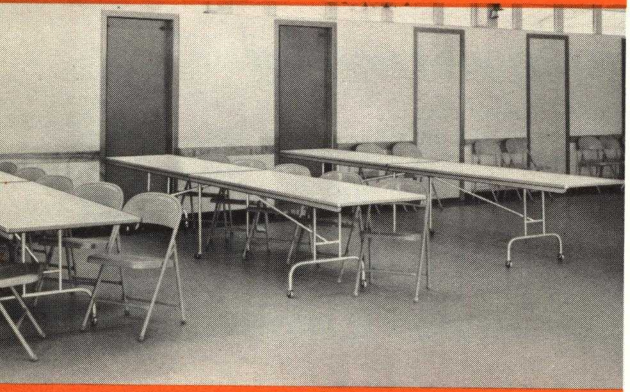
MITCHELL MANUFACTURING COMPANY • Milwaukee 46, Wis.

"Backed by over 50 years of manufacturing experience"

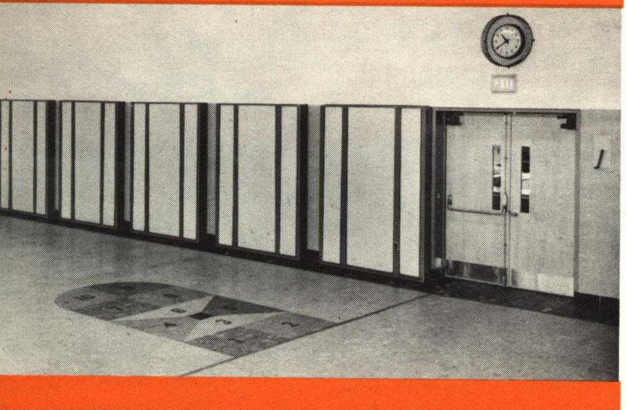
Mitchell FOLD·O·LEG Doubler

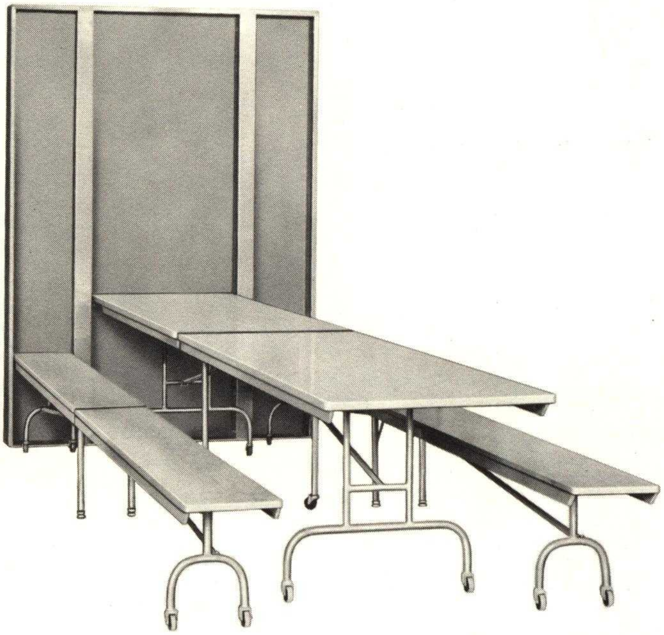
SET-IN-WALL... in new building





AGAINST-WALL... economical remodeling





PATENTED

Cabinet-stored folding table and bench sets offer fast conversion possibilities for multiple-use of gymnasiums, halls, classrooms, corridors, and other areas without affecting their original use. The compact wall cabinet can be placed "Against-the-wall" for remodeling or "Set-in-wall" in new buildings.

The separate tables and benches are completely independent units that can be used (a) with one end attached to the cabinet for quick lunches, arts and crafts, games, and other purposes or (b) can be detached and rolled away from the cabinet for meetings, banquets, varied activities through the means of the safe and easy-to-operate End Lock.

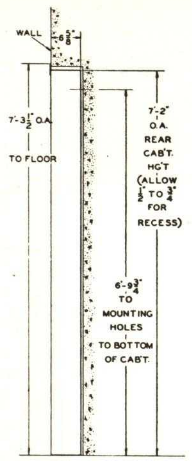
FEATURES

Shallow all steel wall cabinets equipped with a double length folding table and two double length folding benches that will comfortably seat 20 children or 18 adults.

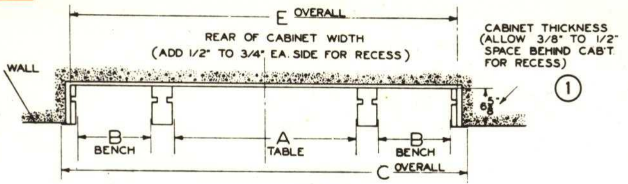
- **SAFETY FIRST.** Space provided between table and bench twin tops eliminates finger pinching hazards. Individual keyless locks hold table and benches securely in cabinets. Units safely and easily operated by one person and so balanced that even when locks are unlatched equipment will not tip or "run" out of cabinet endangering operator. Quiet and trouble-free use is assured by the high position and angle of the sturdy, simple end-leg braces designed to prevent use as a foot rest.
- **FASTER OPERATION, SEMI-AUTOMATIC, KEYLESS, LEVER-TYPE LOCKS** attach units to cabinet. Fewer operations required when folding and unfolding units.
- **SMOOTH SANITARY TOP SURFACES.** No lock key-holes to collect food particles or other objects that might interfere with operation. Safety space between twin tops also permit safe, easy and thorough cleaning even when in use. Top edging is tough and durable, fitted absolutely tight to prevent retention of food debris.
- **COMFORTABLE SEATING** provided by generous extra-width units. Pedestal type end legs on table eliminate knee interference.
- **STEEL CHANNEL TOP SUPPORTING FRAME** on both tables and benches insures rigidity. Table and bench tops rest directly on full width cross member of leg assembly for maximum support and load distribution. This design eliminates the use of individual leg anchoring and expansions bolts which might bulge or mar top surface.
- **CABINETS EASILY AND QUICKLY INSTALLED.** Easily mounted into recesses provided in wall. When masoned into growing wall, mortar securely grips design of cabinet sides so special anchors are not needed.

SEE COMPLETE SPECIFICATIONS ON PAGE 4

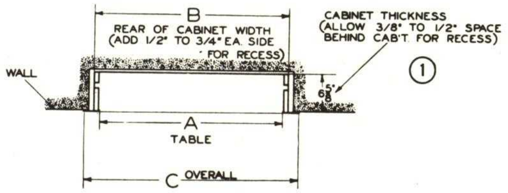
SET-IN-WALL*


WALL
6 5/8"
7'-3 1/2" O.A. TO FLOOR
7'-2" O.A. REAR CAB'T. HG'T (ALLOW 1/2" TO 3/4" FOR RECESS)
6'-9 3/4" TO MOUNTING HOLES TO BOTTOM OF CAB'T.

SECTION


E OVERALL
REAR OF CABINET WIDTH (ADD 1/2" TO 3/4" EA. SIDE FOR RECESS)
CABINET THICKNESS (ALLOW 3/8" TO 1/2" SPACE BEHIND CAB'T. FOR RECESS)
①
6 5/8"
WALL
B BENCH
A TABLE
B BENCH
C OVERALL

PLAN
Model D88S — with benches


B
REAR OF CABINET WIDTH (ADD 1/2" TO 3/4" EA. SIDE FOR RECESS)
CABINET THICKNESS (ALLOW 3/8" TO 1/2" SPACE BEHIND CAB'T. FOR RECESS)
①
6 5/8"
WALL
A TABLE
C OVERALL

PLAN
Model D44S — without benches

portable tables and benches

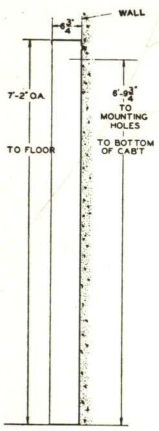
Dimensions — with benches

Model D88S	A	B	C	E	Center to Center of Cabinets Produces 22" Aisle
3012	30"	12"	5'- 7⅜"	5'-4"	7'- 0"
2812	28"	12"	5'- 5⅜"	5'-2"	6'-10"
2810	28"	10"	4'-11⅞"	4'-8½"	6'- 4½"

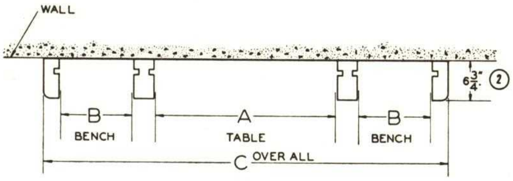
Dimensions — without benches

Model D44S	A	B	C	E	Center to Center of Cabinets Produces 54" Aisle
30	30"	2'-8¼"	2'-11¾"	.....	7'- 0"
28	28"	2'-6¼"	2'- 9¾"	.....	6'-10"

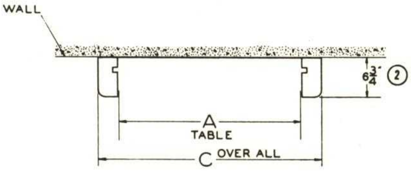
AGAINST-WALL*


WALL
6 3/4"
7'-2" O.A. TO FLOOR
6'-9 3/4" TO MOUNTING HOLES TO BOTTOM OF CAB'T

SECTION


WALL
6 3/4"
②
B BENCH
A TABLE
B BENCH
C OVER ALL

PLAN
Model D88A — with benches


WALL
6 3/4"
②
A TABLE
C OVER ALL

PLAN
Model D44A — without benches

Dimensions — with benches

Model D88A	A	B	C	E	Center to Center of Cabinets Produces 22" Aisle
3012	30"	12"	5'- 7⅜"	.....	7'- 0"
2812	28"	12"	5'- 5⅜"	.....	6'-10"
2810	28"	10"	4'-11⅞"	.....	6'- 4½"

Dimensions — without benches

Model D44A	A	B	C	E	Center to Center of Cabinets Produces 54" Aisle
30	30"	.....	2'-11¾"	.....	7' 0"
28	28"	.....	2'- 9¾"	.....	6'-10"

INSTALLATION DRAWINGS SHOWING FURTHER DETAILS AVAILABLE ON REQUEST

DOUBLE DEPTH (DOUBLE CAPACITY) CABINETS

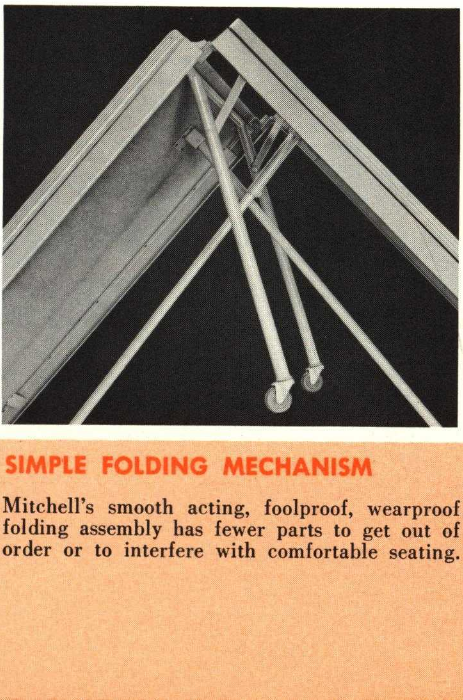
* Cabinets available in "Against-wall," full "Set-in-wall" and half "Set-in-wall" models.

① For double depth cabinets with two tables and four benches or two tables only, cabinet thickness is (1'-1¼") one foot, one and one-quarter inches.

② For double depth cabinets with two tables and four benches or two tables only, cabinet thickness is (1'-1⅜") one foot, one and three-eighths inches.

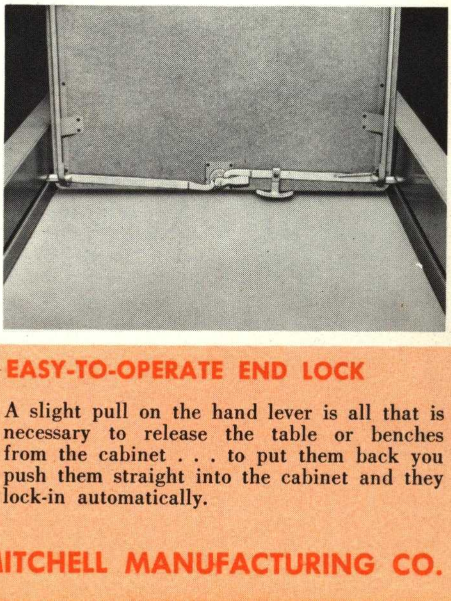
SAFE TO OPEN AND CLOSE

Units are safely and easily operated by one person and so balanced that even when locks are unlatched equipment will not tip or "run" out of cabinet endangering operator.



SIMPLE FOLDING MECHANISM

Mitchell's smooth acting, foolproof, wearproof folding assembly has fewer parts to get out of order or to interfere with comfortable seating.



EASY-TO-OPERATE END LOCK

A slight pull on the hand lever is all that is necessary to release the table or benches from the cabinet . . . to put them back you push them straight into the cabinet and they lock-in automatically.

Mitchell FOLD-O-LEG Doubler SPECIFICATIONS

GENERAL: Where indicated on the plans and covered by these specifications, the contractor shall furnish and install MITCHELL DOUBLER units as manufactured by the MITCHELL MANUFACTURING COMPANY, Milwaukee 46, Wisconsin.

CABINETS: To be furnished with full steel backs and constructed of 16-gauge formed and welded steel, except sills and necessary trim flanges which shall be 14-gauge steel, designed to provide well-rounded edges. Units to be shipped completely assembled, ready to install. For mounting, ⅝″ holes shall be provided near the top in back panel and additional ⅝″ holes in the sill. Cabinet equipped with special design Depth Guides attached to inside of cabinet top and bottom, serves to hold tables and benches in line with front of cabinet frame when in locked position. In operation, these guides shall not touch top surfaces. Cabinets supplied with one coat of metal priming paint. (If specified, Standard Light Bryce Beige enamel finish will be applied at factory.)

FOLDING LEGS and LEG MECHANISM: Legs at each end of tables shall be of pedestal arch design with full-width top cross members, channel apron which is the top supporting frame, to rest directly on the top cross members of leg assemblies for maximum load carrying capacity. Understructure and working parts attached to tops with special hexagon head "Sure-Grip" plated screws. End legs to be equipped with non-marking 2″ rubber-tired stationary type casters. Table center legs with the same style swivel-type casters for easier maneuverability. Center legs on benches to be equipped with rubber cushion glides. Slanted tubular steel folding braces shall be pivotally connected to tops and legs and positioned high from floor to prevent use as a foot rest. Folding mechanism must permit safe, quiet, easy opening, closing and locking into cabinet. Electric welded high carbon steel tubing having a minimum carbon content of .45% and not less than 14-gauge wall thickness shall be used for all legs.

TABLE and BENCH TOPS: Adequate space shall be provided between adjacent halves of tops to prevent lodging of food particles and to act as finger safety space when units are opened or closed. Top surfaces shall be absolutely free of key-holes or locks.

SIZES and FINISHES: The standard size for tables to be 13′-10″ long, 30″ wide and 29″ high. The standard size for benches to be 13′-10″ long, 12″ wide and 18″ high. If 27″ or 24″ table heights are ordered, 17″ or 15″ high benches will be furnished (specify). Standard cabinets must be designed to accommodate different table and bench heights without special adjustment. All metal parts shall be finished with high grade Light Bryce Beige enamel. (See cabinet diagrams to specify combinations of 28″ wide tables 12″ or 10″ wide benches.)

FORMICA TABLE and BENCH TOPS: Formica sheets approximately 1/16″ thick, bonded to ¾″ thick Temper Treated Hardboard-faced panel with selected plywood core balanced with Hardboard back. Selection from three standard patterns.

RESILYTE TABLE and BENCH TOPS: Resilyte sheets approximately 1/16″ thick, bonded to ¾″ thick Temper Treated Hardboard-faced panel with selected plywood core balanced with Hardboard back. Selection from four standard patterns.

Other colors and patterns can be furnished on special order.

TOP FRAME CONSTRUCTION: Tops shall be supported by 1¾″ deep, 16-gauge, cold rolled, full-length steel channels with formed steel reinforcements. Hinges for center folding of tops shall be strongly welded to the ends of the steel channels to give maximum rigidity and strength, independent of top materials used.

TOP EDGING: To be stainless steel T shaped moulding extending on all sides of adjacent halves of each top section to fully protect all edges and to be absolutely tight-fitting to prevent food particles from lodging therein.

INSTALLATION: Cabinets installed into recesses (Set-In-Wall) require openings larger than rear of cabinet dimensions. Opening to be not more than ¾″ additional at top and each side and ½″ more in depth. Contractor, at his expense, shall completely install cabinets plumb and level according to installation drawings and instructions furnished by manufacturer. Contractor, at his expense, also, shall install tables and benches into cabinets.

COMBINATIONS AVAILABLE: One folding table in cabinet, one folding table and two benches in cabinet, also double-depth cabinets with two tables and four benches, or two tables only for "Set-In-Wall" or "Against-Wall" installations. To specify combinations of tables and benches other than listed in the foregoing specifications write for cabinet dimensions.

MITCHELL MANUFACTURING COMPANY

MILWAUKEE 46, WISCONSIN

MFRS. OF MITCHELL FOLD-O-LEG TABLES, FOLDING STANDS, STAGES, PLATFORMS, CHORAL STANDS, CHAIR RISERS

Dealers in all Principal Cities

Printed in U.S.A.

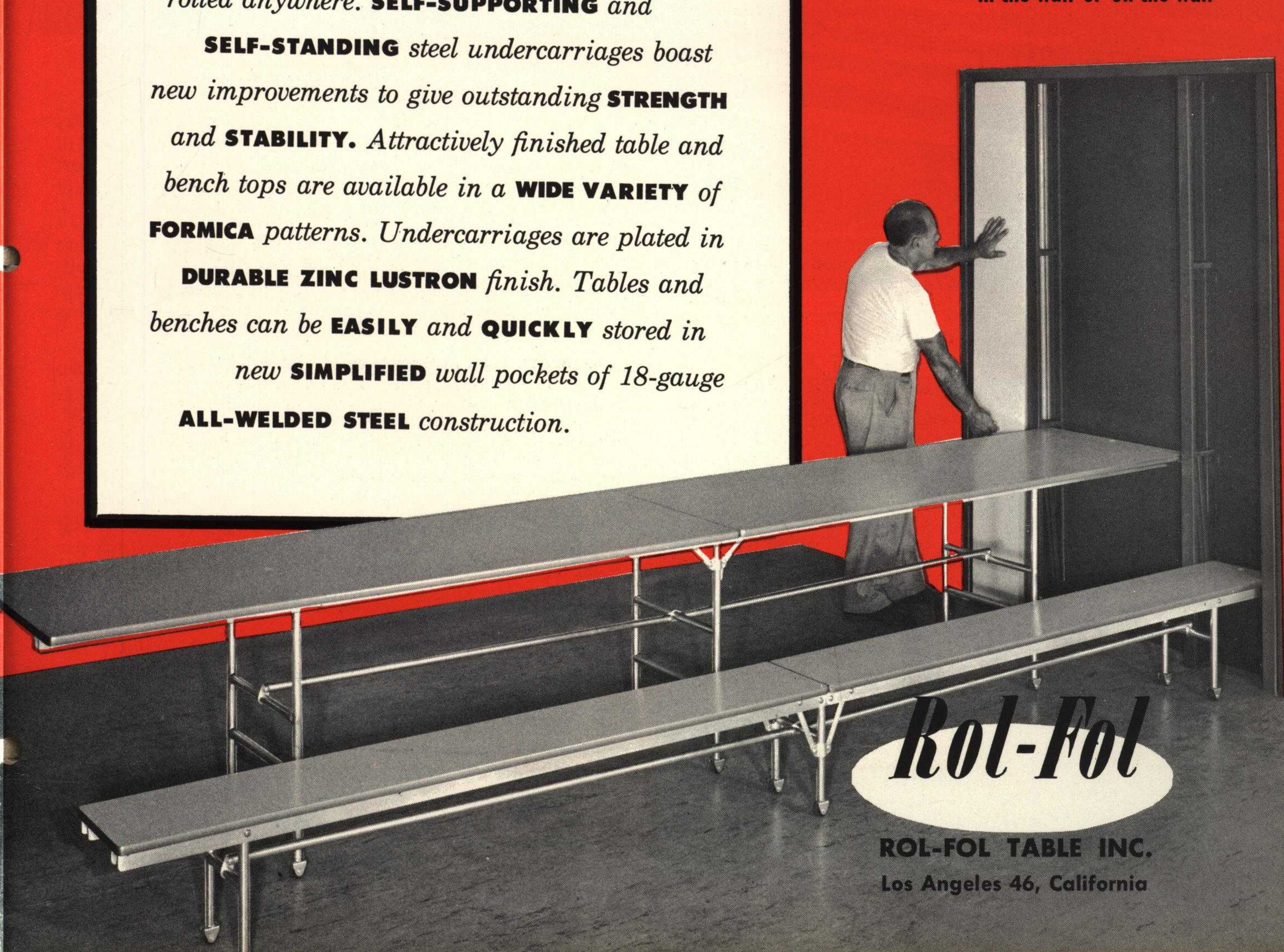
Wall-Fol

folding tables and benches

with space-saving
wall storage pockets...
in-the-wall or on-the-wall

A.I.A. FILE No. 28A-4

The **NEW LOOK** *in wall-type folding table and bench sets offers many exclusive features:* **DETACHABLE** *tables and benches may be rolled anywhere.* **SELF-SUPPORTING** *and* **SELF-STANDING** *steel undercarriages boast new improvements to give outstanding* **STRENGTH** *and* **STABILITY.** *Attractively finished table and bench tops are available in a* **WIDE VARIETY** *of* **FORMICA** *patterns. Undercarriages are plated in* **DURABLE ZINC LUSTRON** *finish. Tables and benches can be* **EASILY** *and* **QUICKLY** *stored in new* **SIMPLIFIED** *wall pockets of 18-gauge* **ALL-WELDED STEEL** *construction.*



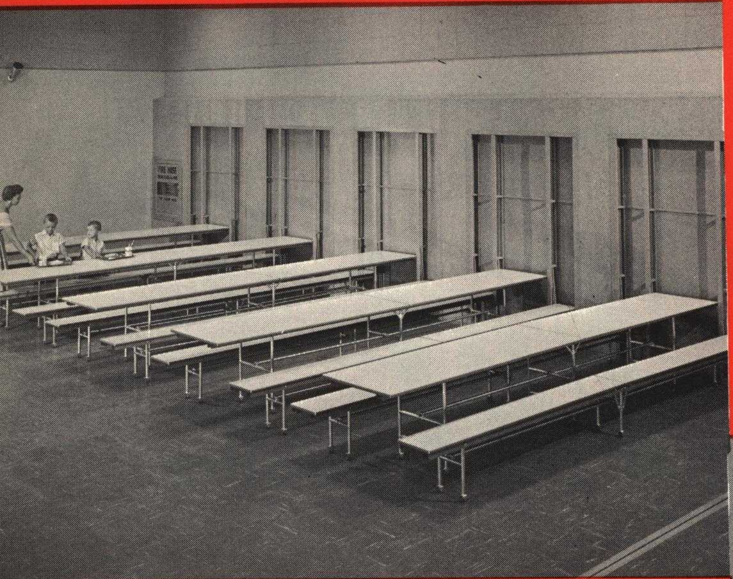
Rol-Fol

ROL-FOL TABLE INC.
Los Angeles 46, California

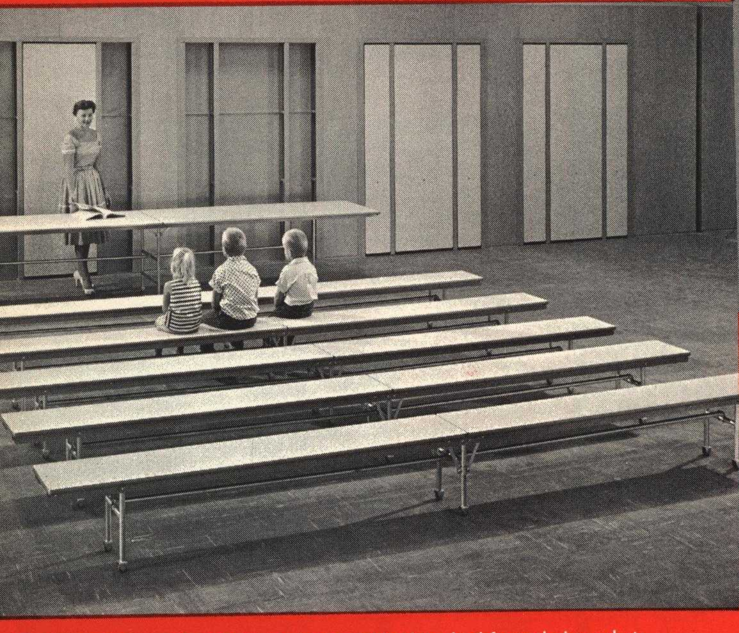
Wall-Fol

FOLDING TABLES AND BENCHES

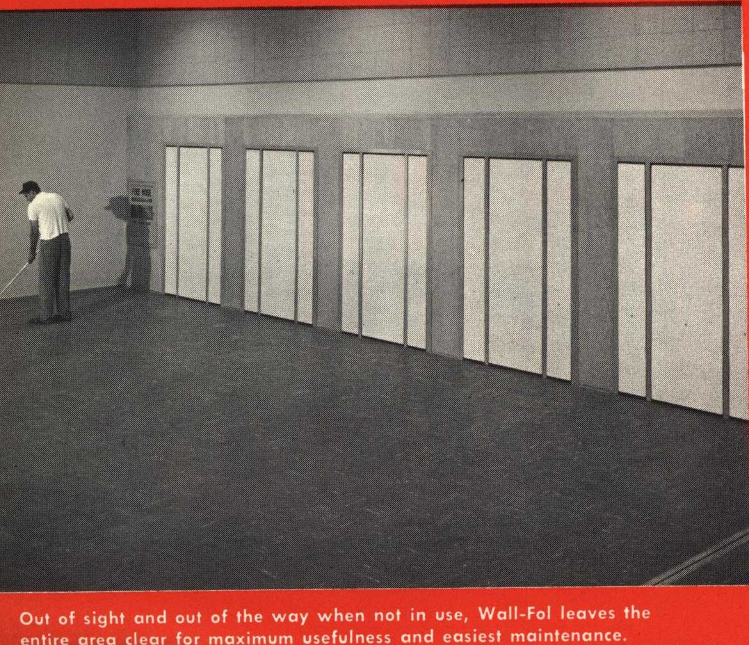
with space-saving wall storage pockets for multi-purpose rooms and social halls



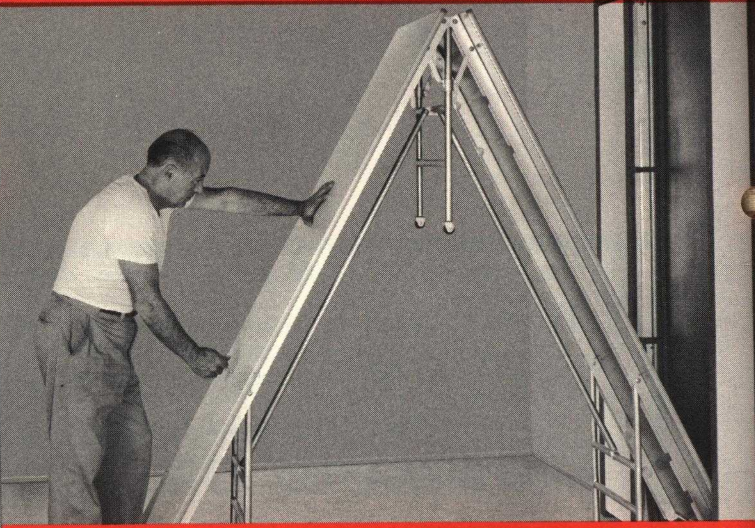
When in use, Wall-Fol Tables can be locked in position to prevent accidental folding.



Wall-Fol Tables and Benches may be quickly detached from their pockets and rolled anywhere in the room. Benches may be used for assembly seating.



Out of sight and out of the way when not in use, Wall-Fol leaves the entire area clear for maximum usefulness and easiest maintenance.



Wall-Fol Tables and Benches fold and lock securely into their own attractive wall pockets. Easily operated by one man.

ATTRACTIVE APPEARANCE: Top surfaces of Wall-Fol Tables and Benches are finished with FORMICA in a wide variety of colors and patterns. Since tables and benches become part of the wall when folded in the pockets, Wall-Fol equipment is pleasing to the eye when stored or in use.

RUGGED CONSTRUCTION: Table and bench top panels are securely attached to the sturdy self-supporting and self-standing steel undercarriage . . . won't come loose! Steel legs and hardware are zinc lustron plated to offer a long wearing protective finish.

COMPACT: Single depth steel wall pockets are only 5½″ deep . . . require minimum space when built-in-the-wall or on-the-wall . . . eliminate the need for extra storage room space.

TIME-SAVING: Fast, easy setup and storage of tables and benches save time and labor . . . make multi-use of rooms truly practical.

LARGE CAPACITY: Strong, durable Wall-Fol Tables and Benches are 14 feet long, seating 20 or more children per set; tables alone for use with folding chairs will comfortably accommodate 16 adults. Tables and benches are available in a choice of 6 heights.

FLEXIBLE: Wall-Fol Tables and Benches may be quickly and easily detached from their pockets and rolled to any desired arrangement. In a few minutes' time, tables can be placed for social functions and banquets.

STANDARD POCKETS: Wide variety of pocket models offers the utmost in installation flexibility for mounting in-the-wall or on-the-wall, with and without bench pockets. Multiple-depth pockets are available to store two, three or four sets, a further saving on storage requirements. Dimensional details on triple and quadruple depth pockets supplied on request.

MODELS AND DIMENSIONS

All models include pockets

Recommended spacing of pockets

for table pockets: 7′6″ center to center (minimum)

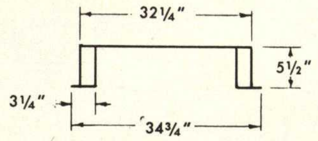
for table and bench pockets: 6′6″ center to center (minimum)

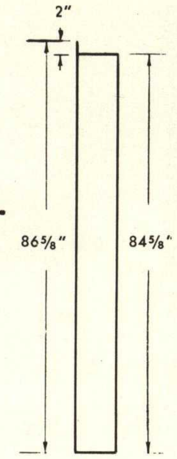
IN-THE-WALL . . . for new construction
Pockets with flanged edges to overlap finished wall

ON-THE-WALL . . . primarily for remodeling
Enclosed mullion pocket sides and head

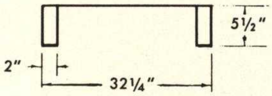
ONE TABLE

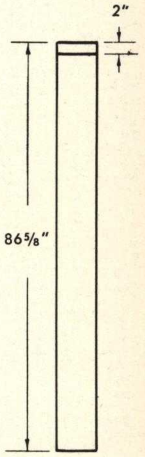
MODEL F-1T Make rough opening 33¼″x85⅝″x6″


32¼″
5½″
3¼″
34¾″



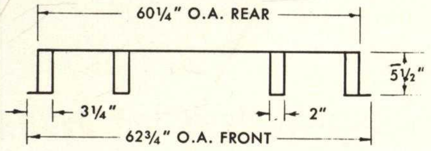
MODEL M-1T



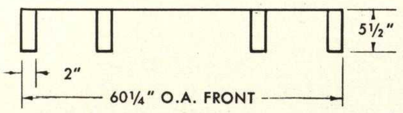


ONE TABLE AND TWO BENCHES

MODEL F-3TB Make rough opening 61¼″x85⅝″x6″

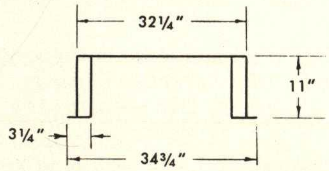

60¼″ O.A. REAR
5½″
3¼″
2″
62¾″ O.A. FRONT

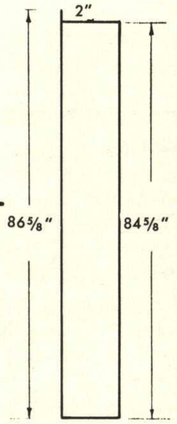
MODEL M-3TB


5½″
2″
60¼″ O.A. FRONT

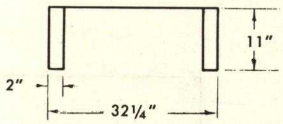
TWO TABLES

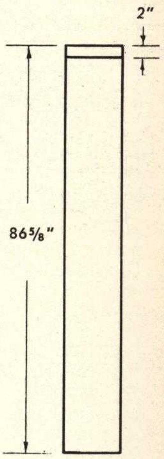
MODEL F-2T Make rough opening 33¼″x85⅝″x 11½″


32¼″
11″
3¼″
34¾″



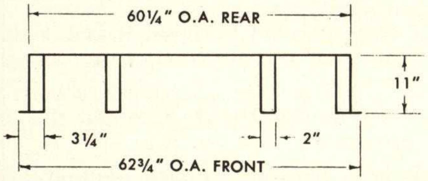
MODEL M-2T



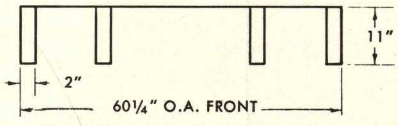


TWO TABLES AND FOUR BENCHES

MODEL F-6TB Make rough opening 61¼″x85⅝″x11½″

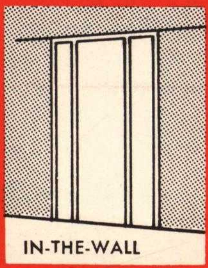

60¼″ O.A. REAR
11″
3¼″
2″
62¾″ O.A. FRONT

MODEL M-6TB


11″
2″
60¼″ O.A. FRONT

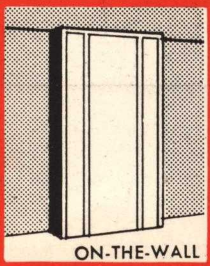
DO NOT SCALE THESE DRAWINGS

TWO METHODS OF INSTALLATION



IN-THE-WALL pockets are installed in wall recesses or built into the wall during construction.

ON-THE-WALL pockets for installation in existing rooms, may be attached directly to the wall surface.



DOUBLE-DEPTH pockets are used where wall space is limited. Two table and bench sets are stored in each pocket. The front set is unlocked from the pocket and rolled to a desired location. The second set is unfolded and left attached to the pocket or removed.

ROL-FOL TABLE INC.

Wall-Fol SPECIFICATIONS

FOLDING TABLE AND BENCH SETS: Furnish two-leaf folding tables and benches 14 feet long complete with steel pockets, IN-THE-WALL (or ON-THE-WALL) WALL-FOL Model No. (to be selected) as manufactured by ROL-FOL TABLE, INC., 8467 Melrose Place, Los Angeles 46, California. Phone OLive 3-2428.

TABLES AND BENCHES: Tables shall be 14′ long x 28″ wide; benches 14′ long x 11¾″ wide, constructed as follows: The table and bench undercarriage shall be of all-steel construction. Top frames shall consist of 16 gauge cold rolled steel U channel 1⅞″ wide by 1-9/16″ deep. Legs and bracing shall be electro-weld, high carbon steel tubing 1″ O.D. x 15 gauge wall thickness. The entire undercarriage shall be one complete unit, self-supporting and self-standing, to which the top shall be securely fastened.

Hardware shall be precision die formed of ⅛″ steel. All casters shall be fixed, non-marking, rubber tired.

Each table and bench shall be provided with two manually operated locks and a safety catch lock. Manually operated clamp-locks shall be installed on the center legs of all tables for preventing accidental folding.

The tops of tables and benches shall be constructed of ¾″ particle board surfaced with a high pressure laminated plastic and plastic backer sheet. The plastic color and pattern shall be chosen by the purchaser from a selected group of FORMICA samples submitted by Rol-Fol Table, Inc. (Non-standard patterns and FORMICA in solid colors available at premium price.)

Edges of tables and benches shall be trimmed with a dent resistant plastic moulding, silver gray color. The moulding shall be applied to make a tight fitting joint with the plastic top surfaces.

The tubular steel undercarriage and all hardware parts shall be zinc lustron plated. Steel top frames shall be baked enamel, gray Hammertone finish.

TABLE AND BENCH HEIGHTS

To be selected by purchaser.

Standard table heights:
25″, 26″, 27″, 28″, 29″, 30″.

Standard bench heights:
15″, 16″, 17″, 18″, 19″ and 20″.

Note: 19″ and 20″ high benches are not recommended for schools.

DETACHABLE AND INTERCHANGEABLE: The extended tables and benches shall be instantly and individually detachable from the pocket so they can be rolled about for various groupings. Any height table or bench shall operate in any pocket.

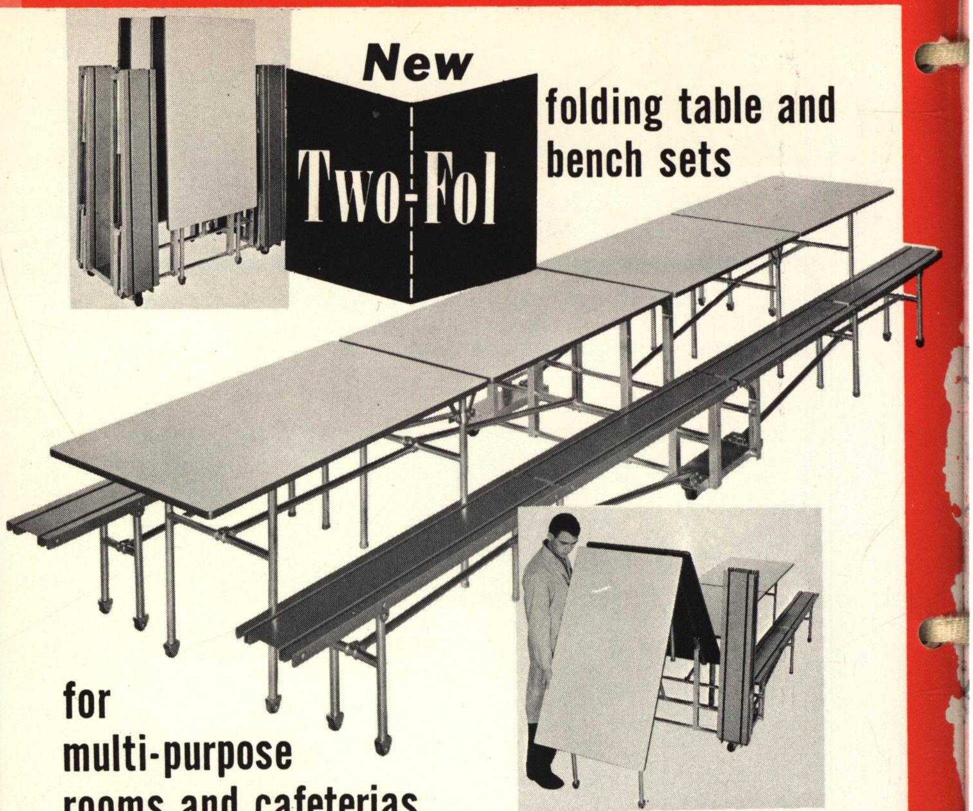
STEEL POCKETS: Wall pockets to house tables and benches shall be all-welded construction of 18 gauge steel. Vertical members to be open steel columns. Pockets shall be enclosed at sides, head and back with steel panels. Pockets shall be factory prime painted. Finish painting after installation shall be done by purchaser.

When steel pockets are to be built into masonry wall (specify) three strap anchors shall be welded to jambs on each side of pocket by manufacturer. Angle iron lintels shall be furnished by others.

INSTALLATION: Contractor or purchaser shall provide wall recesses for in-the-wall models, install pockets and place tables and benches in pockets. The pockets are to be set plumb, true and level and anchored according to manufacturer's recommendations. Sales agent shall provide installation drawings and instructions.

NOTE: The manufacturer reserves the right to make material and design changes to further improve the product.

U. S. Patent Numbers 2,650,146 and 2,699,978



New Two-Fol folding table and bench sets

for multi-purpose rooms and cafeterias...

where space for wall pockets is not available

These attractive, skillfully designed and sturdily built sets will easily accommodate 24 to 30 children, yet can be stored in less space than conventional equipment.

EXTRA CAPACITY: Table and both benches are a full 16 feet long—two to four feet longer than other similar equipment—so that *three* TWO-FOL sets provide the same seating capacity as *four* conventional 12-foot sets.

SPACE-SAVING: TWO-FOL sets fold up and store in the same space required for equipment with *one-fourth less seating capacity!* Storage area is just 8 square feet (50″ x 23″) per set—the same as for a 12-foot set. Height folded, 63″.

TIME-SAVING: A further advantage of this new size is in saving of custodian time; TWO-FOL sets can be set up or folded and stored in three-fourths the time required by conventional sets... *a 25% saving!* TWO-FOL is easy to fold and store. Bench and table sections are folded separately. Large swivel casters permit the folded set to be quickly rolled with little effort.

STURDY CONSTRUCTION: The rugged self-supporting undercarriage is constructed of zinc-lustron plated steel tubing and channel. Table panels are surfaced with damage-resistant Formica. Baked enameled steel benches add to appearance and will withstand severe usage.

ATTRACTIVE APPEARANCE: Tabletops are available in a variety of colors and patterns; trimmed in silver-gray extruded plastic—a handsome and durable combination.

ADDED FEATURE: Benches may be left in folded position so that tables may be used for display purposes... or place chairs at tables for special occasions.

TWO HEIGHTS: Table 27″ high with 15″ benches
Table 29″ high with 17″ benches

DISTRIBUTED BY ROL-FOL SALES CO.
A division of Rol-Fol Table Inc.
8467 MELROSE PLACE
LOS ANGELES 46, CALIFORNIA
OLive 3-2428

Rol-Fol

Manufactured by ROL-FOL TABLE INC.
Los Angeles 46, Calif.
Factory, Van Nuys, California

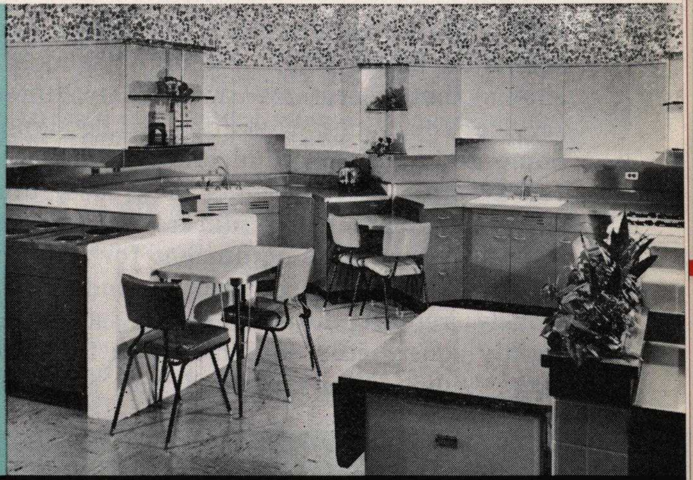
FORM WF-11

Litho in U.S.A.

COUNTY
HIGH SCHOOL

St. Charles

SCHOOL STORAGE FURNITURE



Flowers
Earth

FOOD LABORATORY
CLOTHING LABORATORY
ARTS AND CRAFTS
CLASSROOM STORAGE

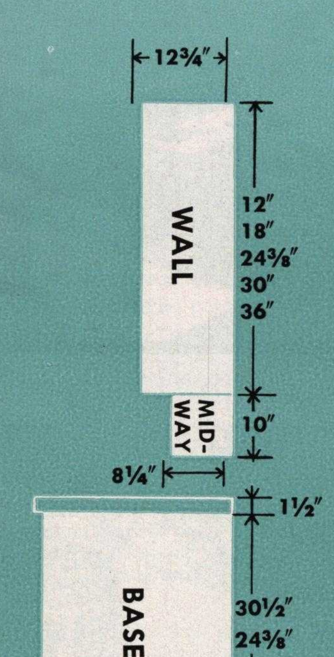
There are no stock St. Charles products — anywhere. Each unit, each kitchen is built strictly to order — following your client-approved specifications. This means that the variety, type and size of individual units are almost limitless.

BASIC DIMENSIONS OF ST. CHARLES SCHOOL LINES

St. Charles' experience in furnishing custom school furniture to thousands of schools has shown that there are two widely differing service conditions that cannot be ignored. Some activities, arts and crafts and clothing, for example, require units of greater dimensions and completely different engineering approach than does equipment for food preparation. These more severe conditions obviously require heavier gauge steel, more rigidly constructed equipment. In the face of these widely differing conditions, St. Charles has refused to compromise by furnishing a single line which would be stronger than necessary for the lighter service and insufficiently strong for the heaviest service.

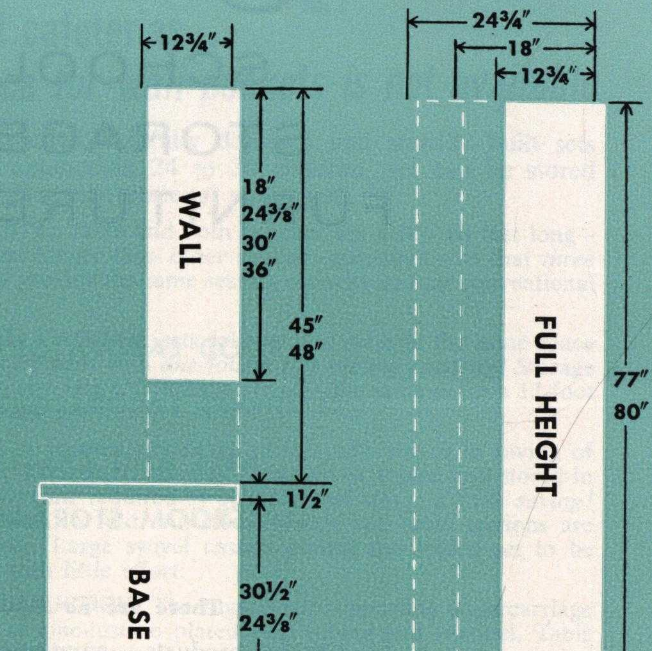
Accordingly, St. Charles offers not one line, but two. The E-line of casework is for use in the foods laboratory or in other areas where comparable storage is required. The S-line is recommended for other departments requiring heavier gauge steel, full height doors, wider doors and drawers and reinforced shelving for heavier storage.

The basic dimensions shown below are for your immediate convenience in room layout. Space does not allow us to show detailed storage information; however, we will be happy to furnish you with details upon request.



E-LINE

Wall unit widths 12″ thru 42″. Sliding glass door wall unit widths 30″ thru 60″. Base unit widths 12″ thru 42″. Full height unit widths 18″ and 24″. All width dimensions are in increments of 3″.



S-LINE

Well unit widths 15″ thru 48″. Base unit widths 15″ thru 48″. Full height widths 18″ thru 48″. All width dimensions from 18″ to 48″ are in increments of 6″.

CONSTRUCTION DETAILS

Material — E and S-Line
Cabinets and shelving shall be fabricated of mild, cold-rolled, annealed furniture steel.

Gauges
Gauges shall be as follows:

E-Line
16 gauge: Case and drawer slides.
18 gauge: Cross rails and gussets.
20 gauge: Door and drawer fronts, sub bases, bottoms and sides of full height units.
22 gauge: Wall and base unit sides, door and drawer liners, drawer bodies and shelves.

S-Line
14 gauge: Cross rails.
16 gauge: Top rails; case and drawer slides; bottom reinforcements.
18 gauge: Sides; bottoms, door and drawer fronts; shelves; gussets; sub bases.
20 gauge: Tops; backs; liners for door and drawer fronts; shelf strips; drawer bodies.

Case Construction — E and S-Line
Top of wall unit shall project over door, when closed, forming cap to resist entrance of dust. Bottom of wall unit shall be flush of double pan construction. Top rails and cross rails of base units shall be U-shaped channels.

E-Line
Two 90° bends on front edge of side form channel to which is welded U-shaped shelf support channel making closed rectangular stile ½″ x 1¼″.

S-Line
Sides shall be formed to make rabbeted stile 1⅛″ wide which shall be closed by welded channel containing shelf adjustment louvers.

Doors and Drawers — E and S-Line
Doors and drawer fronts shall be of double panel construction, ⅝″ thick, sound deadened. Handle reinforcement between panel.
Doors and drawers shall have soft rubber bumpers for quiet closing.
Drawer bodies shall be formed of one sheet and welded to front and back through flanges. Tops of side shall be rolled to eliminate sharp edges.
Drawer slide shall be a formed channel with a roller at rear; case slide shall be formed channel with roller at front. Shall have positive stop to prevent accidental removal.
Glazed doors shall be reinforced panel construction cut out to receive glass. Glass to be set in rubber glazing channel and held firmly in place by removable retaining strip.

S-Line
Sliding door shall operate in a track and roller assembly at top of unit and with a guide at bottom. Shall have recessed door pull.

Shelves — E and S-Line
Front and rear shelf edges are formed into a 30° triangular truss with extended lip. This truss edge rests in cadmium plated shelf clips. Adjustable on 1½″ centers. Glass shelf clips have rubber bumpers.

Hardware — E and S
Catch housing in door shall have two vertically mounted, full floating springs. Strike of hardened steel shall be attached to unit. Door and drawer pulls in exclusive design in solid cast zinc.

E-Line
Hinges shall be pivot type with stainless, long life pins attached to top and bottom of doors with counter-sunk screws. Doors over 36″ high will have additional hinge in center.

S-Line
Hinges shall be brass, five-jointed institutional type, 2″ long. Doors over 36″ high shall have an additional hinge in center. Hinge pin shall be locked in place.

Finish — E and S-Line
Following a six-stage wash and phosphate coating spray process, prime coat of film thickness of 1 mil plus or minus 10% shall be sprayed on and baked. Finish coat of equal film thickness shall be sprayed on and baked, resulting in a finish having a film thickness of 2 mils plus or minus 10%. Colors as selected.

ST. CHARLES MANUFACTURING CO.

PLANNING SERVICE

When planning a new school or an addition to an existing school, the architect or superintendent will find it helpful to call in a St. Charles representative. Working with him from the planning stage will prove beneficial in obtaining the best results from the use of St. Charles equipment.

Architects — superintendents: Write for complete Catalog No. 89.

TYPICAL SPECIAL PURPOSE UNITS

FOOD LABORATORY

- Linen Storage
- Mixer Unit
- Vegetable Storage Unit
- Handy Unit
- Tray Storage
- Soiled Linen Unit
- Waste Container Unit
- Utility Storage
- Implement Storage
- Built In Appliances
- Apron Storage
- Food Storage
- Cleaning Equipment Unit
- Silver Storage
- Sliding Table
- Auxiliary Drier
- Tilting Flour Bin

CLOTHING LABORATORY

- Tote Tray Units — Full Height
- Tote Tray Units — Base
- File Drawer Unit
- Ironing Board Unit
- Triple Mirror Unit
- Sewing Machine Unit
- Grooming Unit
- Roll-Away Bed Unit
- Lavatory Unit
- General Storage
- All Purpose Wardrobe
- Child Care Unit
- Drying Unit
- Implement Storage
- All Purpose Table
- Teacher's Wardrobe
- Illustrated Materials
- Chart and Magazine Storage

ARTS AND CRAFTS

- General Storage
- Sectional Storage
- Show Display Unit
- Tool Storage Unit
- Work Bench
- Instructor's Bench
- Work Table
- Paper Storage
- Clay Bin
- Movable Clay Cart
- Teacher's Desk
- Drawing Board Unit — Full Height
- Drawing Board Unit — Base

CLASSROOM STORAGE

- Drawer Units
- Open Shelving
- Sliding Door Units
- Open Shelving — 2 sides
- Sliding Door — 2 sides
- Clay Bin
- Toy Bin
- Bin Housing
- Paper Storage
- Book Mobile
- Sink Units
- Teacher's Desk
- Teacher's Wardrobe
- General Storage

ST. CHARLES UNIQUE SERVICES

1. Advantages of experienced custom building.

1. It permits the architect in planning to give first consideration to the needs and tastes of his clients without wasteful compromise.
2. Custom building allows a wider choice—and more flexible and efficient placement of storage, appliances and specialized equipment.
3. Custom building permits maximum scope to the use of bold imaginative layout—free from the limiting influences of mass produced design.

2. Skilled assistance of a dependable St. Charles dealer.

St. Charles dealers keep constantly abreast of the latest design techniques — aided by frequent sessions of field and factory schooling by St. Charles designers.

You can enlist the assistance of the St. Charles dealer at the earliest stages of planning — and rely on his ability to render detailed plans once the basic needs and ideas have been clearly defined.

3. Careful attention to individual specifications.

In the St. Charles method of custom manufacture, there are no stock units. Each element is manufactured as a part of the individual area for which it has been ordered. Thus, your specifications can be followed explicitly.

The only limits to dimension and design are those we suggest to protect you and your clients from hazards of design failure or useless expense.

4. Complete, thorough supervision of installation.

Trained installation crews, under the St. Charles dealer's personal supervision and responsibility, assure you that the completed job, will be satisfactory in every respect.

For that reason it is strongly recommended that the equipment be installed by a skilled St. Charles dealer.

ST. CHARLES MANUFACTURING COMPANY • ST. CHARLES, ILLINOIS
School Division 66 Tyler Road

FOLDING TABLES & BENCHES

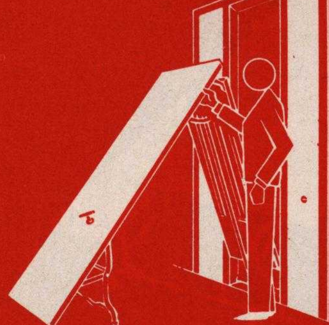
Schieber

SINCE 1931

A MODEL FOR EVERY APPLICATION

•

THOUSANDS OF INSTALLATIONS FROM COAST TO COAST



SCHIEBER'S Rugged Quality Construction Eliminates Maintenance Problems Assures Safe, Easy Operation and LONG LIFE

IN-WALL

THE ONLY ALL-STEEL FOLDING TABLE AND BENCH UNIT FOR SCHOOLS

In-Wall, the all-metal, all-welded folding table and bench unit was originated by Schieber and the first wall pocket model offered to schools. It dates back to 1931 and as testimony to its sound engineering and sturdy, solid construction, is the fact that the first installation, now 29 years old, is still in daily use and has never failed. There are unquestionably more In-Wall units in use today than all other makes and models combined. More than a thousand school architects have specified it and countless school districts have standardized on it. It is guaranteed for the life of the school.

Accommodates 20 trays.

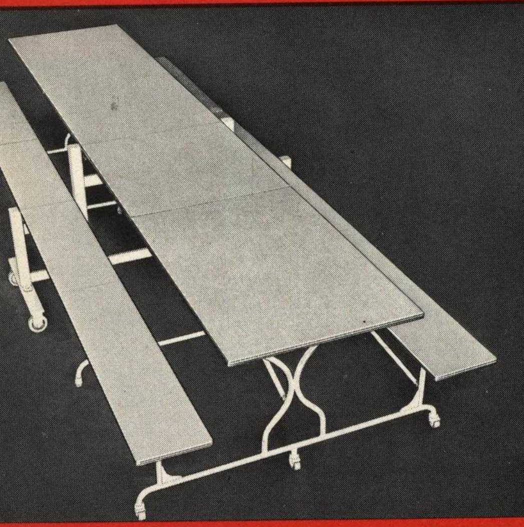
COMPAC-FOLD

DETACHABLE, WALL POCKET TYPE FOLDING TABLE AND BENCH UNIT

Compac-Fold is a detachable type unit. Tables and benches may be rolled to any position and used separately. One of its chief features is the shallow 5″ depth pocket which permits installation of single units in thinner walls such as are often specified in warmer climates. The detachable feature also permits use of multiple depth pockets for storing two or more units where wall space is restricted. Like all Schieber equipment, the Compac-Fold is "over-engineered" to provide strength and long life in school use. All edges are trimmed with top quality butyrate molding.

Accommodates 20 trays.

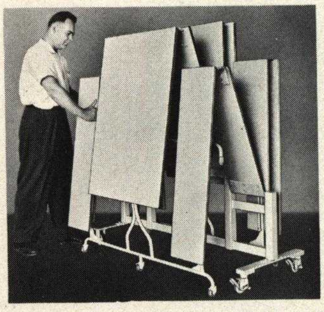
FLEXO-FOLD



**Flexo-Fold Table-Only. Available in 8', 10', & 12' Lengths.*

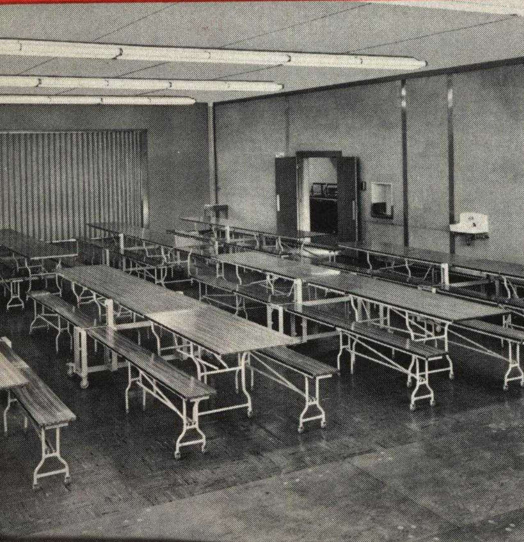
NEW 12′ PORTABLE WITH BUILT-IN CARRIER

The Flexo-Fold by Schieber is designed to meet the need for a portable folding unit that adapts itself to smaller or cut up areas. While it is lighter than most portables and easier to fold and unfold, it features typical Schieber rugged construction capable of serving in daily school use. One of the important features of the Flexo-Fold is the unitized strutting. The table and two benches of each side fold up and unfold as a single unit. Preloaded springs assist the operator.



Accommodates 16 trays.

TRANSI-FOLD



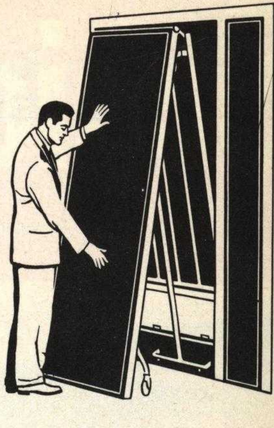
PORTABLE, INTEGRAL CARRIER UNIT, 20 AND 16 FOOT MODELS

Schieber's Transi-Fold unit is now available in two models. A 20 foot model has been added which has a seating capacity of up to 30 children. The 16 foot model of 24 children capacity is continued in the line. This unit is so compact and rugged it is widely used in industrial plants for seating adult workers. Table and bench tops are built like Compac-Fold with all surfaces sealed and trimmed with top quality butyrate molding. The open channel type carrier is all welded and serves as the center "leg." It is equipped with large rubber casters. When folded and rolled against the wall, Transi-Fold protrudes only 22 inches. Because of its compactness and speed with which it is operated, it is often first choice in portable equipment.

IN-WALL specifications

This covers furnishing two-leaf folding tables and benches manufactured by Schieber Mfg. Co. Connected to and operating from steel pockets, they shall be approximately 14′ long when extended. Shall be provided with automatic and manually operated locks and flush with wall when folded and locked in pockets. Pockets shall be approximately 7′4″ high and 4′ 9½″ wide. Made of 16 gauge steel with ⅛″ x 3″ steel facing to overlap wall and have 3/16″ x 1″ x 6″ long anchors welded to pocket lining approximately 2′3″ o.c. and be furnished with a 3″ x 3″ x ¼″ angle iron lintel welded to top of pocket lining and extending approximately 6″ over each side of pocket. Against-the-wall pockets shall be approximately 7′7″ high, 5′2⅜″ wide of the cabinet type with rounded corners on front top and sides. Tables shall be of #20 gauge sheet steel welded to 1½″ x 1½″ x 3/16″ angle iron frames, covered with ⅛″ battleship linoleum. Shall have automatically operated hinge legs with oilless bearing rubber wheel terminals secured to outer frame and a strut secured to inner frame and be counter-balanced for ease of operation. Benches shall be of #16 gauge steel welded to 1⅜″ x ⅞″ x 3/16″ angle iron frame, covered with ⅛″ battleship linoleum and shall have two automatically operated legs and strut member. The edges of the tables and benches shall be trimmed with 3/32″ x 1¾″ stainless steel welded to the steel frames. Pockets shall receive one coat of red lead before shipment. Finish coat on pockets by others. The underside of the tables and benches shall be painted with aluminum paint by manufacturer. Factory trained personnel shall install tables and benches after pockets are installed in walls by others. Operation and function of the "In-Wall" unit is guaranteed for the life of the building.

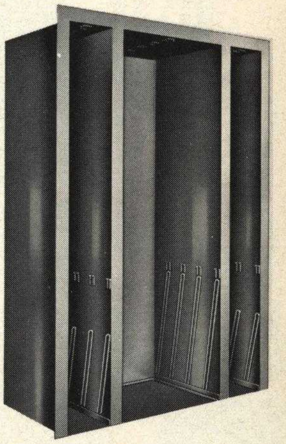
WRITE FOR DETAIL DRAWINGS



Counter Balanced for Easy Operation

COMPAC-FOLD specifications

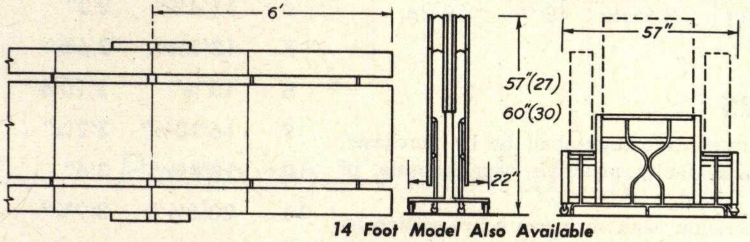
Approximately 14 feet long when extended. Constructed with automatic and manual locks. Flush with face when locked in pockets. DETACHABLE from the pocket. POCKETS 16 gauge steel spaced approximately 6′ 6″ O.C. approximately 7′ 1⅝″ high, 4′8⅝″ wide, 5⅝″ deep including stiffening bars, ⅛″ x 2″ facing, 3/16″ x 1″ x 4″ long anchors welded to pocket sides, two anchor bars ¼″ x 1″ extending 2″ each side. Against-the-wall pocket approximately 7′ 3⅝″ high, 4′ 11½″ wide. Cabinet type with rounded corners and edges. Double-depth pockets same specifications as above except depth 10 11/16″. TABLES ¾″ laminated wood covered with high pressure, laminated, heat-resistant plastic, available in 6 colors (specials extra) and backer sheet. Automatically operated hinged tubular legs, 1 1/16″ O.D. with ⅛″ wall and rubber wheel terminals. Formed stiffening support entire length of table top. BENCHES same construction as tables except tubular legs. 27/32″ O.D. with ⅛″ wall. All edges trimmed with top quality butyrate molding to seal joint between plastic top and core. (Stainless steel molding optional extra.) Table heights 25″ to 30″ in 1″ increments. Benches 15″ to 20″ in 1″ increments. (Table 24″ and bench 14″ at additional charge.) Pockets to receive one coat of red lead before shipment. Finish coat by purchaser at his expense. Understructure painted by manufacturer. Pockets built into or attached to wall by purchaser. Tables and benches installed by purchaser or manufacturer's agent.



WRITE FOR DETAIL DRAWINGS

FLEXO-FOLD specifications

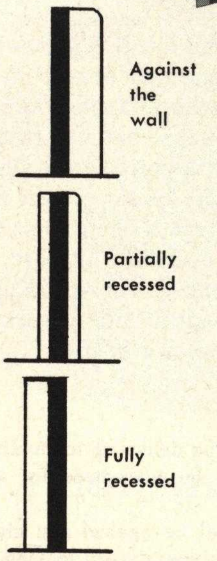
Two folding tables and four benches permanently attached to carrier. Carrier constructed of 2″ square steel tubing with ½″ x 2″ welded joining members and with four bearing equipped casters, 2 pivoting type. Understructures of tables and benches 27/32″ O.D. steel tubing. All fixed joints welded. Table top with plastic backer sheet and surfaced with high pressure, laminated, heat resistant plastic in 6 standard colors. Edges trimmed and sealed with top quality butyrate molding. Benches same as tables or optional "Everform" wood. Edges rounded and all surfaces finished with mottled, neutral tone plastic spray, non-absorbent, chip, scratch and wear resistant. Floor space occupied when folded 22″ x 57″, when opened 12′ x 57¼″. Optional table and bench heights: 27″/17″ and 30″/20″. Height of unit when folded: 27″ model 57″, 30″ model 60″. Carrier and understructure painted by manufacturer.



14 Foot Model Also Available

** Plastic on Benches, Additional Charge.*

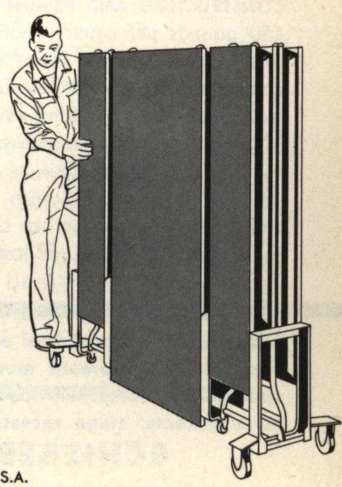
MULTIPLE DEPTH POCKETS



These pockets may be installed in new buildings or in remodeling projects. They are available for two, three and four complete units and are approximately 10″, 15″ and 20″ deep respectively. This type installation is particularly adaptable where wall space is limited.

TRANSI-FOLD specifications

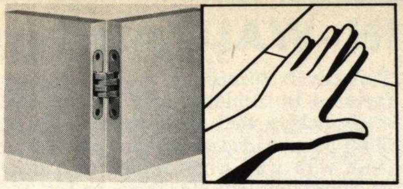
Two tables and four benches permanently attached to carrier. CARRIER constructed of channel formed steel equipped with 3½″ rubber, oilless bearing casters. Dimensions of carrier: 22″ wide, 61″ long. 16 foot model 62″ high when tables and benches are folded. 20 foot model 74″ high when tables and benches are folded. TABLES laminated wood covered with high pressure, laminated, heat-resistant plastic in 6 standard colors (specials extra) and backer sheet. Automatically operated hinged legs with rubber wheel terminals. Tubular legs 1 1/16″ O.D. with ⅛″ wall. Formed stiffening support the entire length of table top. BENCHES same construction as tables except tubular legs, 27/32″ O.D. with ⅛″ wall. All edges are trimmed with top quality butyrate molding. Table heights 27″ and 30″; bench heights 17″ and 20″. Carrier and understructure of the tables and benches painted by manufacturer.



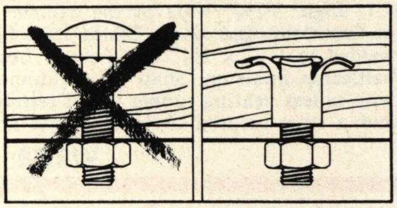
Note: Understructures of all Schieber units will be painted in special colors if specified. There will be a small additional charge.

Litho in U.S.A.

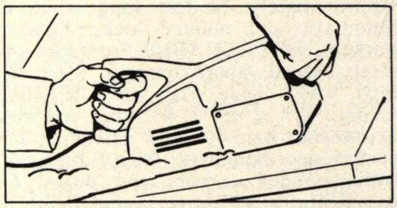
Schieber Stage
FOLDING



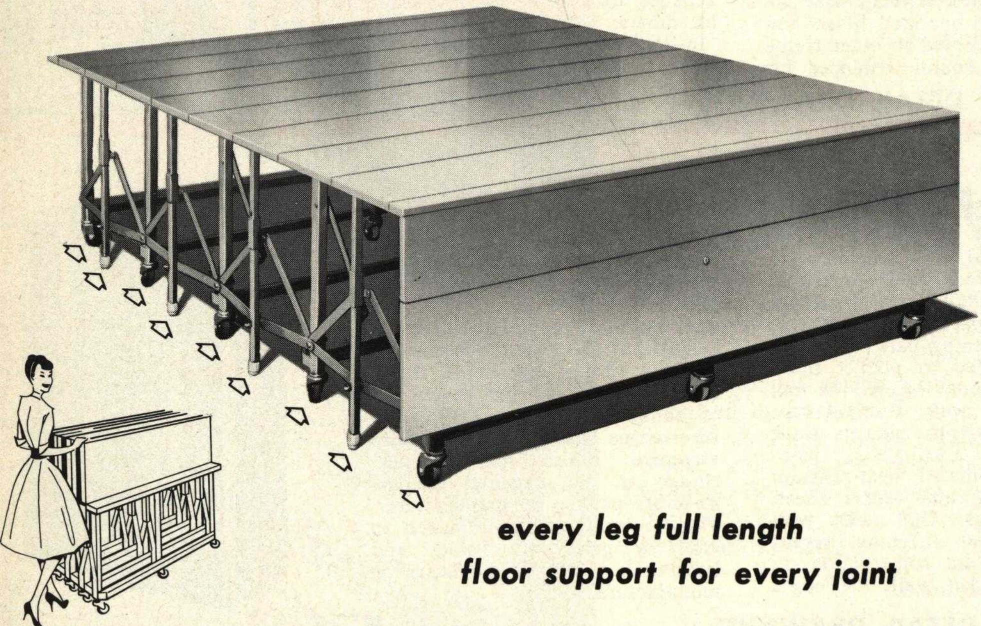
Soss concealed hinges provide flat tight joints without projections. They're guaranteed the life of the stage.



500 pound pull test expansion anchors secure planks to supporting structure. No bolt heads projecting or recessed.



7 fir strips per board. Free of imperfections and bonded by high pressure adhesive. Finished with special hard, mar-resistant seal. Freedom from bolt and hinge projections simplifies refinishing.



every leg full length
floor support for every joint

Solid is the name for it! The new Schieber stage is the next best thing to a permanent built-in stage. With Schieber you get a surface as level as the floor it stands on. It is not a trussed construction but has twice as many legs as other designs and is supported from the floor at each and every joint. This feature means greater rigidity and easier folding. The Schieber stage is free of bolt and hinge projections and gaps between boards. Furniture, props, band equipment, etc. set level without rocking. Rugs lay flat. Fold it — roll it against the wall or into a recess or storage area. It's out of the way when not in use!

WIDTHS	HEIGHTS	
	Open	Closed
6 ft.	18 in.	29 in.
8 ft.	24 in.	35 in.
10 ft.	30 in.	41 in.
12 ft.	36 in.	47 in.
14 ft.	42 in.	53 in.
16 ft.	48 in.	59 in.

DEPTHS		
No. Sec.	Open	Closed
1	2'2½"	0'8¼"
2	4'½"	1'0"
3	5'10½"	1'3¾"
4	7'8½"	1'7½"
5	9'6½"	1'11¼"
6	11'4½"	2'3"
7	13'2½"	2'6¾"
8	15'½"	2'10½"
9	16'10½"	3'2¼"
10	18'8½"	3'6"
11	20'6½"	3'9¾"
12	22'4½"	4'1½"
13	24'2½"	4'5¼"
14	26'½"	4'9'
15	27'10½"	5'¾"
16	29'8½"	5'4½"
17	31'6½"	5'8¼"
18	33'4½"	6'0"
19	35'2½"	6'3¾"

SPECIFICATIONS

GENERAL. Shall be delivered to purchaser fully assembled in crates. Uncrating shall be by purchaser. Each unit shall be guaranteed for a period of one year against faulty materials, workmanship, or operation.

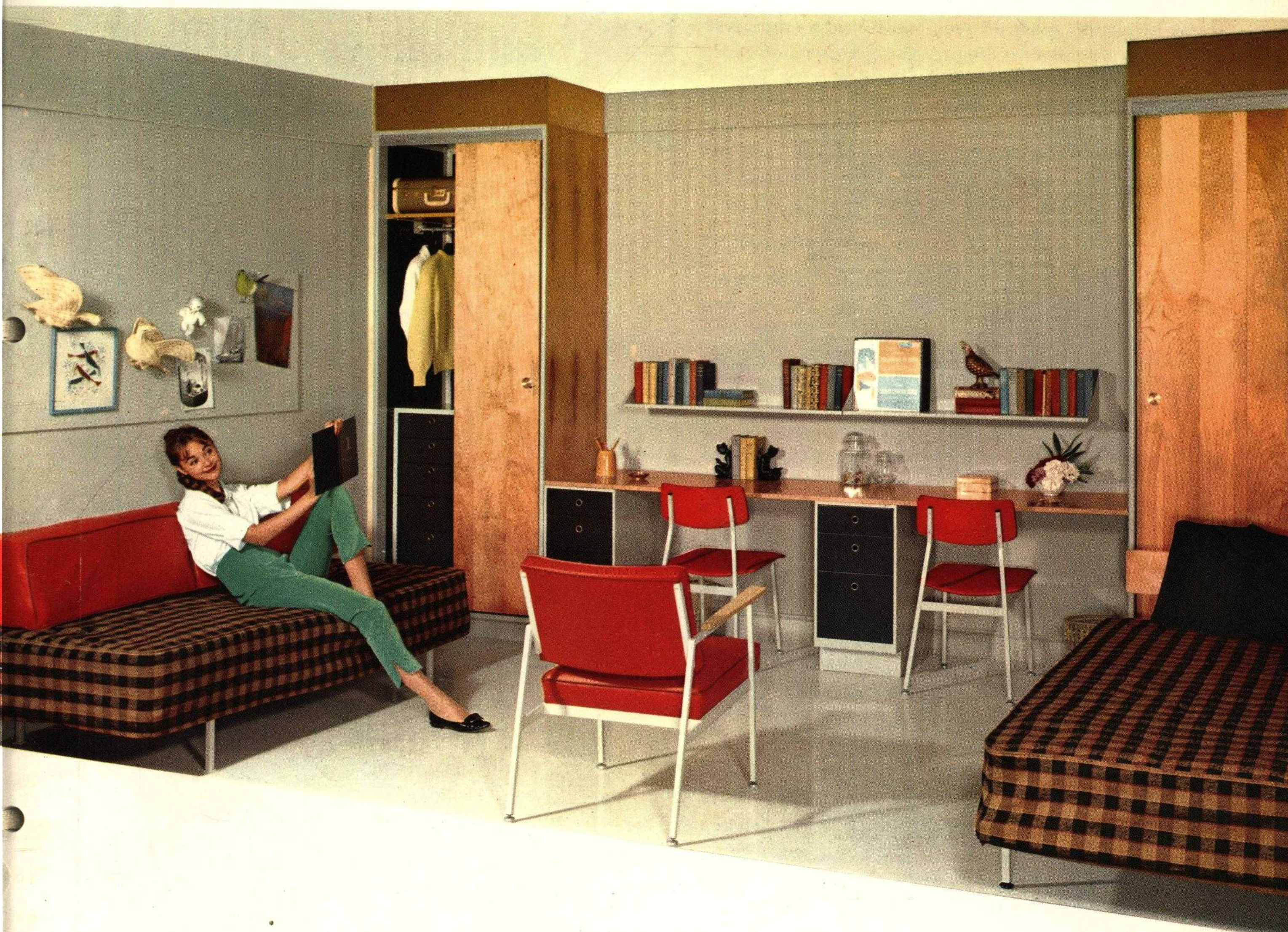
OPERATION. Shall be opened and closed in one continuous operation, with each two board section individually and automatically locking open. Shall be equipped with minimum of one floor stop, with non-marking rubber pad, located at each corner.

CONSTRUCTION AND DESIGN. (1) Shall be designed and constructed to support minimum live-load of 150 pounds per square foot. (2) Floor boards shall be supported at each joint by square or rectangular tubing, each making direct contact with the floor. (3) Top surface of floor boards shall be smooth and completely free from bolt heads, hinges or other projections or recesses. (4) Floor boards, base boards, and tail boards shall be edge-glued strips of Douglass Fir, each board dimensions being approximately ¾" x 11". (5) Understructure casters to be two inch, non-marring type, oilless bearing rubber wheels. (6) Understructure shall be finish painted by manufacturer in standard brown enamel. (7) All wood parts shall be sanded with radiused edges with two coats of hard mar-resistant finish and one coat of finish wax applied before shipment. (8) Shall be completely portable when folded. Shall be movable in extended position, as long as no load is on the top surface. (9) Key lock to prevent unauthorized operation.

Schieber offers complete assistance to those contemplating the use of their equipment. Our representatives in all areas are qualified school equipment men who will work with you and your architects in planning your needs, figuring costs and writing specifications. We also maintain a layout service. Upon submission of floor plans our engineers will plan pocket locations, seating arrangements, stage recesses, etc., for maximum use of floor space.

SCHIEBER SALES CO. • 12955 INKSTER ROAD • DETROIT 39, MICH.

DORM LINE
by **SIMMONS**



Planning... installation... maintenance... financing —all EASIER with Simmons Dorm Line

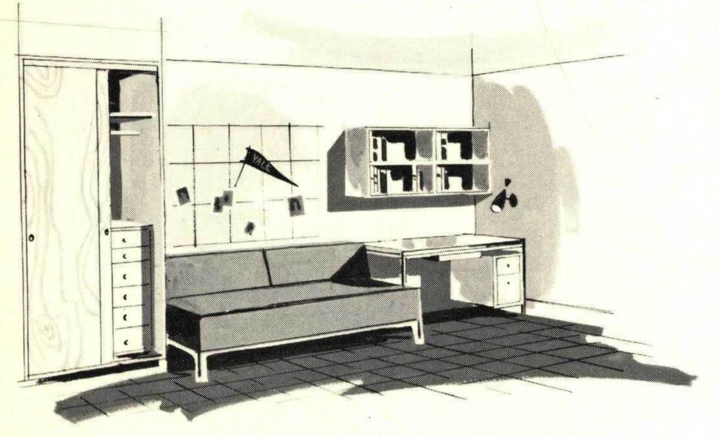
From start to finish, your job is simplified with Dorm Line installations—simplified even in building design. Rooms may be planned in standard shapes and sizes to save time and costs. They may be arranged in a wide variety of ways without loss of spaciousness. Then as you add Dorm Line units, you achieve efficient, colorful, homelike rooms.

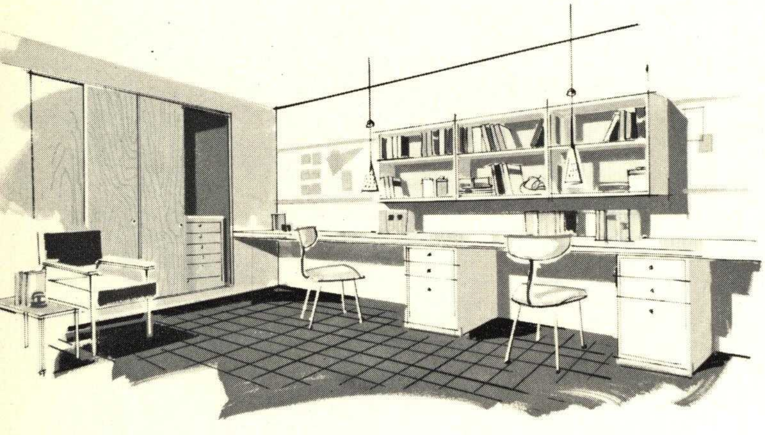
Simmons color range makes it possible for each dorm room to vary in color scheme without changing basic wall color. The variety of combinations available in chests, desks and wardrobes permits unlimited floor plan arrangements.

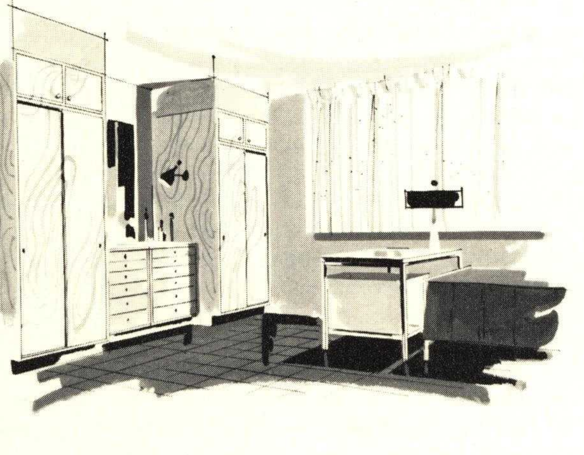
Installation is quick and easy — no time-consuming custom-built wardrobe or closet construction required. Easy maintenance — certainly. Steel construction means "student-proof" abuse-resistance and durability . . . wardrobe frames never warp . . . doors won't sag or stick . . . steel drawers assure smooth, quiet operation.

Money problems are easily solved. Simmons Dorm Line wardrobes, chests, desks—even beds—are built-in to qualify for *long-term* government financing. This all adds up to furniture that long outlasts the loan!

Simmons **DORM LINE** *construction safeguards your investment . . .*







lasting quality

Architects and designers are assured of specifying sturdy, attractive, livable dormitory furnishings with Dorm Line. Efficiently designed units offer unexcelled opportunity for effective, economical use of floor space. Rigid standards of quality control assure furniture that will keep its new look through generations of students with minimum maintenance.

savings • approved financing

Prefabricated, steel framed wardrobes shipped k.d. are ready to be installed on the job at a fraction of the cost and time required for wood units. Standard, unvarying dimensions enable the architect to design storage areas with the knowledge that each unit will fit perfectly into the space provided. All built-in units in the Simmons Dorm Line qualify for long term government financing.

simplicity of lines

Dorm Line units stay in style throughout their long years of service because their lines are clean and simple. They are never dated, because taste and judgment place no time limit on simplicity.

engineered comfort

True, lasting comfort is designed into every Simmons Dorm Line bed, chair, and desk. Dorm Line units accommodate themselves naturally to comfortable, yet correct, easy body postures—and that comfort stays with them year after year because Dorm Line construction is planned for permanence.

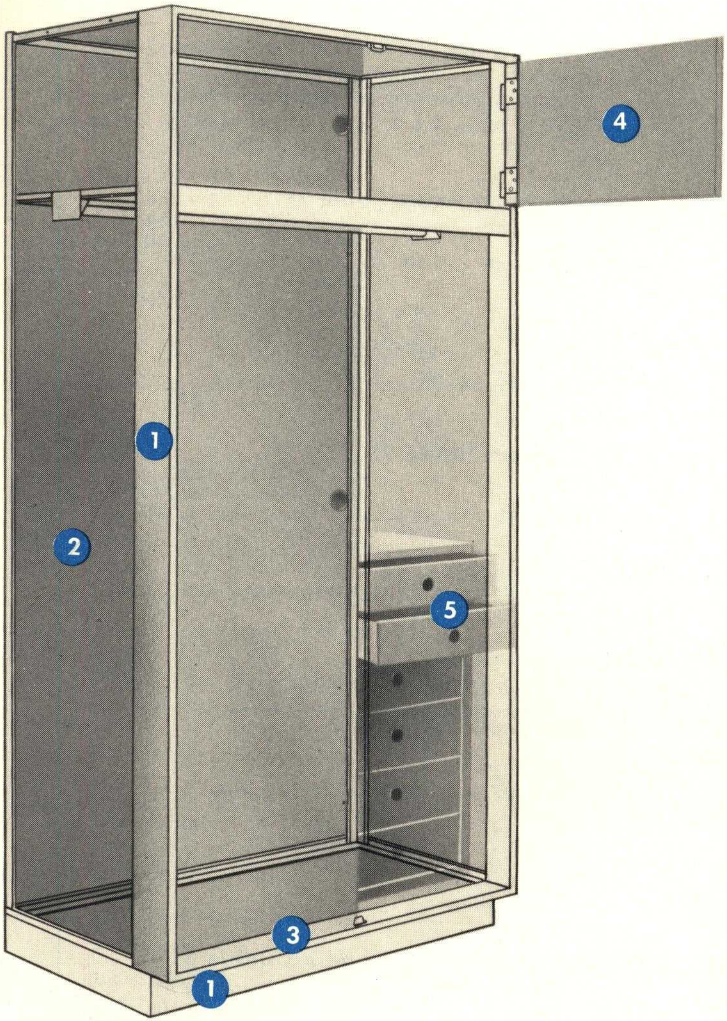
durable lasting colors and finishes

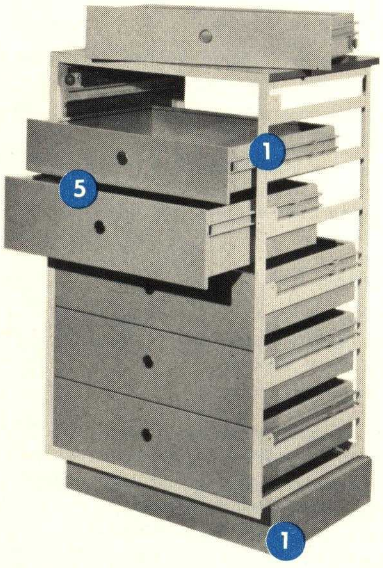
Simmons offers the most comprehensive selection of colors and finishes ever available on dormitory furniture and equipment. The Simmons Dorm Line offers color and individuality without extra expense.

additional units

Dorm Line furniture is by no means limited to the built-in pieces shown here. A complete line of free-standing furniture is available in styles designed to match the built-in units. Simmons is also equipped to design and produce custom dormitory furniture on special order. You are invited to ask about this Simmons service whenever you have a need that cannot be met with standard Dorm Line units.

DORM LINE
by SIMMONS





1. welded steel frames, drawers, and bases

Skyscraper construction gives Simmons Dorm Line wardrobes and chests sturdy strength without ugly bulk. Steel framed wardrobes provide more usable space in less area than conventional wood framed built-in construction. After years of use they are as firm and rigid as on the day they're installed. Steel bases anchor firmly to the floor to support whatever weight may be imposed upon them in even the most rigorous dormitory use.

2. Novoply sides, doors and backs

Sides, doors and backs are of Novoply, proved by test and use the most stable material for this type of construction. It is practically free from warp and retains its size and shape in all climates. Sides and doors of Dorm Line wardrobes and sides of chests are available in Birch-faced Novoply sealed and lacquered, paint grade Novoply in any standard Simmons color and plain Novoply sealed and lacquered. Sides and backs also available of masonite.

smoothly operating hardware

3. easy-sliding doors

Stay that way because the extruded aluminum Stanley track assembly is secured to the steel framework and hanger brackets screw into the back facing of doors (not in top edging). Doors withstand 3000-lb. strength tests. Suspension hardware is fully adjustable. Track assembly has nylon rollers for everlasting easy operation. Triple guides at bottom of doors are securely anchored to wardrobe floor.

4. hinged doors

With flush ring-type hardware give easy access to the shelf of wardrobe units. Storage of suitcases and other bulky pieces will be easy. Magnetic catches hold the doors firmly closed, yet permit them to be opened quickly and without effort.

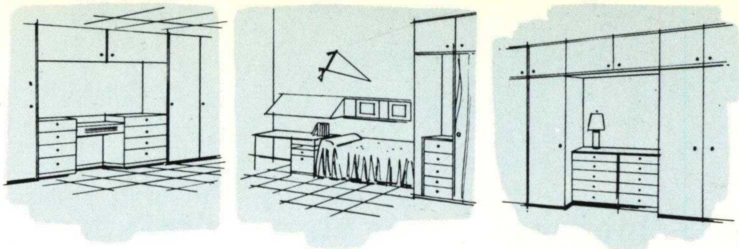
5. drawers

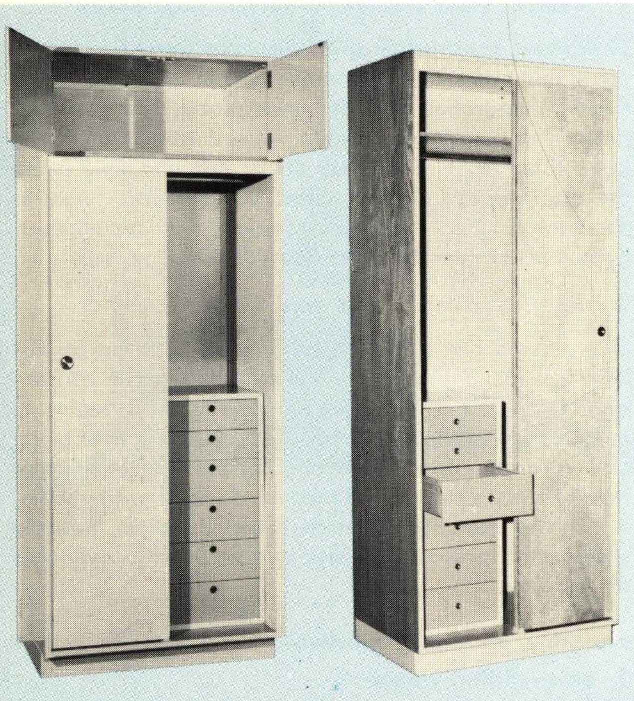
Are built to the highest Simmons standards. Nylon rollers covered with Buna rubber rings and rubber stops assure quiet, smooth operation. Drawers cannot be pulled out of chest accidentally. They never warp or sag. They're impervious to changes in temperature and humidity, and are easily kept clean. Grommet pulls replace the usual projecting and easily broken pulls.

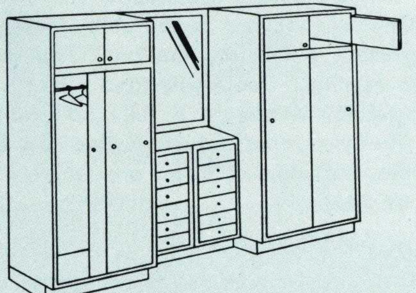
index

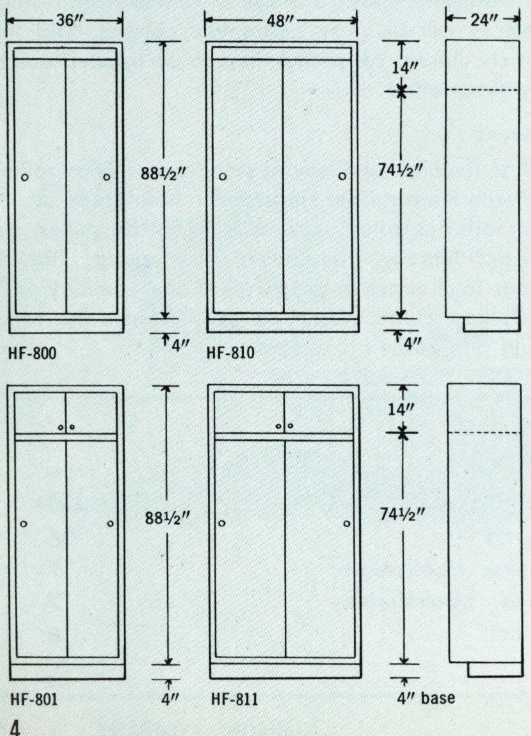
pages
wardrobes 4-5
chests 6
desks, bookcases 7
beds, bookshelves 7
colors 8

Unlimited room arrangements with **DORM LINE** *built-ins . . .*









WARDROBES

Basic Unit includes steel framework; 4″ steel toe base; top; ¾″ fir plywood shelf and bottom (sealed and lacquered) clothes hanger. Doors (with hardware), sides and back furnished as required in materials and finishes listed in Tables 2 & 3, below. Chests optional. See page 6.

basic pattern numbers (table 1)

basic pattern no.	depth	width	height with 4″ base	doors with hardware	
				sliding	upper, hinged
HF-800	24″	36″	92½″	2	—
HF-801	24″	36″	92½″	2	2
HF-810	24″	48″	92½″	2	—
HF-811	24″	48″	92½″	2	2

suffix numbers (table 2)

material	1st digit	2nd digit	3rd digit	4th digit	vertical door edges
	door	rt. side	left side	back	
Novoply, sealed & lacquered	–1000	–0100	–0010	–0001	pine
Novoply, painted*	–2000	–0200	–0020	–0002	
birch face Novoply, sealed & lacquered	–3000	–0300	–0030	–0003	basswood
Masonite, painted		–0400	–0040	–0004	
no material	–0000†	——	——	–0000	

*Novoply, when painted, will be of a grade to accept application of paint.
†Track not furnished without doors.

EXAMPLE:
HF-811-2244—48″ wide, 24″ deep, 92½″ wardrobe

doors painted Novoply	right side painted Novoply	left side and back painted Masonite

4″ steel toe base included

exterior color scheme numbers (table 3)

colors	1st 2 digits	2nd 2 digits	3rd 2 digits	4th 2 digits
use digits from standard color system, page 8 listing as follows:	framework	side & back panels if painted	doors, if painted	base

interior colors

When doors, side panels are ordered finished plain Novoply or birch face Novoply, finish is sealed and lacquered.

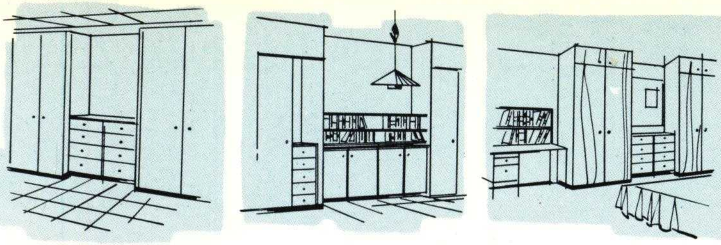
Interior color will be the same as color selected for exposed side panels, if side panels are painted.

If exposed side panels are plain Novoply or birch face Novoply, interior of exposed panels will be finished, sealed and lacquered. Remainder of interior will be the same color as frame and base.

to specify or order, list:

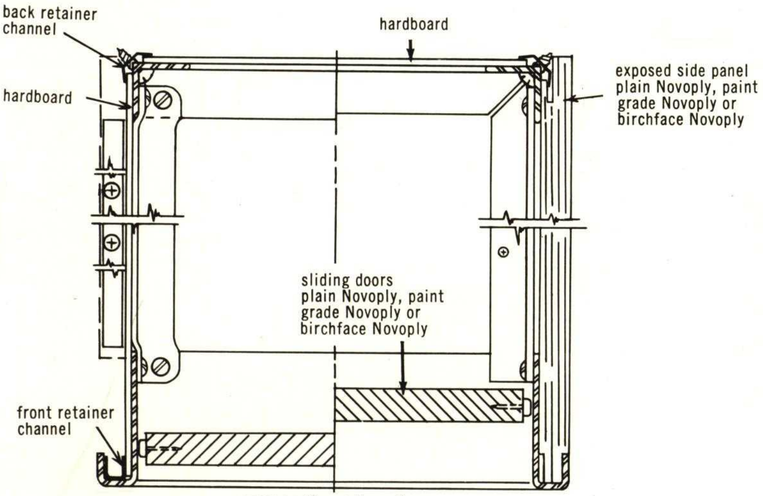
1. Basic pattern number (from table 1)
2. Suffix number, to indicate sides and back materials. 4 digits required. (from table 2)
3. Exterior color scheme (from table 3)

EXAMPLE: HF-800-1144 wardrobe Scheme 25
36″ wide, 92½″ wardrobe, 2 sliding doors, clothes pole
Framework—steel—aqua
Side Panel, right—Novoply, sealed and lacquered
Doors—Novoply sealed and lacquered
Back—Masonite—aqua



DORM LINE
by SIMMONS

construction details • wardrobes


back retainer channel
hardboard
hardboard
exposed side panel plain Novoply, paint grade Novoply or birchface Novoply
sliding doors plain Novoply, paint grade Novoply or birchface Novoply
front retainer channel

cross-section • top view

architectural specifications

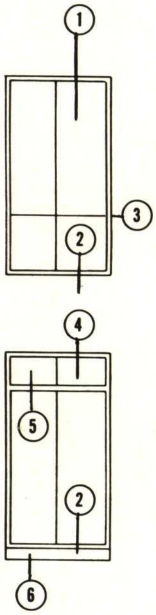
scope: Built-in wardrobe and chest units shown on plans shall be Simmons Dorm Line units as manufactured by Simmons Company, Contract Division, Chicago, Illinois, and as detailed in the Architectural File (Sweet's) 1960.

wardrobes: (specify two or four door model, width, finish, exposed sides). Shipped KD prefinished and ready for assembly.

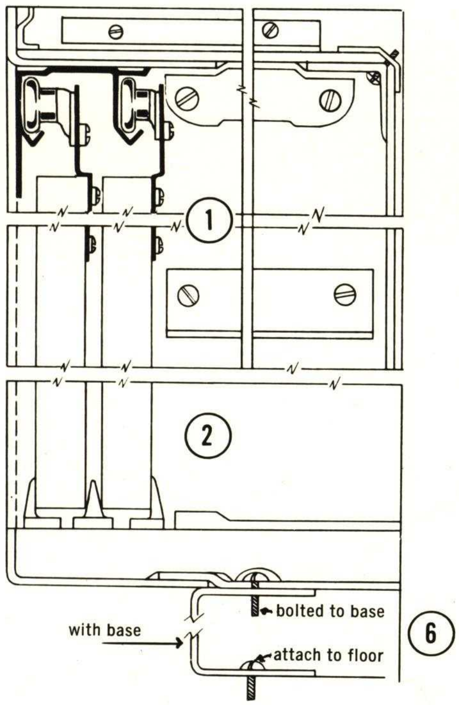
chests: (specify width, finish, location inside or outside wardrobe).

bases: (specify size, finish).

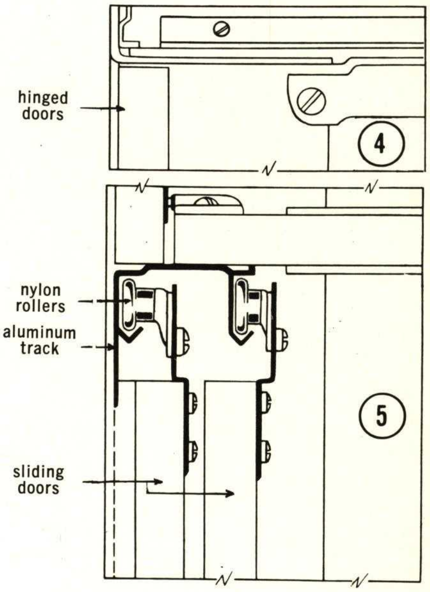
quarter size



cross-section • side view • two door

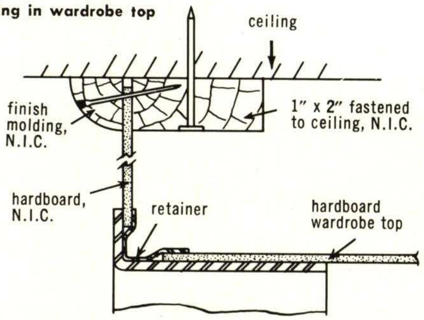

1
2
6
with base
bolted to base
attach to floor

cross-section • side view • four door

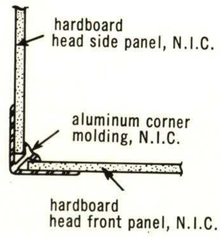

hinged doors
4
nylon rollers
aluminum track
5
sliding doors

installation details • quarter size

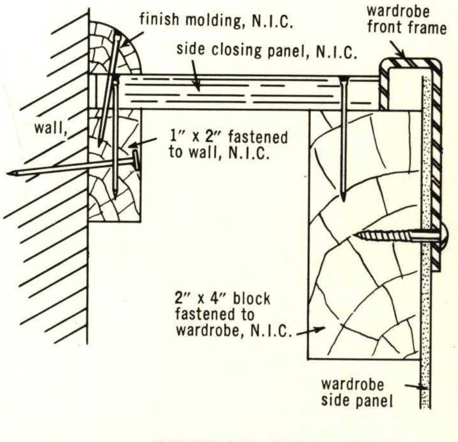
furring in wardrobe top


ceiling
finish molding, N.I.C.
1" x 2" fastened to ceiling, N.I.C.
hardboard, N.I.C.
retainer
hardboard wardrobe top

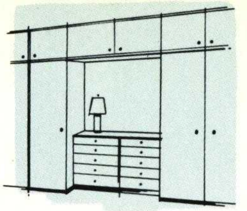
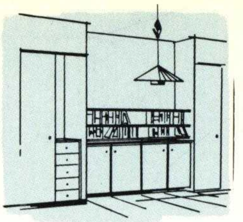
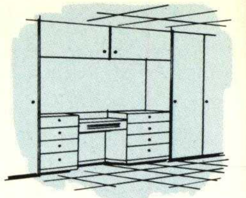
furring in top corner


hardboard head side panel, N.I.C.
aluminum corner molding, N.I.C.
hardboard head front panel, N.I.C.

furring in wardrobe side

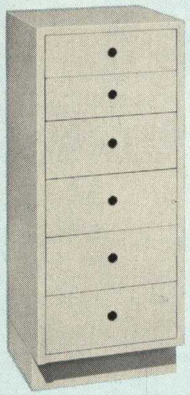

finish molding, N.I.C.
wardrobe front frame
side closing panel, N.I.C.
wall
1" x 2" fastened to wall, N.I.C.
2" x 4" block fastened to wardrobe, N.I.C.
wardrobe side panel

Unlimited room arrangements with **DORM LINE** *built-ins . . .*

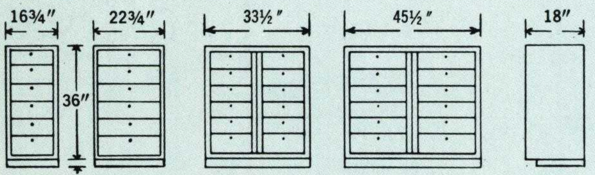
HF-830

Basic Built-in Chest Unit includes steel frame with choice of Fiberesin top; six steel drawers with grommet pulls. Drawers operate smoothly on nylon rollers. Automatic stops prevent drawers from being pulled out accidentally. Sides and back furnished as required in materials and finishes listed in Table 6 at right. May be used inside or ouside wardrobes. For use outside wardrobes, 4" toe bases are required.

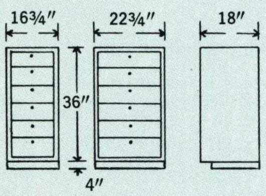

F-153-37

F-153-37 and F-153-38 Chests may be used as alternates inside or outside built-in wardrobes. Steel top, sides and back. Textolite in choice of colors and patterns available for extra protection on tops. Steel drawers with grommet pulls operate on nylon rollers. Automatic stops prevent drawers from being pulled out accidentally.

chests



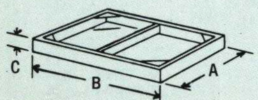
H-830 HF-831 HF-834 HF-835



F-153-37 F-153-38

steel bases for chests

Finished in selected standard Simmons color.



for use with	A	B	C
chests 16¾" wide	15"	16¾"	4"
22¾" wide	15"	22¾"	4"

CHESTS

basic pattern nos. (table 4)

basic pattern no.	depth	width	height without 4" base	no. steel drawers	grommet pulls	welded steel frame	top material
‡HF-830	18"	16¾"	36"	6	yes	yes	Fiberesin
•HF-831	18"	22¾"	36"	6	yes	yes	Fiberesin
*HF-834	18"	33½"	36"	12	yes	yes	Fiberesin
†HF-835	18"	45½"	36"	12	yes	yes	Fiberesin
‡F-153-37	18"	16¾"	36"	6	yes	yes	steel or Texolite
•F-153-38	18"	22¾"	36"	6	yes	yes	steel or Texolite

‡Use with 36" wide wardrobes, or may be freestanding with base.
•Use with 48" wide wardrobes, or may be freestanding with base.
*Two HF-830 with common top and base if any.
†Two HF-831 with common top and base if any.

suffix nos. for HF-830 to 835 chests (table 5)

material	1st digit	2nd digit	3rd digit	4th digit
	right side facing	left side facing	back	base
Novoply, sealed & lacquered....	–1000	–0100	–0010	——
Novoply, painted....................	–2000	–0200	–0020	——
birch face Novoply, sealed & lacquered.............	–3000	–0300	–0030	——
Masonite, painted	–4000	–0400	–0040	——
no material	–0000	–0000	–0000	
steel	——	——	——	–0001

suffix nos. F-153-37 & 38 chests (table 6)

component part*	1st digit	2nd digit	3rd digit
steel top	–000	——	——
Texolite top	–100	——	——
with 4" steel toe base..................	——	–010	——
without toe base	——	–000	——
grommet pulls	——	——	–005

*Sides and back are steel.

color scheme nos. for HF-830 to 835 chests (table 7)

colors†	1st 2 digits	2nd 2 digits	3rd 2 digits	4th 2 digits
Use digits from standard color system, page 8...........	frame & sides	top	drawers	base

†Sides or backs ordered painted Novoply will be same color as drawers.

color scheme nos. for F-153-37 & 38 chests (table 8)

colors†	1st 2 digits	2nd 2 digits	3rd 2 digits
Use digits from standard color system, page 8..	case	drawer	top

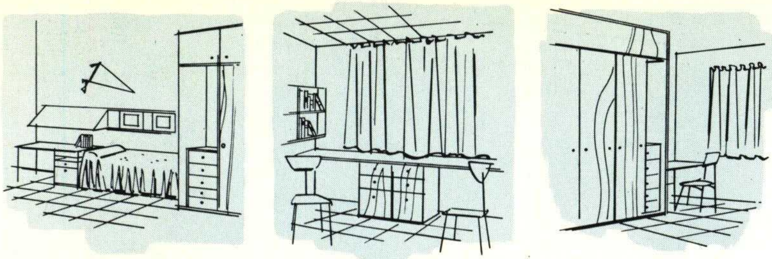
†Bases, when ordered, will be finished same color as cases.

to specify or order, list:

1. Basic pattern number (from table 4)
2. Suffix number—3 digits required (from table 5 or 6)
3. Color scheme numbers (from table 7 or 8)

EXAMPLE: HF-830-1140 Scheme 25 FA 33 25 is
16¾" wide, 6 drawer chest, with grommet pulls;
Sides—Novoply, sealed and lacquered;
Back—Masonite, aqua; Frame—aqua;
Top—Sliced birch Feberesin; Drawers—White; No base

EXAMPLE: F-153-38-115 Scheme 25 33 AW is
22¾" wide chest; Top—Texolite—White;
4" Aqua steel toe base; Grommet pulls
Case—Aqua; 6 White drawers



DORM LINE
by SIMMONS

DESKS AND RELATED UNITS

basic pattern nos. (table 9)

basic pattern no.	width	depth	height	description
desks				
†F-344	24″	42″	varies	wall hung, steel frame, perforated sides, Fiberesin top.
†F-218	14″	24″	28″	built-in desk pedestals. F-218 is F-216 with 4″ steel toe base.
†F-219	14″	30″	28″	F-219 is F-217 with 4″ steel toe base.
bookcases				
F-210	24″	10″	24″	steel frame, steel shelf
F-211	30″	10″	24″	steel frame, steel shelf
F-214	24″	10″	24″	steel frame, Fiberesin shelf
F-215	30″	10″	24″	steel frame, Fiberesin shelf
file drawer units‡				
F-216	14″	24″	24″	steel cabinet, 2 small & 1 file drawer, grommet pulls
F-217	14″	30″	24″	
suspended drawers				
FD-91	12¾″	16¾″	2½″	steel, perforated sides and bottoms
FD-94	16¾″	16¾″	2½″	steel, perforated sides and bottoms

†Available only as described. No accessory substitutions or additions.
‡File drawer takes Pendaflex folders 4152-1/5.

to specify or order, list:

1. Basic pattern number (table 9).
2. Color scheme code, page 8 (case color, then Fiberesin).

EXAMPLE: 1: F-344 wall hung desk, scheme 23

EXAMPLE 2: F-216 file drawer unit, scheme 27

LAMP FOR BOOKSHELF (table 10)

basic pattern no.	overall length	mount below shelf of
HS-43	30″	36″ (F-222, F-227) and 42″ (F-223, F-228) bookshelves cannot be used with letter bin and suspended drawer. 48″ (F-224 and F-229) bookshelves can be used with letter bin and suspended drawer.

to specify or order, list:

1. Basic pattern number (table 10). Lamp has turn switch.

BEDS (table 11)

basic pattern no.	depth	width	height without mattress	height with mattress	mattress size	construction
H-380	75″	33½″	10″	17″	3/0 x 6/3	No-Sag sheet metal
H-380-80	80″	33½″	10″	17″	3/0 x 6/8	No-Sag sheet metal

to specify or order, list:

Basic Pattern no., and color (from standard system, page 8)

BOOKSHELVES AND ACCESSORIES

basic pattern nos. (table 12)

basic pattern no.	width	depth	height	sides & back	shelf
F-222	36″	10″	8¾″	steel	steel
F-223	42″	10″	8¾″	steel	steel
F-224	48″	10″	8¾″	steel	steel
F-227	36″	10″	8¾″	steel	Fiberesin
F-228	42″	10″	8¾″	steel	Fiberesin
F-229	48″	10″	8¾″	steel	Fiberesin

suffix nos. (table 13)

	1st digit perforated metal letter bin F-41	2nd digit perforated metal drawer F-42	3rd digit angle supports to attach shelf to desk F-97
left hand facing	–100	–010	
right hand facing	–200	–020	
left and right hand facing (2 required)	–300	–030	
2 required	——	——	–001

to specify or order, list:

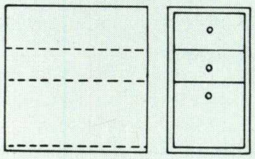
1. Basic pattern number. (from table 12 and/or 13).
2. Suffix numbers if required.
3. Color scheme for bookshelf give case color number first, followed by Fiberesin color if applicable. Steel shelf always same color as sides and back.
4. If bookshelf is ordered with letter bin and/or suspended drawer, itemize order.

EXAMPLE 1: F-227-100, scheme 35FA (36″ wide bookshelf with letter bin left hand facing bookshelf warm grey sides and back, sliced birch F.beresin shelf)

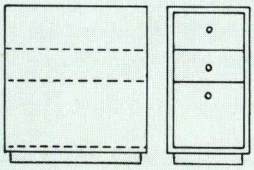
EXAMPLE 2: 1 F-229-110 bookshelf consisting of:
1 F-229 bookshelf, scheme 35 FA (sliced birch)
1 F-41 letter bin, scheme 35
1 F-42 drawer, scheme 35

details — scale: ⅜″ = 1′0″

file drawer units

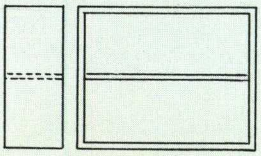


F-216



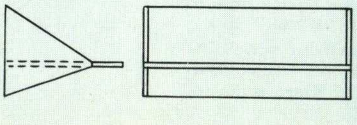
F-218

book cases



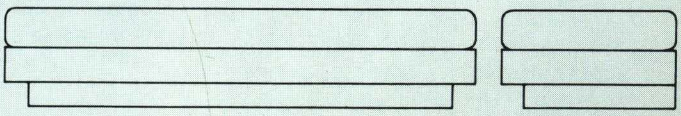
F-212

wall hung desks



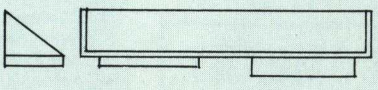
F-344

bed

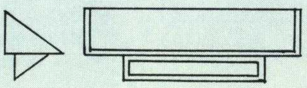


H-380

book shelves

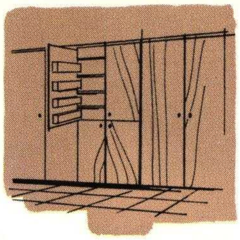


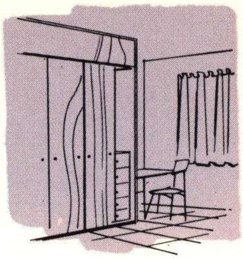
F-224-3110, with letter bin and drawer

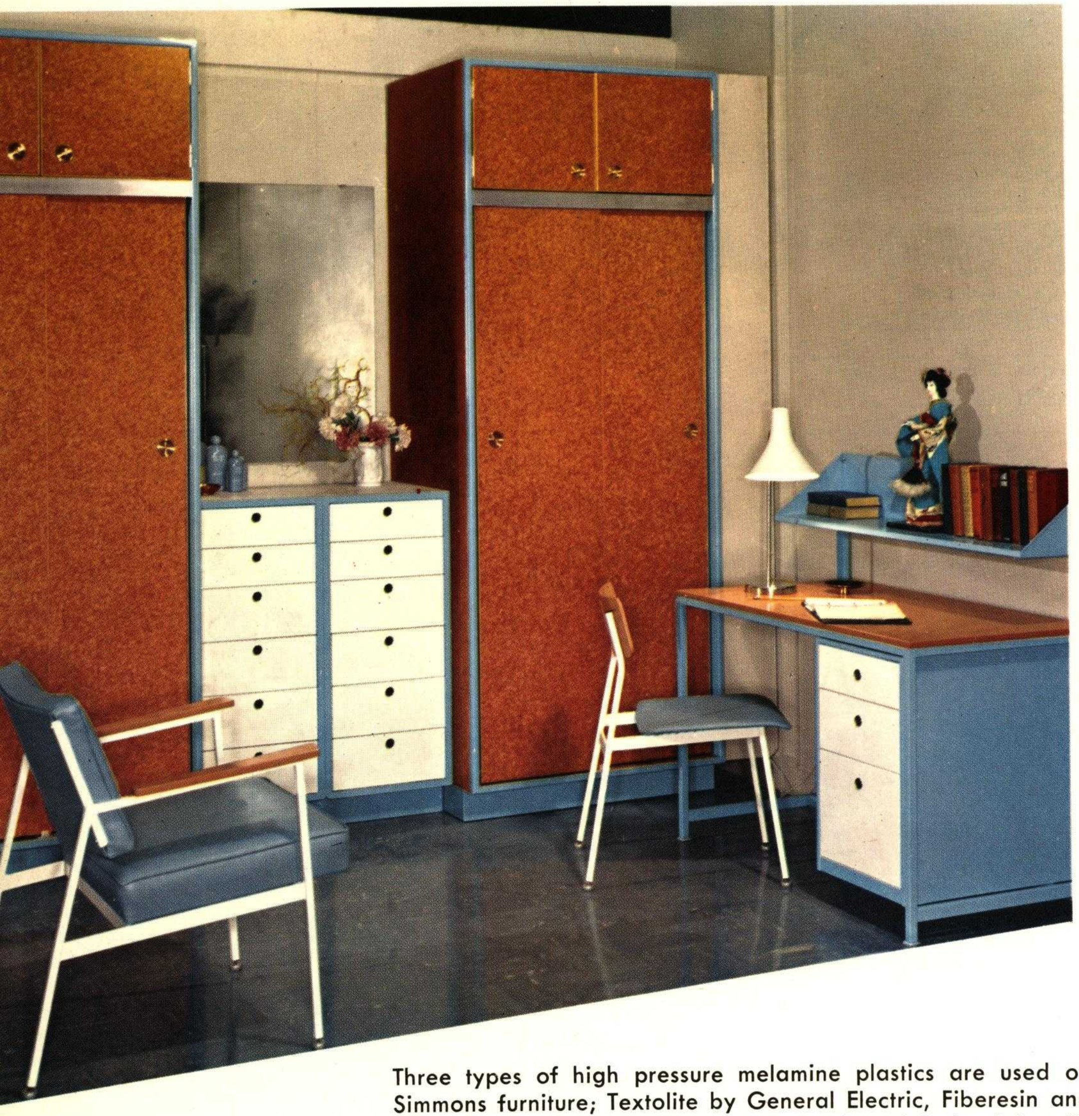


F-222-3, with F-43 fluorescent light

DORM LINE
by SIMMONS







Simmons Colors

23	Heather Green
24	Mist Green
25	Aqua
28	Peach Tan
29	Dawn Pink
33	White
35	Warm Grey
36	Natural
38	Charcoal
41	Colonial Red
42	Dutch Tile Blue
45	Pale Citron
46	Butterscotch
48	Aluminum
49	Moonstone Blue

Simmons Plastics

AM	Sable
AQ	Cherry
AR	Gra-Tan Provincial
AY	Sliced Birch
AZ	Teak
BA	Walnut
FH	Burma Teak
FJ	Oriental Walnut

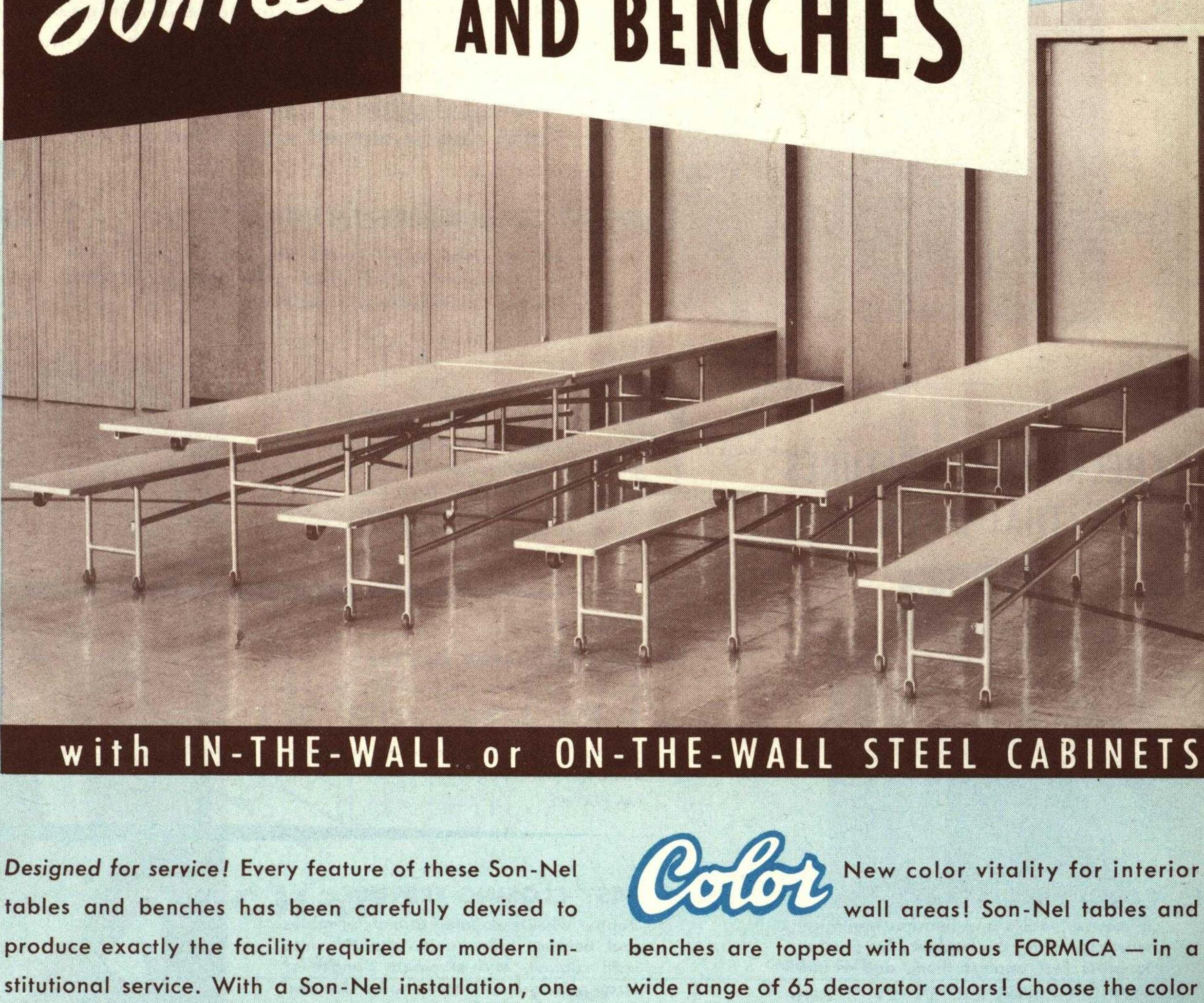
Write for catalog and price list covering the complete Simmons line of built-in, free-standing and upholstered furniture.

Three types of high pressure melamine plastics are used on Simmons furniture; Textolite by General Electric, Fiberesin and Park Panel. All meet N.E.M.A. Standards and Federal Specifications for high pressure decorative laminates. They will withstand abrasion, bumps, knocks and scratching which would ruin other materials. They will not warp or separate, cannot be ringed by glasses or burned by a forgotten cigarette. Simmons furniture may be ordered in any of the finishes listed above with plastic protection as required. Color samples of paints and plastics are available at the sales offices listed below.

SIMMONS COMPANY

display rooms
Chicago 54, Merchandise Mart
New York 16, One Park Avenue
San Francisco 11, 295 Bay Street
Atlanta 1, 353 Jones Avenue, N.W.
Dallas 9, 8600 Harry Hines Blvd.
Columbus 8, 1275 Kinnear Road
Los Angeles 22, 3217 S. Garfield Ave.

Son-Nel FOLDING TABLES AND BENCHES



with IN-THE-WALL or ON-THE-WALL STEEL CABINETS

Designed for service! Every feature of these Son-Nel tables and benches has been carefully devised to produce exactly the facility required for modern institutional service. With a Son-Nel installation, one man can easily convert a whole room into a study hall or cafeteria. Tables and benches are quickly unlocked, easily and safely lowered, securely positioned in place, or are easily detached and moved to any position in the room. When no longer needed, they are easily folded back into precision-made steel wall cabinets; once locked they remain so, with Son-Nel's vandal proof safety locks. Every movement is easier, quicker, safer! Only Son-Nel offers these exclusive features outlined in this folder.

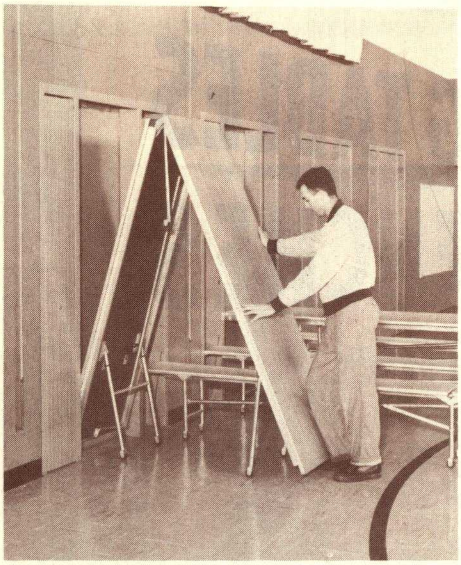
Color New color vitality for interior wall areas! Son-Nel tables and benches are topped with famous FORMICA — in a wide range of 65 decorator colors! Choose the color and finish that best suits your requirements.

SON-NEL *Guarantee*

Son-Nel is proud of its special design features (as detailed inside this folder), developed with skilled workmanship. For this reason, every Son-Nel Folding Table and Bench carries a **full 10-year** guarantee against any defects in material or workmanship.

"The Easiest of all to Use"

Son-Nel FOLDING TABLES AND BENCHES



designed for service in every detail!

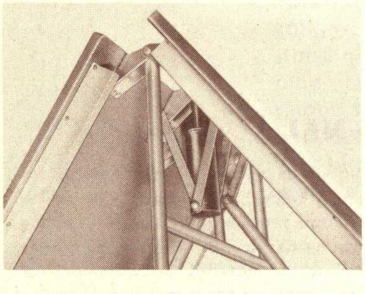
Each table and bench unit will comfortably accommodate 20 children or 18 adults; they are easily detached from wall cabinets for movement anywhere in the room. Son-Nel wall cabinets are sturdily constructed of 16-gauge steel—and may be mounted recessed *in-the-wall* or flush *on-the-wall*. Either way, the colorful table and bench tops fold to become an integral part of the wall surface for stimulating color appeal. Tables may be ordered without benches if so desired.

◀ Son-Nel units unfold quietly and smoothly, and when in place provide sturdy, dependable seating and table facilities for virtually any application.

CHECK THESE FEATURES THAT MAKE Son-Nel THE FIRST CHOICE EVERYWHERE

✓ "FOOT FREE" STRUTS

Braces for tables and benches angle upward, removing the tendency for persons to press feet against them, and at the same time providing greater leg room.

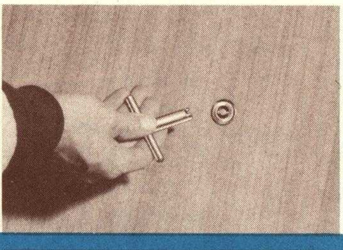


✓ AUTOMATIC SLOW-OPENING ACTION—*An Optional Feature*

Hydraulic valve action! A specially designed Son-Nel hydraulic piston controls rate of opening to gently unfold units for safe handling. Unlock the unit, let it go, and it lowers gently to the floor automatically, freeing service personnel for other duties.

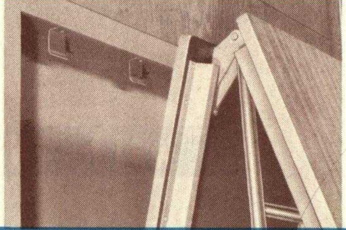
✓ VANDAL PROOF LOCK

Special female key and Vandal Proof lock prevent unauthorized tampering. Lock cannot be "picked." Units may be released from securely closed position only by use of special Son-Nel key.



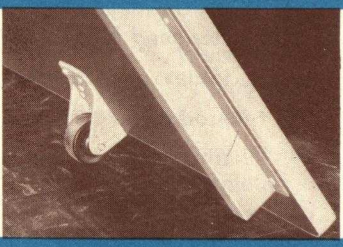
✓ TOP LOCKING DEVICE

Folded units are automatically gripped by Son-Nel's top locking device. These safety "fingers" eliminate the hazard of the top tilting outward when unfolding; no adjustment required.



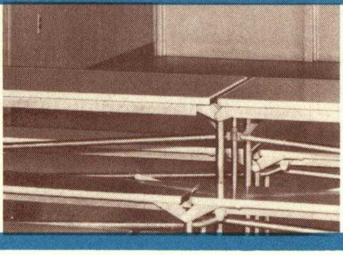
✓ EASY CLOSING FEATURE

Rubber wheels mounted at ends of tables and benches guide units smoothly into wall cabinet, and eliminate danger of scraping edges on floor. Another Son-Nel "designed for service" feature!



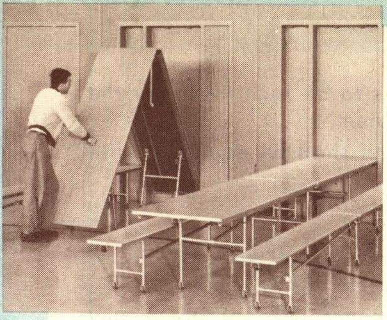
✓ FINGER GRIP SAFETY SPACE

No pinched fingers! A full ¾-inch is allowed between table and bench top sections to positively eliminate the danger of pinched fingers.

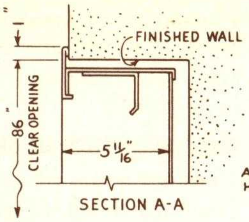


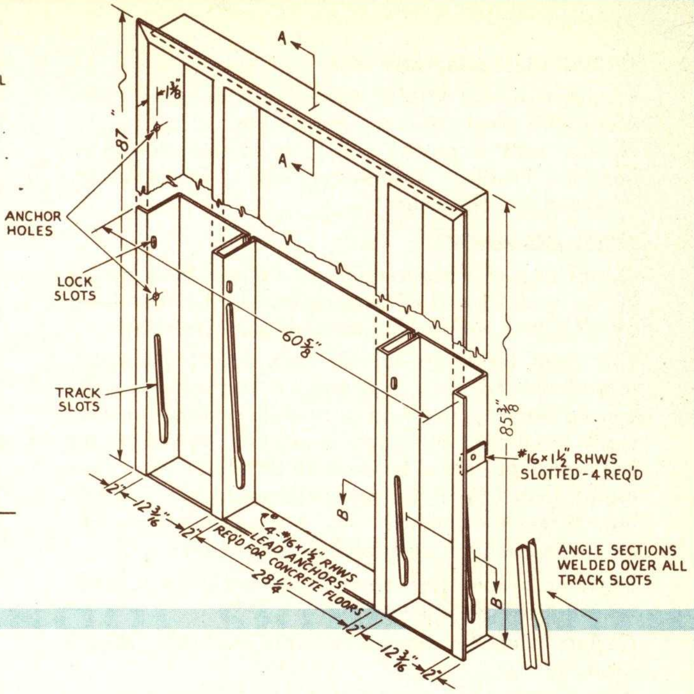
✓ 100% INTERCHANGEABLE

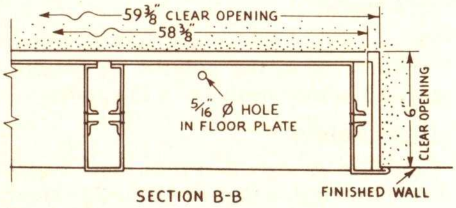
On any given job, Son-Nel bench and table units fit smoothly into **any** of the cabinets: they do not have to go back into the cabinet from which they came! This eliminates "key numbers" and saves time and effort when clearing room area—another Son-Nel service-ease feature.

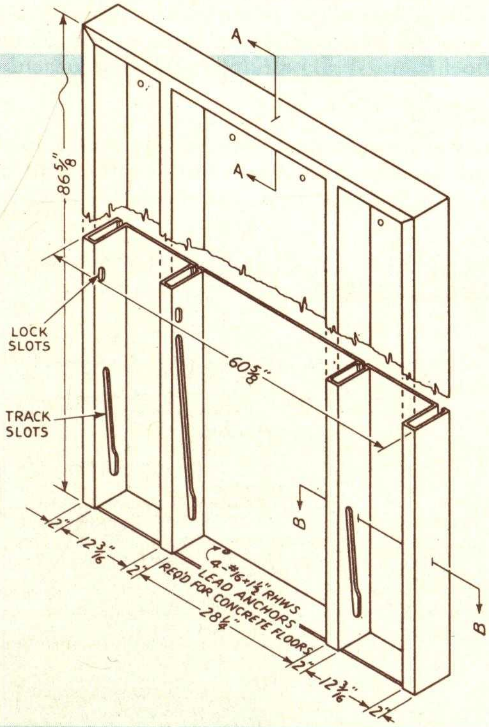


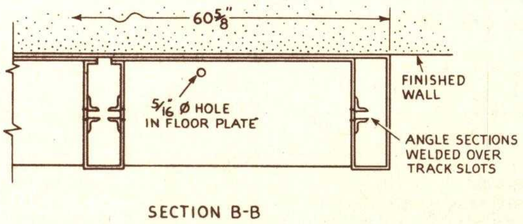
IN-THE-WALL

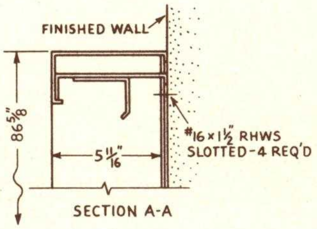

1"
FINISHED WALL
86" CLEAR OPENING
5 11/16"
SECTION A-A


A
A
87"
1⅜
ANCHOR HOLES
LOCK SLOTS
TRACK SLOTS
60⅝"
85⅞"
#16 × 1½" RHWS SLOTTED-4 REQ'D
B
B
2"
12 3/16"
2"
4-#16 × 1½" RHWS LEAD ANCHORS REQ'D FOR CONCRETE FLOORS
28¼"
2"
12 3/16"
2"
ANGLE SECTIONS WELDED OVER ALL TRACK SLOTS

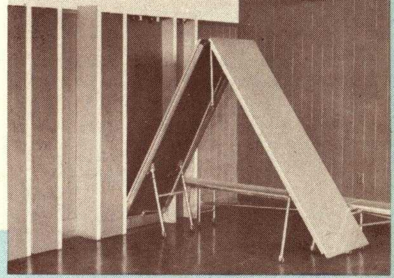

59⅜" CLEAR OPENING
58⅜"
5/16" Ø HOLE IN FLOOR PLATE
6" CLEAR OPENING
SECTION B-B
FINISHED WALL


A
A
86⅝"
LOCK SLOTS
TRACK SLOTS
60⅝"
B
B
2"
12 3/16"
2"
4-#16 × 1½" RHWS LEAD ANCHORS REQ'D FOR CONCRETE FLOORS
28¼"
2"
12 3/16"
2"


60⅝"
FINISHED WALL
5/16" Ø HOLE IN FLOOR PLATE
ANGLE SECTIONS WELDED OVER TRACK SLOTS
SECTION B-B


FINISHED WALL
86⅝"
5 11/16"
#16 × 1½ RHWS SLOTTED-4 REQ'D
SECTION A-A

ON-THE-WALL



SELECTION CHART

MODEL NO.		TYPE	CABINET SIZE					
			Height		Width		Depth	
			Clear Opening	Outside Incl. Flange	Clear Opening	Outside Incl. Flange	Clear Opening	Cabinet Depth
FTB-3	In-the-Wall	1 table, 2 benches, cabinet	86"	87"	59⅜"	60⅝"	6"	5 11/16"
FTB-6	In-the-Wall	2 tables, 4 benches, cabinet	86"	87"	59⅜"	60⅝"	12"	11 9/16"
FTB-9	In-the-Wall	3 tables, 6 benches, cabinet	86"	87"	59⅜"	60⅝"	18"	17⅜"
FTB-12	In-the-Wall	4 tables, 8 benches, cabinet	86"	87"	59⅜"	60⅝"	24"	23 3/16"
FT-1	In-the-Wall	1 table, cabinet	86"	87"	31"	32¼"	6"	5 11/16"
FT-2	In-the-Wall	2 tables, cabinet	86"	87"	31"	32¼"	12"	11 9/16"
FT-3	In-the-Wall	3 tables, cabinet	86"	87"	31"	32¼"	18"	17⅜"
FT-4	In-the-Wall	4 tables, cabinet	86"	87"	31"	32¼"	24"	23 3/16"
STB-3	On-the-Wall	1 table, 2 benches, cabinet		86⅝"		60⅝"		5 11/16"
STB-6	On-the-Wall	2 tables, 4 benches, cabinet		86⅝"		60⅝"		11 9/16"
STB-9	On-the-Wall	3 tables, 6 benches, cabinet		86⅝"		60⅝"		17⅜"
STB-12	On-the-Wall	4 tables, 8 benches, cabinet		86⅝"		60⅝"		23 3/16"
ST-1	On-the-Wall	1 table, cabinet		86⅝"		32¼"		5 11/16"
ST-2	On-the-Wall	2 tables, cabinet		86⅝"		32¼"		11 9/16"
ST-3	On-the-Wall	3 tables, cabinet		86⅝"		32¼"		17⅜"
ST-4	On-the-Wall	4 tables, cabinet		86⅝"		32¼"		23 3/16"

Specifications

FOLDING TABLE AND BENCH SETS

Furnish two-leaf folding tables and benches, complete with steel cabinets, Model No.____________ (in-the-wall or on-the-wall), as manufactured by Son-Nel Products Company, 900 - 19th Avenue, Oakland 6, California.

TABLES AND BENCHES

Tables shall be approximately 14 feet long by 28 inches wide; benches approximately 14 feet long by 12 inches wide of the following construction:

Top shall be three-quarter inch (¾") plywood, laminated Formica pattern on top and plastic coated backing sheet on bottom. Each table section shall have two extruded aluminum hat channels full length of units. Top shall be banded with seven-eighth inch (⅞") flat anodized aluminum T molding. Three-quarter inch (¾") space minimum between top leaves on tables and benches.

Legs and braces shall be of one inch (1") o.d. tubular steel, bright zinc plated.

Casters shall be Bassick oil-less bushing rubber-tired.

Each table and bench shall be equipped with two manually operated locks. One for locking into cabinet, one for disconnecting units from wall cabinet. The design of these locks to be such that only the proper key will operate them.

Each table and bench unit shall be equipped with tail wheel.

TABLE AND BENCH HEIGHTS

Standard table heights: 24½", 27½", 30".

Standard bench heights: 15", 17½", 20".

(Any height table and bench will operate in any cabinet.)

ATTACHMENT

The extended tables and benches are instantly detachable from the cabinet to enable them to be placed in any position in the room.

STEEL CABINETS

Cabinets to house tables and benches shall be welded construction of 16 gauge steel, bonderized and with a baked-on prime coat. Cabinets shall have positive non-mechanical lock at top of unit. All attachments shall be furnished by manufacturer.

INSTALLATION

Contractor or purchaser will provide recess for in-the-wall models, and install both on-the-wall and in-the-wall cabinets, true and plumb.

SON-NEL DISTRIBUTORS

ALABAMA
MOBILE, Brabner Bldg. Spec., Inc.
P. O. Box 366, Crichton Station

ARIZONA
PHOENIX, Haskell-Thomas, Inc.
3808 N. Central Ave.

GALIFORNIA
OAKLAND, Son-Nel Products Co.
900-19th Ave.

CANADA
BRITISH COLUMBIA, BURNABY
Construction Products Co.
Div. of Royal Oak Holdings, Ltd.
5776 Beresford St.

CONNECTICUT
BLOOMFIELD, W. L. Walker Co.
P. O. Box 257, 21 Wintonbury Ave.

FLORIDA
TAMPA 4, T. E. Jacobson
P. O. Box 8006

GEORGIA
CHAMBLEE, John F. Revell
5628 Chamblee-Dunwoody Rd.

IDAHO
BOISE, Casco, Inc.
P. O. Box 335
POCATELLO, Gen. Typewriter Exch., Inc.
553 S. 8th Ave.

ILLINOIS
CHICAGO 46, School Equipment Co.
6124 N. Milwaukee Ave.
ROCK ISLAND, A. M. Blood Co.
305 Twentieth St.

INDIANA
FORT WAYNE, Wholesale Bldrs. Supply Co.
3010 S. Calhoun St.
GREENFIELD, D. H. Goble Printing Co.
15 South East St.
RICHMOND, Runnels Bldrs. Products
306 Randolph St.

KANSAS
PITTSBURG, Bowlus School Supply Co.
1015 N. Broadway
SALINA, Hubert Ellison Co.
P. O. Box 478

LOUISIANA
NEW ORLEANS, Louisiana School Supply Co.
833 Howard Ave.
SHREVEPORT, Ideal Bldg. Mtls., Inc.
1730 Claiborne Ave., P. O. Box 1545

MASSACHUSETTS
BOSTON 15, Construction Spec. Co.
126 Massachusetts Ave.

MICHIGAN
DETROIT, Howard & Smith
404 W. Eight Mile Rd.
GRAND RAPIDS 6, G. W. Clements Co.
816 Cherry St., S. E.

MISSISSIPPI
JACKSON, Clark Bldg. Material Co.
316 First Fed. Bldg. & Loan Annex
P. O. Box 1301

MONTANA
BUTTE, Archibald Co.
P. O. Box 755

NEVADA
RENO, Morrill & Machabee
130 S. Center St.

NEW HAMPSHIRE
KEENE, Robert A. Bennett
Hurricane Road

NEW JERSEY
PENNSAUKEN, Roberts Bros., Inc.
5115 Rt. 38

NEW MEXICO
ALBUQUERQUE, George Mayhew
705 Morningside Dr., N. E.
P. O. Box 8301

NEW YORK
BUFFALO 3, A. O. Stilwell Sch. Equip. Co.
991 Main St.
RENSSELAER, Kelly Associates
312 Broadway
SYRACUSE 6, A. P. Madden
P. O. Box Eastwood Station

NORTH CAROLINA
ASHEVILLE, Collins Wyatt
P. O. Box 8244

OHIO
BOWLING GREEN, Bowling Green Equip. Co.
1026 N. Main St.
CINCINNATI 2, Backus Brothers Co.
212 E. Third St.
YOUNGSTOWN 9, Briggs-Jones, Inc.
2616 Mahoning Ave.

OKLAHOMA
OKLAHOMA CITY, Remco, Inc.
1205 N. Pennsylvania Ave.

OREGON
PORTLAND 17, Steward Griffith Co.
P. O. Box 5690, Kenton Station

SOUTH DAKOTA
RAPID CITY, Espe Printing
31 East Omaha St.

TENNESSEE
KNOXVILLE, Construction Services Co.
P. O. Box 3333
NASHVILLE, Mannings Materials Co.
P. O. Box 6153

TEXAS
AMARILLO, Amarillo Arch. Prods. Inc.
1212 E. Ninth St.
CORPUS CHRISTI, W. G. Gower Co.
223 N. Port Ave., P. O. Box 2095
DALLAS, Roy L. Jacobs Co.
2518 Cedar Springs
EL PASO, Architectural Prods. Co., Inc.
506 E. Yandell Blvd., P. O. Box 7307
HOUSTON, Roy L. Jacobs Co.
3805 Main St.

UTAH
SALT LAKE CITY, Crestwood Co.
211 S. 2nd West

VIRGINIA
RICHMOND 3, J. K. Messersmith Co.
13 S. 2nd St.

WASHINGTON
SEATTLE 9, Hal Fogman & Assoc.
P. O. Box 9084, Queen Anne Station
SPOKANE, Clyde Stricker, Inc.
1017 W. Railroad Ave.

WEST VIRGINIA
CHARLESTON, Crichton Engineering Co.
P. O. Box 1946

WISCONSIN
COLEMAN, Coleman School Supply Co.
1313 Main St.
MILWAUKEE 4, J. F. Cook Co.
2320 W. Greenfield Ave.

Son-Nel

SON-NEL PRODUCTS COMPANY

Manufacturers of Quality

CHALK BOARDS • BULLETIN BOARDS • STAGE AND DARKENING DRAPES • DRAPERY TRACK • CUBICLE CURTAINS AND TRACK • IN-THE-WALL AND ON-THE-WALL TYPE FOLDING TABLES AND BENCHES

SINCE 1946

900 - 19TH AVENUE • OAKLAND 6, CALIFORNIA • TELEPHONE KEllog 3-6090

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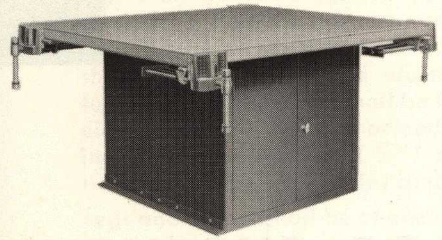
HALLOWELL | SCHOOL SHOP FURNITURE

STEEL WOODWORKING BENCHES

free standing

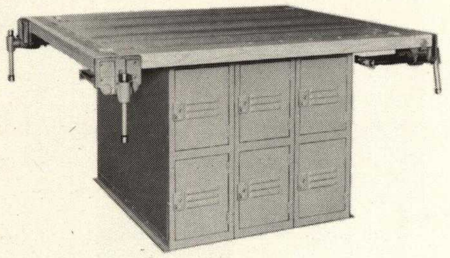
Every HALLOWELL woodworking bench is designed and fabricated to obtain longest possible service with least possible maintenance. The cabinet base types offer the utmost in versatile bench storage. The HALLOWELL steel bench legs, which are industry standards, embody a functional optimum for open bases models. Superb design, rugged construction, optional units and assorted accessories make every HALLOWELL bench a sound investment in utility and economy.

Benches shown on this page are free-standing type. Wall benches with cabinet or locker bases are also available. Write for Bulletin 2112 Rev.



CABINET BASE TYPE

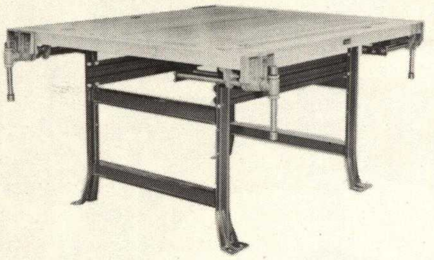
Model 1000-C, 4-position, shown



LOCKER BASE TYPE

Model 1000-L, 4-position, shown

NO. POSITIONS	MODEL NO. TOP MATERIAL	NO. BASE UNITS	BASE DIMENSIONS (inches)	TOP SIZE (inches)
4	1000-C-RWX "SHOP TOP"	2	36x42x31	64x60x2¼ 64x54x2¼
	1000-C-WWX LAMINATED WOOD	2	36x42x31	64x54x2¼
1 or 2	1005-C-RWX "SHOP TOP"	1	36x21x31	64x36x2¼ 64x30x2¼ 64x24x2¼
	1005-C-WWX LAMINATED WOOD	1	36x21x31	64x36x2¼ 64x30x2¼ 64x24x2¼
4	1000-L-RWX "SHOP TOP"	2 12	36x42x31 12x21x15	64x60x2¼ 64x54x2¼
	1000-L-WWX LAMINATED WOOD	2 12	36x42x31 12x21x15	64x54x2¼
1 or 2	1005-L-RWX "SHOP TOP"	1 6	36x21x31 12x21x15	64x36x2¼ 64x30x2¼ 64x24x2¼
	1005-L-RWX LAMINATED WOOD	1 6	36x21x31 12x21x15	64x36x2¼ 64x30x2¼ 64x24x2¼

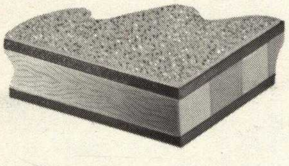


OPEN BASE TYPE

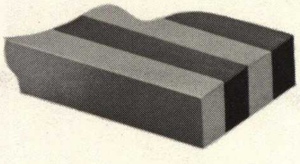
Model 1010, 4-position, shown

NO. POSITIONS	MODEL NO. TOP MATERIAL	LEG HEIGHTS (inches)	LEG DEPTH (inches)	TOP SIZE (inches)
4	1010-RWX "SHOP TOP"	29—31¼ 33½	40½	64x60x2¼ 64x54x2¼
	1010-WWX LAMINATED WOOD	29—31¼ 33½	40½	64x54x2¼
1 or 2	1015-RWX "SHOP TOP"	29—31¼ 33½	34½	64x36x2¼
			28½	64x30x2¼
			22½	64x24x2¼
	1015-WWX LAMINATED WOOD	29—31¼ 33½	34½	64x36x2¼
			28½	64x30x2¼
			22½	64x24x2¼

SPECIFICATIONS
top materials



"SHOP TOP"



LAMINATED WOOD TOP

"SHOP TOP"—This exclusive HALLOWELL top has a core of solid laminated block construction, and is faced both top and bottom with a ¼″ or ⅜″ thick layer of Resinwood, a composition of uniform wood particles and natural resins bonded under heat and pressure into a smooth, high density material. Its tough, durable surface is splinter-proof and resistant to acids, alkalis, oils and greases. Can be refinished like wood.

WOOD—HALLOWELL wood tops are edge laminated hardwood. Seasoned, kiln-dried, selected hardwood strips 1¾″ wide are electronically glued and reinforced. Tops 64″ x 54″ have either 5″ wide bolster or steel spline at each end.

SPECIFICATIONS (continued)

BASES

cabinet—All welded heavy gage steel with interlocked deep flange construction. Channel-reinforced doors have 2-point latching device with cylinder locking handles. Two keys supplied for each lock. Cabinets have one adjustable shelf which can be removed to store large items. *Additional shelves available.* Tops attach directly to cabinet, or steel angles are available for securing cabinet to top and floor. See table for dimensions and number of cabinets in base.

locker—Constructed of heavy gage steel with self-closing, spring-hinged doors containing pulls and padlock attachments. Provision is made for flat key locks, if desired. Tops attach directly to lockers, or angles are available for securing lockers to top and floor. See table for dimensions and number of lockers in base.

open—All-steel base consists of HALLOWELL all-welded bench legs with integral cross braces. Leg assemblies are secured rigidly by ribbed steel stringers. Legs are available in four widths and three heights. See table for dimensions.

FINISH

Tops are coated with clear, durable finish on work surface and edges. Undersides are coated with moisture-resistant sealer.

Bases are phosphate coated, then finished with tough, long wearing SPS green baked-on enamel. Other colors available at additional cost.

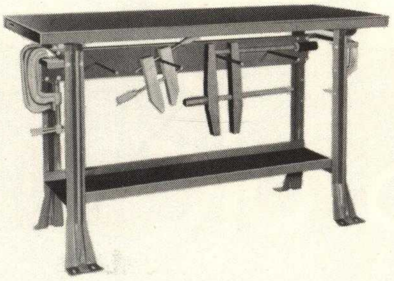
ACCESSORIES

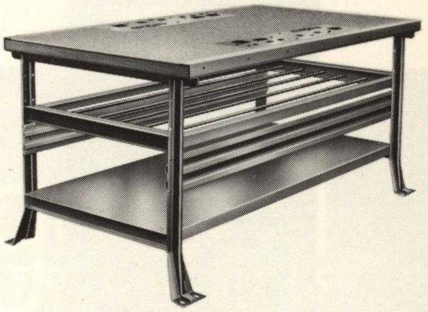
A variety of bench dogs, adjustable bench stops, locks, number plates and other accessories are optional at additional cost. Master keys for all drawer, cabinet, locker and door locks are available. Benches can be ordered with or without vises, as desired. See Bulletin 2112 Rev. for complete details.

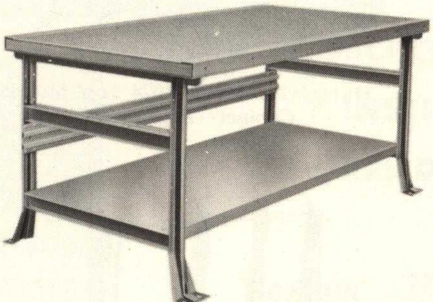
GENERAL INFORMATION

All lockers are assembled and shipped in 6-locker units. Cabinets are shipped assembled and ready for installation. Open benches are shipped knocked down. All tops and accessories are packaged separately. Because hole requirements for dogs and stops vary, request Form 102 to indicate number and location of stops, dogs and holes wanted.

OTHER HALLOWELL SHOP BENCHES


Model 1018 Glue Bench


Model 1021 Stake Bench


Model 1030 Machine Bench

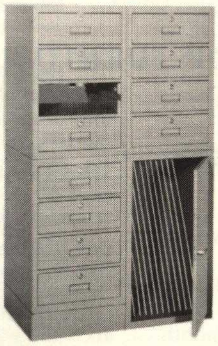
Model 1110 Welding Bench

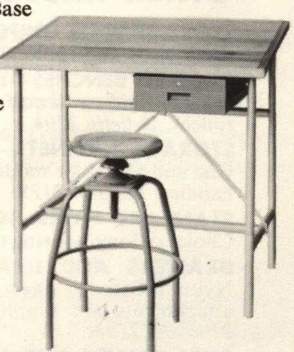
School shops can be completely outfitted with HALLOWELL standard units at a fraction of the cost of custom-designed equipment. The items shown on these pages have been specifically developed for industrial arts and vocational shops. They are identical in material, construction and quality to HALLOWELL shop equipment that has been standard throughout industry for many years.

The complete line of HALLOWELL school shop furniture is listed and described in Bulletin 2112 Rev., available on request.

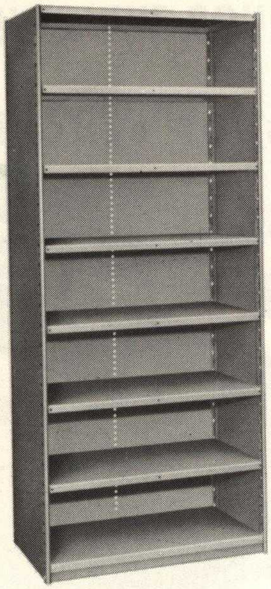
HALLOWELL Drawing Tables and Service Units

Here is the solution to multi-class drawing instruction. Each student is assigned a drawer and a drawing board which are stored in the service unit. Before class, the student takes board and drawer to table, which has slides underneath to hold drawer. After class, student returns both drawer and board to service unit, making room for next class. Using the same tables, as many modular service units may be obtained as necessary to accommodate varying day and evening classes.

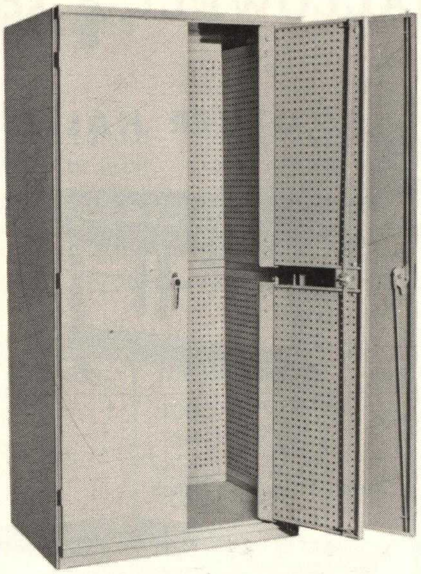

Model 1058 Drawing Board Cabinet; Model 6402 Drawer Pedestal Unit with Model 6408 Base


Model 1056 Drawing Table

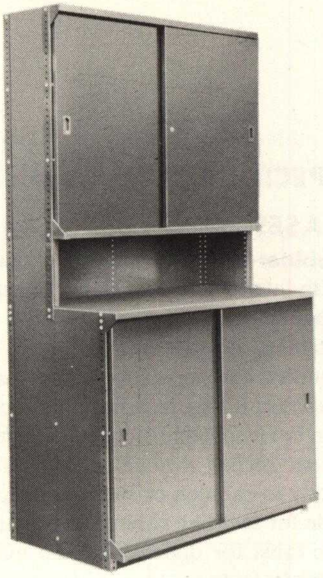
Model 241 Revolving Seat Adjustable Drafting Stool



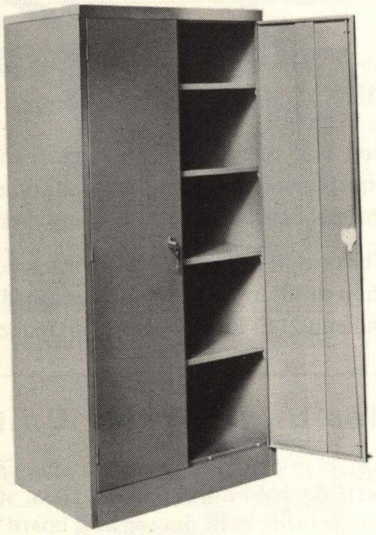
Closed Type ERECTOMATIC Shelving—*Bulletin 2257*



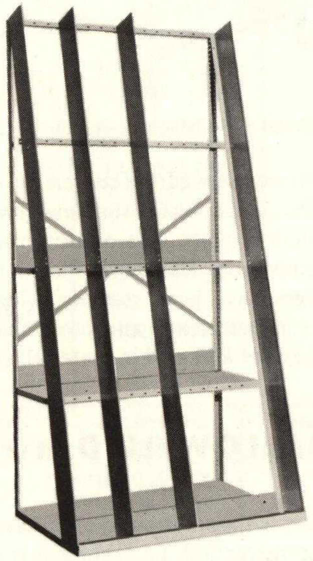
HALLOWELL Model 1074 Tool Storage Cabinet—*Bulletin 2109*



HALLOWELL Model 1060 Stain and Finish Cabinets—*Bulletin 2112*



HALLOWELL Model 810 Storage Cabinet—*Bulletin 2125*



HALLOWELL Model 1100 Vertical Lumber and Metal Storage Rack—*Bulletin 2112*

HALLOWELL Model 1043 Cabinet-Base Electrical Bench
Bulletin 2112

HALLOWELL Model 1090 Soldering Bench—*Bulletin 2112*

OTHER HALLOWELL SCHOOL SHOP FURNITURE

STORAGE WALL UNITS—All-welded steel. Ideal for storage of small parts and tools. *Bulletin 2110*.

CABINET BENCHES—Finest heavy gage steel construction, smooth rigid work surfaces, doors and drawers glide on Nylon rollers. *Bulletin 2104*.

STORAGE CABINETS—Desk, counter and full height units. One and two door models. Adjustable shelves. Chrome locking handles. *Bulletin 2125*.

STANDARD WORK BENCHES—Sturdy, all-welded steel legs. Choice of long-wearing tops, variety of accessories. *Bulletin 2103*.

DRAWERS AND DRAWER TIERS—All-steel, with smooth Nylon rollers for finger-tip operation. Recessed pulls, padlock attachments are supplied, cylinder locks available. *Bulletins 2103 and 2104*.

TOOL STANDS AND CARTS—Versatile units for transporting tools, dies, and other equipment around shops. Also used in banks, cafeterias, libraries, offices, etc. *Bulletin 2108*.

TOOL STORAGE CABINETS—Revolutionary development in tool storage cabinets uses heavy-gage steel pegboards that swing out to give access to back panels. *Bulletin 2109*.

STOOLS AND CHAIRS—A large assortment of strong, welded steel stools and chairs for school shops, drafting rooms, cafeterias, etc. is listed and described in *Bulletin 2107*.

COLUMBIA-HALLOWELL OFFICE FURNITURE—Uniquely designed, functionally styled, superbly constructed steel desks, chairs, tables, bookcases, storage partitions and file cabinets for executive suites, administrative areas, conference rooms, guidance centers, offices, libraries and classrooms. Available in 13 standard colors with 176 possible color combinations. Described and illustrated in *Bulletins 2525, 2421, 2419, 2429, 2443*.

COLUMBIA-HALLOWELL Division SPS
JENKINTOWN, PENNSYLVANIA • SPS WESTERN, SANTA ANA, CAL.

FORM 2450 REV. 959-30M-SPS

PRINTED IN U.S.A.

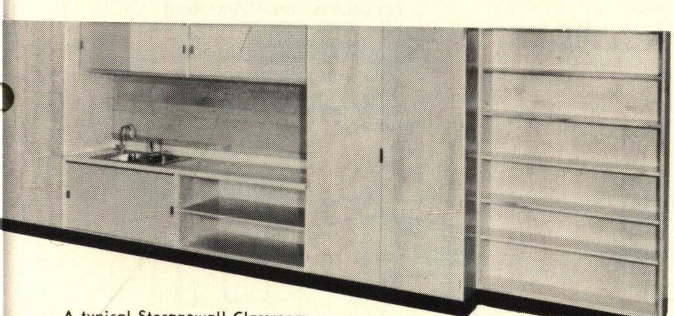
Specify

Storagewall

REG. U.S. PATENT OFF.

PREFABRICATED CABINETS

for
- SCHOOL · DORMITORY
- INSTITUTIONAL · COMMERCIAL
- RESIDENTIAL USE



A typical Storagewall Classroom Assembly. Notice three depths of cabinets—12", 18" and 24".

flexible **STORAGEWALL** units are available in a wide range of stock sizes and types. Unlike other "built-ins", STORAGEWALL units can easily be moved from place to place.

space saver **STORAGEWALL** cabinets have been designed and engineered to *provide the maximum of storage in a minimum of space.*

quality in production **STORAGEWALL** The original prefabricated factory built cabinet works wood to a tolerance of 1/32".

ready made *Eliminate conflicts on the job from misinterpreted plans or specifications.* Eliminate chance with hit or miss carpentry. Ease supervision on the job.

save drafting time *No time-consuming or costly details required.* List the type and show the sizes by catalog number directly on the elevation or plan.

factory assembly All **STORAGEWALL** units are uniform products manufactured to a rigid, precise engineering standard, assembled by experienced, skilled craftsmen in a *factory equipped with proper woodworking equipment.*

easily installed Everything comes cut and drilled to size. A level and screwdriver are all the tools required. However, **STORAGEWALL** quotes jobs installed.

Storagewall Wardrobe Unit (Note garment racks for 12" or 18" deep unit)

Unit 2101 Teachers Wardrobe White Interiors

Unit 2304 Classroom Supply Cabinet (Note 1/4" pegboard sliding doors with bracing full length handle)

Complete STORAGEWALL Data File Upon Request

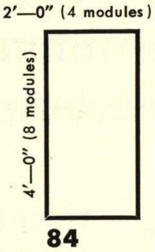
Design a Storagewall

The *Basic Principle* to bear in mind when designing with **STORAGEWALL** cabinets is that the "shells" of **STORAGEWALL** units (a group of cabinets form a "wall") are similar in detail throughout. The cabinets vary in height, width and depth by modules of six (6) inches. If the stock sizes shown on these pages are not adequate in type or size merely plan or specify into the "proper size shell" the equipment to do the job.

Color for interiors or panels as well as woods, types of doors, door pulls, formica tops, etc. are optional.

SYMBOLS FOR MODULAR SERIES CABINET SIZES

The individual **STORAGEWALL** cabinets vary in height, width and depth by multiples of six (6) inches. This standard unit of size is the **STORAGEWALL** "Module".



The number below the unit in the diagram at the right gives the size of the unit in terms of this "Module".

The depth of a cabinet is indicated by a letter.

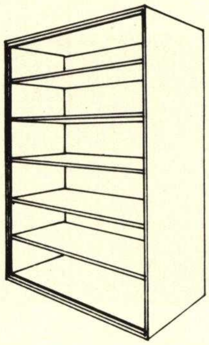
"A" stands for a 12" deep cabinet
"B" " " " 18" " "
"C" " " " 24" " "

These symbols are used to designate the cabinet sizes in ordering or layout on plan or elevation and is written directly on the layout or elevation together wih a brief description of how the cabinet will be used. For example above, if a chest of drawers of this size is required the drawing would be designated as 84B or C CHEST OF DRAWERS or if a wardrobe is desired 84C WARDROBE, etc.

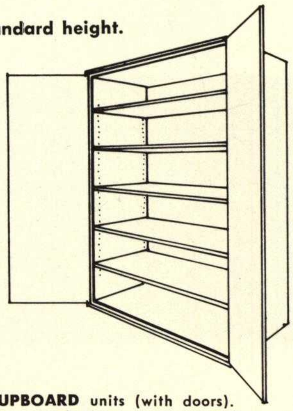
"MODULAR SERIES" CABINETS (Stock Sizes)

FOR DORMITORY, INSTITUTIONAL, COMMERCIAL AND RESIDENTIAL USE.

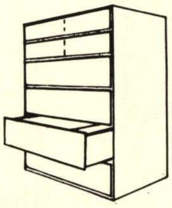
Unit or continuous bases not shown—3" standard height.



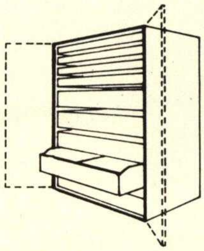
OPEN units
Heights—2, 3, 4, 5, 6, 8 & 12 modules
Widths—2, 3, 4, 5, 6 & 8 modules
Depths—A, B & C
Adjustable shelves



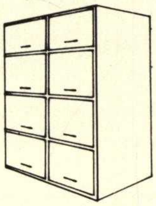
CUPBOARD units (with doors).
Same stock sizes as open units.
Adjustable shelves.
Proper size cabinets can be hung on the wall or used as counter units in the kitchen.
Sliding pegboard, or glass doors if desired.



CHEST OF DRAWERS
Height—4, 6 & 8 modules
Width—4, 5 & 6 modules
Depth—B & C
3, 5, 6, 7 & 8 drawers
flush or surface mounted pull



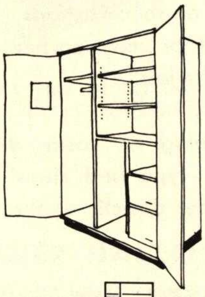
TRAY unit
Height—6 & 8 modules
Width—4, 5 & 6 modules
Depth—B & C
With or without doors
6 & 9 trays

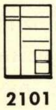


FILE unit
Height—4 or 8 modules
Width—5 (standard) or 6 (legal)
Depth—B or C
Rolling metal or plastic slides.

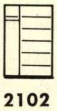
CLASSROOM SERIES (Unit Numbers Shown are Stock Sizes)

TEACHERS WARDROBES

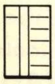




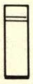
2101
as shown above
Height—75"
Width—8 modules
Depth—C



2102
Height—75"
Width—8 modules
Depth—C No. 2102
B No. 2102-B

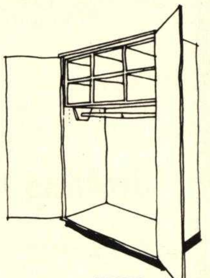


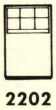
2103
Height—75"
Width—8 modules
Depth—C No. 2103
B No. 2103-B



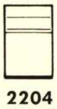
2104
Height—75"
Width—4 modules
Depth—C No. 2104
B No. 2104-B

STUDENT WARDROBES

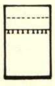




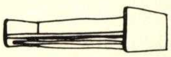
2202
as shown above
Height—75"
Width—8 modules
Depth—C
No. 2201—without doors
No. 2202—with doors



2204
Height—75"
Width—8 modules
Depth—C
No. 2203—without doors
No. 2204—with doors
One or two adjustable shelves and rod

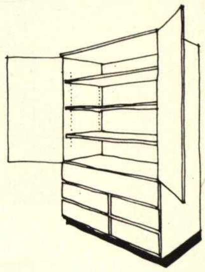


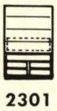
2207—with doors
2208—without doors
Height—75"
Width—8 modules
Depth—C



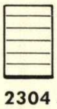
2206
Shelf and Pole
Width—10 modules

CLASSROOM SUPPLY CABINETS

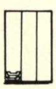




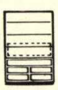
2301
as shown above
Height—75"
Width—8 modules
Depth—C
No. 2301—with doors
No. 2302—without doors
Shelves can be tilted for roll paper holder.



2304 —with doors
2307 —without doors
Height—75"
Width—8 modules
Depth—C
See standard open or cupboard units above.

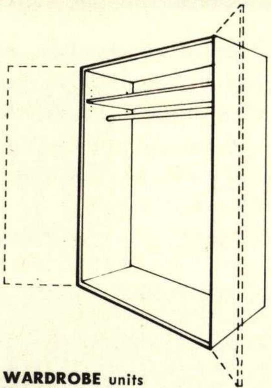


2305
Height—75"
Width—8 modules
No. 2305—with doors
No. 2306—without doors
39 molded fiber glass "tote" trays.

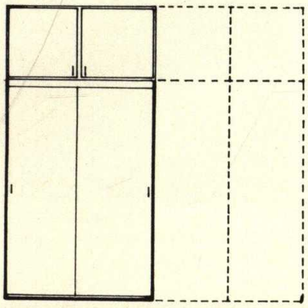


2303
Same as 2301, but with glass doors.

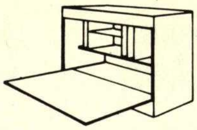
Complete "Classroom Series" Manual upon request



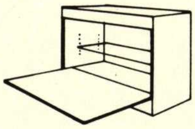
WARDROBE units
Heights—8 & 12 modules
Widths—4, 5, 6 & 8 modules
Depths—A, B (garment racks) & C
Adjustable shelf and satin chrome rod
With or without doors
Specify additional equipment needed i.e. shoe racks etc.



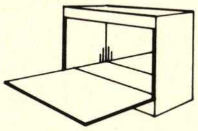
CLOSET FRONTS—Component fronts of Storagewall shipped K D, prime coated, complete with hardware Sizes made to order—when ordering specify types and dimensions, jamb widths and whether threshold is to be set on or flush with finished floor.



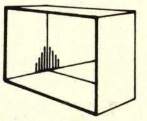
DESK
Height 4 modules Width 5 & 6 modules
Depth—A, B & C
With adjustable pigeon holes and/or concealed light.
Desk leaf folds up and flush.
Leaf height 30" when placed on 2'-0" high unit and 3" base.



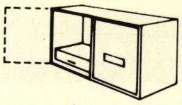
BAR
Height 4 modules Width 5 & 6 modules
Depth A, B & C
Adjustable glass shelf. Concealed light optional.
Liquor-proof lacquer on shelf which folds up, and flush.



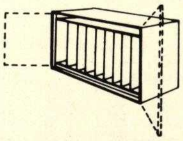
VANITY
Height—4 modules Widths—5 & 6 modules
Depth— A, B & C
With mirror and concealed light
Drop leaf folds up and flush.
Leaf height 30" when placed on 2'-0" high unit and 3" base.



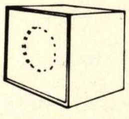
MIRROR
Select proper height and width
A, B & C depth



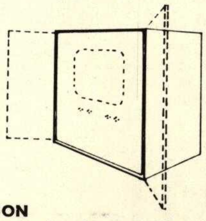
RADIO-PHONOGRAPH
Height 3 modules Width 6 modules
Depth B or C
Phonograph with or without door and with metal slides for tray
Radio unit vented and with panel



RECORD DIVIDER RACK OR STORAGE TRAY
Height 3 or 4 modules Width 4, 5 or 6 modules
Depth B or C
Divides removable—Select proper size for vertical or horizontal filing
With or without doors

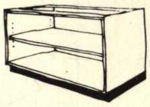


SPEAKER
Select proper size for speaker to be housed
Panel cut if speaker size is specified

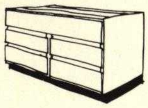


TELEVISION
Select proper size for mounting, (revolving or stored), Television Unit.
With or without doors, paneling etc. Specify type of doors or panelling. Unit vented.

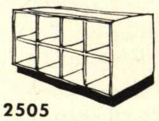
COUNTER UNITS



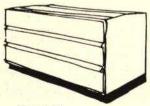
2501—as shown
2502—hinged doors
2503—sliding doors



2504



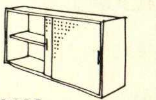
2505
2506 —hinged doors



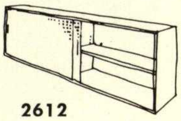
2508

Height—27", 30", 34", 36"
Width—48"
Depth—24"
See standard open or cupboard units above for additional sizes.

WALL-HANGING UNITS



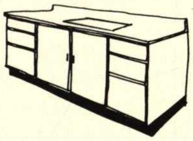
2611
Height—4 modules
Width—8 modules
Depth—A



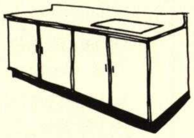
2612
Height—5 modules
Width—6 modules
Depth—A

See cupboard units in modular series above for other sizes.

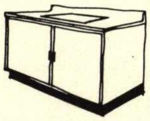
SINK UNITS



Height—**2506**—27" or 30"—Incl. Base
2507—34" or 36"—Incl. Base
Width—12 modules
Depth—C

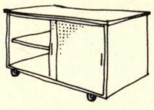


Height—**2513**—27" or 30"—Incl. Base
2514—34" or 36"—Incl. Base
Width—12 modules
Depth—C

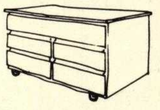


Height—**2517**—27" or 30"—Incl. Base
2518—34" or 36"—Incl. Base
Width—8 modules
Depth—C

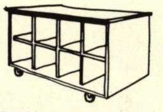
MOVABLE UNITS



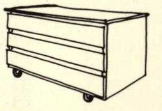
3403C—with casters
3403L—with legs
2401C or L—without doors
2402C or L—with hinged doors



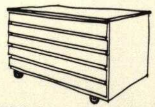
3404C—with casters
3404L—with legs



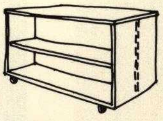
3405C—with casters
3405L—with legs
3406C or L—with hinged doors



3408C—with casters
3408L—with legs



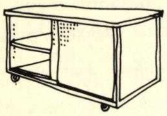
3409C—with casters
3409L—with legs



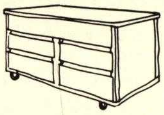
3407C—with casters
3407L—with legs
Adjustable shelves both sides

Height—27", 30", 34", 36"
Width—8 modules
Depth—C

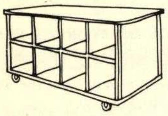
THE "4000 SERIES" CABINETS



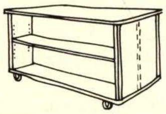
4403C—with casters
4403L—with legs
4401C or L—without doors
4402C or L—with hinged doors
Height—27", 30", 34", 36"
Width—8 modules
Depth—C



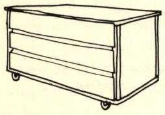
4404C—with casters
4404L—with legs
Height—27", 30", 34", 36"
Width—8 modules
Depth—C



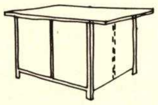
4405C—with casters
4405L—with legs
4406C or L—with hinged doors
Height—27", 30", 34", 36"
Width—8 modules
Depth—C



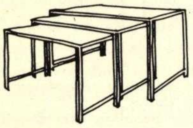
4407C—with casters
4407L—with legs
Height—27", 30", 34", 36"
Width—8 modules
Depth—C
Adjustable shelves both sides



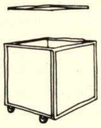
4408C—with casters
4408L—with legs
4409C or L—5 drawer unit
Height—27", 30", 34", 36"
Width—8 modules
Depth—C



4602C—with casters
4602L—with legs
Woodworking vise
Metal working vise
Metal frame
52" high x 48" wide x 18" deep

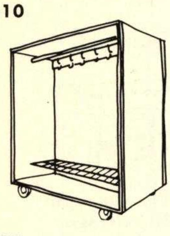


NESTING TABLES
Metal frame
4607
4608
4609
4610

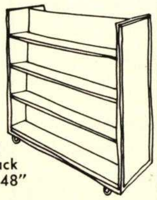


CLAY CART
4604C—with casters
4604L—with legs
22" or 25" high x 18" wide x 18" deep

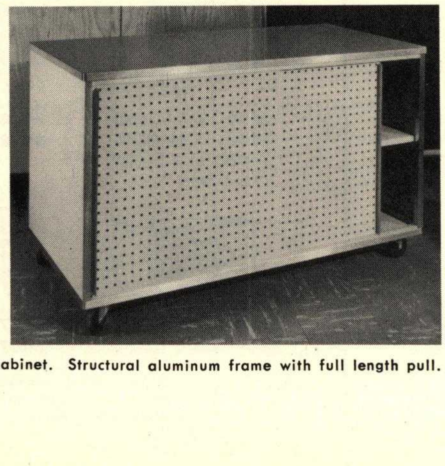
BLOCK CART
4605C—with casters
4605L—with legs
22" or 25" high x 18" or 36" wide x 18" deep



4625—Mobile Student Wardrobe
54" high x 48" wide x 24" deep



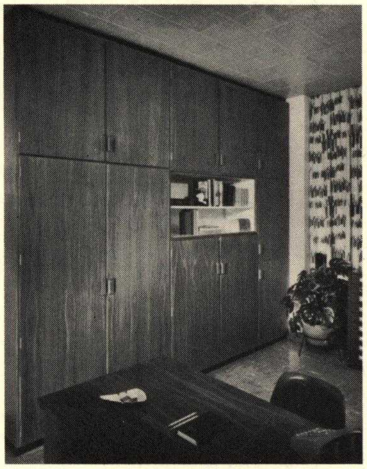
4619—Mobile Book Unit
4620—with reversible cork and chalkboard on back side, 52" high x 48" wide x 18" deep



The Storagewall "4000 Series" cabinet. Structural aluminum frame with full length pull.

SPECIAL FEATURES OF STORAGEWALL

The rib and channel principle of construction, exclusive with **STORAGEWALL,** protects against warpage, insures a strong, structural wall and permits safe, concealed electrical wiring to run horizontally and vertically between the units (see drawing below) and through the base. Electrical outlets may be installed on the 3" standard base. **STORAGEWALL** is a structural unit in itself and need not require blocking to wall or ceiling, assuring no damage to plaster in new construction or remodelling. All **STORAGEWALL** units, by nature of their construction and design are finished flush on the interior. The quality of **STORAGEWALL** is apparent in that the tolerance used in working the wood is 1/32".



AIA Offices, Chicago, Illinois
Storagewall in walnut with white interiors.

STORAGEWALL OF:

CALIFORNIA-Northern 921 W. Fremont	Div. of Valley Showcase & Fixture Co. Stockton
COLORADO 7th & Larimer	Div. of Hallack & Howard Lumber Co. Denver
CONNECTICUT P. O. Box 7	Div. of Tariffville Mfg. Co. Tariffville
ILLINOIS-Northern 165 W. Wacker Drive	Boyd-Britton Assoc. Chicago
ILLINOIS 546 E. Cerro Gordo St.	Div. of Lyon Mfg. Co. Decatur
INDIANA P. O. Box 389	Div. of Willman Lumber Co. Hartford City
IOWA P. O. Box 328	Div. of Calmar Mfg. Co. Calmar
MINNESOTA Northwest Bank Bldg.	James C. Nystrom Co. Minneapolis
NEW YORK 194 Cottage St.	Div. of Hoe Corporation Poughkeepsie
WISCONSIN P. O. Box E	Div. of Chadwick Mfg. Co. Coleman
CANADA-ONTARIO P. O. Box 5	Storagewall of Ontario Georgetown

For complete STORAGEWALL information write to:
BOYD-BRITTON 165 W. Wacker Dr. CHICAGO, ILL.

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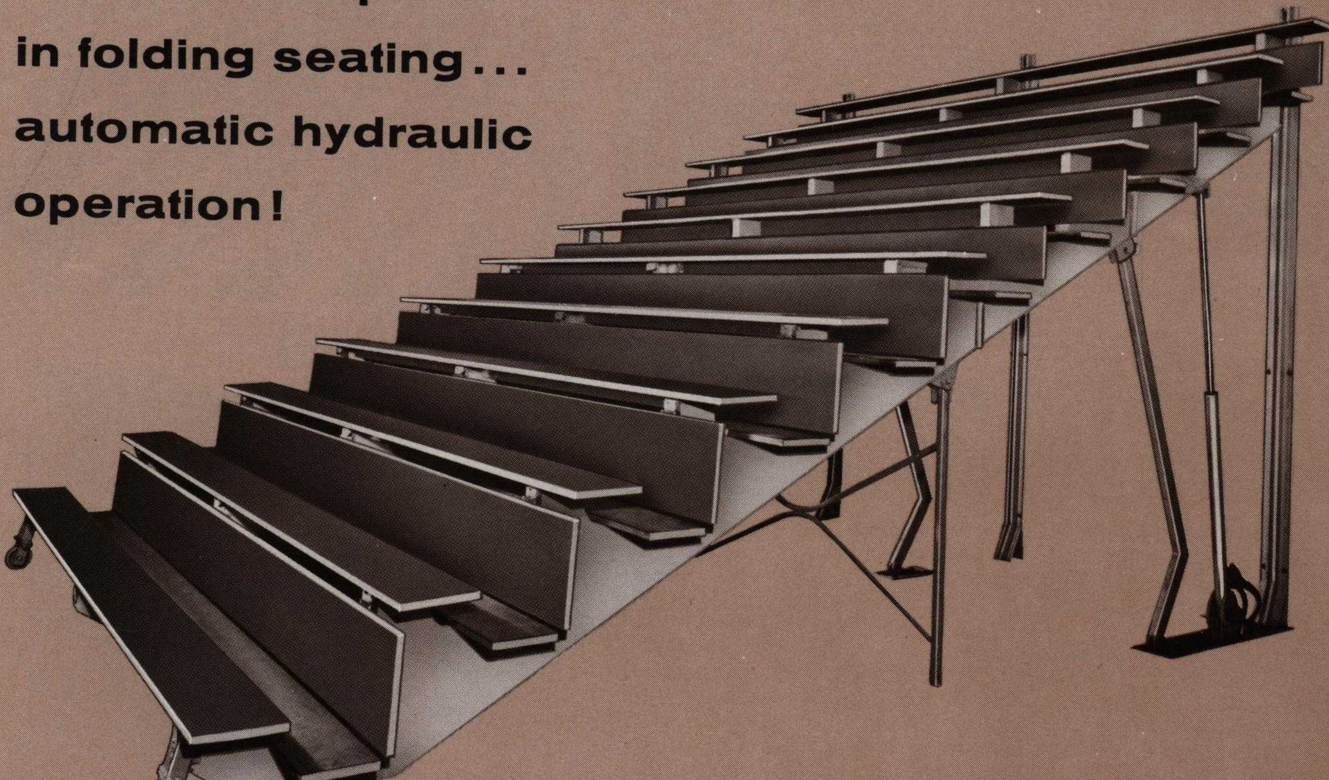
AIA FILE NO. 35-F-11

THE MARK OF QUALITY

BARBER
COLMAN

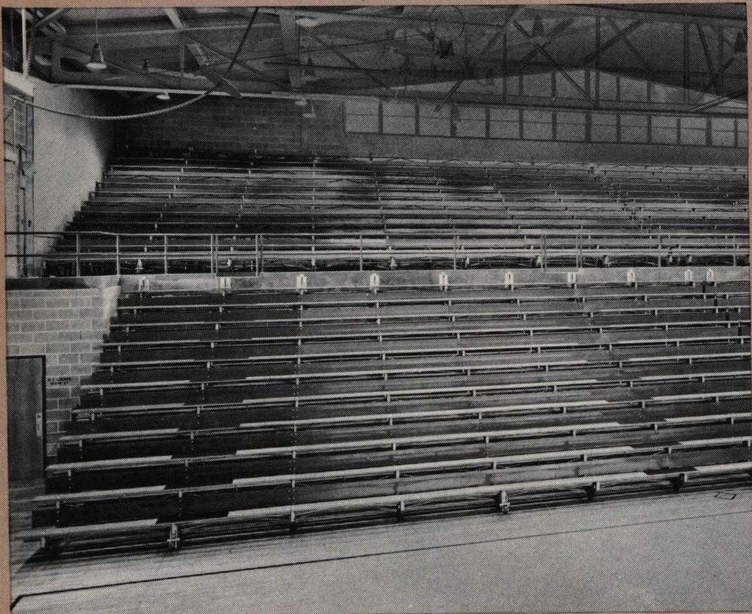
Automatic Folding
GYMNASIUM SEATING

**a new concept
in folding seating...
automatic hydraulic
operation!**

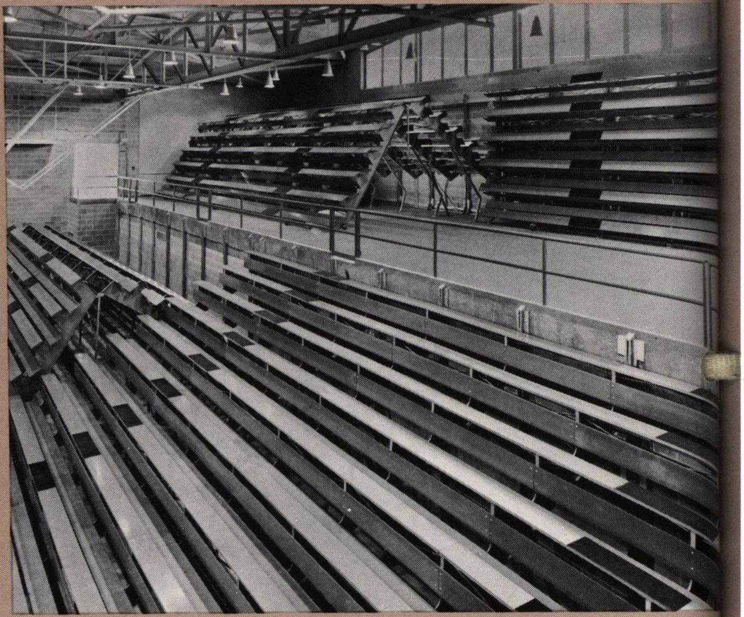


BARBER-COLMAN COMPANY • ROCKFORD, ILLINOIS

BARBER-COLMAN Automatic FOLDING BLEACHERS



Hydrofold Bleachers on balcony and main floor providing maximum utilization of space in East High School, Waterloo, Iowa.



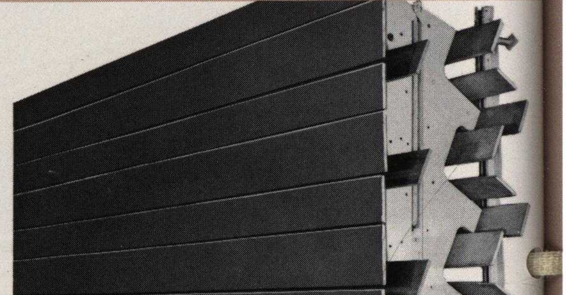
Continuous fifty foot lengths of Hydrofold Bleachers in open and partly closed positions showing operation.

HYDRAULIC ACTION!

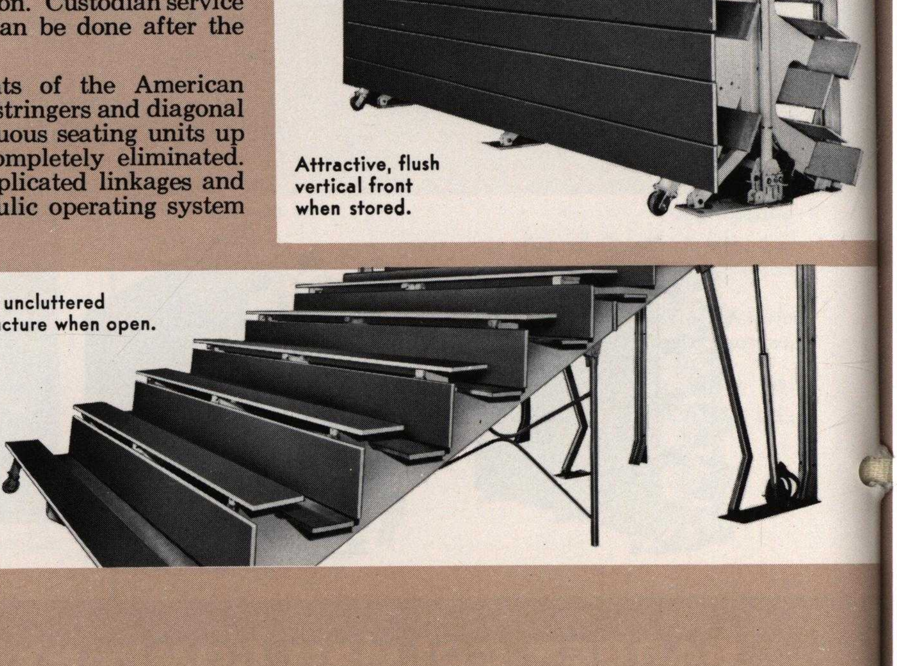
Barber-Colman Company presents an entirely new concept in gymnasium seating design — hydraulic folding bleachers. *Hydrofold Bleachers* fold rather than telescope thus eliminating metal-to-metal operating friction and 90% of trouble causing linkages. Fully automatic Hydrofold operation is push-button simple — a touch of a lever in the compact electro-hydraulic operating cabinet completely opens, closes, or stops and locks the entire unit in any position. Seating for the entire gymnasium automatically opens and stores in minutes — no tractors or add-on operating units required. After-game cleaning is fast and easy. Hydrofold bleachers are self-cleaning as they close and debris does not interfere with operation. Custodian service time is cut as much as 60% because all cleaning can be done after the units are completely stored.

Hydrofold bleachers exceed all safety requirements of the American Standards Association. Structurally engineered base stringers and diagonal bracing are scientifically combined to permit continuous seating units up to 50 feet long and 20 rows high. Side sway is completely eliminated. Service is no longer a problem — there are no complicated linkages and springs to go out of adjustment. The electro-hydraulic operating system is smooth, safe, and efficient.

When stored the flush vertical front assures handsome appearance and maximum protection. There are no protruding edges or parts to cause injury or collect dust. Seats, risers and footboards made from select, vertical-grain, seasoned lumber, laminated with hardboard are furnished as standard. Select, edge glued, vertical laminated, Douglas Fir or solid structural Douglas Fir seat, riser, and footboards optional. All boards are factory prefinished with one coat of quality clear sealer and one coat of super spar varnish.



Attractive, flush vertical front when stored.



Safe, yet uncluttered understructure when open.

SPECIFICATIONS

TABLE OF DIMENSIONS

	NUMBER ROWS	DEPTH OPEN		DEPTH CLOSED	HEIGHT OPEN	HEIGHT CLOSED	
		22" DEPTH PER ROW	24" DEPTH PER ROW			22" DEPTH PER ROW	24" DEPTH PER ROW
HYDROGLIDE	3	4′ - 8″	5′ - 0″	2′ - 9″	3′ - 4″	5′ - 4″	5′ - 8″
	4	6′ - 6″	7′ - 0″	2′ - 9″	4′ - 3″	7′ - 5″	7′ - 10″
	5	8′ - 4″	9′ - 8″	2′ - 9″	5′ - 3″	9′ - 6″	10′ - 1″
	6	10′ - 2″	11′ - 0″	2′ - 9″	6′ - 2″	11′ - 7″	12′ - 3″
	7	12′ - 0″	13′ - 0″	2′ - 9″	7′ - 1″	13′ - 7″	14′ - 5″
	8	13′ - 10″	15′ - 0″	2′ - 9″	8′ - 1″	15′ - 8″	16′ - 8″
	9	15′ - 8″	17′ - 0″	2′ - 9″	9′ - 0″	17′ - 9″	18′ - 10″
HYDROFOLD	7	12′ - 0″	13′ - 0″	4′ - 9″	7′ - 1″	7′ - 3″	7′ - 9″
	8	13′ - 10″	15′ - 0″	4′ - 9″	8′ - 1″	7′ - 11″	8′ - 5″
	9	15′ - 8″	17′ - 0″	4′ - 9″	9′ - 0″	9′ - 4″	9′ - 11″
	10	17′ - 6″	19′ - 0″	4′ - 9″	10′ - 0″	10′ - 0″	10′ - 7″
	11	19′ - 4″	21′ - 0″	4′ - 9″	10′ - 11″	11′ - 5″	12′ - 2″
	12	21′ - 2″	23′ - 0″	4′ - 9″	11′ - 10″	12′ - 2″	12′ - 10″
	13	23′ - 0″	25′ - 0″	4′ - 9″	12′ - 10″	13′ - 5″	14′ - 4″
	14	24′ - 10″	27′ - 0″	4′ - 9″	13′ - 9″	14′ - 3″	15′ - 2″
	15	26′ - 8″	29′ - 0″	4′ - 9″	14′ - 9″	15′ - 5″	16′ - 5″
	16	28′ - 6″	31′ - 0″	4′ - 9″	15′ - 8″	16′ - 2″	17′ - 2″
	17	30′ - 4″	33′ - 0″	4′ - 9″	16′ - 7″	17′ - 6″	18′ - 8″
	18	32′ - 2″	35′ - 0″	4′ - 9″	17′ - 7″	18′ - 3″	19′ - 5″
	19	34′ - 0″	37′ - 0″	4′ - 9″	18′ - 6″	19′ - 7″	20′ - 11″
	20	35′ - 10″	39′ - 0″	4′ - 9″	19′ - 5″	20′ - 3″	21′ - 7″

Rise per row 11$^3/_8$″

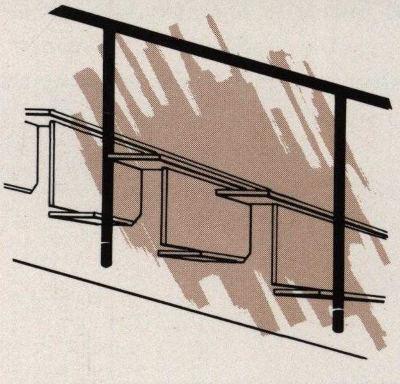
SHORT SPECIFICATION

Folding gymnasium seating shall be Hydrofold Bleachers as manufactured by Barber-Colman Company, Rockford, Illinois, and shall be of size shown on plans. All units shall be fully automatic with hydraulic operating mechanism and constructed in accordance with American Standards Association File Z 20.3 "Safety Code for Grandstands" Section 3.3. Manufacturer shall furnish recent test data by independent laboratory showing horizontal and lateral deflections in conjunction with above tests.

Folding gymnasium seating shall be delivered and installed by manufacturer or authorized representative. The entire installation shall be guaranteed for one year against faulty materials, workmanship, and operation.

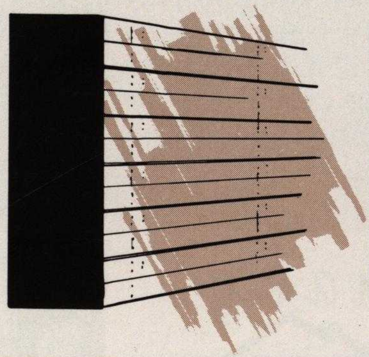
Accessories shall be furnished as indicated on drawings and/or as scheduled below:

ACCESSORIES



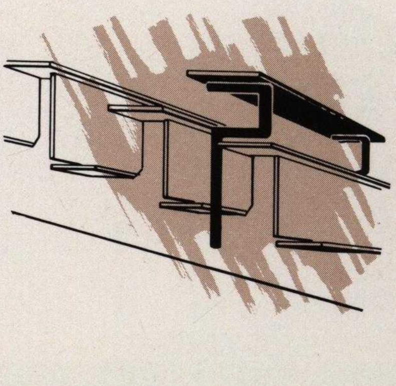
REMOVABLE END RAILS

End rails of 1¾" O.D. steel tubing may be quickly installed by insertion into steel sockets welded to the base stringers. The rails may be easily removed, folded, and stored when not in use.



END CLOSURES

To insure a complete protective enclosure and give the seating unit a clean, handsome, compact look, End Closures are available. Made of sturdy ¾" plywood, the End Closures will completely conceal all mechanism.



TIMERS TABLE

The timer's table is easily installed by inserting the legs of the table into sockets welded to the base stringers. When not in use, the table legs may be folded for easy storage. The table is normally mounted between the second and third row of bleacher seats.

HYDROGLIDE BLEACHER

In answer to the need for bleachers in small gymnasiums, where floor space is a premium, Barber-Colman Company engineers have designed the *Hydroglide* bleacher. Basically, the same working principles are involved in *Hydroglide* as in Hydrofold. Instead of the "jack-knifing" effect as employed with Hydrofold — *Hydroglide* rolls along the floor and rises parallel to the wall in one continuous unit. When stored it takes up only 2′9″ of floor space, and is the perfect bleacher for the small gymnasim.

rouble-free hydraulic action!

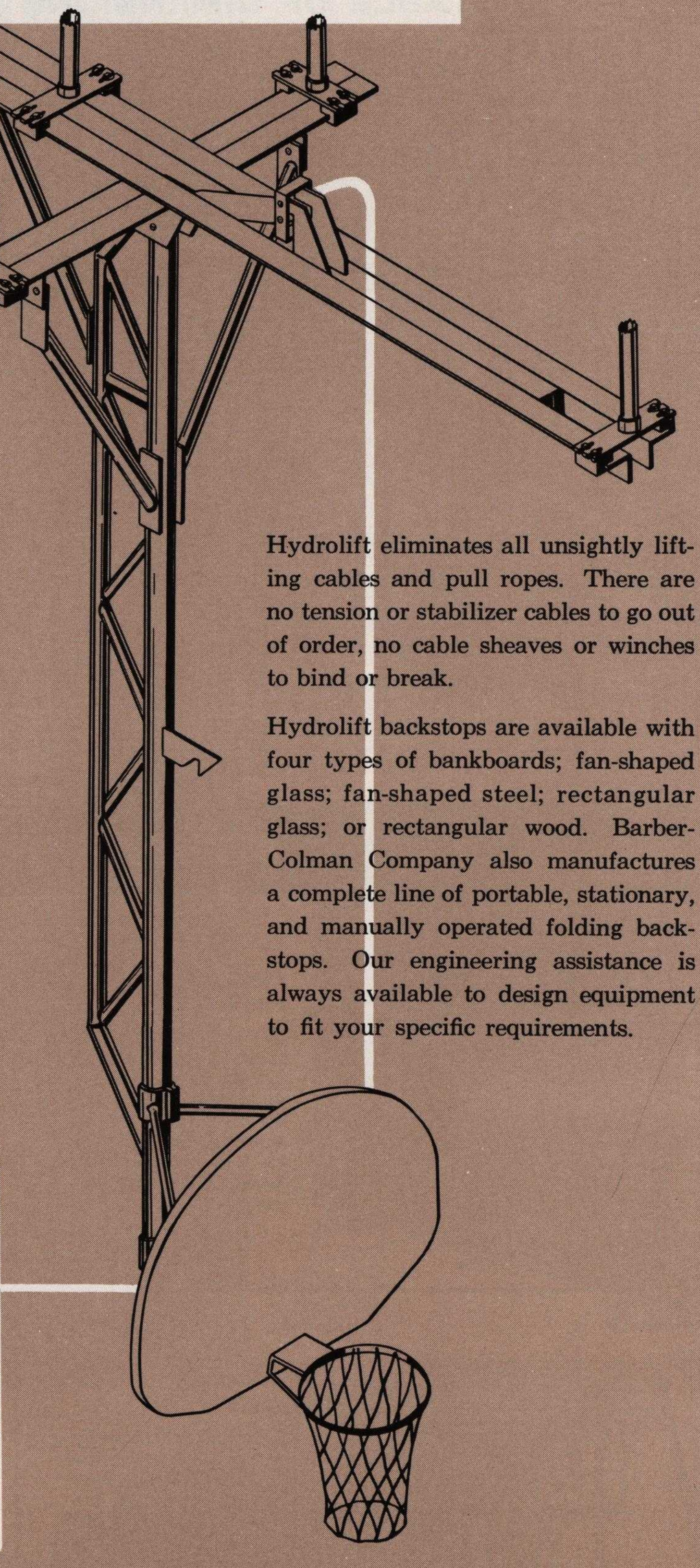
BARBER-COLMAN

Hydrolift

BASKETBALL BACKSTOPS

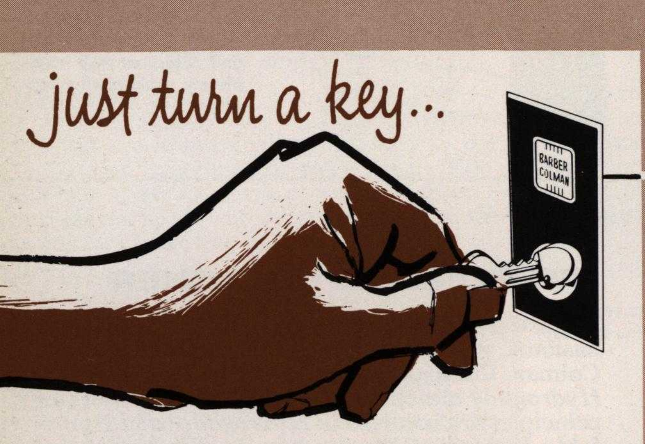
nother Barber-Colman engineering first . . . *simple* automatic upward folding basket-all backstop! Hydro-lift backstops combine rouble-free hydraulic operation with struc-urally engineered construction to assure ears of maintenance-free service.

conomical, timesaving, hydraulic lifting ystem simultaneously folds up to four units ompactly to the front, back, or either side. ackstops automatically lock rigidly in place o minimize vibration when in playing posi-on. They also lock when in raised position or positive safety. Keyswitch on electro-ydraulic operating cabinet insures against nauthorized operation.



Hydrolift eliminates all unsightly lifting cables and pull ropes. There are no tension or stabilizer cables to go out of order, no cable sheaves or winches to bind or break.

Hydrolift backstops are available with four types of bankboards; fan-shaped glass; fan-shaped steel; rectangular glass; or rectangular wood. Barber-Colman Company also manufactures a complete line of portable, stationary, and manually operated folding backstops. Our engineering assistance is always available to design equipment to fit your specific requirements.



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BARBER-COLMAN COMPANY • ROCKFORD, ILLINOIS

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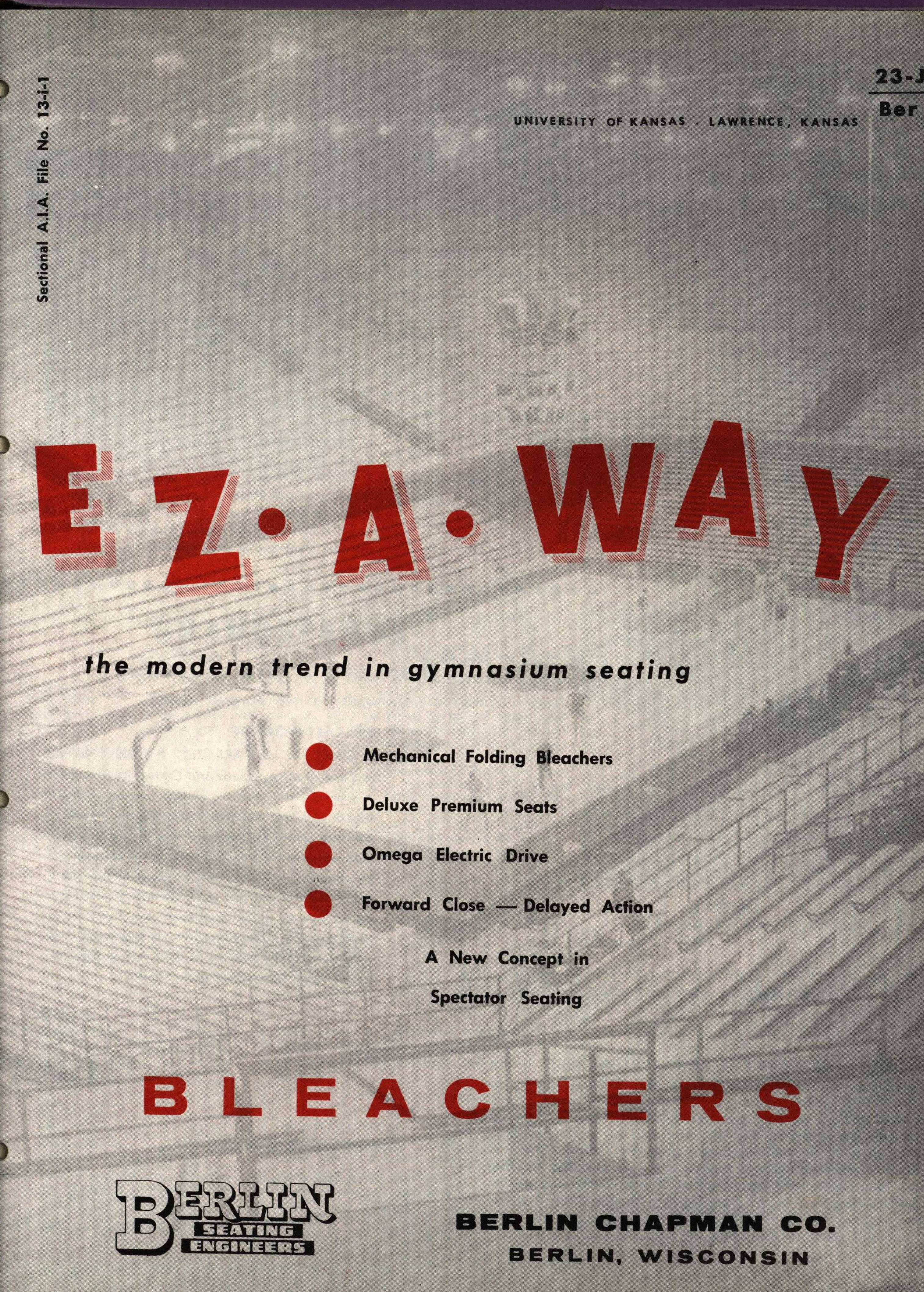


UNIVERSITY OF KANSAS · LAWRENCE, KANSAS

EZ·A·WAY

the modern trend in gymnasium seating

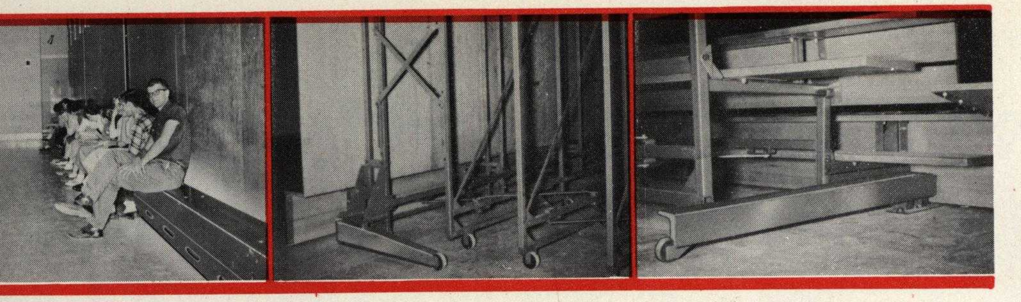
- ● **Mechanical Folding Bleachers**
- ● **Deluxe Premium Seats**
- ● **Omega Electric Drive**
- ● **Forward Close — Delayed Action**

A New Concept in
Spectator Seating

BLEACHERS

BERLIN
SEATING
ENGINEERS

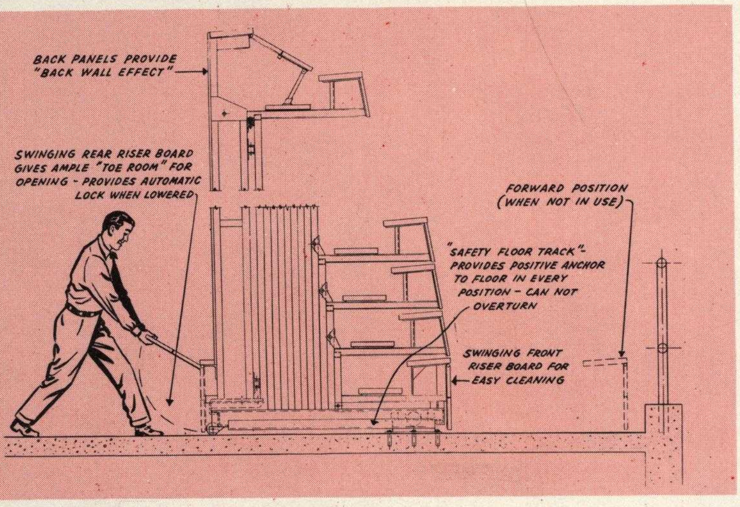
BERLIN CHAPMAN CO.
BERLIN, WISCONSIN



EZ·A·WAY

FORWARD CLOSE-
DELAYED ACTION

GYM SEATS


BACK PANELS PROVIDE "BACK WALL EFFECT"
SWINGING REAR RISER BOARD GIVES AMPLE "TOE ROOM" FOR OPENING - PROVIDES AUTOMATIC LOCK WHEN LOWERED
FORWARD POSITION (WHEN NOT IN USE)
"SAFETY FLOOR TRACK" - PROVIDES POSITIVE ANCHOR TO FLOOR IN EVERY POSITION - CAN NOT OVERTURN
SWINGING FRONT RISER BOARD FOR EASY CLEANING

• SAFE • MODERN • CONVENIENT

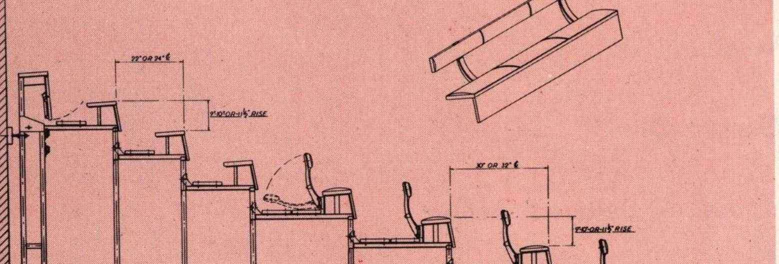
EZ-A-WAY Forward Close Delayed Action Gym Seats offer maximum utilization of available space. When closed they form a wall to separate a balcony into a modern room — for gym classes, dances and any other school activities.

EZ-A-WAY Forward Close Delayed Action Gym Seats are easy to use . . . swinging rear riser board offers plenty of tow space for opening . . . gym seats can be locked in the open or closed positions.

EZ-A-WAY Forward Close Delayed Action Gym Seats cannot overturn. Our new floor track design provides positive floor attachment in every position.

• •

OMEGA EZ-A-WAY DELUXE COMBINATION


22" OR 24" ℄
9"-10"-OR-11½" RISE
30" OR 32" ℄
9"-10"-OR-11½" RISE

THE LAST WORD IN
• COMFORT • CAPACITY • CONVENIENCE

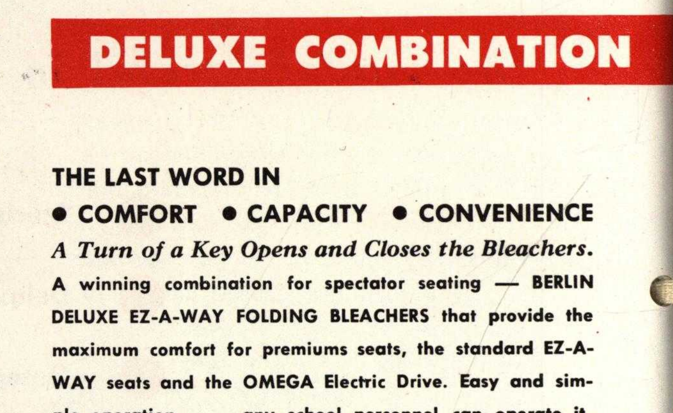
A Turn of a Key Opens and Closes the Bleachers.

A winning combination for spectator seating — BERLIN DELUXE EZ-A-WAY FOLDING BLEACHERS that provide the maximum comfort for premiums seats, the standard EZ-A-WAY seats and the OMEGA Electric Drive. Easy and simple operation . . . any school personnel can operate it, and it's reliable and safe in its operation . . nothing to get out of order — no maintenance cost. Colors for the backs and seats to harmonize with the gymnasium setup. Seats and back-rest pads are of Vinyl covered foam rubber. Complete specifications upon request.

EZ-A-WAY FOLDING BLEACHERS

Spectators can enter the bleachers from the balcony by use of the 34 inch walkway along the front of the balcony sections, designed also to provide easy exit from the balcony. For capacity crowds the walkway can be converted to additional seats, so that all balcony space becomes spectator seating. When closed there is continuous face so that on occasions only the bleachers on the main floor need be extended. These continuous design EZ-A-WAY bleachers may be equipped with the OMEGA drive unit for simple, easy operation.
Complete specifications upon request.

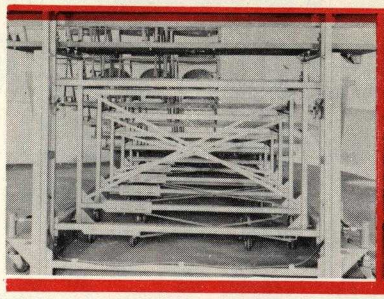
NEW CONCEPT in SPECTATOR SEATING

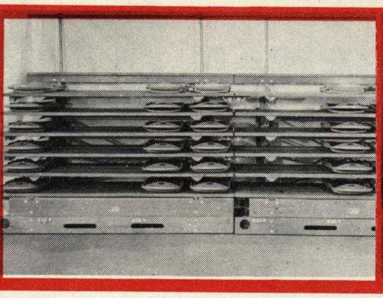

PANEL
BALCONY FLOOR
MAIN FLOOR

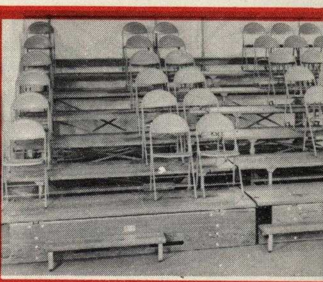
- Continuous arrangement of seats from the main floor to top of the balcony . . . without jog or interruption.
- Any number of rows and length of row.
- Can be furnished in Deluxe opera style seats.

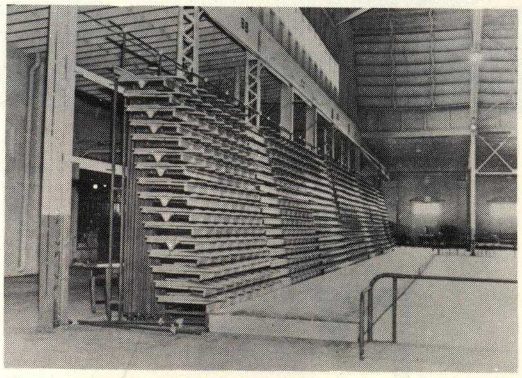
EZ·A·WAY

MECHANICAL FOLDING CHAIR STANDS









Illustrated is the installation at the Richmond Arena, Richmond, Virginia. Note the floor space available for other activities when EZ-A-WAY chair stand is in closed position.

BERLIN CHAPMAN CO. has applied the principle of the EZ-A-WAY mechanical folding bleacher into a folding chair stand for deluxe seating. The EZ-A-WAY chair stand is a series of platforms designed to attach folding chairs to the base for public seating. Chairs fold up in banks of 2 to 8 seats, and lay on the platforms when closed. Acceptance of the EZ-A-WAY chair stand in TV studio seating arrangements, arenas, field houses, auditoriums, and gynasiums has been enthusiastic . . . built 30" and 32" centers with 8" standard rise.

Rugged, ALL STEEL frame with conventional "diagonal bracing" — self contained hydraulic, mobile units are available.

30" ℄ CHAIR STAND

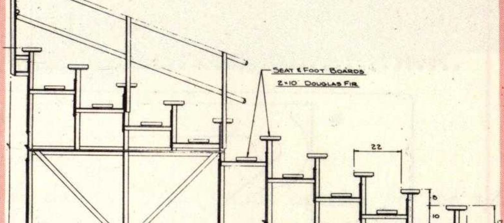
No. of Rows	Height	Closed Position	Extended Position
2	2'-8"	3'-6½"	5'-10"
3	3'-4"	3'-8"	8'-4"
4	4'-0"	3'-9½"	10'-10"
5	4'-8"	3'-11"	13'-4"
6	5'-4"	4'-0½"	15'-10"
7	6'-0"	4'-2"	18'-4"
8	6'-8"	4'-3½"	20'-10"
9	7'-4"	4'-5"	23'-4"
10	8'-0"	4'-6½"	25'-10"
11	8'-8"	4'8"	28'-4"
12	9'-4"	4'-9½"	30'-10"
13	10'-0"	4'-11"	33'-4"
14	10'-8"	5'-0½"	35'-10"
15	11'-4"	5'-2"	38'-4"
16	12'-0"	5'-3½"	40'-10"
17	12'-8"	5'-5"	43'-4"
18	13'-4"	5'-7½"	45'-10"

● ●

GRANDSTANDS

portable and permanent

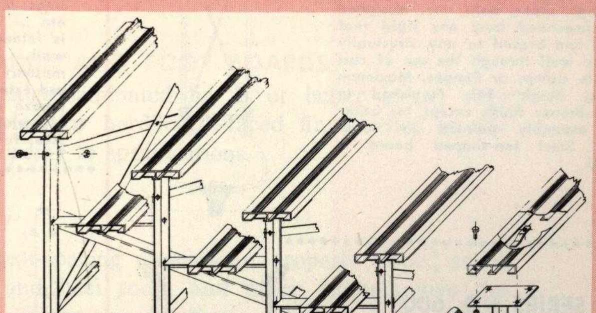
BERLIN STANDARD TYPE "C" PERMANENT GRANDSTAND is a rugged, dependable neat appearing stand (as shown by the illustration taken underneath the installation at St. Clair Shores, Michigan, High School). With clean pleasing lines, it requires the minimum number of concrete footings . . . is easy to clean underneath the entire stand . . standard size 24" ℄ and 8¾" rise and (2) 8" foot boards; also available with 24", 36", or 48" high standard walkways on the front . . . other sizes upon request.



BERLIN ALL STEEL PORTABLE BLEACHERS are engineered and designed to provide maximum seating capacity for both indoors and outdoors . . . designed in standard interchangeable sections that permit additions vertically and laterally as needed to accommodate varying situations. Semi-permanent, they can be dismantled and re-erected wherever needed. Because of simplicity of design and interchangeable parts no skilled help is required to either erect or dismantle. ALL STEEL Hydraulic-Moveable Portable Bleachers simplifies handling and moving as it is no longer necessary to tear down bleachers and reassemble at another site. This mobile feature can be built into ALL STEEL Bleachers at a slight additional cost.

Aluminum

- Easily moved . . . independent sections
- Average weight only 9 lbs. per seat
- All seatboards are anodized, architectural finish
- All foot and seatboards extruded aluminum (only in Berlin Bleachers)
- Non-skid seat surfaces
- Available in 22" and 24" center . . . 8" rise
- Guard rails of aluminum available
- Meets ASCE design specifications
- Excellent for swimming pool seating
- All structural members high strength aluminum alloy



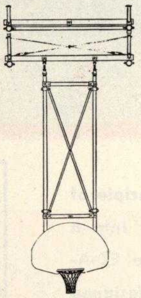
BERLIN ALUMINUM PORTABLE BLEACHERS
No Maintenance . . . No Painting . . . Light Weight — Your Ideal Outdoor Seating

BERLIN CHAPMAN Basketball Backstops

Backboards meet the latest rules of National Basketball Committee of United States and Canada

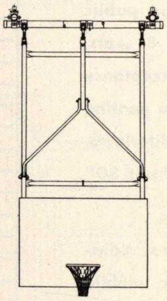
SERIES NO. 100

iling suspended, forward swing-up pe furnished complete including all ounting fittings, pipes, bolts, etc. aximum mounting height of standard ries No. 100 is 35'. Finished in tique Bronze except for backboard sembly white enamel . . . all back-ops furnished with Steel Fan-Shaped ards.



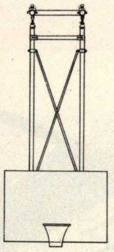
SERIES NO. 120

iling suspended, modified forward ving-up type furnished complete in-uding all mounting fittings, pipes, lts etc. . . . Maximum mounting ight of standard Series No. 120 is '. Used where backboard must be cated near a wall, folding partition other backstop. Forward bracing is of jack knife design which folds when it is raised. Finished in Antique onze enamel except backboard as-sembly white enamel. All backstops rnished with steel fan-shaped boards.



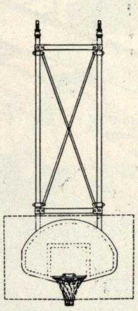
SERIES NO. 130

iling suspended, backward swing-up pe furnished complete including all ounting fittings, pipes, bolts, etc., signed so that unit can be suspend- from any rigid roof framing. Maxi-m mounting height 35' . . . Finished Antique Bronze except backboard as-mbly in white enamel. All backstops nished with steel fan-shaped boards.



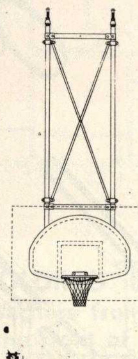
SERIES NO. 160

iling suspended, stationary type unit nished complete including all neces-y mounting fittings, pipes, bolts, ... designed to be suspended m any rigid roof framing. Maximum unting height 35'. Furnished in tique Bronze except backboard — ite enamel. All backstops furnished th steel fan-shaped boards.



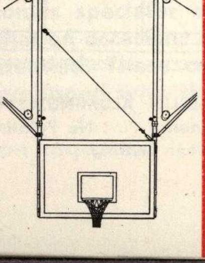
SERIES NO. 300

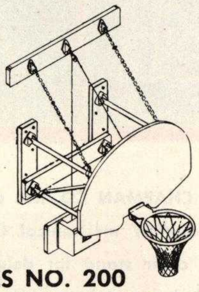
iling suspended, wall braced type nished complete including all mount- fittings, pipes, bolts, etc., designed be suspended from any rigid roof ming and braced to any structually equate wall through the use of cast lleable clamps or flanges. Maximum unting height 34'. Furnished in tique Bronze finish except for back-ard assembly painted in white amel. Steel fan-shaped board is ndard.



SERIES NO. 600

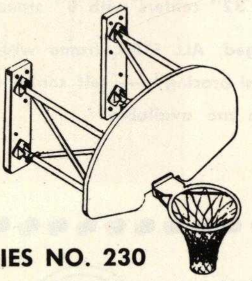
iling suspended, Gate-type side fold- used where a folding partition ides gym, furnished complete in-ding mounting fittings, pipes, bolts, ... Maximum mounting height ommended is 25'. Finished in Antique onze enamel except backboard as-mbly white enamel . . . standard ckstop furnished with steel fan-aped boards.





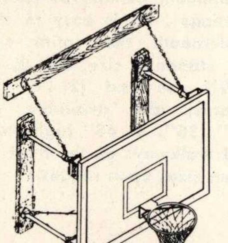
SERIES NO. 200

Wall attached, swing-up type unit furnished complete including all mounting fittings, wall boards, anchor bolts, etc. . . . designed so that when unit is folded the backboard is parallel to the wall, adaptable to either frame or masonry construction. Maximum standard extension is 10' from face of backstop board to the wall. Furnished in Antique Bronze finish except for backboard assembly painted white enamel. Steel fan-shaped board is standard.



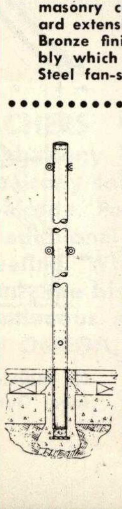
SERIES NO. 230

Wall attached, stationary type furnished complete including all mounting fittings, wall anchor boards, anchor bolts, etc. . . . designed to be adaptable to either frame or masonry construction. Maximum standard extension 10' from face of backstop board to wall. Furnished in Antique Bronze finish except for backboard assembly painted in white enamel. Steel fan-shaped board is standard.



SERIES NO. 260

Wall attached, side fold type furnished complete including all mounting fittings, wall anchor boards, anchor bolts, etc. . . . designed so that when unit is folded backboard is parallel to the wall . . . adaptable to either frame or masonry construction. Maximum standard extension 10'. Furnished in Antique Bronze finish except backboard assembly which is finished in white enamel. Steel fan-shaped board is standard.

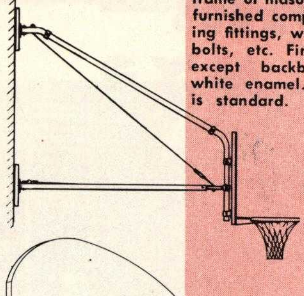


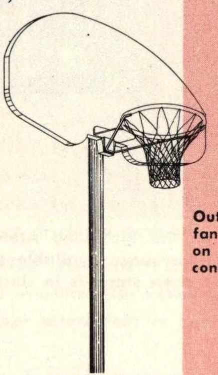
MODEL NO. 50

The only complete and rigid volley ball post that doesn't require any additional support cables, floor hooks or screw anchors, or heavy floor plates to support it. Its design permits use in either new or old schools having wood or tile floors, in addition to being used outdoors, providing year-round use. Symetrical design eliminates RIGHT or LEFT Hand post so additional nets and posts can be added later, easily erected. Complete specifications contained in bulletin No. 31058P1.

SERIES NO. 350

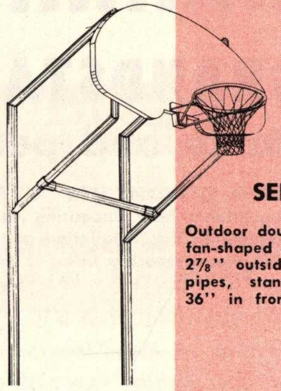
General purpose backstop designed principally for use where backboard is located in path of a folding partition, or to be used as a wall modified unit where mounting to a wall presents a problem. Maximum wall extension limited to 12' Adaptable to either frame or masonry constructed walls . . . furnished complete including all mounting fittings, wall anchor boards, anchor bolts, etc. Finished in Antique Bronze except backboard assembly painted white enamel. Steel fan-shaped board is standard.





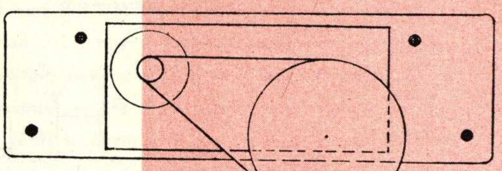
SERIES NO. 500

Outdoor single post backstop, all steel fan-shaped backboard mounted flush on 3½'' outside diameter pipe set in concrete.



SERIES NO. 550

Outdoor double post backstop, all steel fan-shaped background mounted on (2) 2⅞'' outside diameter vertical support pipes, standard backboard extended 36'' in front of vertical supports.



ELECTRIC WINCH

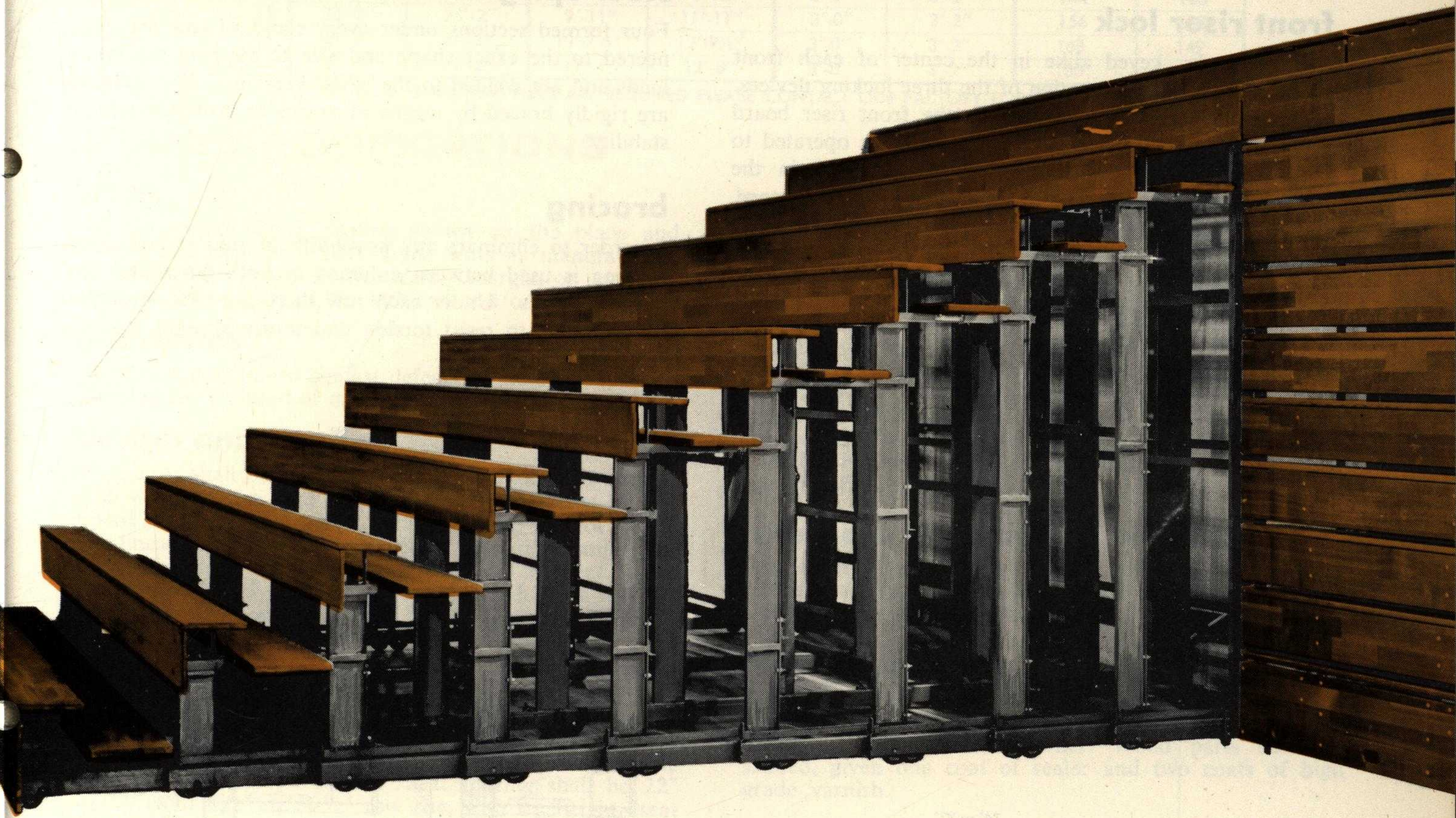
Designed and manufactured in 2 models — one specifically made to raise and lower Series No. 100 and 130 basketball backstops. ''Remo - Drive Model'' and the other especially designed to raise and lower Series No. 200 basketball backstops. ''Electro-Drive Model'' equipped with single phase 60 cycle ballbearing 1/3 HP motor, 1725 rpm . . . until reversible to easily raise and lower backstop unit . . . ball-thrust-bearings provide smooth operation.

BERLIN CHAPMAN CO.
Berlin • Wisconsin

Litho in U.S.A.

Eska

TELESCOPIC GYM SEATS



OPERATION

ESKA Rolling Gym Stands operate on the telescoping principle, requiring only one continuous operation for opening or closing. Simplified moving parts, few in number, permit manual operation with ease. Straight-line tracking and large oilless, non-marking wheels contribute to ease of operation.

DESIGN

The steel supporting structure is precision engineered and is completely self-supporting in open or closed positions. Any number of rows can be locked open for use as required. Positive safety locking can be accomplished in any operating position.

SAFETY

ESKA Gym Stands are designed to meet nationally recognized codes covering spectator seating.

SEAT BOARDS AND FOOT BOARDS

Choice of edge laminated fir, B or better grade, edge laminated pine, or hardboard faced fir, finished at the factory according to specifications.

COMFORT

Choice of seat-spacing dimensions, properly sloped seats, ample toe and heel room and other features give the greatest possible seating comfort.

ESKA PRODUCTS, INC., SCOTTDALE, GEORGIA

TYPICAL CONSTRUCTION DETAILS

materials

ESKA Gym Seats are constructed for 22″ or 24″ seat centers, and with 8½″ or 10½″ row rise. Seat to foot board height (leg height) is 17″. Special seat rise is available when line-of-sight conditions require it.

Wood members are top grade selected lumber. Seat boards are 1-1/16″ x 9½″, foot boards are 1-1/16″ x 10⅞″ riser boards are ¾″ x 8¼″.

front riser lock

Cylinder locks, keyed alike in the center of each front riser board, control the action of the three locking devices. When the cylinder lock is opened, the front riser board can be raised and the gym seats can then be operated to close or open to any desired position. Locking in the desired position is effected by depressing the riser board, thereby engaging the rubber friction brakes operating against the floor.

Top riser board shall be hinged to provide a basket ball deflection board when seats are in nested position.

All gym seat parts to be finished at the factory as specified.

wheels and carriages

Two large wheels under each column (eight wheels under each row) are housed in a formed steel carriage. All carriages are interlocked, thereby locking the wheels in place under the columns and transferring the spectator load directly to the floor. Rubber wheels are oilless and non-marking.

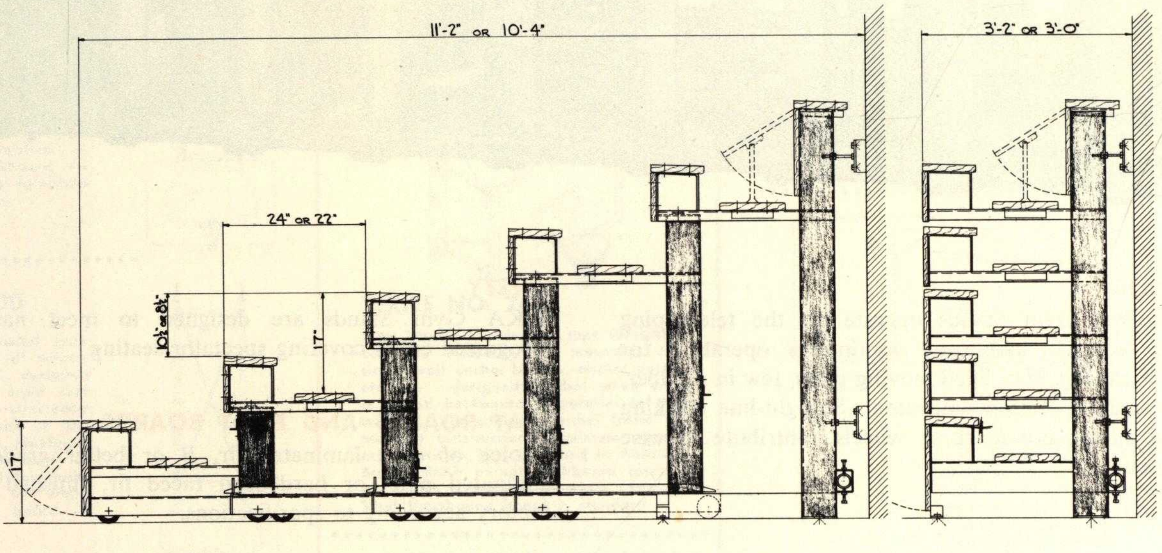
steel uprights

Four formed sections under every standard row are engineered to the exact shape and size to support maximum loads and are welded to the wheel carriages. The columns are rigidly braced by means of angles to insure maximum stability.

bracing

In order to eliminate any possibility of side or end sway, bracing is used between columns in both horizontal and vertical planes. Under each row there are two horizontal angle braces to resist torsion and insure straight tracking as units telescope.

dimension details



Extended Cross Section

Nested

capacities and dimensions

TABLE OF DIMENSIONS AND CAPACITIES

No. Rows	Extended Depth		Height to Top Seat		Nested Depth		Seating Capacity 16'0" Section	
	22" Spac.	24" Spac.	8½" Rise	10½" Rise	22" Spac.	24" Spac.	16" Per Seat	18" Per Seat
3	4'-10"	5'-2"	2'-10"	3'-2"	3'-0"	3'-2"	36	32
4	6'-8"	7'-2"	3'-6½"	4'-0½"	3'-0"	3'-2"	48	42
5	8'-6"	9'-2"	4'-3"	4'-11"	3'-0"	3'-2"	60	53
6	10'-4"	11'-2"	4'-11½"	5'-9½"	3'-0"	3'-2"	72	64
7	12'-2"	13'-2"	5'-8"	6'-8"	3'-0"	3'-2"	84	74
8	14'-0"	15'-2"	6'-4½"	7'-6½"	3'-0"	3'-2"	96	85
9	15'-10"	17'-2"	7'-1"	8'-5"	3'-0"	3'-2"	108	96
10	17'-8"	19'-2"	7'-9½"	9'-3½"	3'-0"	3'-2"	120	106
11	19'-6"	21'-2"	8'-6"	10'-2"	3'-0"	3'-2"	132	117
12	21'-4"	23'2"	9'-2½"	11'-0½"	3'-0"	3'-2"	144	128
13	23'-2"	25'-2"	9'-11"	11'-11"	3'-0"	3'-2"	156	138
14	25'-0"	27'-2"	10'-7½"	12'-9½"	3'-0"	3'-2"	168	149
15	26'-10"	29'-2"	11'-4"	13'-8"	3'-0"	3'-2"	180	160

IF OTHER THAN STANDARD RISES ARE REQUIRED PLEASE CONTACT OUR FACTORY FOR RECOMMENDATIONS.

ESKA SPECIFICATIONS

scope

All Telescopic Gymn Seating shown on the plans and as specified shall be ESKA Gym Seats as manufactured by ESKA Products, Inc., Scottdale, Georgia, or approved equal in the opinion of the architect and/or owner.

guarantee

Product is guaranteed against defects in material or workmanship for a period of one year from date of installation.

design and loading

Gym seats shall be designed to support in addition to their own weight a live load of 120-lbs. per linear foot of seat board and foot board, and a horizontal sway load of 24-lbs. per linear foot of seat board. Steel parts only considered in figuring load stresses. Gym seats are to meet Safety Codes established by A. S. A. Stresses in lumber will not exceed those recommended by the U. S. Forest Products Laboratory.

dimensions

Nested depth of all rows shall be 36" for 22" seat spacing, and 38" for all rows 24" seat spacing. On wall attached units the distance from front of top row to wall shall be 12", or as conditions permit. Seat spacing shall be 22" or 24" with 8½" or 10½" row rise, with leg height (seat to footboard) to be standard 17". Horizontal toe room shall be a minimum of 6" beyond edge of footboard, and heel room about 3" from footboard. For extended depth of all rows, see schedule of dimensions. Standard sections are 16'0" long maximum. Units of lesser lengths can be furnished as required.

construction

The steel understructure shall be steel of rolled and formed sections, designed, engineered and fabricated to form a rigid self-supporting frame. Each row of each full length section shall be supported by four steel columns welded to the formed steel wheel housing. Each column shall be supported by two heavy duty oilless 4" diameter flat-faced non-marking wheels enclosed in a formed metal housing. Operating latches attached to the wheel housing shall lock each row with respect to the other. Each section of seats shall be equipped with friction type locks operated by the front riser board which will permit one or more rows to be locked open. All units shall be attached to the wall and floor so that possible movement of the floor will not disturb the proper alignment of the installation.

wooden members

Seatboards shall be 1-1/16" thick by 9½" wide. Footboards shall be 1-1/16" thick by 10⅞" wide. Riser boards shall be ¾" thick by 8¼" wide, except top and bottom riser boards. Top riser board shall be hinged to form a basketball deflection board over the closed cabinet of wall attached sections. Bottom riser board shall be hinged and provided with hand holds for operating the gym seat. When gym seats are closed, risers and seatboards shall form a flush face of a vertical cabinet. The wooden members mentioned above can be furnished in laminated clear Douglas Fir with eased edges, laminated pine, or clear Douglas Fir.

alternate for wooden members

Seatboards, footboards and riserboards can be furnished in the same approximate dimensions of flat grained West Coast Douglas Fir Hardboard Faces.

finish steel

Metal parts shall be properly cleaned after fabrication and given one coat of best quality enamel of color as selected by the architect and/or owner. Wood parts shall be sanded, given one coat of sealer and two coats of high grade varnish.

special accessories

The following accessories shall be furnished as requested:

Guard Rails: Guard rails of not less than 1⅜"-inches O. D. steel tubing shall be installed on the open ends of all gym seats.

End Panels: End panels shall be installed on all exposed ends of wall-attached gym seats.

Aisle Steps: Aisle steps 36-inches long and 12-inches wide shall be provided in areas between seat boards and risers to effect a vertical aisle.

Removable Seat and Foot Boards: Removable seat and foot boards shall be provided, as required, for additional seating capacity between sections which must be kept separated because of doors, partitions, pilasters, etc.

Scorer's Table: A scorer's table with a tilted 8-foot by 16-inch plywood top and having a retaining lip on the lower edge shall be provided. No bolts shall be required for assembly.

Note: Nothing above shall prohibit ESKA Products from offering latest design innovations.

STEELCO GRANDSTANDS and BLEACHERS

planning service

Let our planning engineers solve your seating problem. A letter or post card outlining your requirements will receive careful attention and full information will be sent you promptly. All services without obligation, of course.

To assist us to properly design and interpret your needs, please supply the following information:

RT PORTABLE BLEACHERS

- Rows High (Available 2 to 15)
- Length or number of sections
- Grouping of sections
- Number of aisles
- Number of seats
- Seating area available
- Special conditions, if any

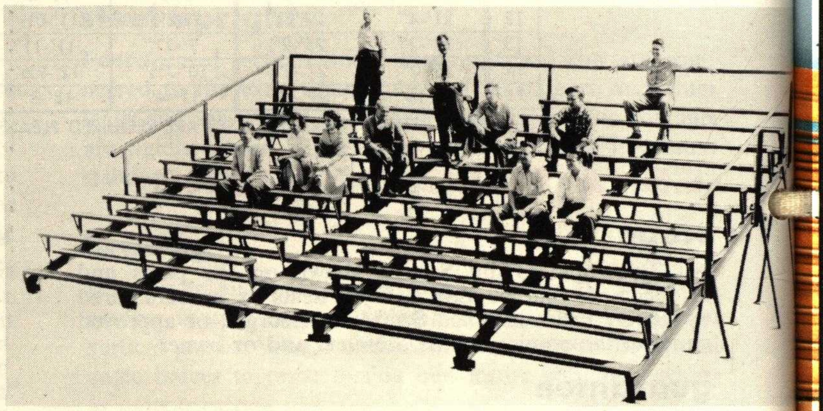
PG PERMANENT GRANDSTAND

- Rows High (Available 10 to 26)
- Length or number of sections
- Grouping of sections
- Number of aisles
- Number of seats
- Seating area available
- Press Box size, if required
- Will you require entrance from rear?
- Is site level ground?

general data

Salvage Value: Stands can be disassembled at small cost and re-erected at a different location if this becomes necessary or desirable. This is a feature not possible with other types of construction.

Low Up-Keep: No maintenance required except occasional coat of paint which will preserve them indefinitely.



TYPICAL STEELCO INSTALLATIONS

ALABAMA
City of Dothan
Alabama Polytechnic Institute, Auburn

FLORIDA
Arcadia High School, Arcadia
Sebring High School, Sebring
Winter Haven High School, Winter Haven
City of Wachula
Auburndale High School, Auburndale
Florida State University, Tallahassee
City of Fort Lauderdale

GEORGIA
Chamblee High School, Chamblee
Russell High School, East Point
Avondale High School, Avondale Estates
City of Albany
South Georgia College, Douglas
Rossville High School, Rossville
U. S. Army, Camp Gordon
U. S. Army, Fort Benning
City of Douglas
Dublin High School, Dublin
Tucker High School, Tucker
U. S. Army, Fort McPherson
Parks Dept., City of Atlanta
Kiwanis Club, Forest Park
Druid Hills High School, Atlanta
City of Thomasville
Standard Club, Atlanta

LOUISIANA
Southwestern Louisiana Institute, Lafayette

MISSOURI
Board of Education, El Dorado Srings
City of Chillicothe

NORTH CAROLINA
East Carolina Teachers College, Greenville
U. S. Army, Fort Bragg

SOUTH CAROLINA
Presbyterian College, Clinton
Alma Mills, Gaffney
Wagener Public Schools, Wagener

TENNESSEE
City of Memphis
City of Knoxville
Athens Lions Club, Athens

TEXAS
City of Amarillo
City of Seguin
City of Palestine

VIRGINIA
Bristol Baseball Club, Bristol
Emory and Henry College, Emory
Coeburn High School, Coeburn
City of Suffolk
City of Petersburg
St. Charles High School, St. Charles
City of Norton

WEST VIRGINIA
Princeton High School, Princeton
Shady Springs High School, Shady Springs
Sophia High School, Sophia
Stoco High School, Stoco

OKLAHOMA
Ardmore Baseball Club, Ardmore

MISSISSIPPI
City of Jackson

KENTUCKY
U. S. Army, Fort Campbell

Eska PRODUCTS, INC.
BOX 828 • SCOTTDALE, GA.

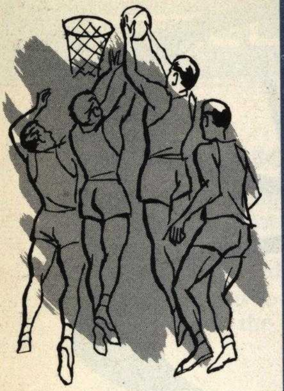
Phone:
DR. 7-8614
(Atlanta, Ga.)

A.I.A. File No. 35-F-11

23j
Ho

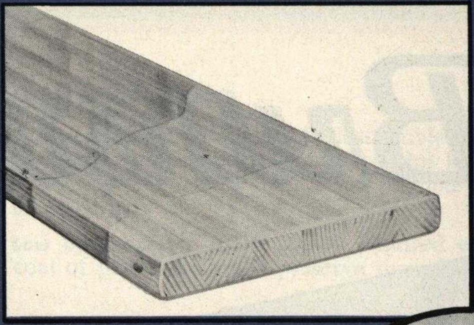
Brunswick

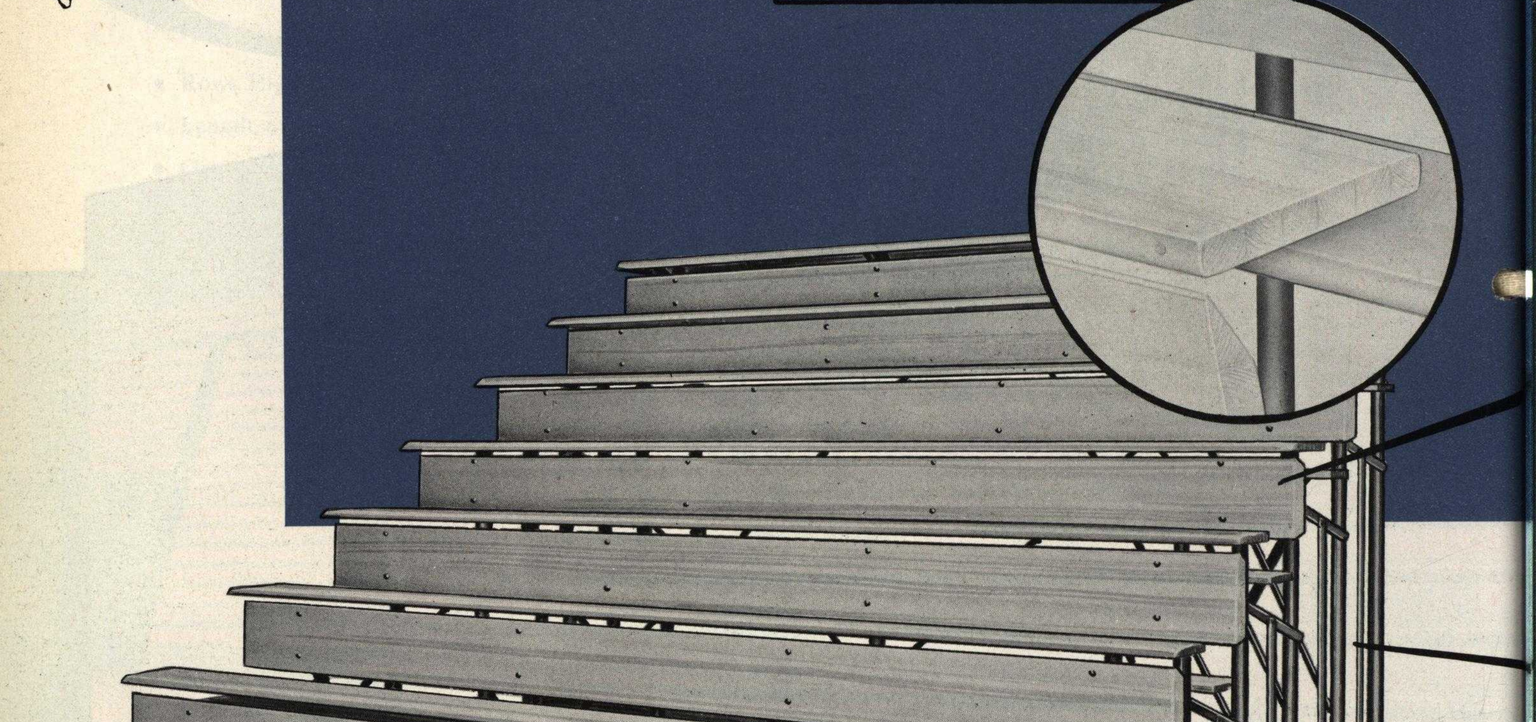
FOLDING GYMNASIUM SEATING



RESILIENT FINISH

Prior to waxing, all unitboards are carefully sanded and factory finished with two coats of the same Urea synthetic finish used on Brunswick bowling alleys. This unique finish literally flexes under impact.





Brunswick

FOLDING GYMNASIUM SEATING

- Custom design for maximum utility
  - Superior engineering for greater comfort
- Superior materials for longer life
  - Superior construction for minimum maintenance

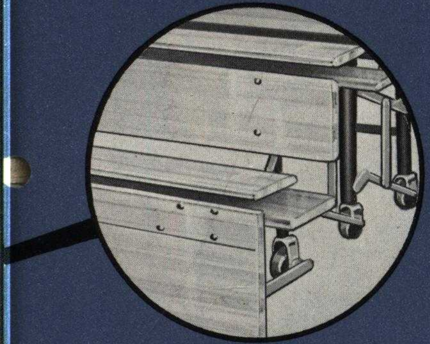
LAMINATED BOARDS

Seatboards and footboards edge laminated under Brunswick's own factory supervision—another exclusive—are made from 1½″ vertical grain Douglas Fir. Vertical, edge grain laminated under hydraulic pressure to provide greater strength. And surface-pressure glued floating dowels prevent checking or splitting. Unique assurance of lifetime, warp-free service.

GREATER SEATING FACILITIES... MAXIMUM SPACE UTILITY

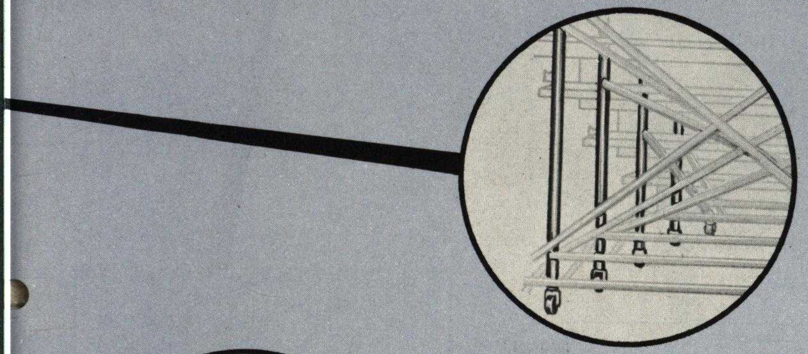
Any school's gymnasium seating problem... whether it be the largest or the smallest, receives the same high quality construction, service and engineering.

Every seating unit installed by Brunswick is carefully tested to insure consistent safe operation and performance from start to finish. Each seating unit is subjected to exacting requirements and complete supervision of Brunswick gymnasium experts. No matter what your gymnasium seating requirements may be, Brunswick brings maximum revenue and seating capacity to *your* school.



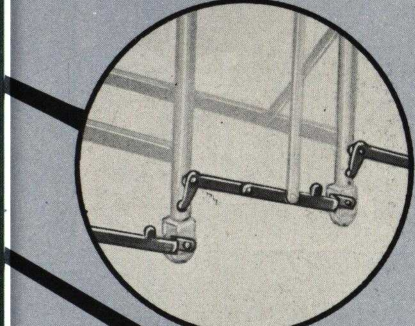
SKIRTBOARDS

All Brunswick seating is equipped with skirtboards designed to prevent basketballs and other objects from becoming lodged under the unit. And in the closed position the skirtboards slope out to form a smooth, handsome enclosure for the entire unit.



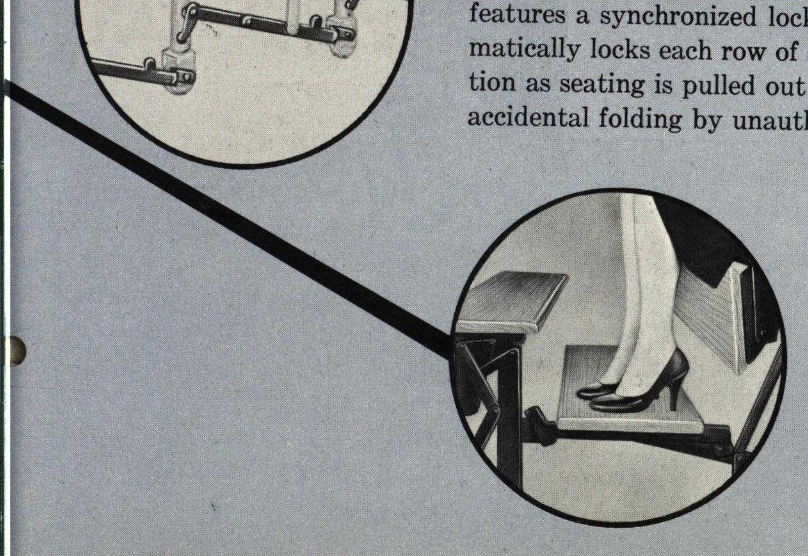
TUBULAR SUPPORT COLUMNS

Four column support assemblies for each full length sixteen foot seating unit provide maximum stability . . . allow construction for greater seating capacity. Each column is heavy gauge tubular steel to provide maximum strength. And all vertical supports are joined together with steel to steel crossbraces to prevent side sway.



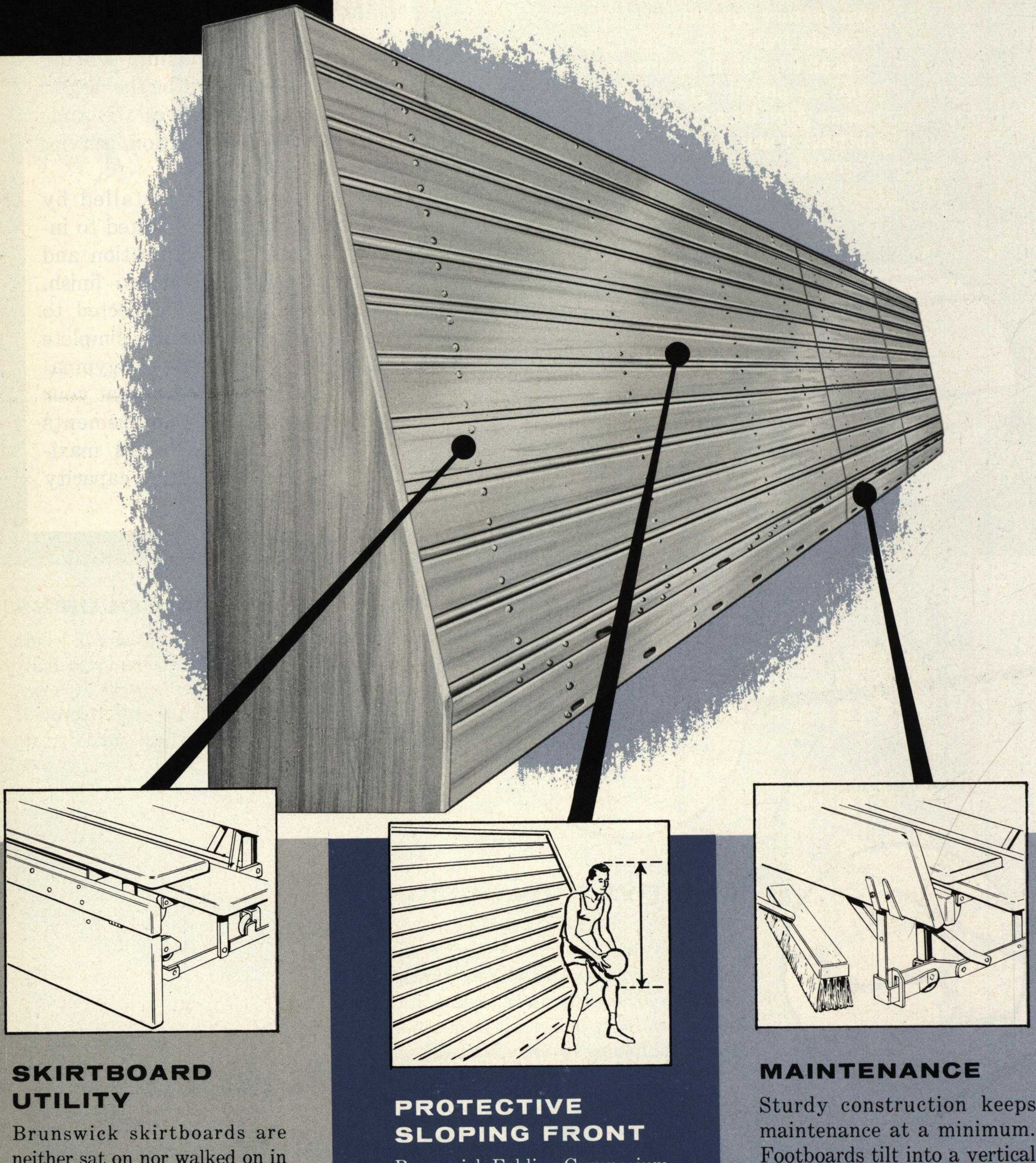
POSITIVE ROW LOCKING

Brunswick's positive row locking provides maximum versatility and protection in gymnasium seating. It features a synchronized locking principle that automatically locks each row of seating in the open position as seating is pulled out from the wall. Prevents accidental folding by unauthorized persons.



FOOT FREEDOM

Uniquely constructed skirtboards slope a full 2½″ back from the leading edge of the seatboard to allow more comfortable seating and greater provision for leg and foot freedom. The space economy of Brunswick's exclusive skirtboard design provides maximum foot freedom in a minimum space . . . provides room where it counts—for construction of additional rows of seating.



SKIRTBOARD UTILITY

Brunswick skirtboards are neither sat on nor walked on in the open position, thus assuring a clean, smooth surface in the closed position when the scuff and scratch-free skirtboards form the front of the unit. Just like a handsome piece of living room furniture!

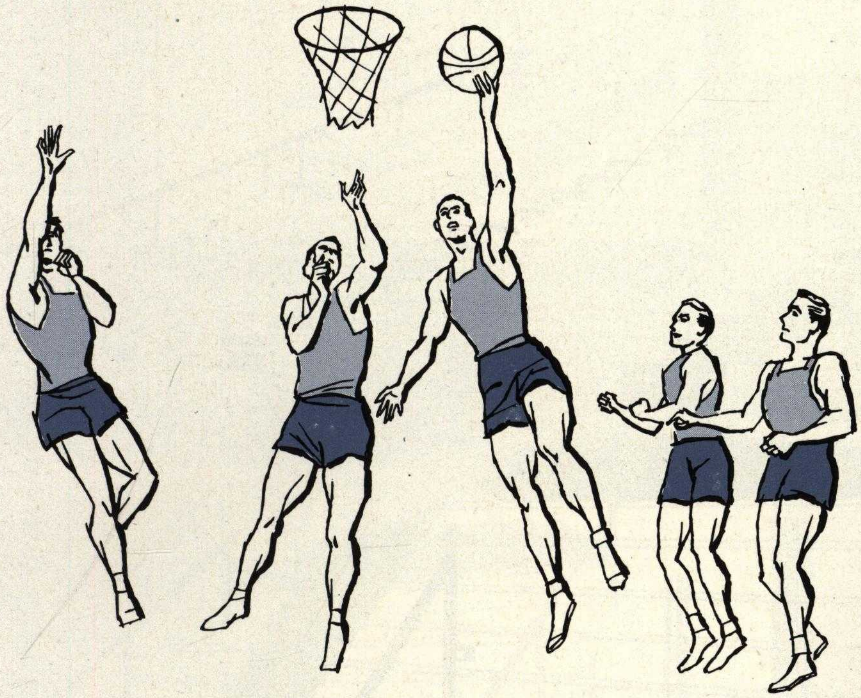
PROTECTIVE SLOPING FRONT

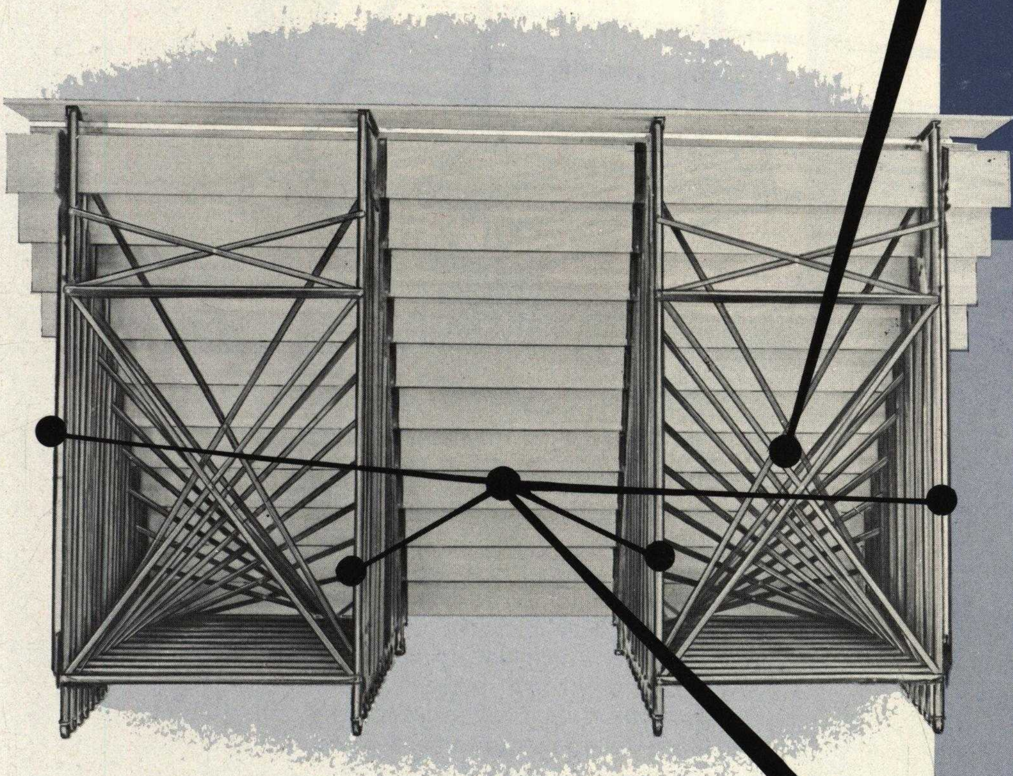
Brunswick Folding Gymnasium Seating forms a solid, inclined front with no protruding edges or parts to cause injury in the event of a fall or collision.

MAINTENANCE

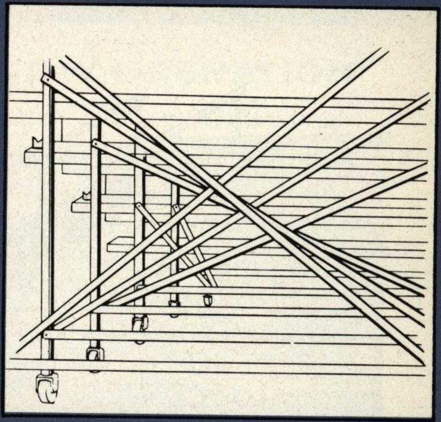
Sturdy construction keeps maintenance at a minimum. Footboards tilt into a vertical position when the unit is being closed, allowing miscellaneous objects to fall *in front* of the unit for easy recovery. And wall attachments eliminate the need for troublesome floor anchors.

HANDSOME, RUGGED AND DURABLE



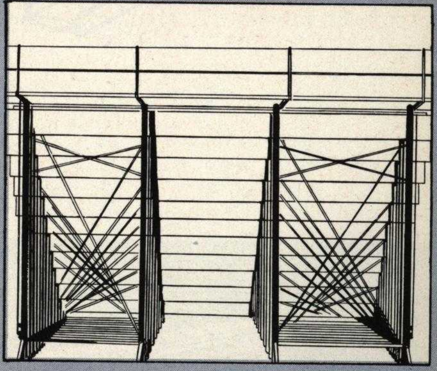


Brunswick Folding Gymnasium Seating is quality engineered for superior strength. Its heavy gauge steel and scaffold-type understructure have made it the architects' favorite.



CROSS-BRACED UNDERSTRUCTURE

All vertical, tubular support column assemblies are connected with heavy duty "X" type cross bracing to provide additional strength and rigidity under a live load, and to compensate for sway factor.

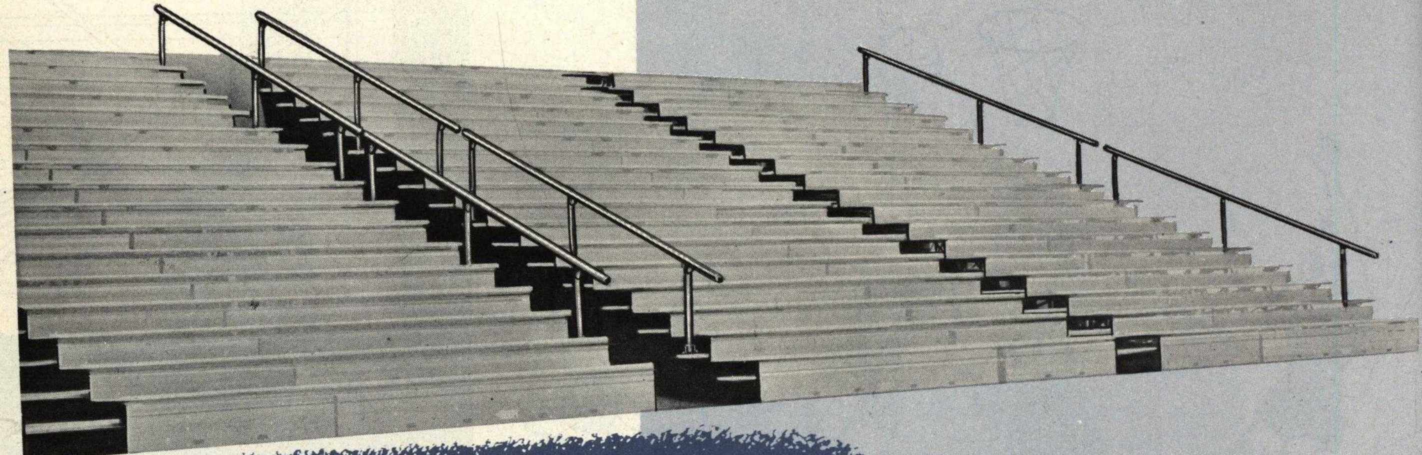


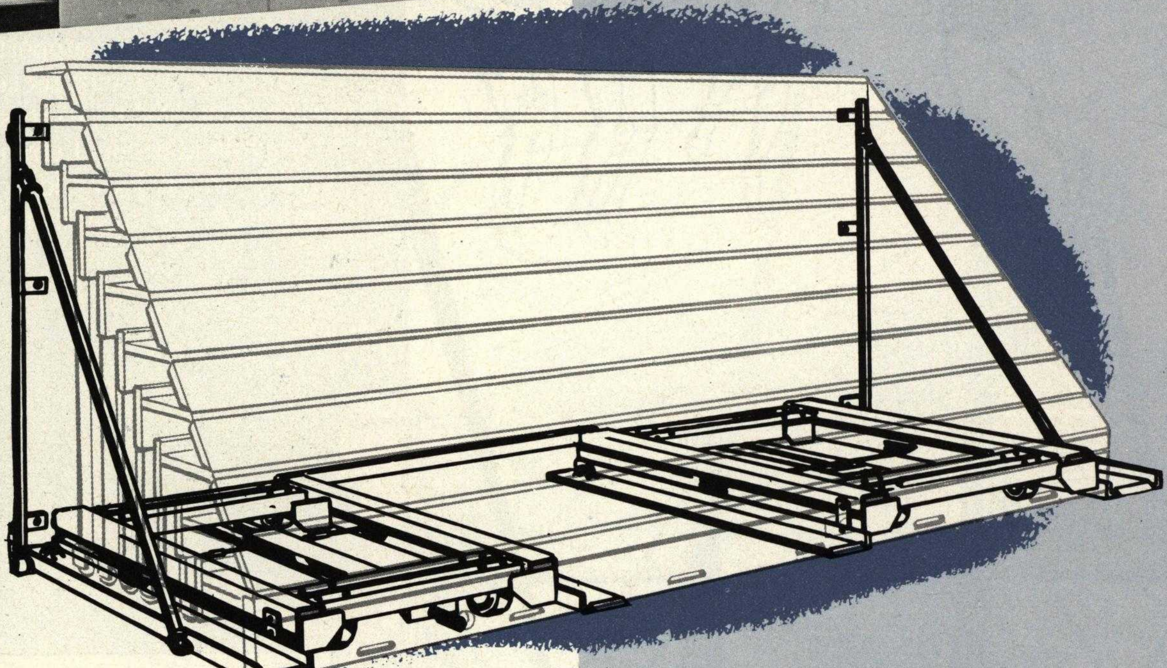
EVEN LOAD DISTRIBUTION

The live load of each sixteen foot unit is evenly distributed and supported by four tubular steel support assemblies . . . a plus factor of safety that is built into every unit. No loads requiring special support are imposed on wall structure.

Brunswick

THE QUALITY STANDARD

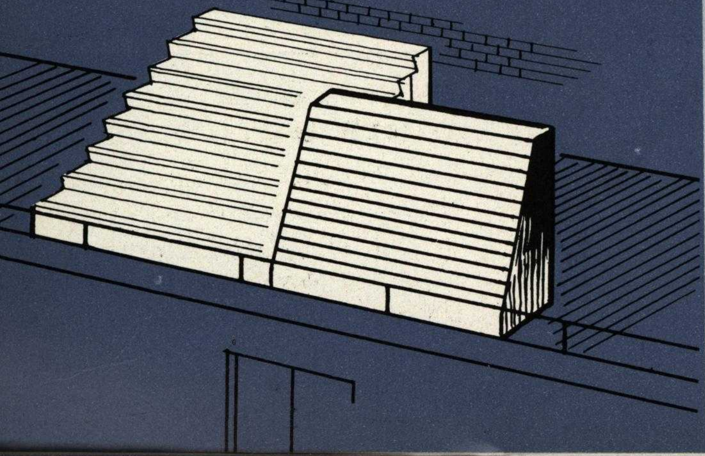


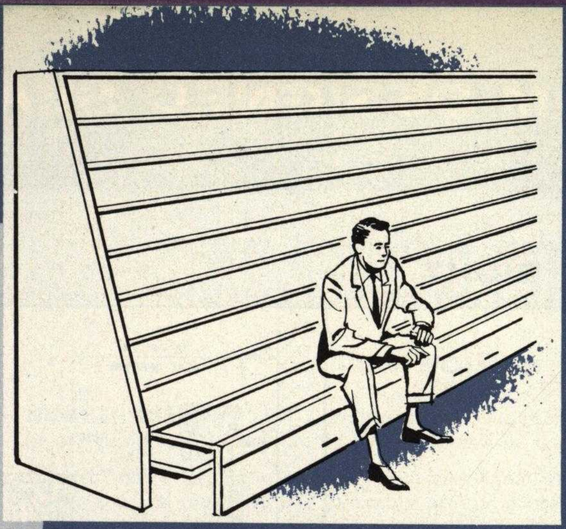


SELF-CONTAINED MOBILE UNIT

Brunswick's new self-contained mobile unit provides the ultimate in gymnasium seating flexibility. This unique portable unit features a self-contained mechanical lifting system to provide not only easy mobility and versatility, but maximum protection to the gymnasium floors as well. What's more, this compact unit is ideal for gymnasium balconies, where space is at a premium . . . actually allows the balcony to be used as an extra gymnasium and in the closed position it serves as a visual divider for added privacy.

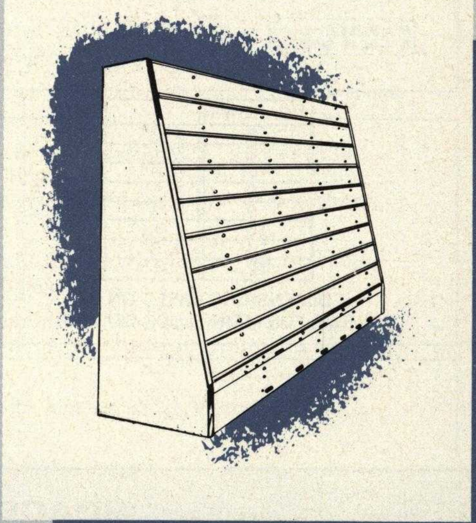
Ideal for gymnasium balconies where space is at a premium, Brunswick's self-contained mobile unit allows the balcony to be used as an extra gymnasium. And in the closed position it serves as a visual divider for additional privacy.





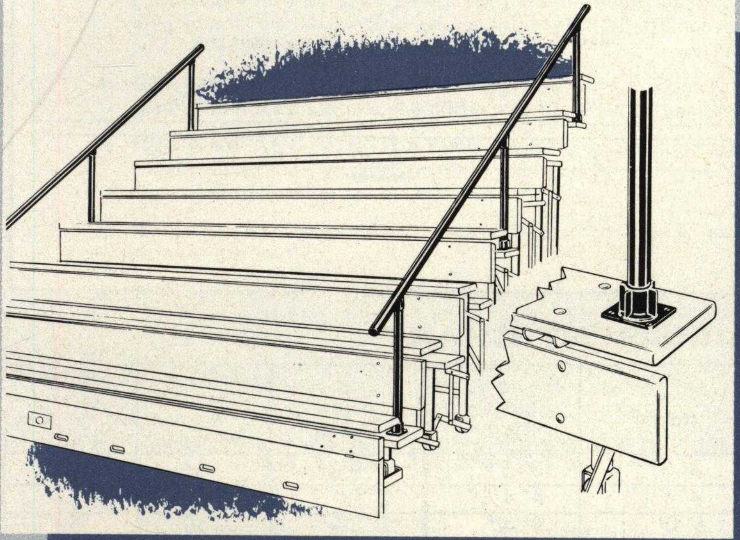
SINGLE ROW OPERATION

Unique construction of Brunswick Folding Gymnasium Seating allows individual operation of one . . . two . . . or as many rows as are needed. With Brunswick *automatic row locking,* the desired number of rows may be quickly and easily extended and locked into place.



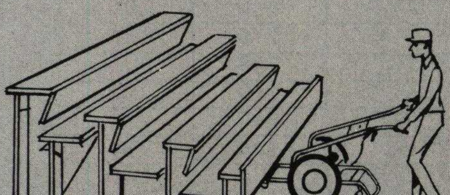
END PANELS

End panels on all Brunswick Folding Gymnasium Seating complete the protective enclosure and give the seating unit a clean, handsome, compact look as well.



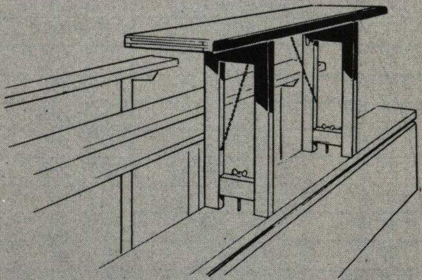
END RAILS

Removable end rails are also available. They can be quickly and easily inserted into built-in sockets to provide an added safety feature for the opened unit. And when not in use they can be conveniently stored within the unit.



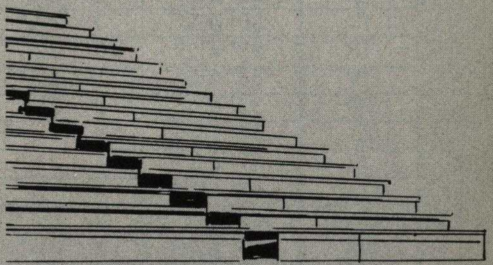
MOTO-FOLDER

Brunswick's new Moto-Folder supplies the "muscle" which folds the entire structure into a compact unit in one continuous movement. Operates quickly, easily.



TIMER'S TABLE

The timer's table is another Brunswick plus. It is easily attached to any row, giving the scorer comfortable seating on the row above.

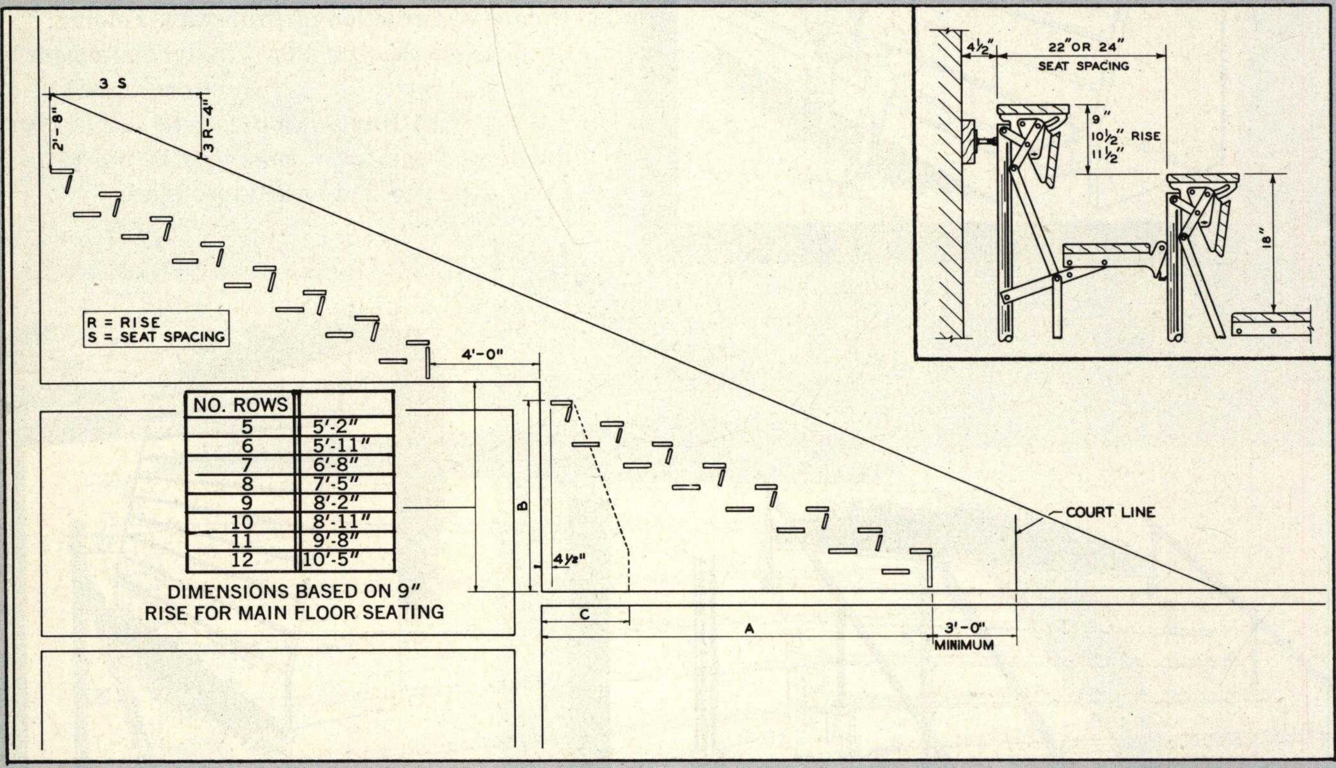


AISLES

Brunswick offers sure-tread, stadium-type aisles to implement and safeguard spectator control movement.

Brunswick CUSTOM DESIGNED SEATING

LINE OF SIGHT


3 S
2'-8"
3 R-4"
R = RISE
S = SEAT SPACING
4'-0"
NO. ROWS
5 5'-2"
6 5'-11"
7 6'-8"
8 7'-5"
9 8'-2"
10 8'-11"
11 9'-8"
12 10'-5"
DIMENSIONS BASED ON 9" RISE FOR MAIN FLOOR SEATING
B
4½"
C
A
3'-0" MINIMUM
COURT LINE
4½"
22"OR 24" SEAT SPACING
9" 10½" 11½" RISE
18"

SPACE REQUIREMENT CHART

Row	A 22" Depth Open	A 24" Depth Open	B Height 9"	Rise B Height 10½"	B Height 11½"	C Depth Closed	Seating Capacity 16" Per Seat 16' Unit	Seating Capacity 18" Per Seat 16' Unit
3	4' 10¼"	5' 2¼"	3' 0"	3' 3"	3' 5"	1' 9⅛"	36	32
4	6' 8¼"	7' 2¼"	3' 9"	4' 1½"	4' 4½"	2' ½"	48	42
5	8' 6¼"	9' 2¼"	4' 6"	5' 0"	5' 4"	2' 3⅞"	60	53
6	10' 4¼"	11' 2¼"	5' 3"	5' 10½"	6' 3½"	2' 7¼"	72	64
7	12' 2¼"	13' 2¼"	6' 0"	6' 9"	7' 3"	2' 10⅝"	84	74
8	14' 0¼"	15' 2¼"	6' 9"	7' 7½"	8' 2½"	3' 2"	96	85
9	15' 10¼"	17' 2¼"	7' 6"	8' 6"	9' 2"	3' 5⅜"	108	96
10	17' 8¼"	19' 2¼"	8' 3"	9' 4½"	10' 1½"	3' 8¾"	120	106
11	19' 6¼"	21' 2¼"	9' 0"	10' 3"	11' 1"	4' ⅛"	132	117
12	21' 4¼"	23' 2¼"	9' 9"	11' 1½"	12' ½"	4' 3½"	144	128
13	23' 2¼"	25' 2¼"	10' 6"	12' 0"	13' 0"	4' 6⅞"	156	138
14	25' 0¼"	27' 2¼"	11' 3"	12' 10½"	13' 11½"	4' 10¼"	168	149
15	26' 10¼"	29' 2¼"	12' 0"	13' 9"	14' 11"	5' 1⅝"	180	160
16	28' 8¼"	31' 2¼"	12' 9"	14' 7½"	15' 10½"	5' 5"	192	170
17	30' 6¼"	33' 2¼"	13' 6"	15' 6"	16' 10"	5' 8⅜"	204	181
18	32' 4¼"	35' 2¼"	14' 3"	16' 4½"	17' 9½"	5' 11¾"	216	192
19	34' 2¼"	37' 2¼"	15' 0"	17' 3"	18' 9"	6' 3⅛"	228	202
20	36' 0¼"	39' 2¼"	15' 9"	18' 1½"	19' 8½"	6' 6½"	240	213
21	37' 10¼"	41' 2¼"	16' 6"	19' 0"	20' 8"	6' 9⅞"	252	224
22	39' 8¼"	43' 2¼"	17' 3"	19' 10½"	21' 7½"	7' 1¼"	264	234
23	41' 6¼"	45' 2¼"	18' 0"	20' 9"	22' 7"	7' 4⅝"	276	245
24	43' 4¼"	47' 2¼"	18' 9"	21' 7½"	23' 6½"	7' 8"	288	256
25	45' 2¼"	49' 2¼"	19' 6"	22' 6"	24' 6"	7' 11⅜"	300	266
26	47' 0¼"	51' 2¼"	20' 3"	23' 4½"	25' 5½"	8' 2¾"	312	277
27	48' 10¼"	53' 2¼"	21' 0"	24' 3"	26' 5"	8' 6⅛"	324	288
28	50' 8¼"	55' 2¼"	21' 9"	25' 1½"	27' 4½"	8' 9½"	336	298
29	52' 6¼"	57' 2¼"	22' 6"	26' 0"	28' 4"	9' ⅞"	348	309
30	54' 4¼"	59' 2¼"	23' 3"	26' 10½"	29' 3½"	9' 4¼"	360	320

If other than 9, 10½ or 11 inch rises are required please contact our factory or agent for recommendations

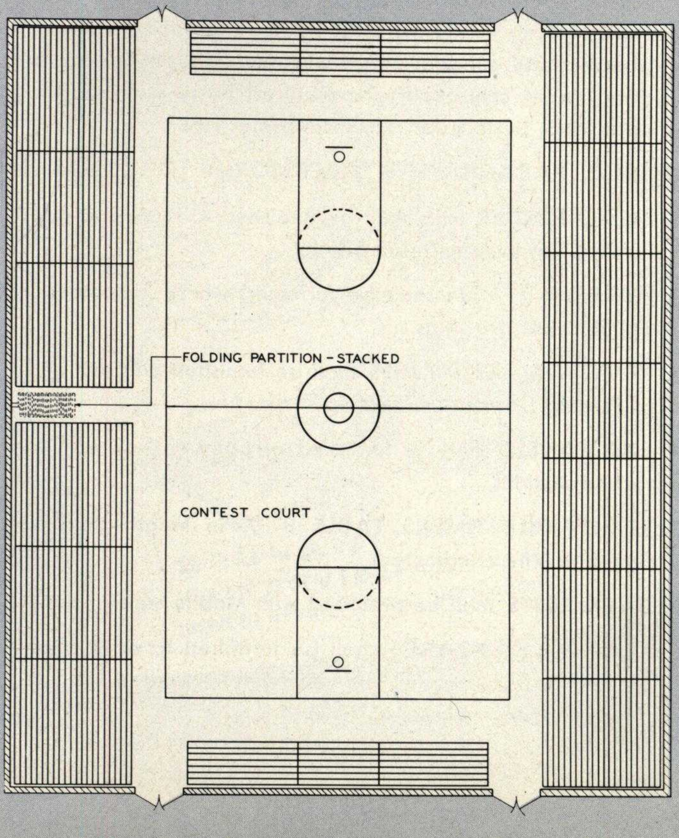
TO MEET EVERY REQUIREMENT

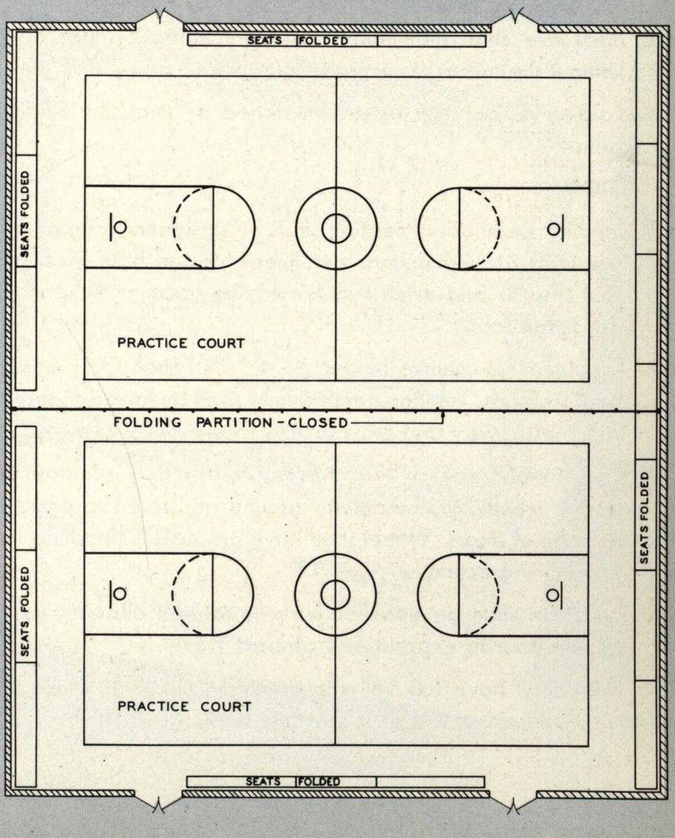
YOUR FOLDING GYMNASIUM SEATING BRUNSWICK PLANNING GUIDE

TEN POINTS TO CONSIDER

- **NUMBER OF COURTS**—Enrollment demands dictate early determination of whether one playing court will be adequate or whether folding partitions will be required to provide two or more practice courts.
- **COURT SIZE**—Regulation court sizes are as follows: College—94′x50′; High School—84′x50′ (contest courts require minimum 3′0″ clearance around court boundaries. When seats adjoin the court, 4′0″ should be allowed between the court boundary and the first seat).
- **SEATING CAPACITY**—Student enrollment provides the basic seating requirement, which should then be modified in terms of community interest in the sport.
- **SPACE ECONOMY**—Since 2.5 sq. ft. per person is a commonly accepted seating allowance, it becomes more economical to plan for Brunswick unit standard lengths of 8′0″, 10′0″, 12′0″, 14′0″ and 16′0″.
- **DOORWAYS**—Since improperly located doorways may result in a 15-20% loss of "good seats", plan to locate doorways in space adjacent to corners—preferably end-walls.
- **WALL CONSTRUCTION**—Construction utilizing piers, pilasters, ducts or furring should be avoided in gymnasium interior areas where seating is to be installed. Valuable seating space can be saved by utilizing filler boards across the front of the folding partition door stack. (To determine the necessary stack opening, add 12″ to the folding partition door width.)
- **SEATING ATTACHMENT**—To allow full freedom for contraction and expansion of floating floors, folding gymnasium seating units should be wall attached rather than floor-anchored.
- **HEATING AND VENTILATING**—Seating units allow a 4½″ wall-clearance for narrow grill-type radiators. Proper circulation of radiator air is provided by rail-type board construction available on Brunswick Folding Gymnasium Seating.
- **WINDOWS**—In the initial fenestration design, plan to have window sills located above the top row of gymnasium seating.
- **FUTURE NEEDS**—When budget demands restrict initial installation of folding gymnasium seating to a minimum, it is wise to provide the maximum number of rows and a *limited* number of seating sections rather than a maximum number of seating sections and a *limited* number of rows. (It is impossible to add rows later.) End-wall space may also be reserved for future seating additions.

GYMNASIUM PLAN TYPES





FOLDING GYMNASIUM SEATING SPECIFICATIONS

. GENERAL SCOPE:

A. Folding Gymnasium Seating shown in Architect's plans and specifications shall be as manufactured by The Brunswick-Balke-Collender Company, Kalamazoo, Michigan, or equal as approved by the Architect.

B. Folding Gymnasium Seating shall be delivered and installed by manufacturer. The entire installation shall be guaranteed against faulty materials, workmanship and operation for a period of one (1) year.

. EQUIPMENT REQUIREMENTS:

A. Furnish*____________Units as indicated on drawings and/or as scheduled below:

1. **__________Sections__________Rows High,________'__________" Total Length, (**9", 10½", 11½"**) Rise, (**22" or 24"**) Depth.

2. **__________Sections__________Rows High,________'__________" Total Length, (**9", 10½", 11½"**) Rise, (**22" or 24"**) Depth.

*Standard Units, Reverse Fold Units, Self Contained Mobile Units.

**A section is a continuous run of one or more adjacent Units.

B. ACCESSORIES:

Furnish accessories as indicated on drawings and/or as scheduled below:

1.____

2.____

3. OPERATION:

A. Units shall be equipped with cylinder locks keyed alike. All rows shall extend and fold in a continuous action. One or more rows to be extended as desired.

B. Each row shall individually and automatically lock open without the use of floor plates or shoes.

C. Folding action shall be accomplished by precision folding arms.

4. DESIGN:

A. Folding Gymnasium Seating shall be designed to support a live load of 120 pounds per lineal foot on both seat and foot boards and a horizontal swaying force of 24 pounds per lineal foot.

B. Tubular steel columns (4 per 16'-0" unit) shall form all upright supports. Tubular steel columns shall be joined together with metal sway and cross braces to prevent side sway.

C. Each support column shall have a heavy duty composition rubber wheel of 3" diameter ground and trued to prevent marring of floors. Wheel shall have an "OILITE" bushing for easy rolling action.

D. Each unit shall be attached directly to wall allowing gymnasium floor to expand and contract freely.

E. Units shall have full 18" chair height. Unit shall allow unrestricted movement of spectator's feet.

F. Units shall have skirt boards to close the area beneath seat boards to prevent basketballs lodging beneath units. When units are closed skirt boards shall form face of units, which shall slope up and back to protect athletic participants from injury.

G. Foot boards shall fold to vertical position causing debris to fall to floor. Tubular columns shall close in tandem to expose maximum floor space beneath units for removal of debris.

5. CONSTRUCTION:

A. Manufacturer shall fabricate steel understructure and all wood members in his factories.

B. Electric arc welding shall be utilized on all steel members. Welding shall be done by certified welders.

C. Seat boards, foot boards and skirt boards shall be vertical grain Douglas Fir fabricated from selected kiln dried lumber. Pitch pockets, knots, shake, wane and other defects not permitted. Seat and foot boards shall be 1¼" Thick before sanding. Seat boards shall be 9½" wide and foot boards shall be 11¼" wide.

Solid boards shall consist of individual rails edge laminated under pressure through use of electronic glue machines. Floating dowel pins shall be placed at ends of boards to prevent end splitting.

6. FINISH:

A. All steel understructure shall be bonderized before finishing. Metal parts shall be finished in DuPont Olive Green enamel No. 4458.

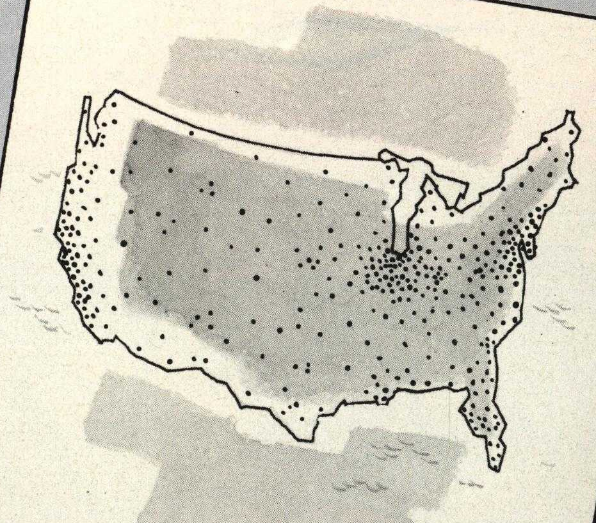
B. All wood parts shall be drum sanded, edges eased and final hand sanded before finishing. Finish shall consist of two (2) coats of Urea Based Synthetic finish on all finished sides of boards hand sanded between coats. The finish shall be dried under controlled temperatures. Paste wax shall be applied at Factory for maximum protection.

SECTION 2, PARAGRAPH B, ACCESSORIES (OPTIONAL):

1. **MOTO-FOLDER** units shall be furnished to close and open Folding Gymnasium Seating Units.
2. **AISLES** 3'-0" wide shall be furnished where indicated on Architectural drawings.
3. **REMOVABLE END RAILS** shall be furnished on open ends of Folding Gymnasium Seating sections.
4. **END PANELS** shall be furnished at open end of wall attached sections.
5. **REMOVABLE TIMERS TABLE** 8'-0" in length shall be furnished where indicated.
6. **BACK RESTS** shall be provided with Mobile units.
7. **REAR FILLER BOARDS** shall be furnished to close space between top seat board and wall where indicated. (Recommended when in excess of 10".)

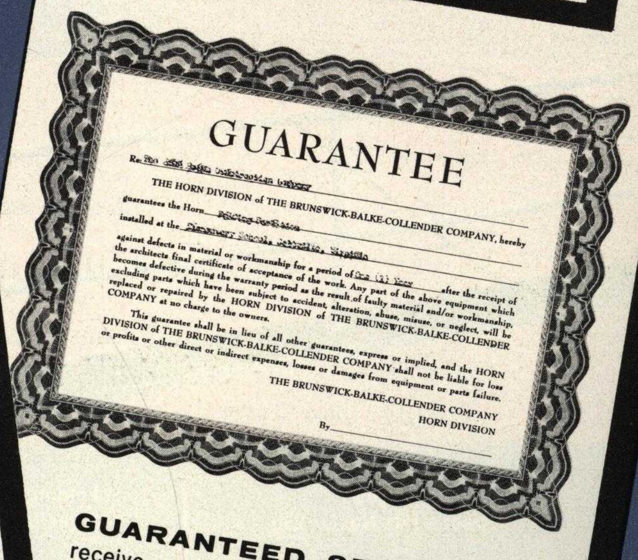
Brunswick PLANNING AND MAINTENANCE SERVICES HELP YOU CUSTOM DESIGN A SOLUTION TO ANY GYMNASIUM SEATING PROBLEM

PLANNING SERVICE—Brunswick maintains a staff of trained engineers for your convenience.



NATIONAL DISTRIBUTION—Local sales organizations to assist you with local planning problems.

BRUNSWICK TRAINED SUPERVISORS—Located in your area to assure proper installation.



GUARANTEE

Re: [illegible]

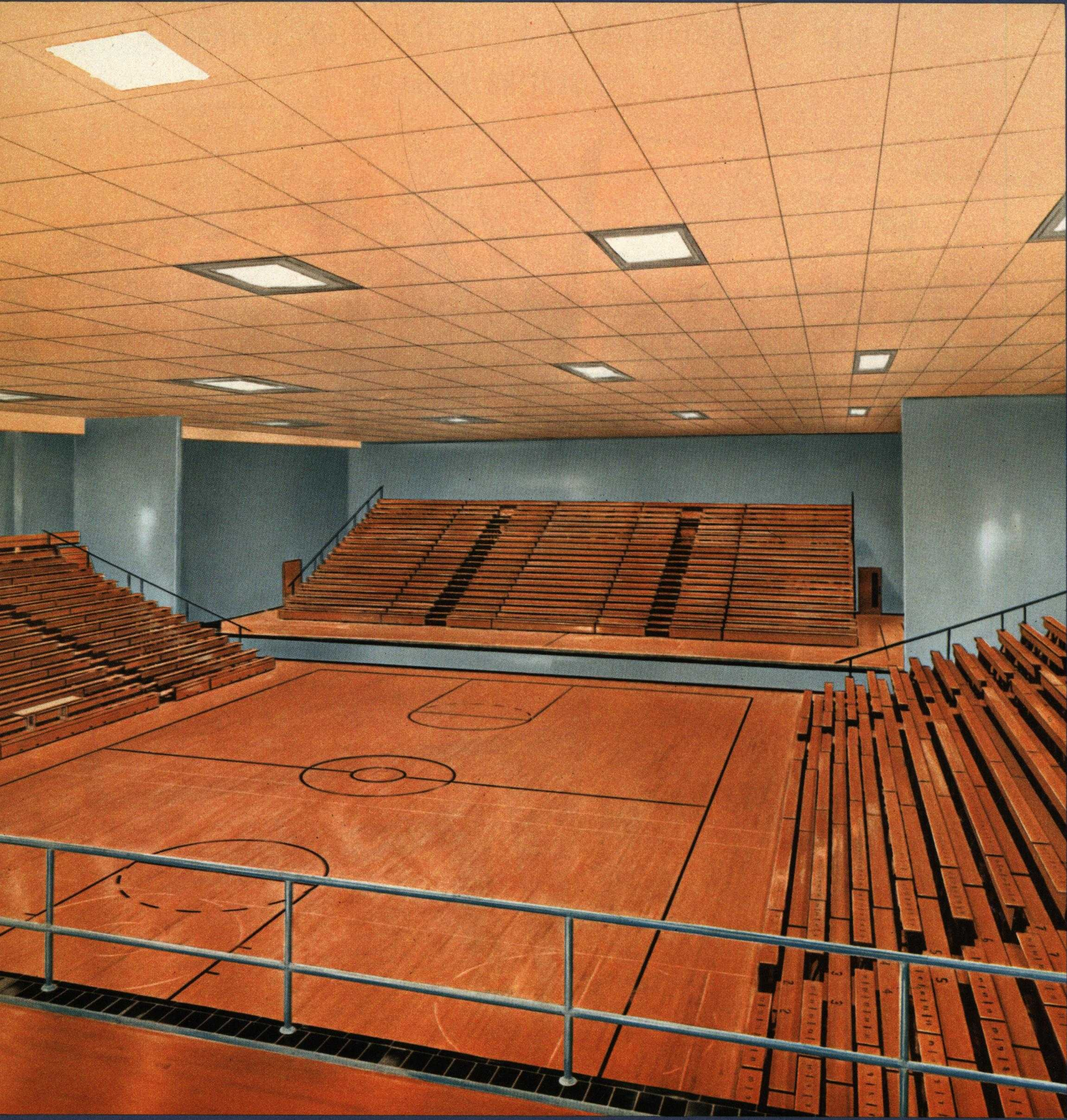
THE HORN DIVISION of THE BRUNSWICK-BALKE-COLLENDER COMPANY, hereby guarantees the Horn [illegible] installed at the [illegible] against defects in material or workmanship for a period of One (1) Year after the receipt of the architects final certificate of acceptance of the work. Any part of the above equipment which becomes defective during the warranty period as the result of faulty material and/or workmanship, excluding parts which have been subject to accident, alteration, abuse, misuse, or neglect, will be replaced or repaired by the HORN DIVISION of THE BRUNSWICK-BALKE-COLLENDER COMPANY at no charge to the owners.

This guarantee shall be in lieu of all other guarantees, express or implied, and the HORN DIVISION of THE BRUNSWICK-BALKE-COLLENDER COMPANY shall not be liable for loss or profits or other direct or indirect expenses, losses or damages from equipment or parts failure.

THE BRUNSWICK-BALKE-COLLENDER COMPANY
HORN DIVISION
By________________

GUARANTEED SERVICE—You receive a certificate guaranteeing your Brunswick installation.

Brunswick SERVES YOU ACROSS THE NATION



Folding Stages	Folding Partitions	Folding Backstops
Sweet's File No. $\frac{23g}{Ho}$	Sweet's File No. $\frac{22d}{Hor}$	Sweet's File No. $\frac{23k}{Ho}$

Brunswick

SCHOOL EQUIPMENT DIVISION
BRUNSWICK-BALKE-COLLENDER CO.
KALAMAZOO, MICHIGAN

IMPORTANT: When current manufacturing processes involve improvements in products illustrated in this catalog, or when conditions over which we have no control force us to depart from standard manufacturing processes, we reserve the right to supply the article that is our standard at time shipment is made.

A.I.A. File No. 35-F-

23J
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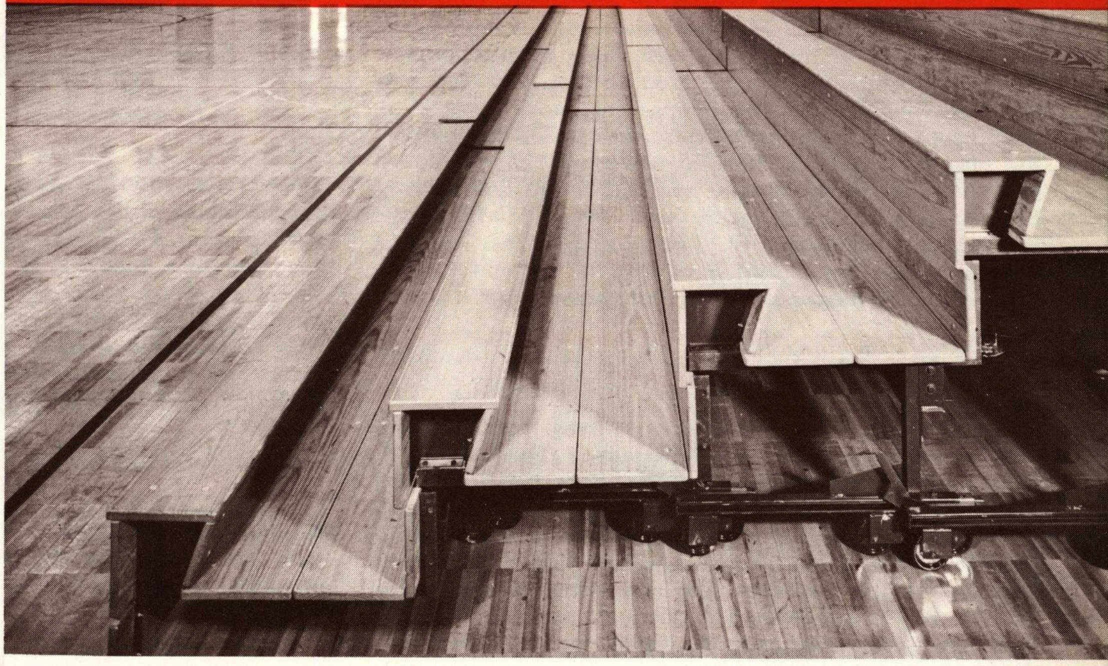
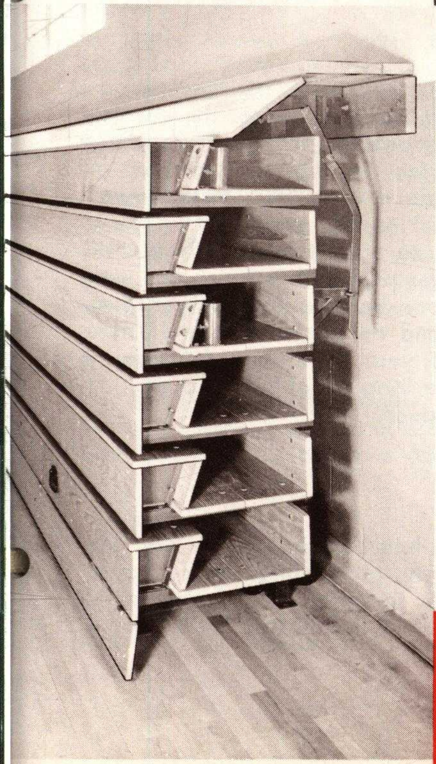
HUSSEY
SAFE SEATING

ROLL-OUT GYM SEATS



There's no opening for people, belongings, or debris to fall through a Hussey Closed Deck.



Closed stand has smooth vertical face. Maximum depth is 3'8".

the only Roll-Out gym seats with:

- a closed deck
- a box girder seat section
- a truss supporting frame

the CLOSED DECK insures maximum PERSONAL SAFETY.

the BOX GIRDER and TRUSS provide maximum STRUCTURAL SAFETY.

no other gym seats have these three features.

A.I.A. File No. 35-F-11

HUSSEY MFG. CO., INC.
NORTH BERWICK, MAINE
ironworkers since 1835

new gym seat design

Hussey's Closed Deck design is still new, even though in use in over 500 installations in 32 states, because it is the only major improvement in gym seat design in more than 20 years. It was specifically engineered with features which insure maximum PERSONAL SAFETY and CONVENIENCE for spectators. Hussey's completely enclosed walkway has **no opening for an accident.** Seats are of simple, trouble-free construction and operate easily.

fully closed deck

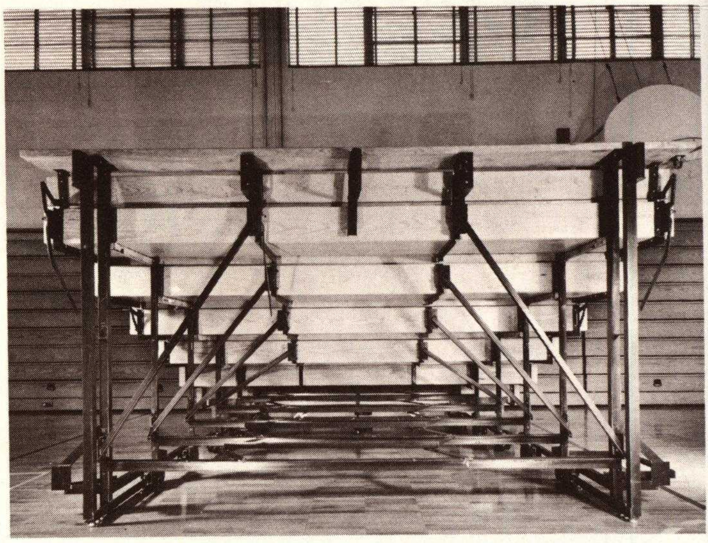
This one feature distinguishes Hussey Roll-Out seats from all other gym seating. Front and rear risers eliminate the illusion of height and the hazard of slipping through the stands. The 16" or 18" footboards are at least 39% wider than on any other seats. The Closed Deck insures safe, firm footing for spectators who leap suddenly to their feet to cheer wildly. It facilitates getting into or out of the stands past those already seated. Personal possessions cannot drop to the floor. No embarrassment is caused by youngsters beneath seats. A fire hazard is eliminated because no trash collects under the stands. Sweeping time is decreased 25% because trash can be pushed directly into containers. Stands may be closed with trash inside and cleaned when convenient. It is not necessary to clean under them in order to close them. The Closed Deck created these major improvements in personal safety and convenience.

box girder construction

The second exclusive feature of Hussey Roll-Out gym seats is the box girder type construction. The box girder consists of two riserboards and the seatboard which are held in proper relation by 8 steel diaphragms inside each 16′ box girder section. It has a sectional modulus of 55 inches^3. This is 25 to 30 times greater than that of any other retractable bleacher. The box girder Safety Factor of 7 to 1 was engineered to virtually eliminate deflection. This does away with the dangerous cantilever action found at the end of conventionally supported seatboards. It also increases rigidity, reduces lateral sway, and prevents excessive stress, strain, and wear at bolted connections. Under a test load of 12,220 lbs., a single 16′ row for 12 persons had minimal deflection of 1-9/16" which did not approach elastic limits. When unloaded the seatboards immediately returned to normal.

steel truss supporting frame

The third distinctive feature of Hussey Roll-Out gym seats is its steel truss underframe. The supporting columns of each row of seats are 1½" and 2" square steel tubing. These columns are tied together with horizontal steel 2½"x2½"x3/16" angle iron braces. Beginning with the third row, two diagonal steel braces connect the vertical columns and the box girder. These diagonal braces vary from 1½"x1½"x3/16" to 2½"x2½"x3/16" depending on the height of the row. The combination of vertical, horizontal, and diagonal braces plus the box girder is one of the strongest and most rigid arrangements possible. The entire unit has a Safety Factor of 4 to 1 and all load carrying members have steel-to-steel connections.



safety code requirements

These seats equal or exceed all safety requirements or specifications of the American Standards Association, the Pennsylvania Code (Hussey Penna. Certificate No. 1902), the American Institute of Steel Construction, the U. S. Forest Products Laboratory, and the National Lumber Manufacturers Association. These stands are engineered to withstand the stresses and strains of excited spectators. They are fully braced diagonally and horizontally with steel to resist side or end sway.

positive locking device

An extra feature is the positive, mechanical cam and dog lock. Stands can be operated only with a key that fits all units. Seats may be locked with one row, or all rows extended.

minimum maintenance

The only moving parts on these seats are the scissors-type paralleling device, the locking device, the casters, and the automatic closure panel on the top row. There are no hinged or complicated assemblies to get out of adjustment. U. S. Forest Products Laboratory tests showed Arkansas Long Leaf Yellow Pine has greater strength; is harder and more resistant to splintering, scuffing, and denting; is tougher and less susceptible to shocks and heavy blows; and has more bolt holding power than other lumber commonly used for bleacher seats. These features plus Hussey's 125 year reputation for quality Maine craftsmanship assure long, trouble-free operation and a minimum of maintenance.

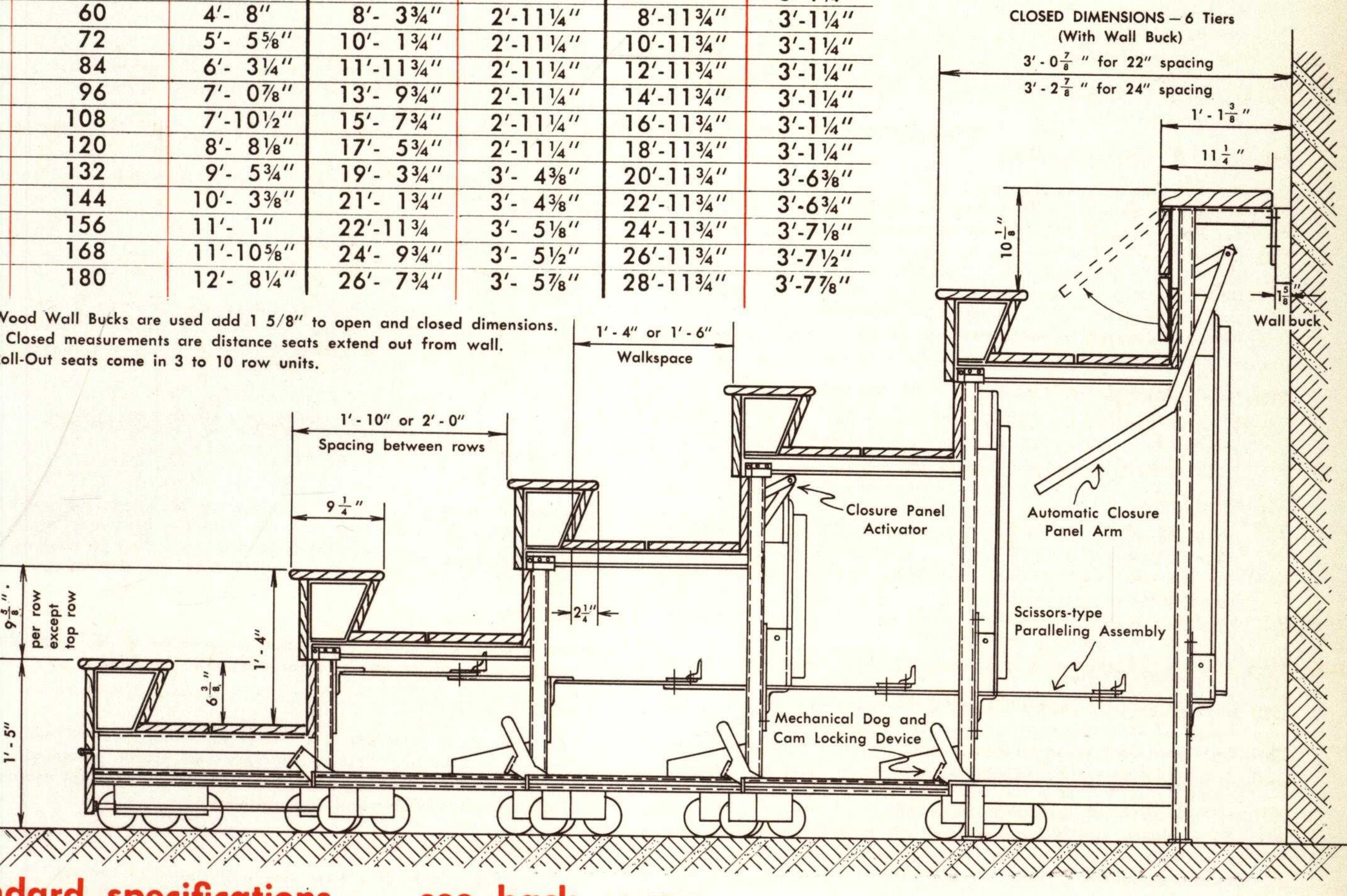
easy operation

Oversize, smooth-rolling, oilless bearing casters and the simple, effective, scissor-type paralleling device cause Hussey Roll-Out gym seats to open and close easily. These 4" casters tested to 3966 lbs. before failure, or a Safety Factor of 8 to 1.

• dimensions and capacities

No. Tiers	No. of 16" Seats per section	Overall Height	22" Spacing		24" Spacing	
			Open	Closed	Open	Closed
3	36	3'- 0¾"	4'- 7¾"	2'-11¼"	4'-11¾"	3'-1¼"
4	48	3'-10⅜"	6'- 5¾"	2'-11¼"	6'-11¾"	3'-1¼"
5	60	4'- 8"	8'- 3¾"	2'-11¼"	8'-11¾"	3'-1¼"
6	72	5'- 5⅝"	10'- 1¾"	2'-11¼"	10'-11¾"	3'-1¼"
7	84	6'- 3¼"	11'-11¾"	2'-11¼"	12'-11¾"	3'-1¼"
8	96	7'- 0⅞"	13'- 9¾"	2'-11¼"	14'-11¾"	3'-1¼"
9	108	7'-10½"	15'- 7¾"	2'-11¼"	16'-11¾"	3'-1¼"
10	120	8'- 8⅛"	17'- 5¾"	2'-11¼"	18'-11¾"	3'-1¼"
11	132	9'- 5¾"	19'- 3¾"	3'- 4⅜"	20'-11¾"	3'-6⅜"
12	144	10'- 3⅜"	21'- 1¾"	3'- 4⅜"	22'-11¾"	3'-6¾"
13	156	11'- 1"	22'-11¾	3'- 5⅛"	24'-11¾"	3'-7⅛"
14	168	11'-10⅝"	24'- 9¾"	3'- 5½"	26'-11¾"	3'-7½"
15	180	12'- 8¼"	26'- 7¾"	3'- 5⅞"	28'-11¾"	3'-7⅞"

Note: If Wood Wall Bucks are used add 1 5/8" to open and closed dimensions. Open and Closed measurements are distance seats extend out from wall. Portable Roll-Out seats come in 3 to 10 row units.


CLOSED DIMENSIONS — 6 Tiers
(With Wall Buck)
3' - 0⅞" for 22" spacing
3' - 2⅞" for 24" spacing
1' - 1⅜"
11¼"
10⅛"
1⅝"
Wall buck
1' - 4" or 1' - 6"
Walkspace
1' - 10" or 2' - 0"
Spacing between rows
9¼"
Closure Panel Activator
Automatic Closure Panel Arm
2¼"
9⅝" per row except top row
6⅜"
1' - 4"
1' - 5"
Scissors-type Paralleling Assembly
Mechanical Dog and Cam Locking Device

standard specifications — see back cover

appearance

Standard Hussey seats are slightly tinted Arkansas Long Leaf Yellow Pine. They are also available at slight extra cost in dark finish or in Genuine African Mahogany. These seats improve the appearance of any gym. When closed, the stands fit snugly against the wall and occupy at most 3'8" of space (see table of dimensions). The well finished risers provide a smooth, flush wood surface. The vertical face prevents climbing up closed stands and avoids knee injuries in gym classes. The Closed Deck and End Panels completely conceal the steelwork.

accessories

End Rails, End Closure Panels, Vent Grilles, Aisle Steps, Scorer's Tables, Tablet Arm Brackets, Hydraulic Dollies, and Tractor Units are available if desired.

portable Roll-Out gym seats

Portable units are identical with standard wall-attached units except that they are limited for safety to 3 to 10 rows high. They can be re-located easily on the hydraulic dollies provided with each installation. Portable units increase the flexibility of seating arrangements and increase alternate-purpose usage.

engineering service

Hussey's experienced seating engineers are available at all times for consultation without cost or obligation. Because most installations have to be engineered to fit the desired location, it is suggested that you ask a factory representative to call and determine detailed requirements. A firm quotation will be submitted promptly.

• other HUSSEY products

(separate catalogs available on request)

Models 6, 8FA, and 10 portable sectional steel bleachers for indoor and outdoor use.

Permanent Grandstands custom built to any size and specifications. Hot-dip galvanized steel.

HUSSEY MFG. CO., INC.

standard specifications

scope of work

(a) Where indicated on plans supply and install Roll-Out Gym Seats.

(b) Roll-Out Gym Seats shall all be standard wall attached type, except where portable sections, including one pair of dollies, are required.

(c) The following accessories shall be included:

End Rails ....

Scorer's Table ....

Ventilating Grilles: Wire .... Slotted ....

End Closure Panels ....

Aisle Steps ....

Tablet Arm Brackets ....

Tractor Unit ....

design & construction

(a) The Roll-Out Gym Seats shall be designed and constructed to support, in addition to their own weight, a live load of 120 lbs. per lineal foot of both seat and footboard, and to resist by adequate diagonal bracing a horizontal sway load applied lengthwise to the seats, of 24 lbs. per lineal foot of seatboard. Under these loads, stresses in steel shall conform to the standard specifications of the American Institute of Steel Construction, and stresses in wood shall not exceed those recommended by the National Lumber Manufacturers Association.

manufacturer

(a) Roll-Out Gym Seats with fully closed decks are to be furnished as manufactured by the Hussey Mfg. Company, Inc., North Berwick, Maine, or approved equal.

dimensions

(a) Depth per row, 22″ or 24″ measured horizontally from front edge of one seatboard to the front edge of the next seatboard.

(b) Rise per row, 9⅝″ measured vertically from top of one seatboard to top of next seatboard.

(c) Height of seat, 16″ measured vertically from top of footboard to top of corresponding seatboard.

unit construction

(a) Each group shall consist of one or more independent units, the length of each unit to be as near 16′0″ as conditions permit.

(b) Each unit shall be completed in itself, consisting of steel structure and closed deck connected together to form one integral assembly with means of attaching said unit where required to floor and walls (except portable units.)

(c) Each tubular steel column of the unit except the rear column shall be equipped with four 4-inch diameter wheels made of a plastic composition. Each wheel shall be equipped with suitable oilless bearings.

(d) Two diagonal angle iron braces shall be installed under each row of seats to resist end sway. These, plus the steel tie bars near the lower end of the supports, shall create a structural steel truss.

(e) Each section shall be equipped with hinged front skirtboard into which is set a Yale type lock. All locks shall be keyed alike. Immediately behind the front skirtboard shall be three spring loaded plungers, which, when the front skirtboard is lifted, shall slide ahead freeing a locking mechanism that mechanically controls the operation of the stand. This mechanism, when the front skirtboard is down, shall hold the stand locked in position.

(f) Each tier shall be equipped with a positive scissors-type paralleling device to prevent "cocking" or rubbing on adjacent stands when a section is being opened or closed.

fully closed deck

(a) These Roll-Out Gym Seats shall have a completely closed deck for additional personal safety and to prevent refuse collecting under the unit.

(b) Seatboard risers and deck shall form a complete unit reinforced with steel diaphragms so as to form a box girder type construction. The riserboard under the rear of the seatboard shall be placed at an angle so as to provide extra toe space.

(c) All lumber shall be of B and C grade kiln dried Arkansas Pine, having an allowable fibre stress of not less than 1800 lbs. per square inch. All lumber shall be finished not less than 25/32″ in thickness.

(d) Seatboards shall be B grade kiln dried Arkansas Pine, to finish not less than 25/32″ thick and 9¼″ wide with edges rounded.

(e) Alternate: All lumber to be Genuine African Mahogany finished ⅞″ thick.

finish

(a) All steel parts of the understructure shall be properly cleaned and finished in best quality schoolroom brown enamel.

(b) All wood parts shall be given one sealer coat, and two coats of clear Rynalon finish shall be applied to all exposed surfaces.

installation

(a) Installation shall be performed under the manufacturer's supervision. Each unit shall be securely attached to the floor and walls unless it is of the movable type.

The construction of the floor is: Fixed .... or Floating ....

1. Material ....
2. Thickness ....

The construction of the wall is:

1. Material ....
2. Thickness ....

guarantee

(a) The manufacturer shall guarantee all work performed under these specifications to be free from all defects of material or workmanship for a period of 1 year from date of completed installation.

GYM SEAT ACCESSORIES IF REQUIRED

end rails

Removable end rails shall be provided on all open ends, and shall extend from the top down to a point on the gym seat which does not exceed four feet above the floor. Said rails shall be designed and constructed so they are easy to put in, take out, and store.

grilles

Two 4″x30″ wire grilles per section, or a series of ¾″ wide slots in skirtboards shall be provided for adequate ventilation.

scorer's table

15″ wide by 8′ long and 1¼″ thick laminated pressed wood with mar-not formica top. Rounded corners and plastic moulding on all edges. Adjustable folding legs which permit convenient storage in footboard space when stands are closed.

end closure panels

End closure panels of proper size and shape to conceal the under structure from view when gym seats are closed shall be provided to match the woodwork of the gym seat. These end closure panels shall be permanently attached to the unit and to the wall.

aisle steps

Aisle steps shall fit firmly into the footspace so as to become part of the stand and not interfere with its operation. Their tread shall be level with their seatboards and finished to match the seats, they shall be .... inches long.

tablet arm brackets

Six detachable tablet arm brackets shall be provided per 16′ section. They shall match the stands and shall swing into a vertical position for easy access to the seats.

hydraulic dollies

Two roller bearing hydraulic dollies shall be furnished for relocating portable Roll-Out gym seat sections.

tractor units

Provide electrically powered tractor equipped with two 18 x 5.50-8 pneumatic-tired wheels, powered through roller chain and gear train by ¾ H.P. 110 volt single-phase motor. Tractor to be provided with 100 feet of 14/4S rubber covered cord with Hubbell twist-lock armored male plug #7411. Reel to be provided on tractor for retrieving 100 foot cord. Extension cords can be provided in 50 feet increments. Tractor to operate at approximately 30 feet per minute.

We reserve the right to improve materials or design without notice.

write, wire or phone collect OSborne 6-2271

HUSSEY MFG. CO., INC.

NORTH BERWICK, MAINE

IRONWORKERS SINCE 1835

9-59-23M

MEDART

TELESCOPIC GYM SEATS

Medart has achieved, in Telescopic Gym Seats, three basic objectives: (1) the greatest possible seating capacity in the least space; (2) the ultimate in spectator safety; and (3) recovery of maximum floor area when seats are not in use.

The steel understructure, conforming to A.S.A. specifications, is completely self-supporting open or closed. It is strong enough to support up to 400 pounds per linear foot per row without noticeable deflection or side sway.

Each full length 16′ row rests on *four* double-angle welded vertical uprights and is rigidly sway-braced with steel channels. The live load bears directly on the uprights, which cause dual rubber rollers to retract into housings and place all the weight immovably on the floor. There is no load on walls or casters. Uprights are staggered for even distribution of weight over entire floor area.

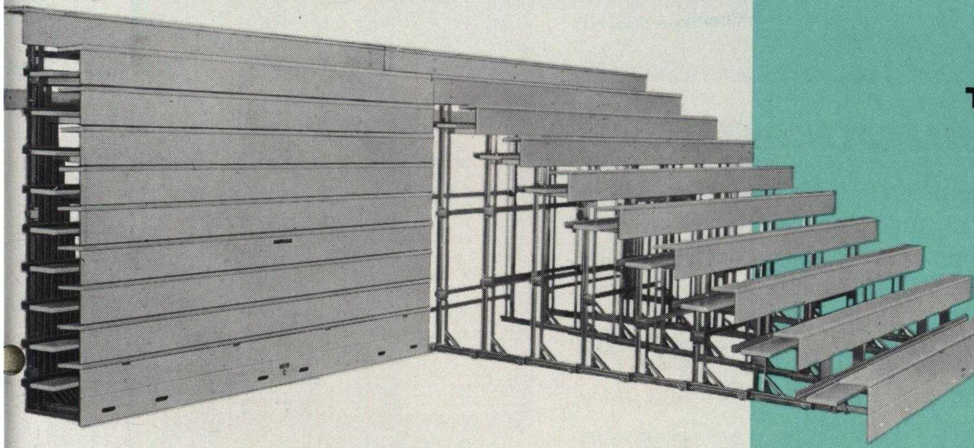
Medart Seats do not depend on diagonal bracing, hinged rods or other stress-bearing devices. Wood seat, foot and riser boards add additional rigidity to the self-supporting steel understructure. No other retracting type of seat exceeds the dependable safety of Medart Telescopic Gym Seats.

BASKETBALL BACKSTOPS

The superiority of Medart Basketball Backstops has long been established wherever basketball is played. Excellence of design, materials and workmanship is a Medart tradition: full conformance to the standards of the National Basketball Committee is an unvarying policy; and the many extra years of dependable service, free of costly upkeep and maintenance, other than a minimum of normal seasonal attention, has won for Medart unequalled preference among schools, colleges and architects everywhere.

Contributing largely to the enviable reputation of its basketball backstops is Medart's practice of providing experienced engineering counsel during planning and specification stages to assure a strong, rigid and vibration-free installation. Medart not only helps to choose the *right* backstop but, by an analysis of structural conditions, designs "Tailored-To-The-Job" backstops unexcelled in ruggedness and faultless service.

Medart—The Nation's Most Experienced Authority—has been recognized as the pioneer and major producer of basketball backstops since Dr. James Naismith developed and introduced the game in 1892. This vast reservoir of "know-how", unmatched in the industry, is available without obligation to help in solving every basketball backstop problem. To be sure it's right, consult Medart! (*See page* 6.)



WALL-ATTACHED TYPE TELESCOPIC GYM SEATS

No special construction is required for installation. Simply attached to the wall and anchored to the floor at the back, the entire weight rests on the floor. Furnished in standard 16′ full-length or 8′ half-length sections from 3 to 21 rows. For special conditions, seat sections can be furnished in 12′, 13′, 14′ or 15′ sections.

RECESSED & TWO-LEVEL TYPE

Recommended for new gymnasiums, these modern installations offer, at lower cost, the same facilities, convenience and safety as permanent built-in seats, yet release when not in use, maximum areas on main floor and balcony for other activities. Flush recessed seats are placed under a balcony when conditions make a suitable recess available. (See detail on Page 2.) Construction of Recessed Seats, up to 20 rows in height, is the same as wall-attached except for minor mechanical differences required for installation.

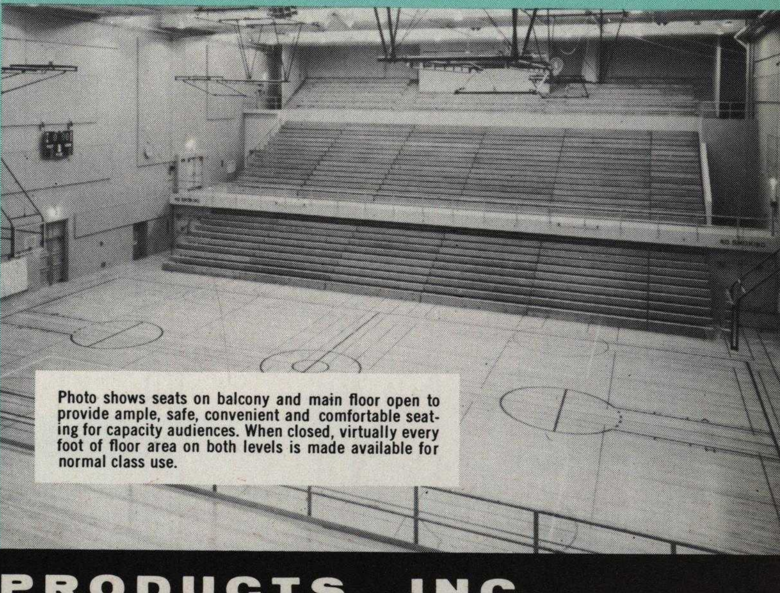


Photo shows seats on balcony and main floor open to provide ample, safe, convenient and comfortable seating for capacity audiences. When closed, virtually every foot of floor area on both levels is made available for normal class use.

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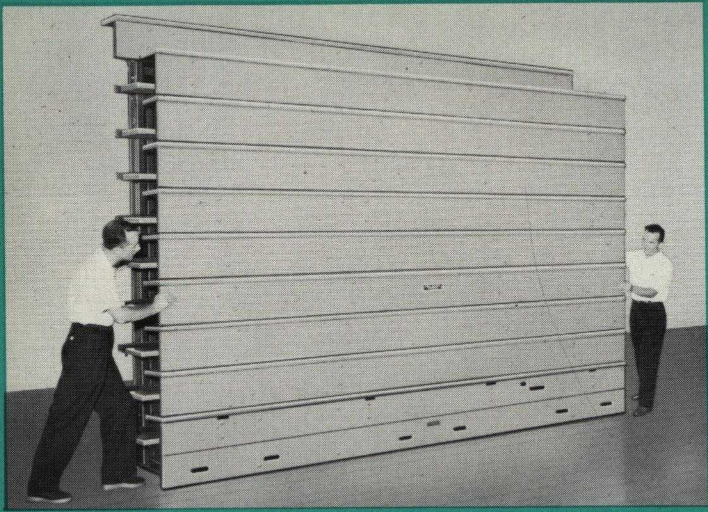
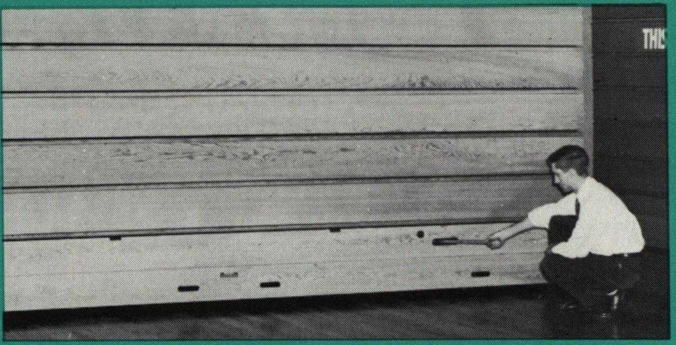
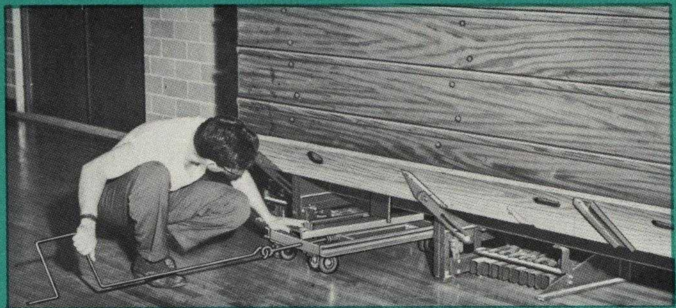
MOVABLE TYPE GYM SEATS





HYDRAULIC LIFT is built integral with steel understructure of each section. A few strokes of the pump handle raises seats; release of valve lowers them quickly, quietly. The rugged construction is typified by 4" channels, cold rolled steel shafts, dual 5" ball-bearing swiveling wheels turning on double ball-bearing races, etc. Caster capacity, per pair, 1000 lbs. 3000 lb. hydraulic pump. There are no hydraulic lines to leak oil.

Perfect solution to the seating problem when building conditions do not permit installation of wall-attached seats. Movable seats provide ample seating that can be compactly and easily stored. They are identical to wall-attached seats except for the addition of truck guides on understructure base if seats are to be moved on Lift Trucks, or adding the Hydraulic Lift mechanism which eliminates the use of separate trucks. (See details at right.) Movable Type seats are furnished in full or half length sections of 3 to 12 rows.



LIFT TRUCKS roll into guides beneath understructure, and are raised, for rolling seats into position, by a crank inserted through holes in front riser. Trucks have large dual rubber-tired casters that swivel on ball bearings. Two trucks are furnished for **each installation.**

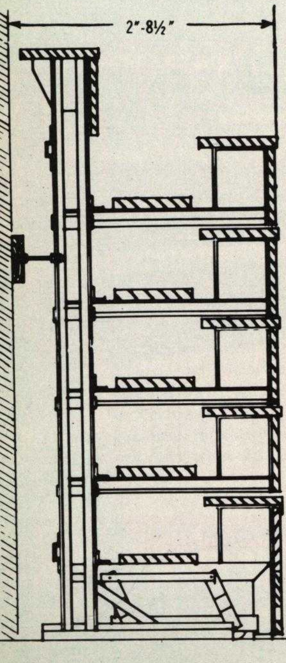
TYPICAL CONSTRUCTION DETAIL

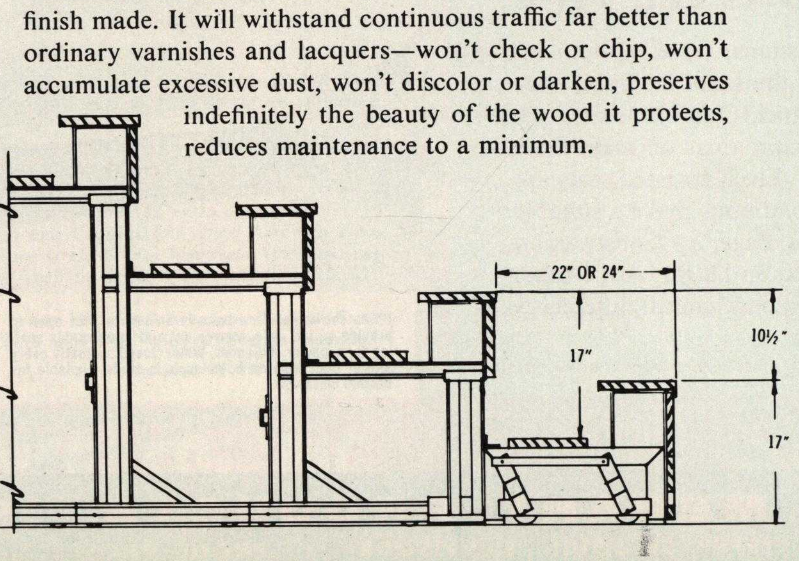
Medart Seats are built with 22" or 24" row depth and with 10½" or 11½" row rise. Leg height is 17" for 10½" row rise and 18" for 11½" row rise. Special seat rise is available when "line of sight" conditions are extreme. An automatic front row lock engages 8 rubber brake shoes on 1st and 2nd rows to prevent shifting when seats are open.

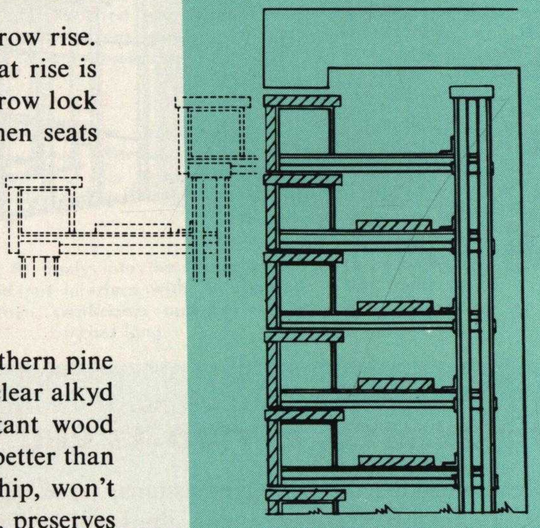
Seat boards are 1-1/16" x 9½"; foot boards are 1-5/16" x 9½"; risers are 25/32" x 9". Front riser has hand grips for easy opening and closing of seat section. Top riser is furnished hinged or non-hinged.

Tough, scuff-resistant wood finish

Wood members are finest kiln-dried clear fir or Southern pine with prime and finish coats of oven-dried lustrous, clear alkyd melamine varnish—smoothest, most abrasion-resistant wood finish made. It will withstand continuous traffic far better than ordinary varnishes and lacquers—won't check or chip, won't accumulate excessive dust, won't discolor or darken, preserves indefinitely the beauty of the wood it protects, reduces maintenance to a minimum.







TYPICAL DETAIL OF RECESSED SEATS IN CLOSED POSITION

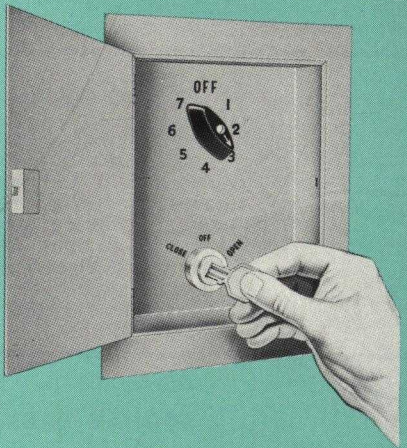
Minimum depth of recess for 22" seats to 11 rows should be 2'8½"; for 24" seats, 2'10½". Minimum recess height for 10 rows or less is height of top seat plus 1". An additional 2' of recess depth is required for seats 12 to 20 rows high. Seats with 11½" row rise require comparable increase in recess height.

MEDART AUTOMATIC POWER-OPERATED GYM SEATS

TWO TYPES: **UNIT MOVER for independent operation of individual seat sections**
BANK MOVER for simultaneous operation of multiple seat sections

- Medart's power operation eliminates all effort necessary for manual opening and closing of seats
- No special construction provisions required
- Key-operated control may be installed anywhere

KEY-OPERATED CONTROL OPENS, CLOSES SEATS QUICKLY, QUIETLY



Moves the biggest seat installations into position in minutes. If full capacity of seats is not required, release of key stops movement instantly when desired number of rows are in position. Automatic safety controls insure hazard-free operation. Limit switches in control circuit prevent over-travel in either direction. Switches for any number of Unit Movers or Bank Movers are incorporated into a single key-operated control which can be remotely installed anywhere in gym for greatest convenience. Removable key prevents unauthorized operation.

MEDART'S FULL AUTOMATIC POWER OPERATION* opens and closes the largest gym seat installations quickly, quietly and safely without physical effort. A smooth, controlled speed of 10 feet-per-minute eliminates all slamming and banging—life of seats is prolonged—maintenance is reduced to a minimum.

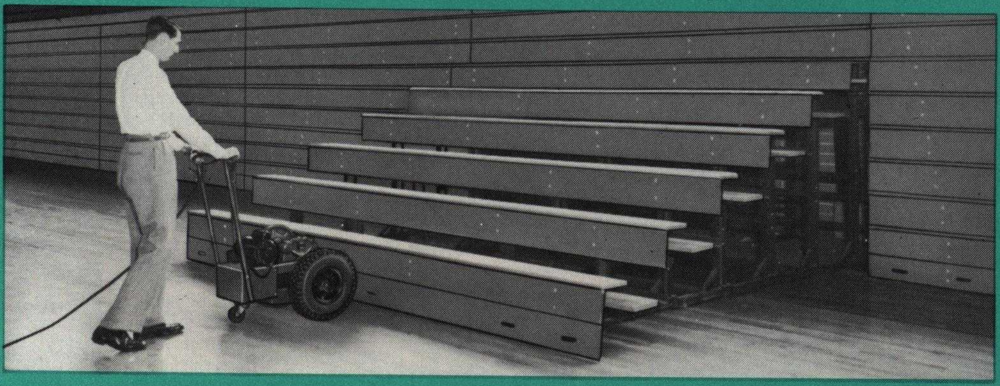
- Medart's Bank Mover opens and closes at one time, all aligned seat sections of a maximum length of 112 feet and up to 15 rows high, or a maximum length of 80 feet and up to 21 rows high.
- Medart's Unit Mover opens and closes individual seat sections one at a time as desired, regardless of length or height.
- No floor tracks or building changes are necessary. The installation of power operation requires no other conditions than are needed for manually-operated seats.
- No complicated wiring is needed. Any ordinary 110-volt power source will do.
- Seats roll open or closed without binding or "crabbing". Straight-line trackage is an outstanding feature of Medart power-operated seats. All caster bearings are made of a Nylon material which needs no lubrication, thus eliminating any possible oil-staining of gym floor.
- Seats automatically lock in any position during opening or closing by release of control key. Whether one, a few, or all rows are required, seats remain safely stationary until power control is key-actuated.

Power Operation For Medart Seats Already In Service—Automation can be applied to existing Medart Seat installations. No extensive changes are necessary in gym seat construction. Cost is surprisingly low. Ask for complete details.

*Patents Pending

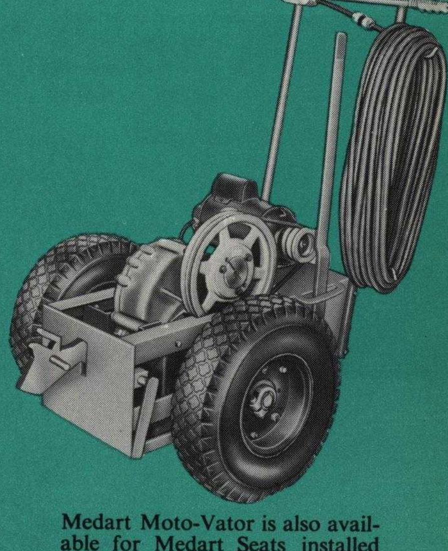
MEDART MOTO-VATOR†

Mobile Power Operator For Medart Gym Seats



Opening and closing the largest telescoping gym seat sections with the Medart Moto-Vator is easy and simple.

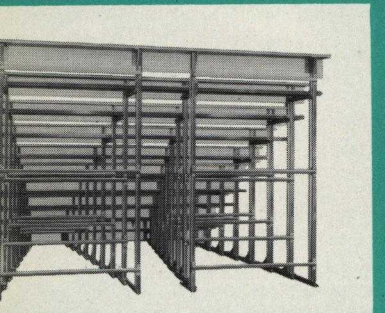
A lock-lift arm at the front of this rugged, compact electric power unit is directed into an opening in the center of the front seat riser. A handle-lever instantly releases the braking mechanism of the seat section. A switch is moved to "open" and in a few seconds the section is fully opened. To close, the simple procedure is reversed. Easy steering of the Medart Moto-Vator guarantees accurate straight-line trackage. Extra large pneumatic tires insure against damage to floors.



Medart Moto-Vator is also available for Medart Seats installed since 1954.

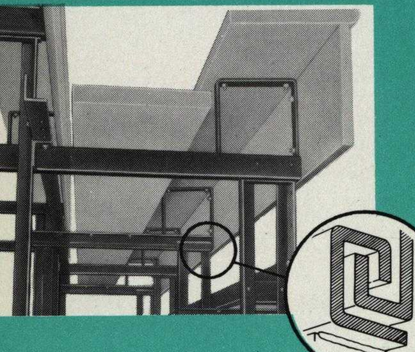
†T. M. Reg.

FEATURES OF DESIGN AND CONSTRUCTION



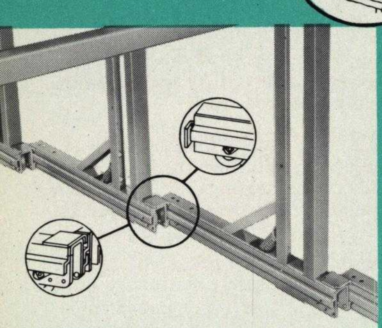
SELF-SUPPORTING STEEL UNDERSTRUCTURE

Rear view photo showing seats in extended or open position. Note how each row is supported on 4 vertical uprights and how they evenly distribute the load over entire floor area. Impartial laboratory tests show complete safety under loads of 400 pounds per linear foot of row without appreciable deflection, and practically no side sway at peak of stress.



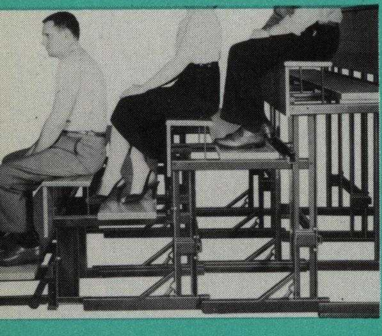
FLOATING MOTION

A Medart exclusive feature—an arrangement of smooth-working precision-formed parts that make it possible for seat sections to be opened and closed without effort. A 5″ long sleeve at top of upright interlocks with a horizontal member along which the sleeves move. Interlocking of these members precludes jamming and binding during opening and closing. No row can be disengaged from another.



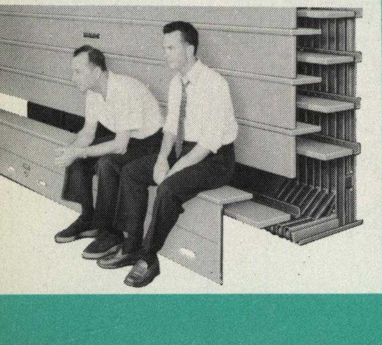
DUAL ALIGN

Another Medart exclusive! "Dual Align" provides direct line opening and closing of each gym seat section. Roller housings are keyed together and have lateral aligning interlocking guides. Each of the four uprights per row with the "Floating Motion" arrangement at the top and the "Dual Align" housing at the bottom assure straight-line, quiet and efficient operation.



SEATING COMFORT

Most spacious of all gym seats. Full 17″ from seatboard to footboard, considered most comfortable height by seating authorities. Plenty of room from front to back in either 22″ or 24″ row depth (front to front of seatboards). Open toe space under seatboards and heel space under risers add many extra inches of foot room.

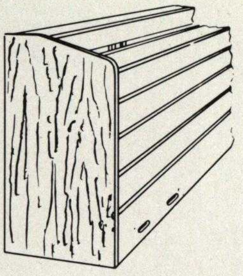


USE OF INDIVIDUAL ROWS

Medart Seats can be partially opened to permit use of one, two, or as many rows of seats as may be desired for any specific event. Eliminates need to carry, set up, fold and return to storage, folding chairs normally required for such events. With one row open, each seat becomes a comfortable bench around the gym, or for the length of the balcony or stage.

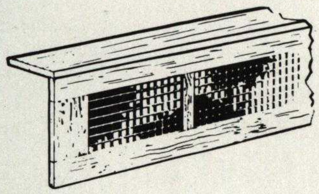
Printed in U.S.A.

ACCESSORIES FOR MEDART SEATS



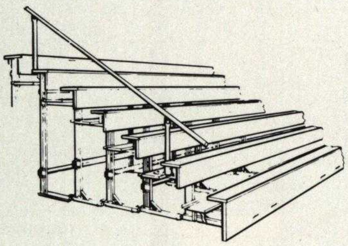
END CLOSURE PANELS

Used for enclosing exposed ends of Wall-Attached seats when closed. Fastened permanently in place. Not removable. Thick plywood finished with clear lacquer.



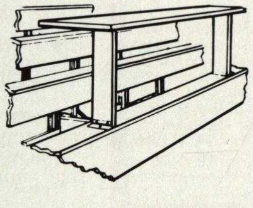
VENTILATING GRILLS

Installed in front or hinged top risers for heat or air circulation when seat sections are installed in front of radiators or ventilation ducts. Olive green finish.



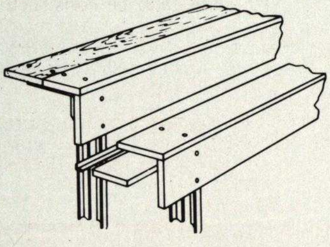
END RAILS

Furnished for movable or wall-attached seats of 7 rows or more. 1-11/16″ O.D. steel pipe; olive green baked enamel. Hinged uprights clamp into metal sockets bolted to seats. Stored on footboards when seats are closed. Back rails also furnished for movable seats.



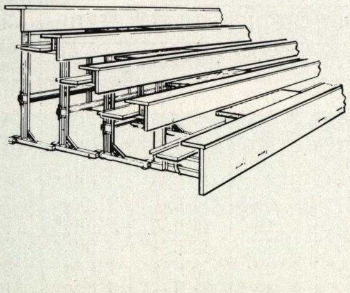
SCORER TABLES

Available in standard 6′ and 8′ lengths. Top quality seasoned lumber. Non-scuff composition reinforced top, 22″ wide, 3/4″ thick. Mounted on seatboard with bolts and wing nuts. Legs fold under table for storing. Clear lacquer finish.



FILLER BOARDS

Should be installed at top row level when structural conditions keep top seat more than 6″ from wall. Solid wood 1-1/16″ thick, mounted on steel supports fastened beneath top seatboard.



AISLE TREADS

Make it easier to reach upper rows of seats . . . may be required by law or preferred by buyer. Tread is 3′ long (can be furnished in special length if desired). Mounted on steel brackets bolted to footboards. Flush with seatboard in front of footboard on which they are mounted. Won't interfere with opening or closing. Furnished at extra cost.

SPECIFICATIONS FOR MEDART TELESCOPIC GYM SEATS

GENERAL SCOPE—As shown by plans and covered by these specifications, contractor shall furnish and install the following length units of Medart Telescopic Gym Seats, as manufactured by Fred Medart Products, Inc., St. Louis, Missouri, or approved equal in the opinion of the architect.

......ft. long units......rows high, wall type.

NOTE: Although standard length sections are specified in foot increments, actual length is 1″ less than nominal dimension, i.e., 16′0″ section is 15′ 11″ long.

Material and workmanship to be of best grade. Fabrication and finish shall be in accordance with the highest standards for this type of work. Equipment shall be installed by factory trained personnel. Contractor shall furnish all hardware required for proper installation. Equipment shall be guaranteed against defects in material or workmanship for a period of one year from date of installation.

OPERATION GENERAL—Gym Seats shall operate on the telescoping principle. The front of the seats shall be in vertical registration when closed. Operation shall permit one or more rows of seats to be opened for use, while remaining rows are left in "nested" position.

MANUAL OPERATION—Gym Seats shall be of type to be opened or closed manually.

AUTOMATIC POWER OPERATION—Gym Seat sections shall be equipped with integral, electrically-powered operators, controlled from one or more panels. Opening or closing action to be achieved by turning the selector switch for a specific power operator and then actuating the key switch to the open or close position.

MEDART MOTO-VATOR OPERATION—Portable power-operated mover for use with Medart telescopic gym seats to open or close any size section up to and including 16 ft. long and 21 rows high.

DESIGN—1. Gym Seats shall be designed to support, in addition to their own weight, a vertical "live" load of 120 lb. per lineal foot of seatboard and footboard and horizontal "swaying" force of 24 lb. per lineal foot of seatboard. Consider steel parts only in calculating load stresses.

2. Maximum height, open or closed, shall not exceed............. When closed, seat sections of 3 to 12 rows inclusive shall not extend from wall in excess of 2′8½″; not more than 4′8½″ for sections 13 to 21 rows inclusive. When in open position, seats shall not extend from wall in excess of......... *Increase above depths 8″ if sections are power-operated or placed further than 1″ from wall for top seat comfort.*

3. Each row shall have depth of not less than 22″ from front to front of seatboard, a full 17″ of height from footboard to seatboard, and a row rise of 10½″ from seat to seat. Provide horizontal toe room of at least 6″ under the next lower seatboard.

NOTE: ABOVE DIMENSIONS MUST BE CHANGED FOR 24″ ROW DEPTH, AND/OR 11½″ ROW RISE.

CONSTRUCTION—Each standard length unit shall not exceed 16′0″—and shall consist of the following:

UNDERSTRUCTURE—The understructure shall be a rigid frame fabricated entirely of steel to conform to A.S.A. Specifications. All uprights, except the front uprights, shall each be constructed of two rolled steel angles with electrically welded boxtype cross members. Rear uprights shall be self-sustaining so that walls are not required to support any vertical load. Feet of rear uprights shall be fastened to floor at four points.

Each row of each full-length section to be supported by four uprights; each row of each half-length section (8′0″ or less), by two uprights. Uprights are to be transported in and out of the "nested" position by a multiple of bronze-bushed rubber wheels (2 per upright) completely covered by steel housing. The "live" load shall automatically compress the coil spring actuating each upright, permitting a flat shoe to bear firmly on the floor. When seats are extended, each upright must be interlocked (1) at the top, to the foot and seatboard support and (2) at the bottom, to the wheel housing of each succeeding upright. *Scissors-action linkage between succeeding rows will not be accepted.*

First row of seats shall have formed steel uprights interlocked with succeeding uprights and shall be equipped with toggle mechanisms automatically operated by raising and lowering of hinged front riser. Lowering of front riser shall automatically bring 8 corrugated rubber shoes into firm contact with floor, preventing shifting.

All welding shall be performed by certified welders and manufacturer shall present such certification upon request. Bolts for field assembly of steel understructure shall have lock washers.

RISERS, FOOT AND SEATBOARDS—All wood parts shall be of seasoned, quality lumber, carefully sanded, finished with rounded corners and bolted securely to steel members. Finished sizes shall be as follows:

Seatboards....................	1-1/16″ x 9″ to 9½″
Footboards....................	1-5/16″ x 9″ to 9½″
Risers........................	25/32″ x 8½″ to 9″

Slat type boards will not be accepted.

Front hinged riser is to be equipped with a springbolt, key-operated lock, permitting locking of seats when closed. Riser to be wide enough to extend from seatboard to floor, and have sufficient pairs of hand holes to facilitate opening and closing of seat section. Optional: Top riser may be hinged if desired. Automatic top riser available at additional cost. Risers must be vertical type. All foot boards, seatboards and risers must be full-length.

END PANELS—End panels shall be furnished for wall type seats only at each open end exposed to view. End panels shall be of wood, shaped to outline of end of section when closed, and firmly fastened.

END RAILS—End rails of not less than 1-11/16 O.D. steel pipe are to be provided at all extreme ends of seat sections (not placed next to an end wall) which are 7 rows or higher. Construction to permit removal of end rails for storage within the gym seats when in the "nested" position.

AISLE TREADS (OPTIONAL)—Provide aisle treads (maximum 3′0″ width) in gym seat sections as shown on the plans. All aisle treads shall be mounted on metal brackets and bolted to and become an integral part of footboards. Aisle treads to be of such design that they can be installed or removed without remodeling of seating.

FINISH—Steel parts shall be finished with olive-green baked-on enamel. Wood parts shall be factory-finished with mechanically applied prime and finish coats of Medart's alkyd melamine varnish, each warm air-dried in special ovens.

MOVABLE GYM SEATS—(Furnished in sections of 3 to 12 rows inclusive.) Gym Seat section or sections specified above as "movable type" are to be similar to seating heretofore described. Specify whether movable seats are to be furnished with Hydraulic Lift Mechanism or Lift Trucks. (See page 2.)

RECESSED GYM SEATS—Gym Seat section or sections specified above as "recessed type" are to be identical to seating heretofore described, except rear uprights be provided with interlocking guide means at each upright permanently fastened within the recess to limit withdrawal of the section from the recess. *Link or folding attachments are not acceptable.* Recess depth shall not be less than 2′8½″ for sections of 11 rows high or less; not less than 4′8½″ for sections of 12 rows or higher. Interior recess height shall be 6″ greater than height of top seat. Top seatboard shall have 1″ clearance.

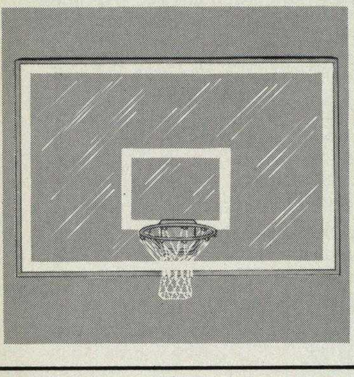
TABLE OF DIMENSIONS 22″ or 24″ ROW DEPTH

NUMBER OF ROWS	FLOOR SPACE				OPEN OR CLOSED HEIGHT	NUMBER OF ROWS	FLOOR SPACE				OPEN OR CLOSED HEIGHT
	22″ ROW DEPTH		24″ ROW DEPTH				22″ ROW DEPTH		24″ ROW DEPTH		
	Extended	Closed	Extended	Closed			Extended	Closed	Extended	Closed	
3	4′ 6½″	2′ 8½″	4′10¼″	2′10½″	3′ 2″	13	23′ 0½″	4′ 8½″	25′ 0½″	5′ 0½″	11′11″
4	6′ 4½″	2′ 8½″	6′10½″	2′10½″	4′ 0½″	14	24′10½″	4′ 8½″	27′ 0½″	5′ 0½″	12′ 9½″
5	8′ 2½″	2′ 8½″	8′10½″	2′10½″	4′11″	15	26′ 8½″	4′ 8½″	29′ 0½″	5′ 0½″	13′ 8″
6	10′ 0½″	2′ 8½″	10′10½″	2′10½″	5′ 9½″	16	28′ 6½″	4′ 8½″	31′ 0½″	5′ 0½″	14′ 6½″
7	11′10½″	2′ 8½″	12′10½″	2′10½″	6′ 8″	17	30′ 4½″	4′ 8½″	33′ 0½″	5′ 0½″	15′ 5″
8	13′ 8½″	2′ 8½″	14′10½″	2′10½″	7′ 6½″	18	32′ 2½″	4′ 8½″	35′ 0½″	5′ 0½″	16′ 3½″
9	15′ 6½″	2′ 8½″	16′10½″	2′10½″	8′ 5″	19	34′ 0½″	4′ 8½″	37′ 0½″	5′ 0½″	17′ 2″
10	17′ 4½″	2′ 8½″	18′10½″	2′10½″	9′ 3½″	20	35′10½″	4′ 8½″	39′ 0½″	5′ 0½″	18′ 0½″
11	19′ 2½″	2′ 8½″	20′10½″	2′10½″	10′ 2″	21	37′ 8½″	4′ 8½″	41′ 0½″	5′ 0½″	18′11″
12	21′ 0½″	2′ 8½″	22′10½″	2′10½″	11′ 0½″						

MEDART BASKETBALL BACKSTOPS

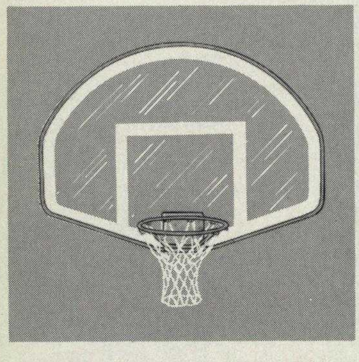
BACKBOARDS

GLASS



No. 1102 Rectangular Glass. Best of its type. Banking surface ½″ tempered glass (Herculite). Specially formed dual-angle metal frame riveted into a single unit after assembly. A precision, fast bank, important in rebounds. Glass set in Neoprene cushion. Target and border fired white vitreous enamel on reverse side.

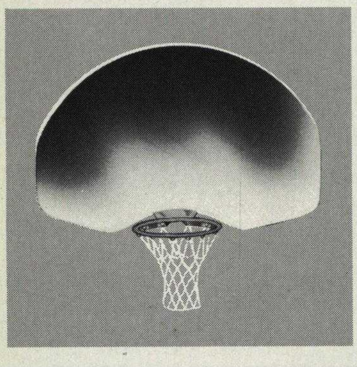
HERCULITE is the registered Trade Mark of The Pittsburgh Plate Glass Co.



No. 1104 Fan-Shaped Glass. Newest, finest made. Banking surface ⅜″ tempered glass (Herculite). Specially formed dual-angle metal frame riveted into single unit after assembly. Excellent rebound characteristics. Glass cushioned in Neoprene. White vitreous enamel border and target on reverse side.

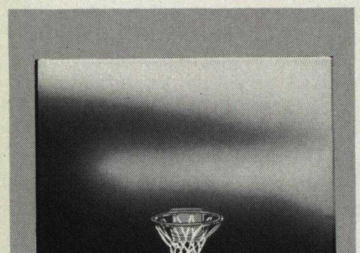
Height adjustment feature available for all backboards.
Write for complete information.

STEEL



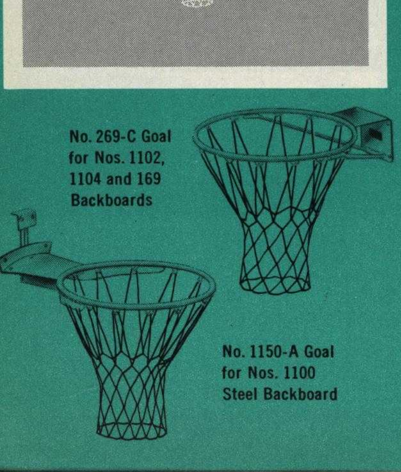
No. 1100 Fan-Shaped. 1-piece die-formed shell of 12-gauge steel. Perfectly rounded edges. Deep heavy-gauge steel, welded reinforcement on back assures level face and good banking surface. Has mounting for Official goals. Eggshell white finish.

WOOD



No. 169 Rectangular Face ¾″ thick, 5-ply, mounted on sturdy wood framework. A precision-made "true" backboard. Edges of smooth, rounded moulding. Won't crack, won't warp. Finish, 2 coats white enamel.

GOALS



No. 269-C Goal for Nos. 1102, 1104 and 169 Backboards

No. 1150-A Goal for Nos. 1100 Steel Backboard

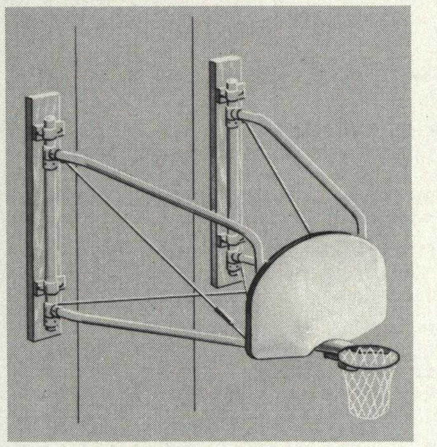
No. 269-C for Nos. 1102, 1104 and 169 with use of auxiliary mounting plate furnished. Conforms to mounting standards of NBC. Orange enamel finish. Slip-on net attachment; white cord nets. **No. 1150-A** for use with No. 1100.

A basketball backstop is a backboard complete with all suspension or framework necessary to support the backboard in its proper location. Location of backstops depends upon length and width of basketball court best adapted to size of gymnasium.

As building conditions vary, backstops must be built to fit individual requirements. Windows, wall radiators, ventilation ducts or partitions unable to withstand strain must be considered when deciding type of backstop to be used. Suspended ceilings, not provided with proper fittings during building construction period, also affect decision.

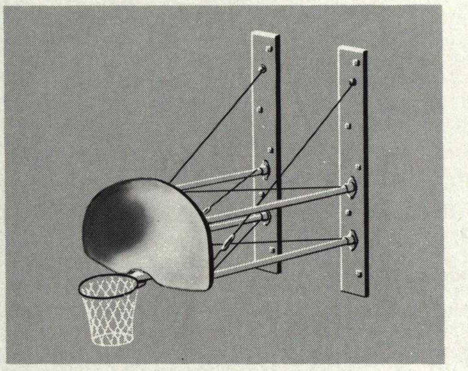
Medart can design and manufacture basketball backstops to suit every conceivable type of unusual structural condition. Backstop at left is typical of those designed by Medart, "tailored" to job conditions. Special equipment can be avoided if proper attention is given when building plans are prepared (i.e., standard backstops could be economically employed by locating courts or folding partitions slightly off center).

Very unusual structural conditions cause greater specializedtreatment. "Wings" and truss-type reinforcement for drop and brace pipes may be required or special reinforcement incorporated into wall construction. Although not recommended, Medart has even designed special suspended type backstops for extreme truss heights. (Such cases occasionally require installation of extra "deep" cradle.) Instead of specially reinforced drops and braces, expensive special suspended type can often be avoided by using portable floor type backstops.



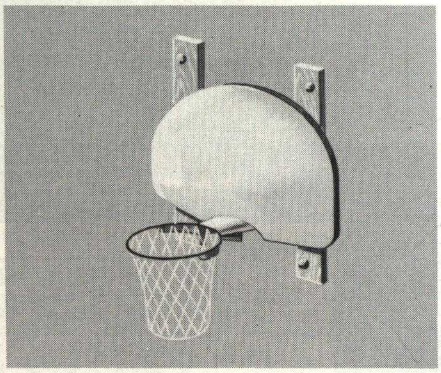
TYPICAL SPECIAL MOUNTING

STANDARD MOUNTINGS



No. 55 Extended Wall Braced—Can be braced from the wall up to 8′ 0″. Includes backboard, 4 heavy pipe extensions with malleable fittings, 2 sets of cross guys, 1 pair of oblique hanger braces, wall stringers. Guy and brace rods ⅜″ diameter with screw turnbuckles for tension adjustment. Specify extension dimensions.

No. 110 Wall Attached—Not official, but satisfactory for practice. Occasionally used in elementary school gyms where length of floor is less than 60′0″. May be installed in play rooms with rim of goal less than official height, making shots at basket less difficult for small children. Complete with wood stringers.



PORTABLE FLOOR AND STAGE BACKSTOPS

Medart Portable Backstops are available where suspended types cannot be economically installed in buildings with excessive ceiling heights. They are designed for ease of handling, movability, safety and durability. Write for catalog or consult with Medart about any special problem.

CONSTRUCTION FEATURES

The engineering and careful construction of all Medart Backstops assure strength, rigidity and durability. Compare the following with ordinary equipment:

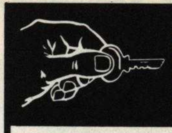
Fittings. Heavy-Duty malleable iron, sturdy without being cumbersome, for rigid connections. Undesirable strap steel not used.

Adjustable Guys. Steel rods ⅜" diameter. Screw-type Turnbuckle permits adjustment and absolute tension. No undesirable strap iron bracing.

Pipe. Overhead pipe is 3" I.D., the accepted, safe standard for all suspended gym apparatus. Drop pipes 2" I.D., braces 1½" I.D. Extension pipe for wall-type backstops variable in size but always provided of sufficient diameter to assure rigidity.

Winch. Exclusive with Medart! Worm-geared, crank-operated, "safety" winch. Automatically holds backstop when raised or lowered. Fully enclosed drum and gears; no chance of injury. Removable crank lessens unauthorized use. (Electric winch operator also available).

SUSPENSION (Truss member illustration below) Minimizes vibration from long span pipe deflection. Sufficient overhead and cross members provided to properly reinforce backstop supports. Suitable "cradles" supplied when conditions demand. Sturdy malleable fittings, with wide grip for rigidity and operation ease.



MEDART POWER-OPERATED REMOTE-CONTROL BASKET BALL BACKSTOPS

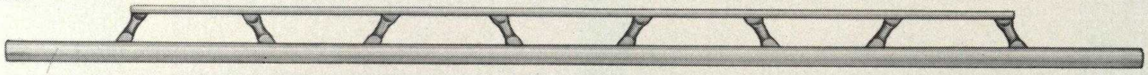
A Key Does All The Work .....

NOW . . . any Medart forward swing-up or backward swing-up backstop can be furnished with power operation! So simple, so easy, so safe, that any authorized person—boy, girl or grownup—can raise or lower the heaviest backstop without danger to himself, players, spectators or equipment.

A key-operated switch, for remote control of power-operator, can be placed at any convenient location in the gym. Key can be safeguarded to prevent unauthorized operation. Power operator can be installed on wall or overhead rigging depending upon conditions. Ruggedly built, compact and quiet, it requires no maintenance other than semi-annual operation.

Power operator can be installed on most Medart suspended backstops already in service.

ASK YOUR MEDART DISTRIBUTOR FOR DETAILS
or write direct



Truss Member

TYPICAL SPECIFICATIONS FOR SUSPENDED BACKSTOPS

SUSPENDED TYPE BACKSTOP

OVERHEAD SUPPORT—Backstops shall be suspended from 3" I.D. pipe, fastened to overhead roof frame members by malleable iron beam clamps. When overhead pipes are fastened on centers greater than 16′ they shall be reinforced with welded truss pipe (not necessary for overhead sheave pipe).

DROP PIPES—Backboard supporting drops to be 2" I.D. pipe. Fittings for fastening to overhead pipes shall be clamp type, with wide surface bearing. Drop pipes to be rigidly braced with 2" I.D. intermediate spacer pipes as required. All drop pipes to be guyed with ⅜" steel cross rods, equipped with screw type turnbuckles.

(NOTE: *Brace and drop frames of No. 270 type suspended, forward swing up backstop shall be of welded construction, with cross rods described above on drop frame.*)

BRACING (Select type desired)

No. 276 FORWARD SWING-UP TYPE—Bracing shall be forward of drop pipes, to consist of 1-1/4" I.D. pipe, hinged at the middle.

No. 261 FORWARD SWING-UP TYPE—Bracing shall be 1½" I.D. pipe. Upper ends to have malleable "broad contact" hinge fittings. Lower ends to permit elongation when hoisting, and equipped with locking mechanism.

No. 270 FORWARD SWING-UP TYPE—Bracing shall be 1½" I.D. pipe. Upper ends to have malleable "broad contact" hinge fittings. Lower ends to have slide-bar attachment to drop pipes, and with "micro-adjustment" nuts for simultaneous "seating".

No. 272 FORWARD SWING-UP TYPE—Braces to be 1½" I.D. pipe fastened near lower end of drop pipes with malleable iron fittings. Opposite ends to be wall fastened with toggle type fittings (bolted to wall stringers). For stage attachment braces shall be secured by hand screws fitted into flush type floor plates.

No. 271 BACKWARD SWING-UP TYPE—Bracing shall consist of 1" square steel bars hinged in middle, fastened at upper end to overhead support and at lower end near bottom of drop pipes. Connections to be malleable iron.

No. 424 FIXED SELF BRACED TYPE—Bracing to be 1½" I.D. pipe. Upper ends to fasten to overhead pipe. Opposite ends to fasten near lower ends of drop pipes. Connections to be malleable iron.

No. 420 FIXED WALL BRACED TYPE—Bracing to be 1½" I.D. pipe fastened near lower ends of drop pipes. Opposite ends shall be fastened to wall with fittings bolted to stringers.

No. 822 WALL BRACED GATE TYPE—Bracing to be four 1½" I.D. and four 1¼" I.D. pipes. Backboard to be connected to two 2" I.D. pipes, each hinged at one end and with opposite ends having detachable fittings. Braces to extend backboard________ft.________in. (specify distance).

All bracing to be guyed with ⅜" steel cross rods equipped with screw type turnbuckles. When required, braces shall also be equipped with spacer pipes.

WALL SUPPORTED BACKSTOPS

No. 55 WALL RIGID TYPE—Four 1¼" I.D. pipe supports shall extend backboard________ft.________in. (specify distance). Provide two sets of horizontal cross guys and one set of oblique hanger rods of ⅜" diameter with screw turnbuckles.

No. 421 WALL RIGID TYPE—Two 2" I.D. pipe supports shall extend backboard________ft.________in. (specify distance). Two 1½" I.D. brace pipes of suitable length. Provide horizontal cross guys of ⅜" diameter steel rods with screw turnbuckles.

No. 821 WALL RIGID TYPE—Four 1½" I.D. pipe supports to extend backboard ________ft.________in. (specify distance). Provide two sets of horizontal cross guys and one set of oblique hanger rods of ⅜" diameter with screw turnbuckles.

No. 472 WALL SWING-UP TYPE—Same as No. 421, except indicate hinge type fittings and include sheave, winch and hoist cable specifications.

No. 404 WALL SWING-UP TYPE—Four 1¼" I.D. pipe supports to extend ________ft.________in. (specify distance). Furnish two sets of horizontal cross guys of ⅜" diameter steel rod equipped with screw turnbuckles. Two ¼" diameter steel stay cables at approximately 45° to fasten at backboard top and to wall stringer. Stay cables to have screw turnbuckle adjustment. To have wall mounted winch and hoist cable for raising and lowering.

No. 405 SIDE SWING WALL TYPE—Four 1¼" I.D. pipe supports to extend backboard________ft.________in. (specify distance). Furnish horizontal cross guys of cable equipped with instantaneous turnbuckles. Two ¼" diameter steel stay cables at 45° fastened to top of board and wall stringer. With screw turnbuckles provide two pull ropes, necessary sheaves and rope cleats for moving to open or closed position.

No. 820 WALL GATE TYPE—Attach to wall by stringer. Four 2" I.D. pipe supports to extend backboard________ft.________in. (specify distance). Supports shall be mounted on two vertical 2" I.D. pipes with hinged malleable fittings. Provide one set of horizontal cross guys with instantaneous turnbuckle with screw adjustment and one set of oblique hanger rods of ½" diameter steel with screw type turnbuckles. Include hand screw locking arrangement to permit backboard to be disconnected for swinging backboard and pipe supports to wall.

FIELD HOUSE BACKSTOPS

No. 455 FIELD HOUSE BACKSTOP—Shall permit lowering backboard and extensions between uprights. Base to be two castings joined by three 2" I.D. cross pipes. Uprights shall be 3" I.D. pipe. Braces to be 2½" I.D. pipe. Base to have four concealed steel casters operated by foot lever. Backboard to be 7′0" from uprights. Four extensions shall be 1½" I.D. pipe and guyed with ½" steel rods and screw turnbuckles. Hand operated geared winch included for raising and lowering backboard.

No. 533 FIELD HOUSE BACKSTOP—Shall permit lowering backboard and extensions between uprights. Base to be two castings joined by three 2" I.D. cross pipes. Uprights shall be 3" I.D. pipe; braces to be 2½" I.D. pipe. Base to have four concealed steel casters, operated by foot lever. Backboard to be 10′ from uprights. Four extensions to be 2" I.D. pipe. Vertical strut and spacer pipes of 2" I.D. size. ¼" diameter 6 x 9 wire cable fastened to roof structure shall provide additional support for backboard in raised position. To have wall mounted winch and hoist cable for raising and lowering of backboard.

No. 634 FIELD HOUSE BACKSTOP—Same as No. 455 type, except to be rigid and without winch. Concrete counter weights to be supplied by owner.

No. 555 FIELD HOUSE BACKSTOP—Shall be of 6 inch pipe of L shaped design. Shall mount in a floor flange embedded in concrete slab (reinforced concrete slab by owner). Bolted flange connections to be below floor level to permit removal as desired. (Cover plate for floor opening by owner.) Sufficient extension to place backboard 10′ from upright.

BACKBOARDS AND GOALS

STEEL FAN-SHAPED BACKBOARD & COMPANION GOAL—Official 35" by 54"; drawn from 12 ga. steel with 1½" flanges. Finish white enamel. Goal of welded steel ring with "Slip-on" attachments for heavy-duty net. Goal to have orange enamel finish. Goal of welded steel ring with "Slip-On" attachments for 120 thread retarding type net also included.

TRANSPARENT FAN-SHAPED BACKBOARD & COMPANION GOAL—Official 39" x 54". To have metal frame; with Herculite imbedded in Neoprene. To have goal mounting plates front and rear with Neoprene sheeting, front plate fastened to frame. Border and target to be fired vitreous white enamel (on back surface). Goal to have orange enamel finish. Goal of welded steel ring with "Slip-On" attachments for 120 thread retarding type net also included.

WOOD RECTANGULAR BACKBOARD & COMPANION GOAL—Official 4′0" by 6′0", ¾" 5-ply fir, on yellow pine frame. Corners, tongue-and-groove joined. Frame to have 4 vertical braces. Board shall have one coat of flat white finish; backboard face, a second coat of white enamel. Goal to have orange enamel finish. Goal of welded steel ring with "Slip-On" attachments for 120 thread retarding type net also included.

TRANSPARENT RECTANGULAR BACKBOARDS & COMPANION GOAL—Official. To have metal frame; with ½" thick Herculite imbedded in Neoprene. To have goal mounting plates front and rear with Neoprene sheeting. Rear plate to be connected to safety rod. Border and target to be fired vitreous white enamel (on back surface). Goal to have orange enamel finish. Goal of welded steel ring with "Slip-On" attachments for 120 thread retarding type net also included.

(NOTE: *Installation Hardware is not furnished with backstops as erection conditions vary greatly.*)

GENERAL

FINISH—All parts, except backboards, goals, cables, ropes, bolts and nuts, shall be finished in black enamel. Wood stringers to be natural finish.

NOTE: *If other finish desired, specify at job site by painting contractor.*

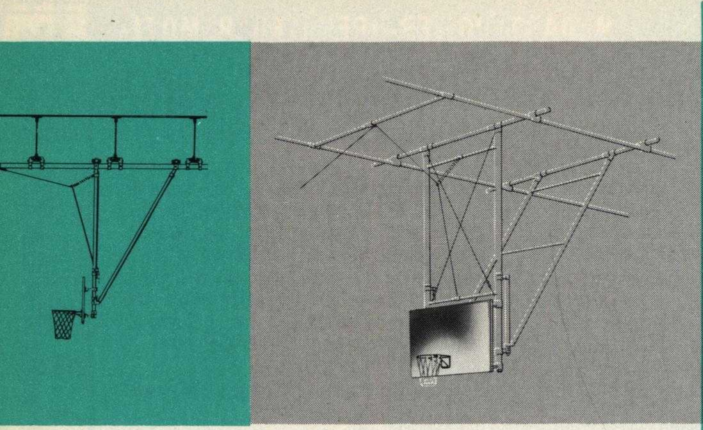
SHEAVES, ETC.—Swing up backstops shall be equipped with suitable sheaves and other fittings to permit easy hoisting.

WINCH AND HOIST CABLE—Winch to be enclosed type, worm gear design. Winch shall be operated by—(specify hand crank, portable operator, or remote control). Hoist cable to be of good quality steel.

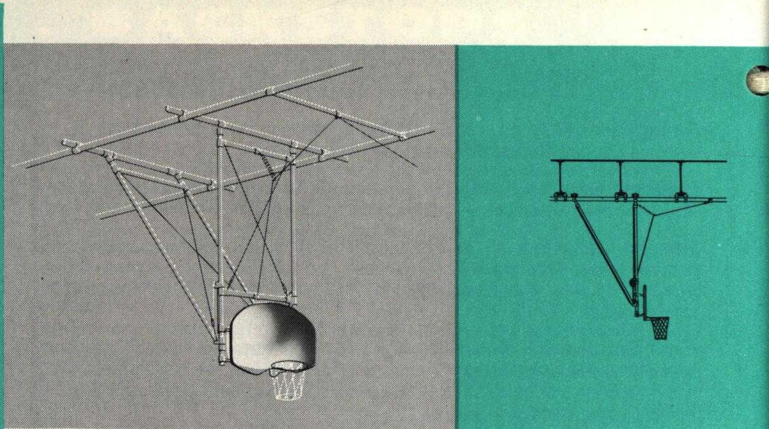
NOTE: *More detailed specifications are available, if desired.*

HERCULITE is the registered Trade
Mark of The Pittsburgh Plate Glass Co.

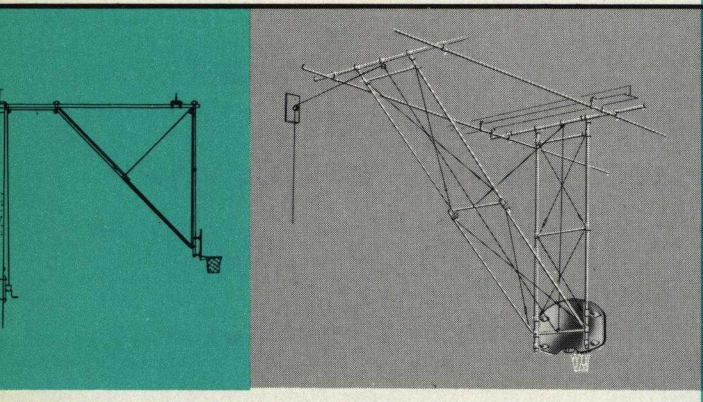
TYPICAL SUSPENDED TYPES OF MEDART BASKETBALL BACKSTOPS



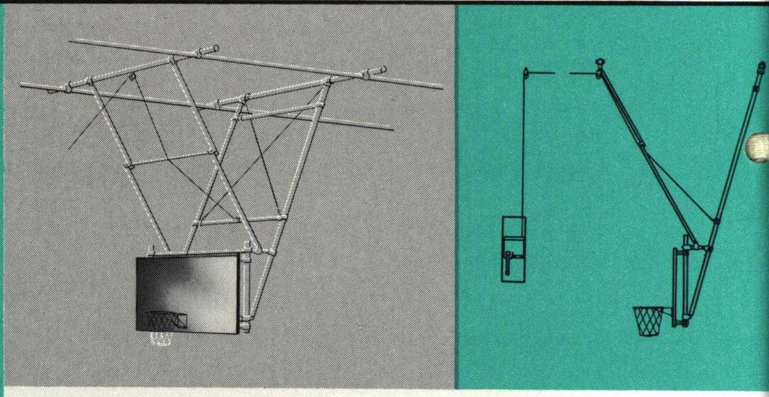
No. 270 Self-Braced Forward Swing-Up. Welded drop and brace frames assures exceptional rigidity. Slide rod connection between drop and brace frames is equipped with adjustment nuts to provide simultaneous seating when backstop is lowered. Fully automatic action with power operation.



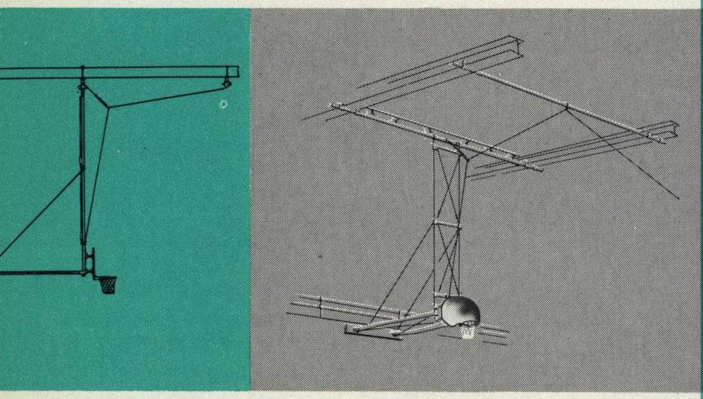
No. 261 Self-Braced Forward Swing-Up. For use in front of stage, balconies, or where wall must be kept clear. This backstop features exclusive locking mechanism which automatically disengages when backstop is hoisted.



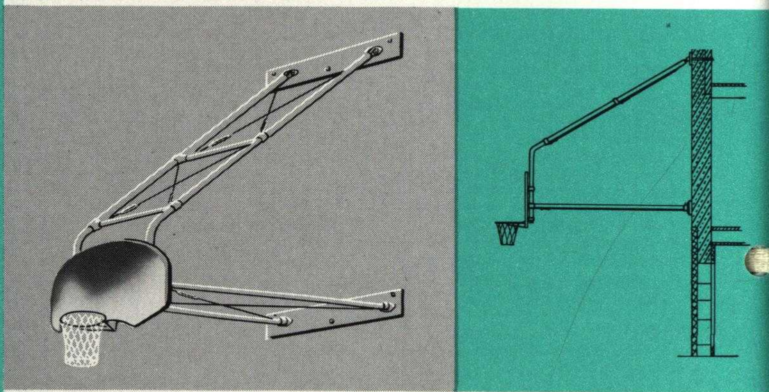
No. 271 Backward Swing Up. Whenever space and other building conditions permit, this type of backstop can be installed. The rear braces are jack-knife construction, folding together as the backstop is raised.



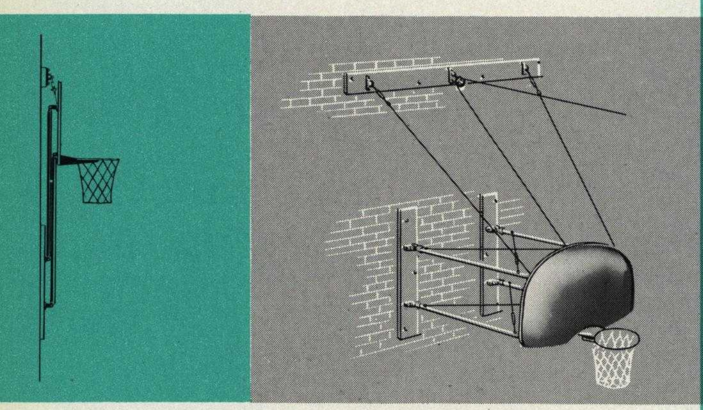
No. 276 Forward Swing-Up. Used where backboard must be placed close to wall or folding partition. Forward type bracing is jack-knife type, folding when backstop is raised.



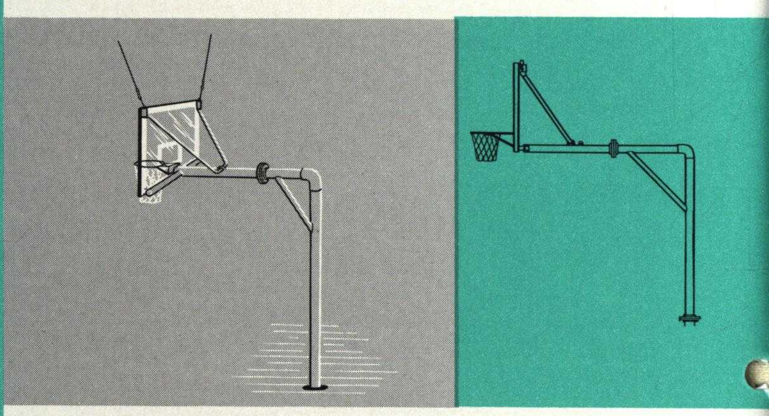
No. 272 Structure-Braced Forward Swing-Up. Can be braced to wall, balcony or stage floor. Hand screw or toggle bolt secured braces . . . easily unfastened for hoisting.



No. 421 Modified Fixed Wall-Braced. Recommended when wall is sturdy and board must be extended more than 8'0" and conditions do not interfere with stringer location. (Can be hinged to swing up if desired—No. 472.)



No. 404 Wall-Braced Swing-Up. Often used instead of suspended swing-up backstop. Equipped with hinged pipe supports, backstops can be folded up and back against wall. Extensions up to 8'0".



No. 555 Field House Type. Recommended when trusses are extremely high. Can be unbolted from mounting flange imbedded in concrete slab which is below floor surface.

National Basketball Committee Rules permit "6 inch extension" as official. This is Medart Standard.

FRED MEDART PRODUCTS, INC.
3562 DEKALB STREET, ST. LOUIS 18, MISSOURI • PHONE: PROSPECT 6-1880

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Pi

SAFE *seating with the strength of steel*

VERSATILE *unit-section construction*

ECONOMICAL *in installation*

PERMANENT *investment value*

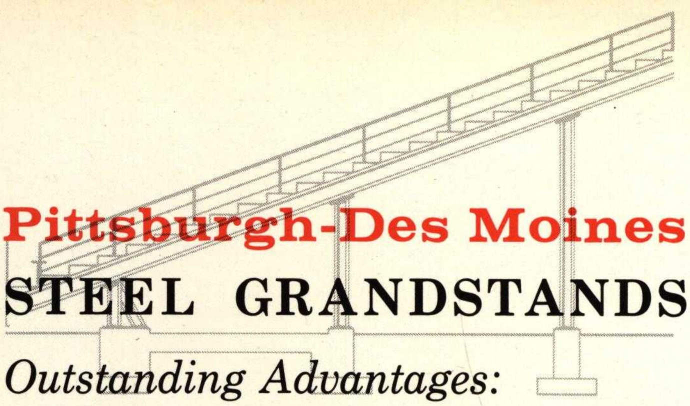
plus

complete design flexibility

PDM
STEEL GRANDSTANDS

STEEL GRANDSTANDS by Pittsburgh-Des Moines

for schools and colleges, municipalities, fairgrounds, racetracks, industrial athletic fields, ball parks, etc.



Pittsburgh-Des Moines
STEEL GRANDSTANDS

Outstanding Advantages:

SAFE—The first requirement of spectator seating—absolute safety—is met to the full by PDM Steel Grandstands. They conform easily to the most rigid building codes.

KNOWN PHYSICAL FACTORS—No hidden elements. The stand is built of steel with definite, uniform physical properties, to strict applicable codes. Strength and soundness are clearly evident.

STURDY—Steel plates form the deck. Strong steel columns, beams and braces support it, with ample reserve strength for unusual stress conditions.

WATERTIGHT—Weatherproof steel deck permits use of underneath area for dressing rooms, toilets, concessions, storage, etc.

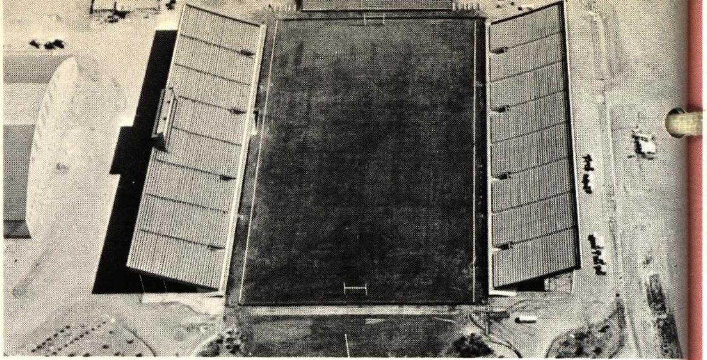
PREFABRICATED — All components of stand are factory-fabricated, permitting simple field construction.

UNIT SECTIONS — Unitized design with standard sections enables construction of stands of any size or arrangement, with easy expansion of capacity at any time.

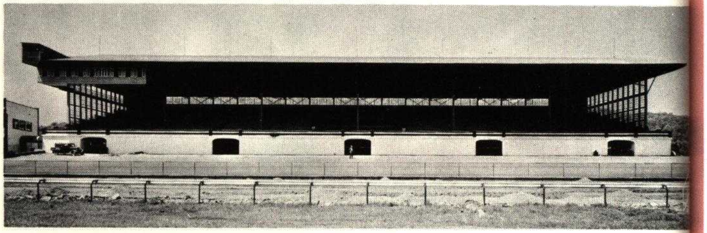
PERMANENCE — The properly-maintained steel stand does not age. It is immune to weather and season—can look like new for a lifetime of service.

ELASTICITY—The steel stand undergoes necessary contraction and expansion without change in steel properties, ideal in severe climatic or earthquake areas.

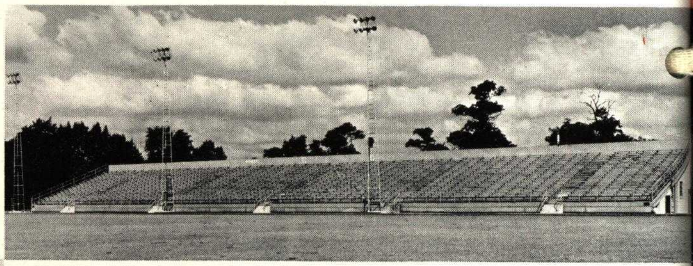
MOBILITY—PDM Stands are easy to dismantle and re-erect at different locations, when desired.



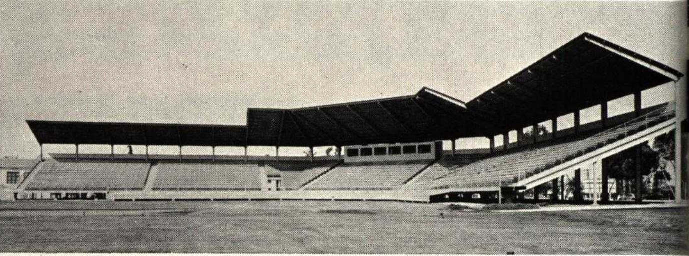
University of Wyoming, Laramie, Wyo., 15,000 seats.



Racetrack Grandstand, Waterford Downs, W. Va. 5,000 seats

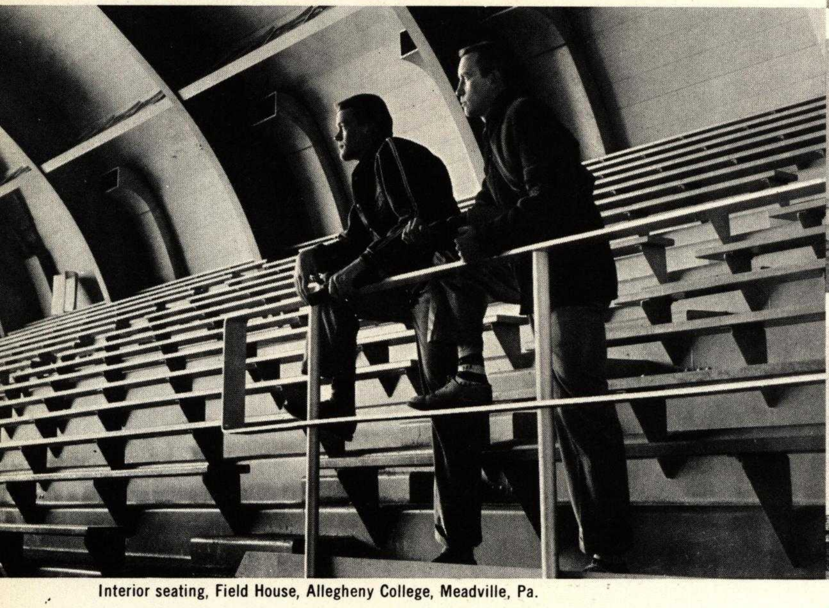


High School Stand, Coraopolis, Pa. 3,600 seats

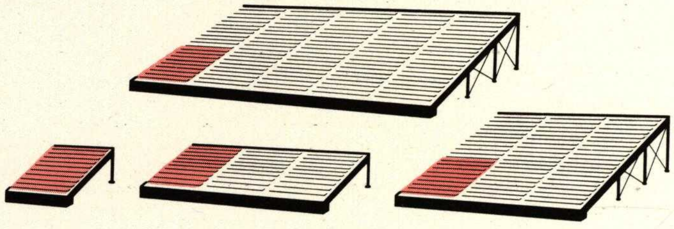


Covered Baseball Stand, Long Beach, Calif. 3,700 seats

Fairground Stand, Merced, Calif. 2,600 seats



Interior seating, Field House, Allegheny College, Meadville, Pa.



Basic design factors

With a basic standard unit section 18 feet long and 10 rows deep, your PDM Stand can be any number of sections long by any number of sections deep—individually engineered to fit your layout. Stands can be on one or both sides of the field, horseshoe-shaped, or full oval. Sections may be added at any time to increase capacity in width, depth, or both—always presenting a finished and substantial appearance.

Expansibility

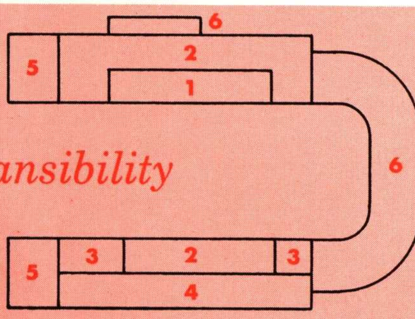
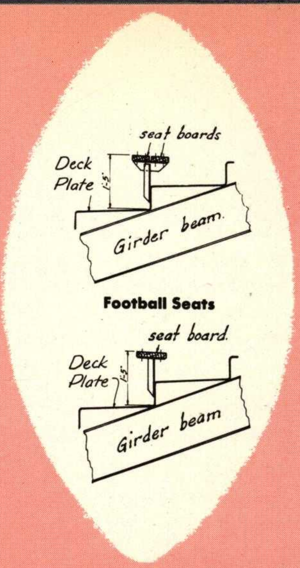


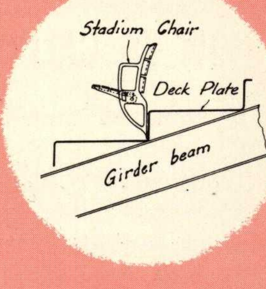
Diagram shows actual 6-step expansion sequence of Pennsylvania State University's PDM Stand from 2400-person capacity in 1934 (1) through additions in 1936 (2), 1937 (3), 1939 (4), 1948 (5) and 1949 (6) to a capacity of 30,000. In 1959-60, the entire structure is being dismantled, moved to a new field and expanded to 45,000 capacity.

Seat spacing and aisle widths

In stadium layout, seat and row spacing must be considered carefully. Leg room must be sufficient, and seat spacing correct for requirements. For bleacher seats, standard *tread width* is 24″. When stadium chairs are desired for box seats or baseball, a tread width of 27″ to 30″ should be used. *Seat width* for bleachers can be 16½″ or 18″. The narrower width is recommended for mixed adult and children attendance—the 18″ width for adults predominately, as in college stands. *Aisles* vary from 3′ minimum. *Aisle spacing:* length of rows should not exceed 51′ for bleacher seating, nor 36′ when chairs are used. *Standard riser* is 8½″, consisting of 7½″ in riser and 1″ tread slope for drainage. Special situations may require greater slopes.



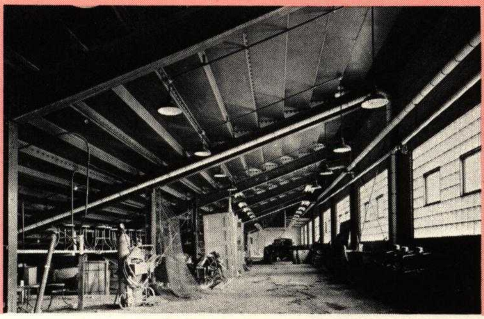
Football Seats



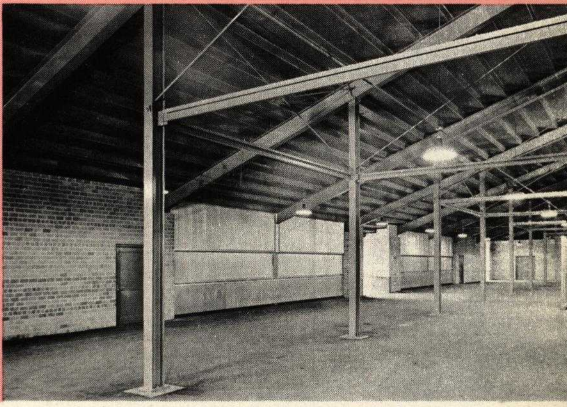
Baseball Seat Type

weathertight steel deck—a bonus value for economical underdeck development

Shower and locker room facilities.



Equipment storage, etc.



Concession stands, telephones, ticket booths.

FOR CALCULATING SEATING CAPACITY—SEE FOLLOWING PAGE

Specification points to check

General—Description of Grandstand, including length, number of rows, and seating capacity desired. Location of site.

Design and workmanship—Design shall be in accordance with the best modern engineering practices. Workmanship shall be equal to the best modern practices, and of such quality as to produce in construction the full strength intended by the designer.

Loadings—The following types of loading must be considered in grandstand design: Dead load. Live load on seats, deck and supporting structures. Sway load (a) in a direction perpendicular to the length of the seats, and (b) in a direction parallel to the length of the seats. Wind load, on a vertical projection of the stand including railings, (a) when stands are fully loaded, and (b) when stands are empty.

Foundations—Give soil conditions. Give depth of frost.

Materials of construction—Steel shall conform to the Standard Specifications of the American Society for Testing Materials (ASTM) and the American Institute of Steel Construction (AISC) for buildings and other structural steel. Give minimum thickness of components. Lumber for seat boards shall be white oak, or vertical grain quarter-sawed fir lumber, finished two sides and two edges with "eased" top corners. Other material shall be suitable, of uniform quality, and without defects affecting the strength or service of the grandstand.

Allowable Stresses—All steel components of the structure shall be so proportioned that the stress shall not exceed the value set forth in the AISC Specification. Other materials where used shall be so designed and proportioned that their stresses shall not exceed the allowable unit stresses generally accepted as safe by engineering practices.

Special Requirements—The grandstand shall be of solid steel deck plates supported by steel girders, columns and bracing. Deck plates shall be flanged or bent into steps for stiffness and shall be shingle-lapped and bolted or welded to make the deck weather tight. The treads shall be not less than 24″ wide and sloped for drainage. Height of riser shall be not less than 7″. The seat lumber shall be securely bolted to steel pedestal supports spaced about 4′6″ center to center. The seat height shall be 17″ above steel treads. A steel apron plate shall be provided along front of stand extending from front treads down to within 4″ of the ground. One steel flashing plate shall be provided for each end of stand and each side of wells. These plates shall be attached to deck plates to conceal both the girders and the end of deck plates.

Hand Rails—Hand rails conforming to local safety codes shall be provided along the front, both ends and the rear of the stand, and for ramps, stairs and wells.

Aisles—consult local building codes. Spacing of aisles (a) seats without backs, (b) seats with backs. Width of aisles. Distance between seats: the horizontal distance back-to-back of seats shall be not less than 24″.

Welds—shall be made only by operators who have been previously qualified by test, as prescribed in the "Standard Qualification Procedure" of the American Welding Society to perform the type of work required, except that this provision need not apply to tack welds not later incorporated into finished welds carrying calculated stress.

Painting—The paint shall consist of two coats applied to all surfaces and one additional coat on top of deck of stand. The first coat shall be applied at place of manufacture. During the application of the first field coat clean white silica sand shall be applied to top of deck. After this paint has dried the excess sand shall be removed by sweeping or blowers and an additional coat of paint applied.

Pittsburgh-Des Moines Steel Grandstands

Pittsburgh-Des Moines Steel Deck Grandstands

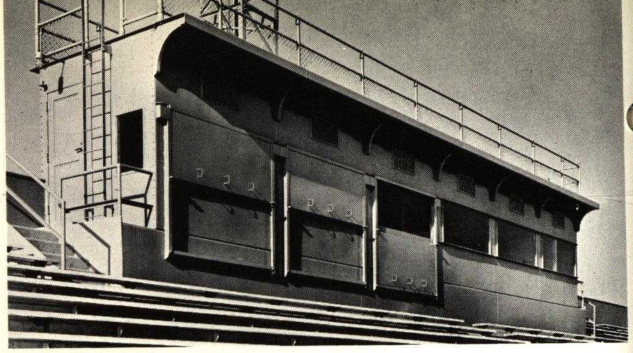
HOW TO CALCULATE SEATING CAPACITY

A standard unit or section of PDM Steel Deck Grandstand is 18'-0" long by 10 rows (20 feet) deep. In calculating seating capacity of a grandstand due allowance must be made for the space required for aisles, wells, etc. It is therefore assumed that, as an average, only 16'-6" of the 18'-0" length of each bay will be used for seating. Thus, with 16½" allowed per seat, each standard section will have 120 seats. If 18" are allowed per seat, each standard section will have 110 seats. The seating capacity of a straight stand may, therefore, be calculated as follows:

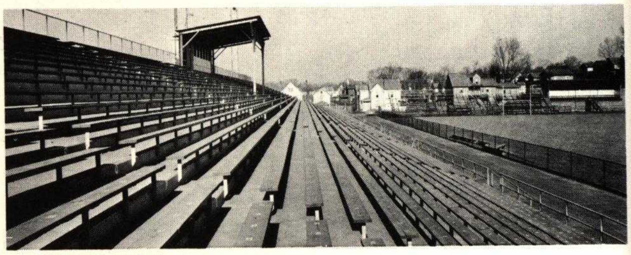
For 16½" Seat Width
Number of seats = length of stand in feet x number of rows x (12/18)

For 18" Seat Width
Number of Seats = length of stand in feet x number of rows x (11/18)

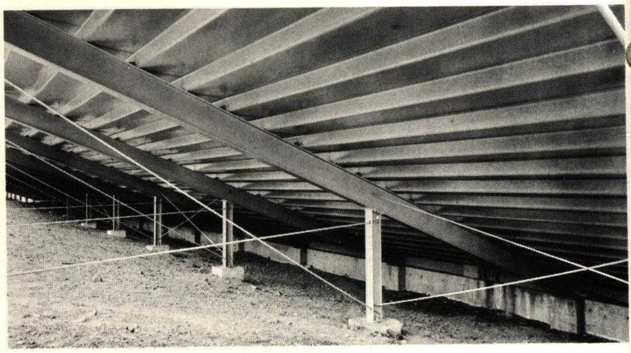
The seating capacities listed in the following table are based on 16½" seat widths. If the stand is to be laid out for 18" seats, the seating capacities listed in the table are reduced by 8⅓ percent.



All-steel press box.



Sturdy steel deck.



Protected, rubbish-free underdeck area.

CAPACITY TABLES FOR VARIOUS STAND LENGTHS AND DEPTHS

Length of Stand—in Feet.......		18' 0"	36' 0"	54' 0"	72' 0"	90' 0"	108' 0"	126' 0"	144' 0"	162' 0"	180' 0"
Depth of Stand	10 Rows (20' 0")....	120	240	360	480	600	720	840	960	1080	1200
	20 Rows (40' 0")....	240	480	720	960	1200	1440	1680	1920	2160	2400
	30 Rows (60' 0")....	360	720	1080	1440	1800	2160	2520	2880	3240	3600
	40 Rows (80' 0")....	480	960	1440	1920	2400	2880	3360	3840	4320	4800
	50 Rows (100' 0")....	600	1200	1800	2400	3000	3600	4200	4800	5400	6000
	60 Rows (120' 0")....	720	1440	2160	2880	3600	4320	5040	5760	6480	7200

Length of Stand—in Feet.......		198' 0"	216' 0"	234' 0"	252' 0"	270' 0"	288' 0"	306' 0"	324' 0"	342' 0"	360' 0"
Depth of Stand	10 Rows (20' 0")....	1320	1440	1560	1680	1800	1920	2040	2160	2280	2400
	20 Rows (40' 0")....	2640	2880	3120	3360	3600	3840	4080	4320	4560	4800
	30 Rows (60' 0")....	3960	4320	4680	5040	5400	5760	6120	6480	6840	7200
	40 Rows (80' 0")....	5280	5760	6240	6720	7200	7680	8160	8640	9120	9600
	50 Rows (100' 0")....	6600	7200	7800	8400	9000	9600	10200	10800	11400	12000
	60 Rows (120' 0")....	7920	8640	9360	10080	10800	11520	12240	12960	13680	14400

The wide experience of our grandstand engineers in solving outdoor seating problems is at your service upon request—from counsel in site selection, through general design of stand and field layout, to the details of accessory and auxiliary installations. Write or telephone our nearest office.

PDM
STEEL GRANDSTANDS

Pittsburgh-Des Moines Steel Company
Plants at PITTSBURGH, BALTIMORE, DES MOINES, SANTA CLARA, FRESNO and STOCKTON, CALIF.

Sales Offices at:

PITTSBURGH (25) .... 3444 Neville Island
BALTIMORE (26) .... Curtis Bay Station
NEW YORK (17) .... Suite 2737, 200 E. 42d St.
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ATLANTA (5) ... 361 E. Paces Ferry Rd., N. E.
DES MOINES (8) .... 945 Tuttle Street
DALLAS (1) .... 1249 Praetorian Building
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EL MONTE, CAL. .... P. O. Box 2012

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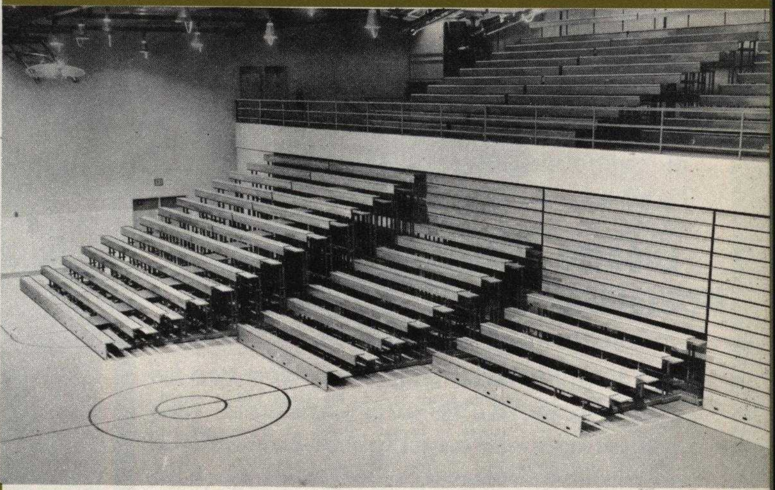
SAFWAY

SPECTATOR SEATING

TELESCOPING GYM SEATS



OPERATION . . . few moving parts and minimum metal against metal friction permit operating Safway Telescoping Gym Seats with the least amount of effort. Extra large wheels, straight line tracking and nylon glides at each point of metal contact help achieve this ease of operation.

SAFETY . . . Eight structural steel columns under each row and extensive steel bracing give Safway gym seats rugged dependability. Three separate exclusive safety devices insure complete reliability under all operating conditions.

APPEARANCE . . . Specially compounded sealer and high gloss varnish on seat and foot boards give Safway's vertical cabinet the finished appearance of fine wood paneling.

COMFORT . . . Extra wide top seat, spacious toe and heel room and inclined seats are some of the Safway features promoting spectator comfort. Choice of seat spacing dimensions lets you plan for your specific gymnasium requirements.

MULTIPLE USE . . . One or any number of rows can be locked open as required, for partial seating capacity for such gym activities as social affairs, chalk talks and lectures. Hydraulically raised movable gym seats are also available.

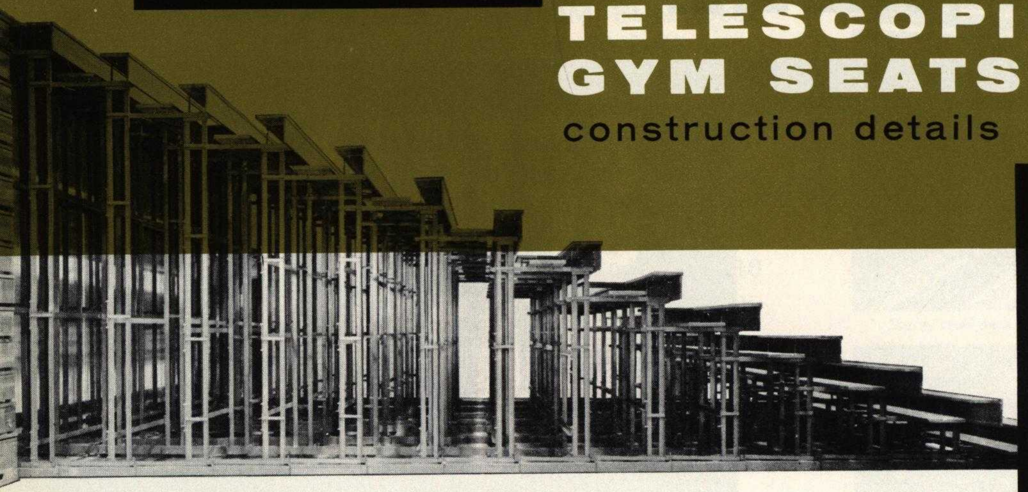
FLOOR PROTECTION . . . Non-marking wheels prevent scuffs and scratches and the wheels roll in adjacent paths to prevent grooving the floor. At no time does bare metal touch the floor. Floating floors are free to expand or contract without hinderance.

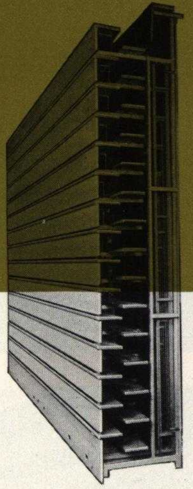
SAFWAY STEEL PRODUCTS, INC.
6228 WEST STATE STREET • MILWAUKEE 13, WIS.

SAFWAY

TELESCOPING GYM SEATS

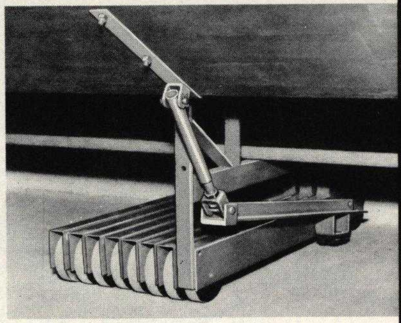
construction details





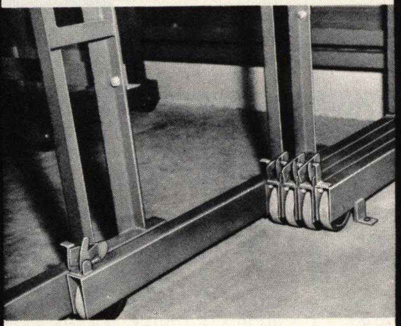
CLOSED CABINET . . . From three to twenty rows, Safway gym seats telescope into a self-contained cabinet just 3-feet deep. When nested, the cabinet face is completely vertical, eliminating projections that might injure players running close to the wall.

LOCKING MECHANISM

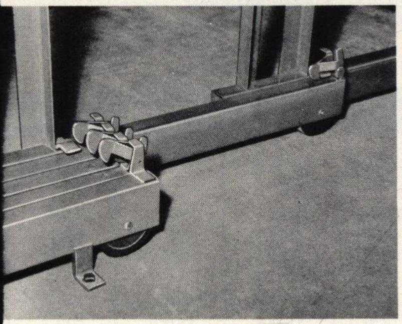


BRAKE RELEASED . . . With the first row apron board raised, the brake pad is raised from the floor, allowing the section to be moved in or out. (Note: 4 brake pads per full section).

BRAKE SET . . . With the apron board in the closed position, the brake pads are forced into contact with the floor, locking the section in any position. The apron board is equipped with a key operated cylinder lock, securing the apron boards, preventing unauthorized operation. (All locks are keyed alike).



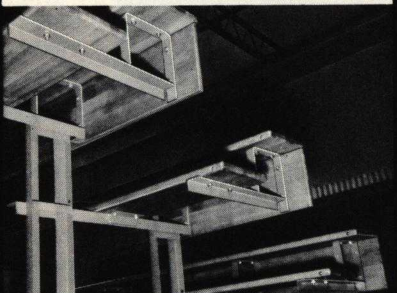
ROW LOCKS ENGAGED . . . As each row is extended individually, the row lock at the front of each wheel carriage engages the lock bar on the adjacent wheel carriage ahead. Each row is locked to the adjacent row in this manner, preventing any movement between rows. Any rearward movement, therefore, would require movement of the entire section.



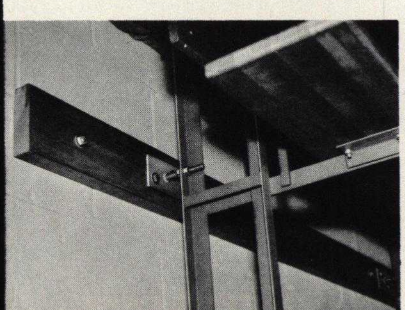
ROW LOCKS RELEASED . . . As the section is closed, the rearmost moving row takes its nested position. The projecting bar from the nested row trips the row lock, allowing the next row to move into its nested position. This process is repeated for all succeeding rows until the section is fully closed. Release of each row lock is automatic, providing a **smooth successive closing action** of individual rows. Since all rows are locked together, the section moves rearward as a unit, eliminating all binding and assuring a uniform closing action.

GENERAL OPERATION

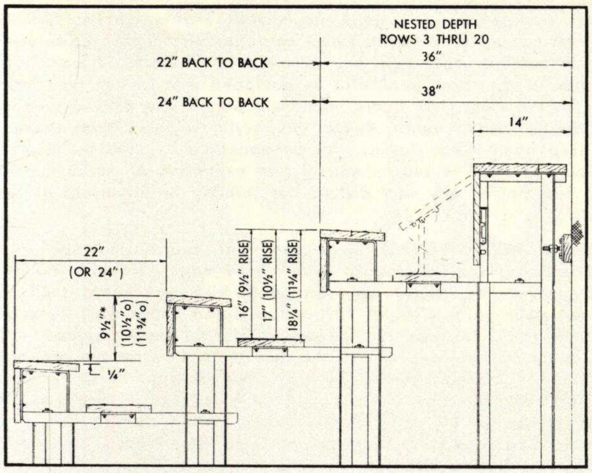
All seat rows are free standing and independent of adjacent rows. As each row is extended to its full open position, the row travels its full open distance before engaging the next row. This action sequence is repeated until the entire section is opened.



OVERHANG SUPPORTS . . . Additional steel support brackets are provided to eliminate flexing action of seat and foot boards on installations where overhang and distance between supports exceed normal design.



WALL AND FLOOR CONNECTIONS . . . The rear member of each section is connected to wood wall liners, anchored to the wall at the top and bottom and fastened with adjustable connectors. These members are mounted on wheels to allow full and free expansion and contraction of the floor. The slip connector fastened to the floor is free to move with the floor, maintaining a constant lateral base alignment of the rear member.



COMFORTABLE SEATING

Depending upon your needs, you may select the best combination of seating dimensions from the diagram above.

Each seat area has comfortably wide leg room with additional space for toe and heel movement. Each seat board slopes slightly to the rear to help spectators achieve their own best balance. And every seat is usable — even the top seats against the wall. Safway provides an extra wide top seat board for sufficient back room.

SMOOTH OPERATION

Nylon glides are provided on the metal structural members to eliminate any metal to metal friction in movement and to assure a smooth operation of the unit without binding.

STEEL COLUMNS

Eight structural steel vertical angles under every standard length row are welded into pairs to the lower wheel carriages. The columns are stabilized by angle steel braces to insure strength and rigidity.

WHEELS AND CARRIAGES

Two large wheels under each column (eight wheels under each row) ride in the industry's longest wheel carriage for extra stability. By interlocking the carriages, the wheels are locked in place under the columns transferring spectator loads directly to the floor. Each rubber wheel is non-marking and equipped with self-lubricating bearings.

MOTORIZED OPERATION AVAILABLE
NONE REQUIRED UNDER 14 ROWS

The exclusive strength, safety and comfort features described have been developed for the utmost in safety and reliability under all operating conditions. With the well-being of your spectators at stake, Safway has spared nothing in the design and fabrication of quality gymnasium seating. Safway Telescoping Gym Seats will give you many years of safe, trouble-free service.

Superior strength and operating ease are built into every Safway Telescoping Gym Seat installation.

Vertically, eight steel columns, welded into pairs, support each row of a standard section. Each row is braced against side sway by angle braces in the vertical plane. The vertical braces are extra efficient through wide spaced bolting to the columns.

Because all rows are interlocked, shock loads are evenly distributed throughout the entire structure. There are no critical parts subject to undue wear.

Safway's exclusive design incorporates a minimum of moving parts, reducing friction, drag and parts subject to malfunction. Nylon glides insure smooth movement. Large 4-inch by 1-inch flat faced wheels are self-lubricating and free moving.

Because opening or closing does not depend upon cross arms, scissors type levers, etc., each row rolls with minimum resistance. Power equipment is unnecessary.

In the open position, each row is locked in relation to the other rows, preventing any row from moving independently. In addition, any number of rows can be fixed in place. This is the most advanced safety device being offered.

From start to finish, every function of Safway Telescoping Gym Seats is designed and built for optimum capability. Every part is quality controlled. Every assembly is subjected to rigid performance testing. And, most important, every installation is guaranteed to meet all your requirements where it counts most—in your gymnasium.

FOR MORE DETAILED INFORMATION ABOUT
SAFWAY GYM SEATS AND
ENGINEERING AND PLANNING SERVICE

WRITE

SAFWAY STEEL PRODUCTS, INC.
6228 W. State Street
Milwaukee 13, Wis.

SAFWAY SPECIFICATIONS

SCOPE Furnish and install under factory trained supervision, Safway Telescoping Gym Seats as manufactured by Safway Steel Products, Inc., Milwaukee, Wisconsin, or approved equal, in accordance with plans as follows:

............Group(s) ....feet long ....rows high
............Group(s) ....feet long ....rows high

(Note: A group is any number of sections required for a given length of wall.) Entire installation shall be guaranteed for one year against faulty materials or workmanship.

OPERATION Gym seats shall operate on the telescoping principle and all columns, or foot and seat supports, shall roll on 4-inch by 1-inch flat faced self-lubricating rubber wheels. When closed, the front of the gym seats will present a flush vertical surface. Each row shall automatically and positively lock in relation to the adjacent rows as the gym seats are opened. Any number of rows may be pulled out and locked open by means of a friction brake operating against the floor and actuated by closing the front riser board. The gym seats shall be positively locked in the open or closed position by means of a cylinder lock mounted on the front riser board.

DESIGN (1) Gym seats shall support, in addition to their own weight, a uniformly distributed live load of not less than 100 pounds per square foot of gross horizontal projection. All seat and foot board members shall be designed for live loads of not less than 120 pounds per linear foot. Gym seats shall resist a horizontal sway force applied to the seats in a direction parallel to their length of 24 pounds per linear foot.

(2) Maximum height, open or closed, shall be ....
Maximum extended depth shall be ....
Nested depth for all rows, 3 to 20, shall be 36-inches for 22-inch back to back seat spacing, and 38-inches for 24-inch back to back seat spacing.
On wall-attached gym seats, this distance shall include a top row seat depth of 14-inches to provide as much seating comfort on the top row as on every other row.

(3) Each row shall have a depth of not less than 22-inches back to back of seat boards and a rise between rows of 10½-inches with a distance of 17-inches from seat to foot board. (A row depth of 24-inches back to back of seat boards and a 9½-inch rise with 16-inches from seat to foot board, or an 11¾-inch rise with 18¼-inches from seat to foot board may also be specified.) Horizontal toe room shall be at least 6-inches beyond foot board, and heel room shall be at least 3-inches behind foot board.

CONSTRUCTION All framework shall be of high quality rolled structural steel angles electrically welded during fabrication into the largest components that can be conveniently handled in the field. Bolted field connections will be held to a minimum. Standard sections shall be as near 16-feet in length as conditions permit. Each row of a standard section shall be supported by not less than 8 rolled structural steel angles welded into pairs to form rigid columns. Angle bracing between columns shall be adequate in size and so located that the all steel welded structure shall be entirely self-supporting before addition of wooden members. Each row shall have sets of angle braces. Each column shall be supported by two bronze bushed self-oiling 4-inch by 1-inch flat faced rubber wheels completely enclosed in a metal carriage. Metal against metal friction shall be reduced to a minimum by means of nylon glides located at the front and rear of the wheel carriages and at the top of the seat columns to permit maximum ease of operation. Gravity operated latches attached to the wheel carriages at the base of columns shall positively lock each row out with respect to each adjacent row. Each section of gym seats shall also be equipped with friction type locks operated by the front riser board which will permit any desired number of rows to be locked open. Keyed alike cylinder locks shall prevent unauthorized opening or closing. All permanent units shall be secured to the wall and floor in such a manner that expansion or contraction of the floor will not in any way disturb the stability or alignment of the gym seats.

WOODEN MEMBERS Seat and foot boards shall be solid industrial clear grade Douglas Fir with eased edges, finished 1-1/16-inches by 9¼-inches. The hinged basketball deflector board shall be edge glued clear grade Douglas Fir. Bottom apron board shall be edge glued clear grade Douglas Fir, hinged, reinforced and provided with hand holes for opening and closing the gym seats. A prop support shall hold this apron board, permitting easy access beneath the gym seats for cleaning. All riser boards shall be edge glued clear grade Douglas Fir, 25/32-inches by 7¼, 8¼ or 9½-inches. When closed, risers and seat boards shall form a vertical cabinet. Steel offset doweling is provided on ends of seat and foot boards to prevent end splitting. Laminated seat and foot boards optional.

FINISH All steel parts shall be finished with Gray baked-on enamel. Wood parts shall be factory finished on all exposed surfaces, prime coated with an Epon base finish, and hot sprayed with a final finish coat of a Golden Oak Phenolic varnish, control-dried to a tough wear-resistant hard coating. Completed wood shall be full bodied with protective coating of high lustre hard wax.

MOVABLE GYM SEAT SECTIONS Movable gym seat sections, up to ten rows high, shall be constructed to permit rolling the closed sections from area to area. Each movable section shall be raised onto oversized free-turning swivel casters for easy movement. When opened, the sections shall have the same stable characteristics as wall-attached sections.

ACCESSORIES The following accessories shall be furnished as requested:

GUARD RAILS Cadmium plated guard rails of not less than 1⅜-inches O.D. steel tubing shall be installed on the open ends of all gym seats.

END PANELS End panels shall be installed on all exposed ends of wall-attached gym seats.

AISLE STEPS Aisle steps 36-inches long and 12-inches wide shall be provided at seat level between seat boards and risers to effect a vertical aisle.

REMOVABLE SEAT AND FOOT BOARDS Removable seat and foot boards shall be provided, as required, for additional seating capacity between sections which must be kept separated because of doors, partitions, pilasters, etc.

SCORER'S TABLE A scorer's table with a tilted 8-foot by 16-inch plywood top and having a retaining lip on the lower edge shall be provided. No bolts shall be required for assembly.

NOTE: *Nothing above shall prohibit Safway from offering latest design innovations.*

TABLE OF DIMENSIONS AND CAPACITIES OF ONE STANDARD 16' SECTION

No. Rows	Capacity at 16" Per Seat	NESTED DEPTH*		EXTENDED DEPTH*		HEIGHT TOP SEAT		
		22" B-B	24" B-B	22" B-B	24" B-B	9½" Rise	10½" Rise	11¾" Rise
3	36	3'-0"	3'-2"	4'-10"	5'-2"	2'-11"	3'-2"	3'-4½"
4	48	3'-0"	3'-2"	6'-8"	7'-2"	3'-8½"	4'-½"	4'-4¼"
5	60	3'-0"	3'-2"	8'-6"	9'-2"	4'-6"	4'-11"	5'-4"
6	72	3'-0"	3'-2"	10'-4"	11'-2"	5'-3½"	5'-9½"	6'-3¾"
7	84	3'-0"	3'-2"	12'-2"	13'-2"	6'-1"	6'-8"	7'-3½"
8	96	3'-0"	3'-2"	14'-0"	15'-2"	6'-10½"	7'-6½"	8'-3¼"
9	108	3'-0"	3'-2"	15'-10"	17'-2"	7'-8"	8'-5"	9'-3"
10	120	3'-0"	3'-2"	17'-8"	19'-2"	8'-5½"	9'-3½"	10'-2¾"
11	132	3'-0"	3'-2"	19'-6"	21'-2"	9'-3"	10'-2"	11'-2½"
12	144	3'-0"	3'-2"	21'-4"	23'-2"	10'-½"	11'-½"	12'-2¼"
13	156	3'-0"	3'-2"	23'-2"	25'-2"	10'-10"	11'-11"	13'-2"
14	168	3'-0"	3'-2"	25'-0"	27'-2"	11'-7½"	12'-9½"	14'-1¾"
15	180	3'-0"	3'-2"	26'-10"	29'-2"	12'-5"	13'-8"	15'-1½"
16	192	3'-0"	3'-2"	28'-8"	31'-2"	13'-2½"	14'-6½"	16'-1¼"
17	204	3'-0"	3'-2"	30'-6"	33'-2"	14'-0"	15'-5"	17'-1"
18	216	3'-0"	3'-2"	32'-4"	35'-2"	14'-9½"	16'-3½"	18'-¾"
19▲	—	3'-0"	3'-2"	34'-2"	37'-2"	15'-7"	17'-2"	19'-½"
20▲	—	3'-0"	3'-2"	36'-0"	39'-2"	16'-4½"	18'-½"	20'-¼"

*Extended and nested depths shown above provide a top seat of approximately 14" to assure the same comfort for top row seats as on all others. Information for capacities and dimensions for higher rows than 18 available upon request.

▲19 and 20-row sections available in 18' to 20' lengths only.

SAFWAY STEEL PRODUCTS, INC.
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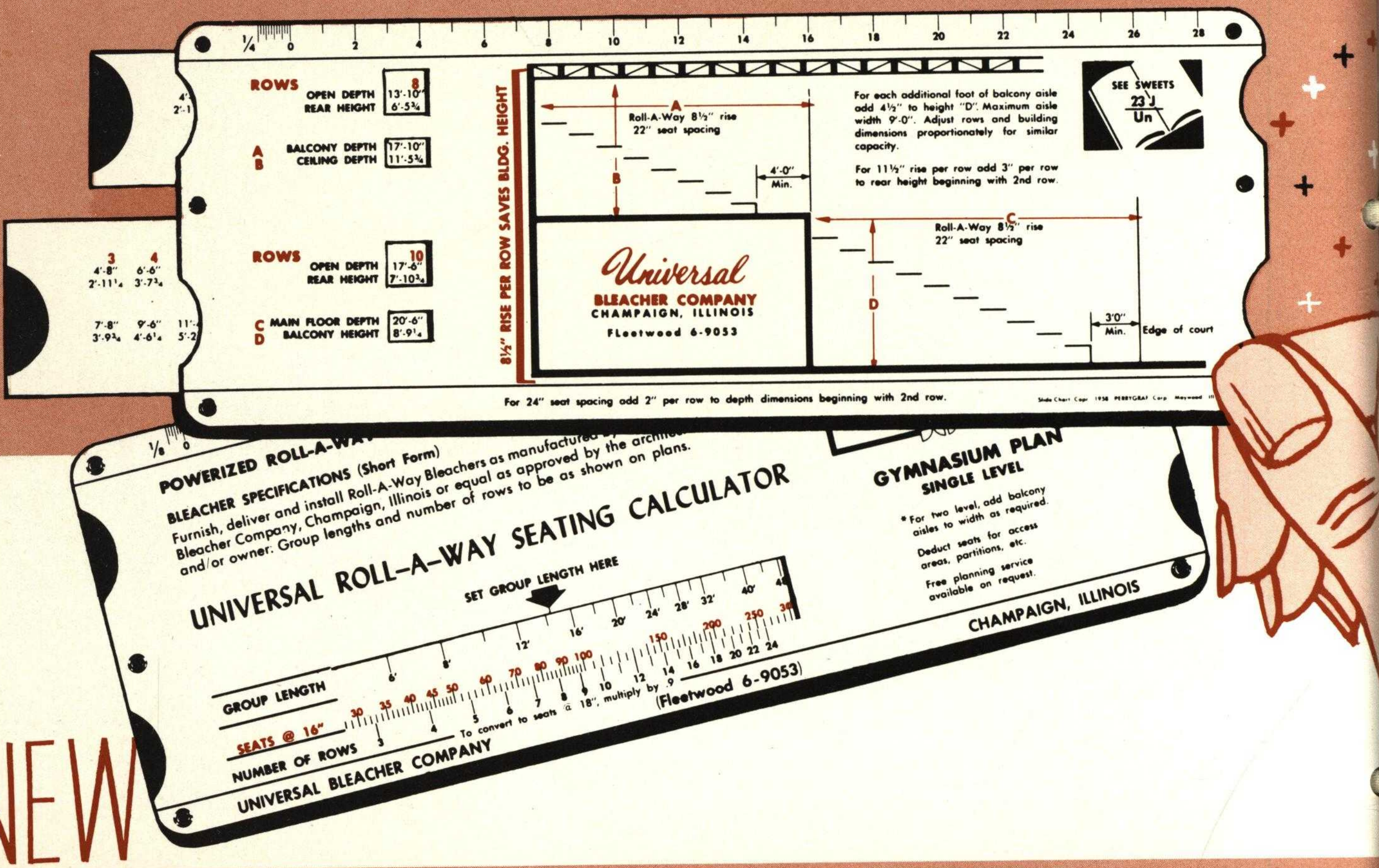
ROLL-A-WAY BLEACHERS

UNIVERSAL BLEACHER COMPANY • CHAMPAIGN, ILL.

For that New Gymnasium . . .

**Here is what you'll need
to plan the very best in *Safe, Comfortable Seating*
. . . yet SAVE THOUSANDS OF DOLLARS
on total building costs***


ROWS
OPEN DEPTH 13'-10"
REAR HEIGHT 6'-5¾
8
A BALCONY DEPTH 17'-10"
B CEILING DEPTH 11'-5¾
ROWS
OPEN DEPTH 17'-6"
REAR HEIGHT 7'-10¾
10
C MAIN FLOOR DEPTH 20'-6"
D BALCONY HEIGHT 8'-9¼
8½" RISE PER ROW SAVES BLDG. HEIGHT
Roll-A-Way 8½" rise
22" seat spacing
4'-0" Min.
For each additional foot of balcony aisle add 4½" to height "D". Maximum aisle width 9'-0". Adjust rows and building dimensions proportionately for similar capacity.
For 11½" rise per row add 3" per row to rear height beginning with 2nd row.
SEE SWEETS 23 J Un
Universal
BLEACHER COMPANY
CHAMPAIGN, ILLINOIS
FLeetwood 6-9053
3'0" Min.
Edge of court
For 24" seat spacing add 2" per row to depth dimensions beginning with 2nd row.
POWERIZED ROLL-A-WAY
BLEACHER SPECIFICATIONS (Short Form)
Furnish, deliver and install Roll-A-Way Bleachers as manufactured by Universal Bleacher Company, Champaign, Illinois or equal as approved by the architect and/or owner. Group lengths and number of rows to be as shown on plans.
UNIVERSAL ROLL-A-WAY SEATING CALCULATOR
SET GROUP LENGTH HERE
GROUP LENGTH
SEATS @ 16"
NUMBER OF ROWS
To convert to seats @ 18", multiply by .9
(Fleetwood 6-9053)
UNIVERSAL BLEACHER COMPANY
GYMNASIUM PLAN
SINGLE LEVEL
* For two level, add balcony aisles to width as required.
Deduct seats for access areas, partitions, etc.
Free planning service available on request.
CHAMPAIGN, ILLINOIS

NEW

ACCURATE SLIDE-RULE TYPE CALCULATOR

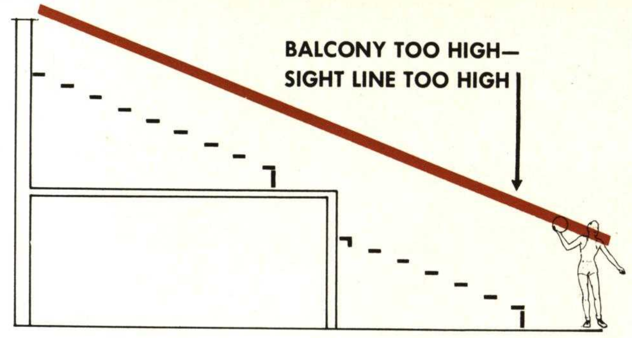
Designed by *Universal* engineers after years of on-the-job experience, this new slide-rule type calculator will be of valuable aid to you in planning a gymnasium with Roll-A-Way Bleacher seating. It figures seating capacity per gym size, and vice versa. It shows proper balcony height for ideal seating sight line in relation to main floor seating. At the same time, it shows how proper planning can reduce ceiling height to a practical minimum . . . for big savings in both building and heating costs. Send for yours today. There is no cost or obligation.

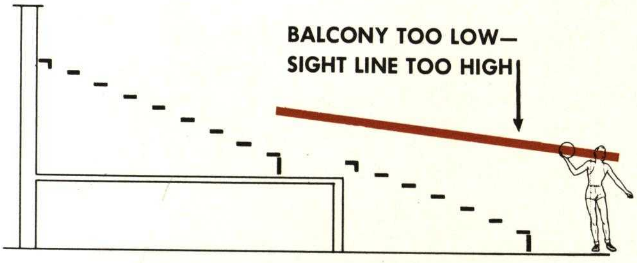
YOURS
for the asking!

USE POSTCARD ON PAGE 5;
NO POSTAGE REQUIRED

UNIVERSAL BLEACHER COMPANY • CHAMPAIGN, ILL.

How To Reduce Total Gymnasium Cubage . .

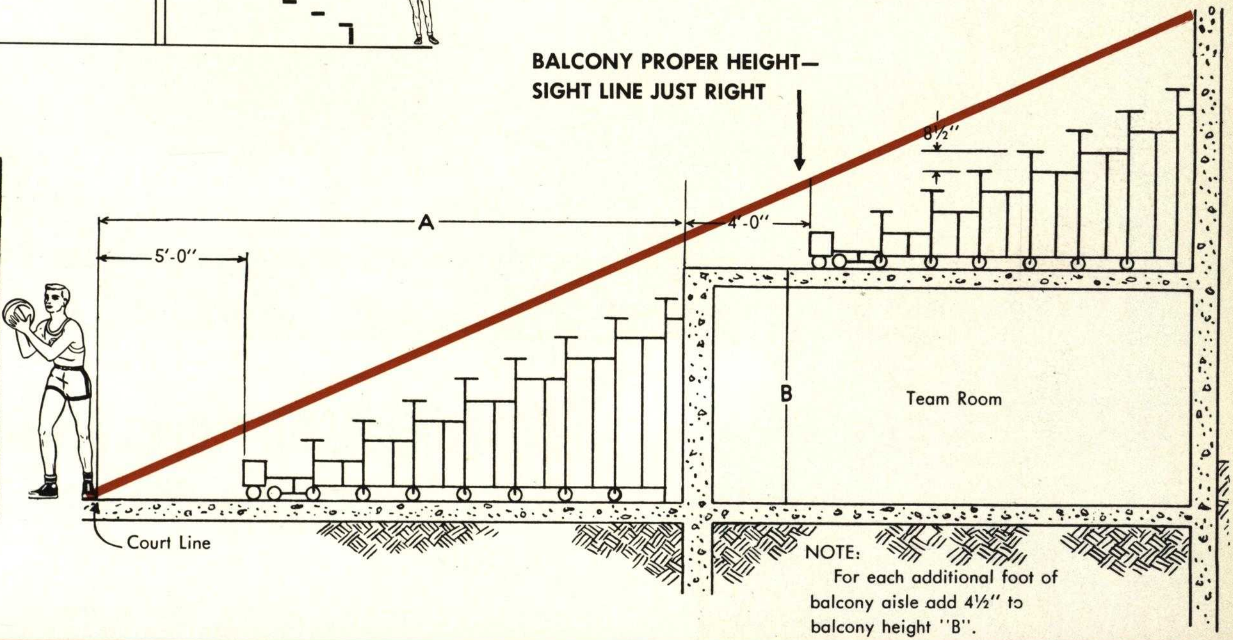

BALCONY TOO HIGH—
SIGHT LINE TOO HIGH


BALCONY TOO LOW—
SIGHT LINE TOO HIGH

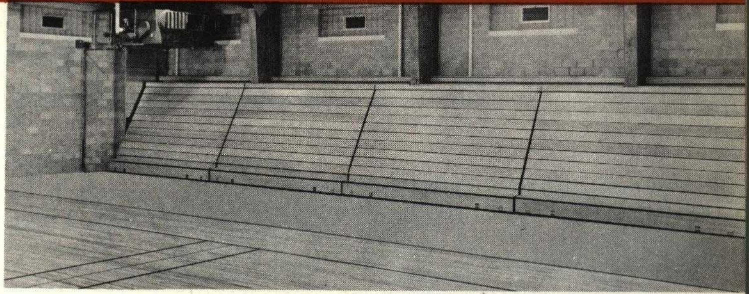
Years of experience in gymnasium planning have proved conclusively that the distance from front of balcony to playing court line bears a definite mathematical relationship to height of balcony floor level above main floor level. The 8½″ rise per row on *Universal* Roll-A-Way Bleachers provides the "just right" sight line, proven-in-use, *plus* a saving of up to 2″ per row in wall height. When multiplied by the number of rows on both main floor and balcony, it represents a considerable saving in total building cubage . . . *a very important feature today!*

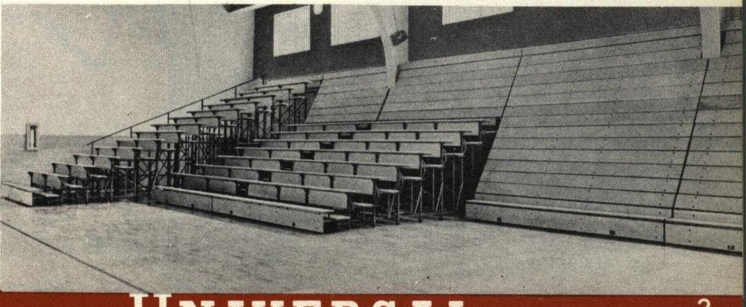
Using Roll-A-Way Bleachers on the balcony rather than fixed seating will give additional usable space for school activities. The table below (left) gives a quick method of determining the dimensions. Dimensions "A" and "B" bear a relationship to each other . . . so an adequate, proven-in-use sight line can be provided.

No. Rows, Main Floor		
Row	A	B
9	20′ 8″	8′ 0″
10	22′ 6″	8′ 9″
11	24′ 4″	9′ 5″
12	26′ 2″	10′ 2″
13	28′ 0″	10′ 10″
14	29′ 10″	11′ 7″
15	31′ 8″	12′ 3″
16	33′ 6″	13′ 0″


BALCONY PROPER HEIGHT—
SIGHT LINE JUST RIGHT
8½″
A
4′-0″
5′-0″
B
Team Room
Court Line
NOTE:
For each additional foot of balcony aisle add 4½″ to balcony height "B".

Roll-A-Way Bleachers are readily adaptable to all conditions of special gymnasium design, construction

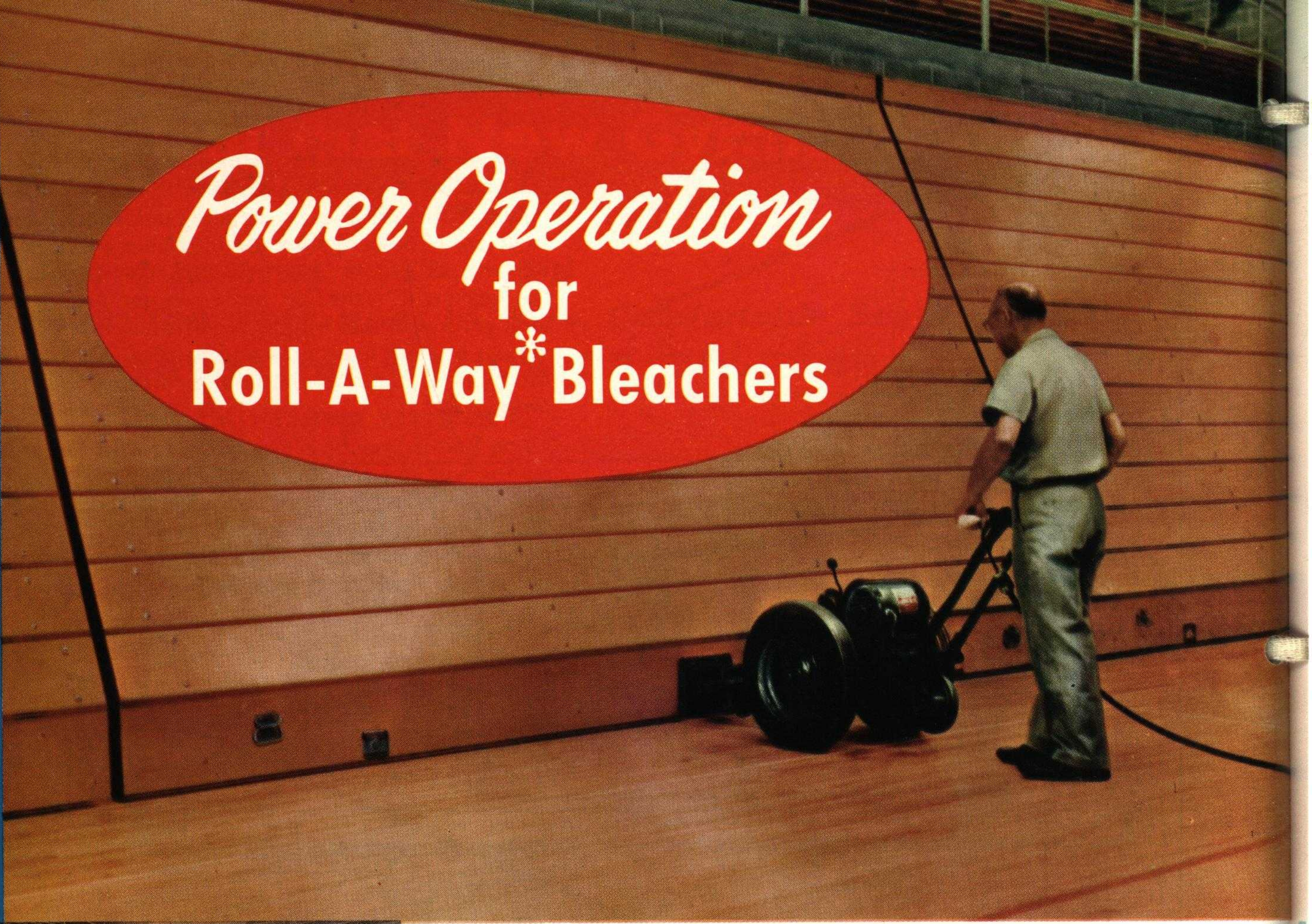


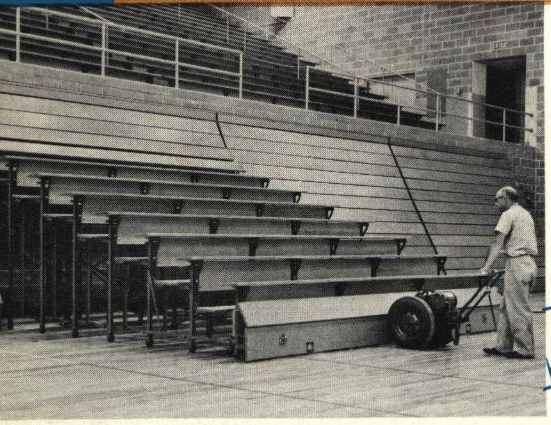


No matter how unusual your gymnasium design may be; no matter what type or dimension the columns, arches or trusses; no matter what the size or location of pipes, air ducts or ventilators . . . Roll-A-Way Bleachers are readily adaptable.

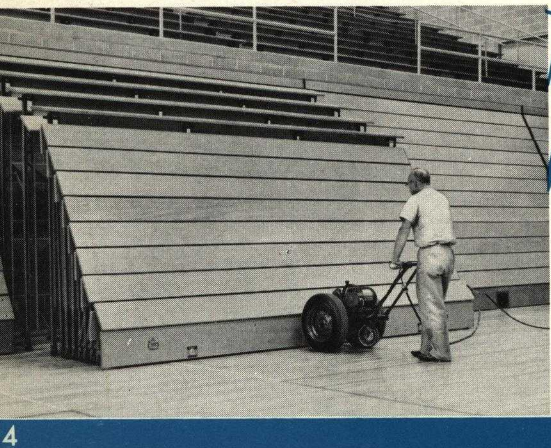
Your local *Universal* representative can suggest a practical solution to any unusual condition . . . backed by *Universal's* engineering department with over 33 years' experience in bleacher arrangements. Write for assistance with your particular problems on special conditions.

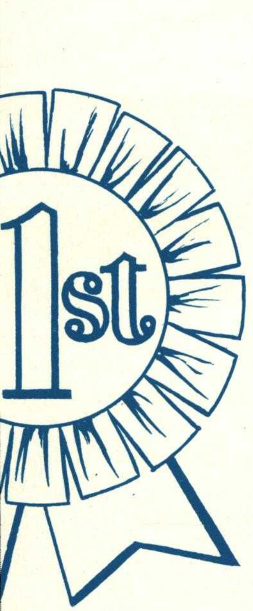
Power Operation for Roll-A-Way* Bleachers





Opening or closing with equal ease, Poweroller not only speeds up operation, but does a more careful job. Safe, accurate operation is guaranteed.





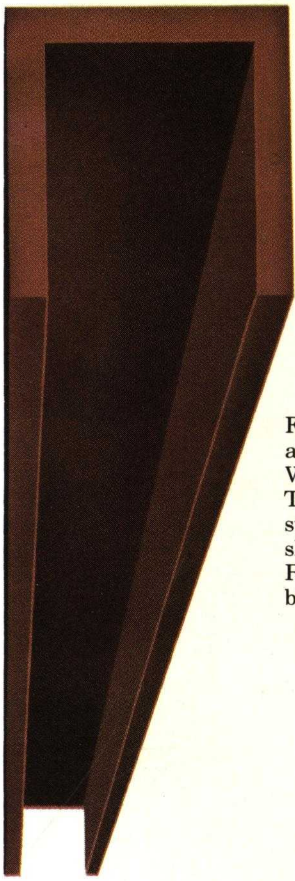
*POWEROLLER** opens and closes 10 to 30 rows quickly, surely, safely

Opening big 20 or 30 row sections of Roll-A-Way Bleachers is a simple, fast procedure with the Universal Poweroller. One man can open or close any section in a few seconds, and it's the economical way, too. No expensive electrical switchgear or wiring is required, and no added building costs are incurred.

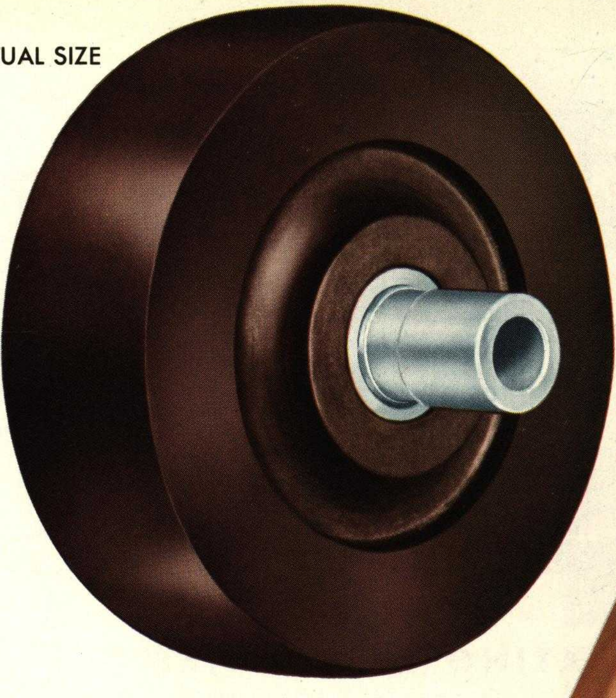
The Poweroller is a compact, mobile electric power unit especially designed for its purpose. There are no complicated cable arrangements or mechanical linkages to get out of order. Just plug its 100-foot detachable cord into any 110-volt, 60-cycle outlet, give the handle switch a slight twist and you're ready to open or close any number of rows quickly. The operator merely guides the unit from section to section and directs its action. High-traction pneumatic tires enable the Poweroller to do all the work while protecting the finish of your gym floor.

Loss of seating by failure of smaller, individual section motors is avoided because the big, heavy-duty motor in the dependable Poweroller assures continued operation of all bleachers. And powered operation of Roll-A-Way Bleachers does not prevent their operation manually. They can be opened or closed by hand if necessary during a power outage.

*T. M. Reg.



ACTUAL SIZE



ACTUAL SIZE

EXTRA-HEAVY STEEL POSTS FOR EXTRA STRENGTH

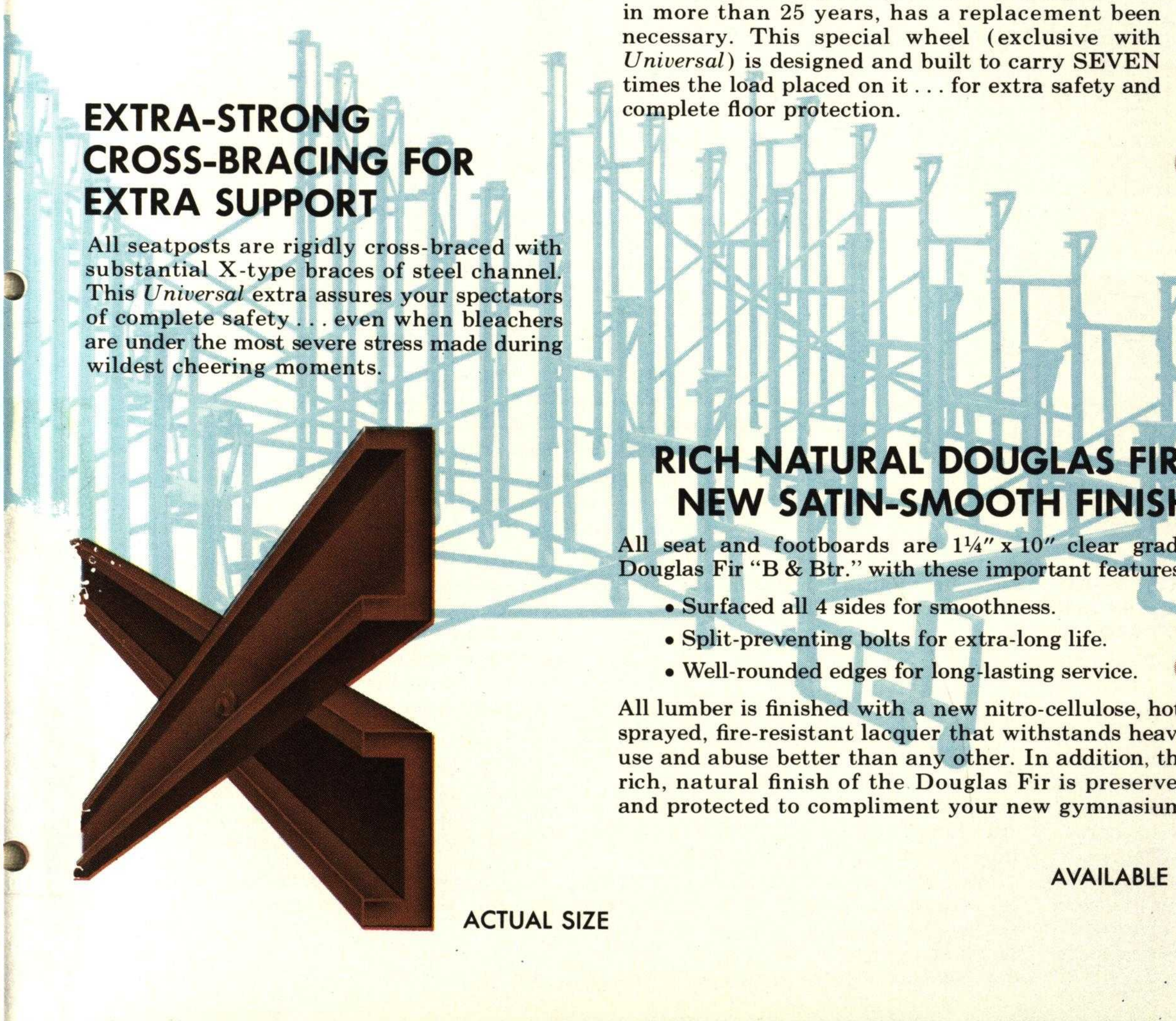
Four steel posts under each seatboard in a standard section give *Universal* Roll-A-Way Bleachers their rugged strength. These posts are 1½″ x 1½″ x 3⁄16″ hot rolled steel channel, stronger than all other shapes of comparable weight. *Universal* Roll-A-Way Bleachers pass every State bleacher code or law that exists.

EXTRA-LARGE WHEELS FOR FLOOR PROTECTION

Roll-A-Way Bleachers roll easily on extra-large 3½″ diameter, 1¼″ flat face, self-lubricating wheels that cannot mark gymnasium floors. These modern mocha rubber wheels contain NO carbon black and are fitted with oilite bearings and case-hardened steel bushings; require no servicing. Never, in more than 25 years, has a replacement been necessary. This special wheel (exclusive with *Universal*) is designed and built to carry SEVEN times the load placed on it . . . for extra safety and complete floor protection.

EXTRA-STRONG CROSS-BRACING FOR EXTRA SUPPORT

All seatposts are rigidly cross-braced with substantial X-type braces of steel channel. This *Universal* extra assures your spectators of complete safety . . . even when bleachers are under the most severe stress made during wildest cheering moments.



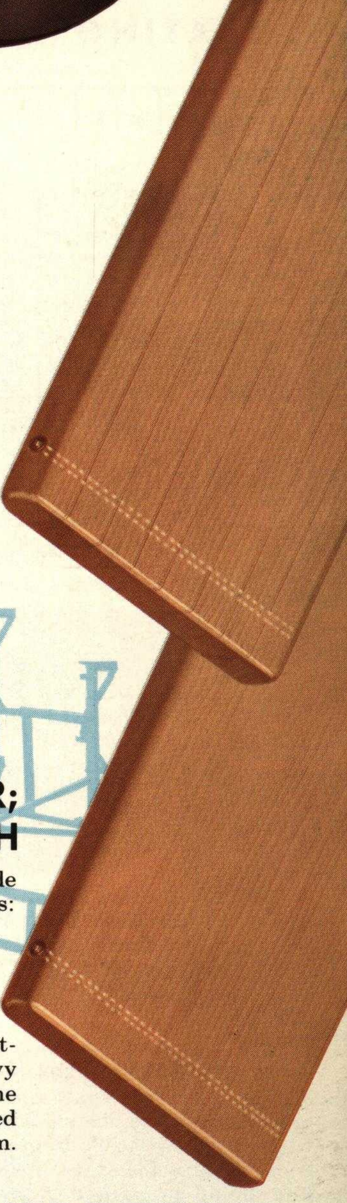
ACTUAL SIZE

RICH NATURAL DOUGLAS FIR; NEW SATIN-SMOOTH FINISH

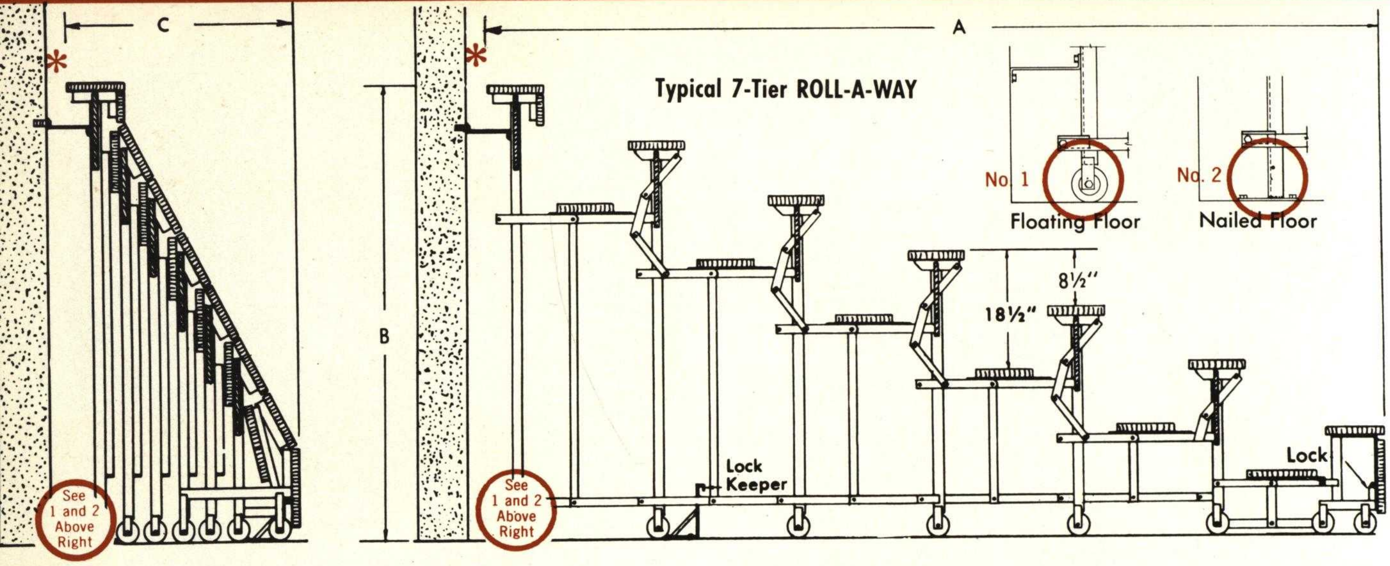
All seat and footboards are 1¼″ x 10″ clear grade Douglas Fir "B & Btr." with these important features:

- Surfaced all 4 sides for smoothness.
- Split-preventing bolts for extra-long life.
- Well-rounded edges for long-lasting service.

All lumber is finished with a new nitro-cellulose, hot-sprayed, fire-resistant lacquer that withstands heavy use and abuse better than any other. In addition, the rich, natural finish of the Douglas Fir is preserved and protected to compliment your new gymnasium.



AVAILABLE SOLID OR EDGE-GLUED



SEATING CAPACITIES

Length of group—ft.	32	40	48	56	64	72	80	88	96	104	112	120
NO. OF ROWS												
5	120	150	180	210	240	270	300	330	360	390	420	450
6	144	180	216	252	288	324	360	396	432	468	504	540
7	168	210	252	294	336	378	420	462	504	546	588	630
8	192	240	288	336	384	432	480	528	576	624	672	720
9	216	270	324	378	432	486	540	594	648	702	756	810
10	240	300	360	420	480	540	600	660	720	780	840	900
11	264	330	396	462	528	594	660	726	792	858	924	990
12	288	360	432	504	576	648	720	792	864	936	1008	1080
13	312	390	468	546	624	702	780	858	936	1014	1092	1170
14	336	420	504	588	672	756	840	924	1008	1092	1176	1260
15	360	450	540	630	720	810	900	990	1080	1170	1260	1350
16	384	480	576	672	768	864	960	1056	1156	1248	1344	1440
17	408	510	612	714	816	918	1020	1122	1224	1326	1428	1530
18	432	540	648	756	864	972	1080	1188	1296	1404	1512	1620
19	456	570	684	798	912	1026	1140	1254	1368	1482	1596	1710
20	480	600	720	840	960	1080	1200	1320	1440	1560	1680	1800

To convert to 18″ per seat, multiply 16″ capacity by .9

ROLL-A-WAY TABLE OF SIZES

	A	A	B	B	C	16′ Unit	
	22″ Depth	24″ Depth	8½″ Rise	11½″ Rise			
Rows	Open	Open	Height at Rear	Height at Rear	Closed Depth	Seats @ 16″	Seats @ 18″
3	4′-5″	4′-7″	2′-11¼″	3′-2¼″	1′-6″	36	32
4	6′-3″	6′-7″	3′-7¾″	4′-0¾″	1′-10″	48	42
5	8′-1″	8′-7″	4′-4¼″	5′-1¼″	2′-2½″	60	53
6	9′-11″	10′-7″	5′-0¾″	6′-0¾″	2′-7″	72	64
7	11′-9″	12′-7″	5′-9¼″	7′-0¼″	2′-11½″	84	74
8	13′-7″	14′-7″	6′-5¾″	7′-11¾″	3′-4″	96	85
9	15′-5″	16′-7″	7′-2¼″	8′-11¼″	3′-8½″	108	96
10	17′-3″	18′-7″	7′-10¾″	9′-10¾″	4′-1″	120	106
11	19′-1″	20′-7″	8′-7¼″	10′-10¼″	4′-5½″	132	117
12	20′-11″	22′-7″	9′-3¾″	11′-9¾″	4′-10″	144	128
13	22′-9″	24′-7″	10′-0¼″	12′-9¼″	5′-2½″	156	138
14	24′-7″	26′-7″	10′-8¾″	13′-8¾″	5′-7″	168	149
15	26′-5″	28′-7″	11′-5¼″	14′-8¼″	5′-11½″	180	160
16	28′-3″	30′-7″	12′-1¾″	15′-7¾″	6′-4″	192	170
17	30′-1″	32′-7″	12′-10¼″	16′-7¼″	6′-8½″	204	181
18	31′-11″	34′-7″	13′-6¾″	17′-6¾″	7′-1″	216	192
19	33′-9″	36′-7″	14′-3¼″	18′-6¼″	7′-5½″	228	202
20	35′-7″	38′-7″	14′-11¾″	19′-5¾″	7′-10″	240	213
21	37′-5″	40′-7″	15′-8¼″	20′-5¼″	8′-2½″	252	224
22	39′-3″	42′-7″	16′-4¾″	21′-4¾″	8′-7″	264	234
23	41′-1″	44′-7″	17′-1¼″	22′-4¼″	8′-11½″	276	245
24	42′-11″	46′-7″	17′-9¾″	23′-3¾″	9′-4″	288	256
25	44′-9″	48′-7″	18′-6¼″	24′-3¼″	9′-9½″	300	266
26	46′-7″	50′-7″	19′-2¾″	25′-2¾″	10′-2″	312	277
27	48′-5″	52′-7″	19′-11¼″	26′-2¼″	10′-6½″	324	288
28	50′-3″	54′-7″	20′-7¾″	27′-1¾″	10′-11″	336	298
29	52′-1″	56′-7″	21′-4¼″	28′-1¼″	11′-3½″	348	309
30	53′-11″	58′-7″	22′-0¾″	29′-0¾″	11′-8″	360	320

** For comfort, top seat should be set about 3″ from wall.*
Sizes not included in table also available.

TIPS
ON GYMNASIUM LAYOUT

1. Basketball court dimensions according to 1959-60 Rule Book Rule 1, Section 1, are as follows: 94′ long by 50′ wide for college court; 84′ long by 50′ wide, for high school courts; 74′ by 42′ junior high school courts.

2. The Rule Book calls for minimum 3′ of unobstructed space outside the end or side line of the playing floor. On courts where it is impossible to provide at least 3′ of unobstructed space, a narrow broken line should be marked in the Court parallel with and 3′ inside the boundary lines. On such courts this restraining line shall be the boundary line during a throw-in, on that side or end of the court (until the ball has crossed the line).

3. Remember the face of the basketball backstop shall be 4′ in from the end line of the court, according to the latest rules.

4. If possible, use the full width of the side wall for seating, locating exits in the end walls. Arranging for exits along the side of the playing floor quickly reduces the seating capacity in the most desirable area.

5. Roll-A-Way bleachers are made in standard 16′ sections. Other length sections can also be made if necessary. The most economical method is to use as many 16′ sections as possible with an odd section at the end of the group. (7′ 6″ is the maximum size of a half section.) Remember, bleacher sections are normally placed 2″ apart to allow for opening and closing. It is strongly recommended that rather than detailing the actual size of each section, that the Architect give the complete length of the group and let the manufacturer quote on his most economical section arrangement.

6. Roll-A-Way bleachers are made from 3 to 30 rows (tiers) in height. The standard depth, front to back per row, is 22″. If 24″ depth, front to back, is desired, it can be supplied at a slight extra cost.

7. Standard rise per row of 8½″ provides ideal sight line (proven in use) and allows more flexibility in window arrangement plus a saving in wall height. A higher rise per row is available if desired.

SPECIFICATIONS FOR *UNIVERSAL* ROLL-A-WAY BLEACHERS

1. **GENERAL**—All Roll-A-Way bleachers shall be as manufactured by the Universal Bleacher Company, of Champaign, Illinois, or equal, as approved by the architect and/or owner.

2. **GUARANTEE**—The manufacturer must guarantee the Roll-A-Way bleachers against defects in material and workmanship for one year after the completion of the installation.

3. **QUANTITY**—Deliver and install Roll-A-Way bleachers under the supervision of a factory engineer, in the following quantities:

   (Give total length of all groups, number of rows, depth per row, rise per row, wall-attached or movable or recessed units.)

4. **DESIGN**—Roll-A-Way bleachers shall be designed to support safely, when in use, a live load of 120 pounds per lineal foot of seatboard plus 120 pounds per lineal foot of footboard, with a minimum safety factor of four. All tests will be conducted on steel parts only; wood members will not be used as structural members. Stresses in wood will not exceed those recommended by the United States Forest Products Laboratory. All steel members must conform to American Standards Association specifications.

5. **CONSTRUCTION** — Each standard length (16′) section shall consist of a complete set of foot and seat boards and four complete sets of steel understructure. All steel load carrying members shall be of regular hot rolled steel channel designed to support safely the load carried. All flat operating links shall be of not less than ¼″ thickness. Each set of steel understructure shall consist of sufficient load carrying posts located directly under each seatboard and they shall be connected together by steel angle arms to provide an easy-acting, non-binding folding arm principle of operation. Close fitting slides of any shape shall not be employed in the operation of the bleacher. All vertical load carrying posts shall be "X" type, cross-braced together in pairs in the vertical plane to prevent lateral movement or sidesway. The cross-braces shall be of rolled steel channel properly spaced on the seatposts to give maximum rigidity. Steel scissors action linkage or linkage requiring lubrication periodically will not be permitted. The complete understructure shall be composed of steel channel and angle. Tubular construction will not be permitted.

6. **LOCKING**—(a) Each Roll-A-Way section shall have two cylinder locks, keyed alike, to lock the sections in the closed position and to maintain alignment of the sections. Full units with only one central lock or units that use friction pads to lock the unit open will not be permitted.

   (b) The folding arms in the understructure shall be designed as to automatically lock the sections in the open position and to prevent the accidental closing of the front rows when open and either occupied or unoccupied.

   (c) Old style spring supported casters which require the weight of spectators to lock the bleacher will not be permitted. Each section must lock when open so that persons walking up the bleacher have a firm easy step, without being bothered by the unexpected spring and noise.

7. **WHEELS**—To insure ease of operation and to prevent floor surface marking, the wheels shall be self-oiling not less than 3½″ diameter with a minimum 1¼″ face and each wheel shall be complete with case-hardened spanner bushing. Wheels shall be of a modern mocha rubber and shall contain no carbon black. Wheels of lighter construction, smaller dimension, or of any other material, shall not be permitted.

8. **SAFETY FRONT**—The seatboards when closed shall tip to form the safety sloping front, for physical education activities when the units are closed.

9. **DIMENSIONS**—

   (a) The depth front to back per row shall be ☐ 22″ (☐ 24″ extra cost).

   (b) The rise per row shall be ☐ 8½″ (☐ 11½″ extra cost).

   *(c) The rear seat shall be placed 3″ from the wall for comfort.

   (d) The distance from seat to footboard shall be 18½″ with ample room for movement of feet to the rear for comfort.

10. **LUMBER**—Seat and Foot Boards—Shall be 5/4″ x 10″ best grade B & Btr. Douglas Fir Clear with surfacing four sides, kiln dried, and corners well rounded and edges eased.

    ☐ Solid ☐ Edge Glued

    Vertical Filler Boards—Shall be 1″ x 12″ clear edge glued Douglas Fir centered underneath each seat.

11. **FRONT ROW** — Seat Type Front Row — Shall be provided so that the first row of seats is always open in the closed position. A front seat that requires friction pads to attempt to hold the seat open will not be permitted. A fully closed bleacher that must use a key to obtain the front row for use will not be permitted.

    Folded front row shall be provided so that all rows completely fold up in a safety sloping front.

12. **FINISH**—All steel parts shall be properly cleaned and finished with modern Mocha baked on enamel, dried at 375° for at least 15 minutes.

    All wood parts shall be factory finished with machine sanding, sealed on all sides and edges, hand sanded as required, and finished with 2 coats of a new nitro-cellulose, hot-sprayed, fire-resistant lacquer. The finish shall be dried under controlled temperatures.

13. **PRODUCT IMPROVEMENTS**—Bleachers shall contain all of the latest product improvements that have been made since the writing of this specification.

OPTIONAL ITEMS

14. **END GUARD RAILS**—Shall be removable type of standard 1½″ pipe and shall be so constructed so they may be stored under the bleacher.

15. **END PANELS**—Of a size and shape necessary to conceal the understructure of the bleacher in the folded position; shall be constructed of plywood, finished as other wood parts and firmly fastened in place.

16. **SCORER'S TABLE**—Shall be 8 feet long by 12″ wide and shall attach to the footboard of the second row with standard 1¼″ pipe. The top shall slope for easy writing with a pencil tray at the bottom edge.

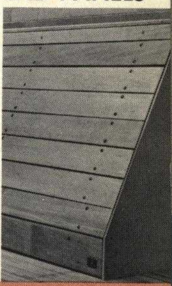
17. **POWERIZED ROLL-A-WAY**—Provide a POWEROLLER to open and close the complete installation, with one man operation. The POWEROLLER shall be provided complete with 100′ of rubber cord to utilize any 60 cycle, 110 AC outlet.

18. **MOVABLE ROLL-A-WAY** (Note Maximum 14 rows)—The same basic specifications for regular wall attached units shall apply to movable units. In addition, these units shall be hydraulically raised onto a sufficient number of large 4″ diameter, 2″ face wheels for easy moving. Each unit shall have the compete lifting unit built into the base of each movable unit. The use of floor trucks to move the unit will not be permitted. Rear guard rail shall be provided along the rear row of each unit.

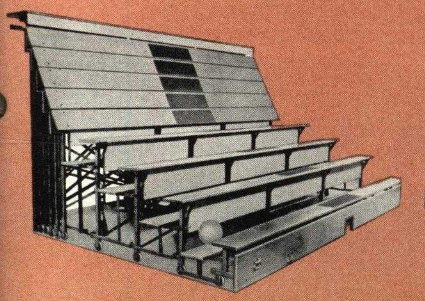
19. **SEATBOARD LEVEL AISLES**—To preserve maximum seating capacity, provide seatboard level aisles with abrasive-faced, non-slip Safety-Walk treads applied to seatboard surfaces.

20. **FOOTBOARD LEVEL AISLES** — Provide footboard level aisles of matching lumber and enameled steel, firmly attached to the basic bleacher assembly, that do not interfere with normal opening or closing of bleachers.

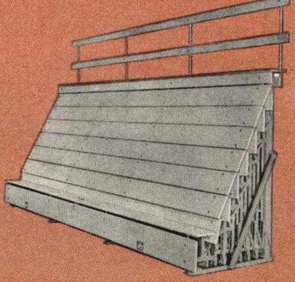
END PANELS



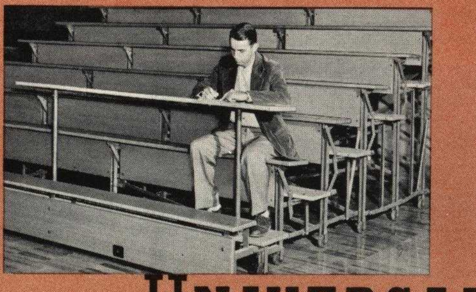
AISLES



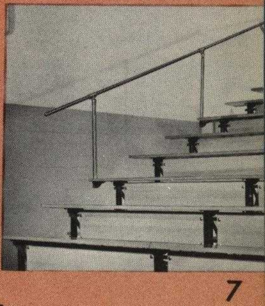
MOVABLE ROLL-A-WAY



SCORER'S TABLE



END GUARD RAILS



YOU CAN DEPEND UPON UNIVERSAL

. . . oldest and largest manufacturer devoted exclusively to design and construction of bleachers

REPRESENTATIVES EVERYWHERE

Universal Roll-A-Way Bleachers are building faithful service records in schools and institutions throughout the 50 United States . . . and *Universal* representatives are strategically located in all States to assist you in determining your seating requirements. These factory-trained consultants are as close as your 'phone, and they'll be pleased to share their knowledge with you when selecting your gymnasium seating. Call or write the main office and you will be directed to a well-qualified *Universal* representative . . . your seating servant for Roll-A-Way Bleachers.

REPRESENTATIVES

ARIZONA
P.B.S.W. Supply & Equipment Co.
530 West Washington Street
Phoenix (ALpine 8-6661)

ARKANSAS
School Products Co. of Arkansas
3018 West Capitol Street
Little Rock (MOhawk 3-7566)

CALIFORNIA
American Seating Company
800 North Sepulveda Boulevard
El Segundo (Los Angeles)
(ORegon 8-6141)

American Seating Company
701 Bayshore Boulevard
San Francisco (JUniper 7-5940)

COLORADO
Paul R. Spencer Company
4201 Brighton Boulevard
Denver 16 (KEystone 4-3293)

GEORGIA
American Seating Company
354 Nelson Street, S. W.
Atlanta (JAckson 3-1916)

HAWAII
R. C. Pullen Company
1410 Kapiolani Boulevard
Honolulu (99-5574)

IDAHO
Caxton Printers, Ltd.
Caldwell (9-7421)

ILLINOIS
Allied School Equipment, Inc.
417 East Jefferson Street
Springfield (4-9804)

Warren Larson Company
1216 South Delphia
Park Ridge (TAlcott 3-7212)

INDIANA
King Equipment Company
340 West Main Street
Danville (SHerwood 5-4288)

IOWA
J. S. Latta & Son
909 West 23rd Street
Cedar Falls (COlfax 6-3501)

KANSAS
Building Specialties &
Equipment Co., Inc.
603 Topeka Boulevard
Topeka (CEntral 2-1252)

Building Specialties &
Equipment Co., Inc.
1727 East Second
Wichita (AMherst 5-2821)

LOUISIANA
Leo A. Ernst
3580 Gentilly Boulevard
New Orleans (WHitehall 5-3207)

MASSACHUSETTS
Twombly Associates, Inc.
750 Main Street
Winchester (PArkview 9-4600)

MICHIGAN
McFadden Corporation
3011 East Saginaw
Lansing (IVanhoe 2-1103)

Upper Peninsula Office
Supply Co.
Marquette (CAnal 6-2558)

MINNESOTA
A & C Sales Co.
6518 Walker Street
Minneapolis 26 (WEst 9-6163)

MISSISSIPPI
Mississippi School Supply Co.
116 East South Street
Jackson (FLeetwood 2-3346)

MISSOURI
Hicks-Ashby Company
3006 Holmes Street
Kansas City (JEfferson 1-9220)

MONTANA
Colborn School Supply Co.
27th & Montana Avenue
Billings (6-6728)

NEBRASKA
R. L. White Sales Company
824 "O" Street
Lincoln (2-1025)

R. L. White Sales Company
3106 Cumming Street
Omaha 31 (ATlantic 8363)

NEW MEXICO
M & W Sporting Goods Co.
414 West Copper Avenue
Albuquerque (CHapel 3-4433)

NEW YORK
Bradley M. Layburn Company
151 East Post Road
White Plains (9-1270)

W. G. S. Corporation
1002 West High Terrace
Syracuse (HUnter 8-7770)

NORTH CAROLINA
Universal Equipment Company
3709 Hillsboro Street
Raleigh (TEmple 2-7000)

NORTH DAKOTA
Colborn School Supply Co.
202 DeMers Avenue
Grand Forks (4-5591)

OHIO
Folding Equipment Company
3135 Goddard Road
Toledo (GReenwood 2-6045)

G. E. Maier Company
715 Sycamore Street
Cincinnati (DUnbar 1-2162)

OKLAHOMA
Oklahoma Seating Company
19 West Main Street
Oklahoma City (CEntral 2-0459)

OREGON
Lowman & Hanford Company
2725 N. W. Industrial Avenue
Portland (CApitol 8-2820)

PENNSYLVANIA
American Seating Company
16th at Hamilton
Philadelphia (LOcust 4-4325)

SOUTH CAROLINA
American Seating Company
928 Main Street
Columbia (AL 2-4336)

SOUTH DAKOTA
Midwest Beach Company
233 South Phillips Avenue
Sioux Falls (4-5853)

TENNESSEE
Chattanooga Products Company
12th & Carter Streets
Chattanooga (AMherst 6-1301)

Highland Products Company
Broadway at Jackson Ave.
Knoxville (3-9195)

Nashville Products Company
158 Second Avenue, North
Nashville (ALpine 6-5194)

School Products Company
1544 Madison Avenue
Memphis (BRoadway 6-4437)

TEXAS
American Seating Company
2930 Canton Street
Dallas (RIverside 1-4527)

UTAH
Hull Equipment Company
6 "K" Street
Salt Lake City (EMpire 3-9128)

VIRGINIA
John H. Pence Company
5107 Lakeside Avenue
Richmond (ELgin 8-4909)

John H. Pence Company
119 Church Avenue, East
Roanoke (DIamond 3-2434)

WASHINGTON
Lowman & Hanford Company
4225 Second Ave., South
Seattle (MAin 3-8870)

WISCONSIN
Chippewa Valley Sporting
Goods Co.
415 South Farwell Street
Eau Claire (TEmple 2-0795)

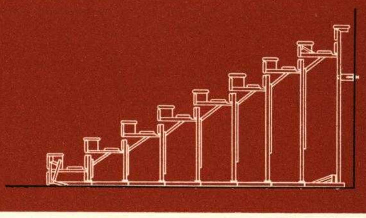
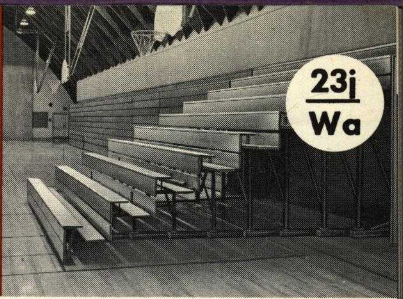
W. L. Kittelberger
2708 South 44th Street
Milwaukee (EVergreen 3-4690)

UNIVERSAL BLEACHER COMPANY—CHAMPAIGN, ILL. Phone FLeetwood 6-9053

23j
Wa

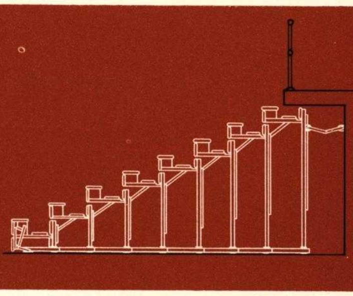
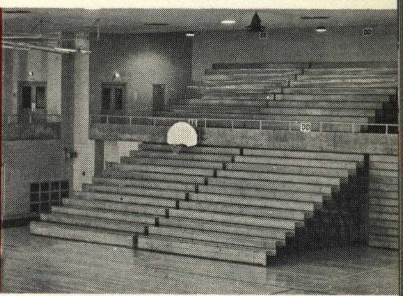
WAYNE
GYMNASIUM SEATING

MODEL 50—VERTICAL FRONT
WALL OR FLOOR ATTACHED • MANUAL OPERATION

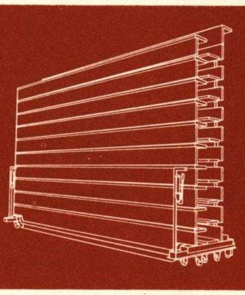
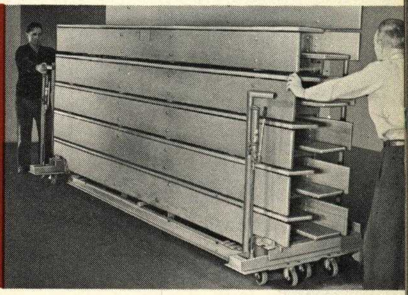
WAYNE
GYMNASIUM SEATING

MODEL 50-R—RECESSED
WALL ATTACHED • MANUAL OPERATION

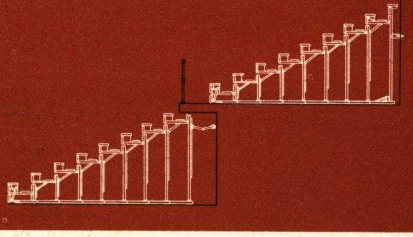
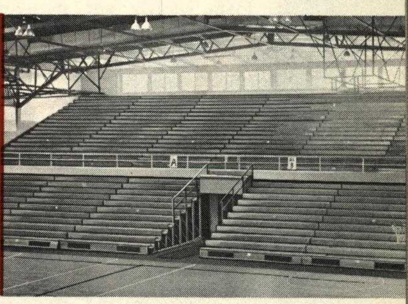
WAYNE
GYMNASIUM SEATING

MODEL 50-M—MOVABLE
SELF-SUPPORTING • MANUAL OPERATION WITH TRUCKS

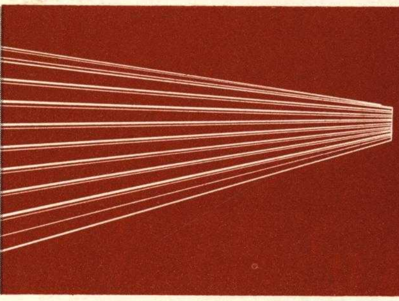
WAYNE
GYMNASIUM SEATING

MODEL 50-S, 50-X—HIGH VISIBILITY
FOR TWO LEVEL SEATING • MANUAL OPERATION

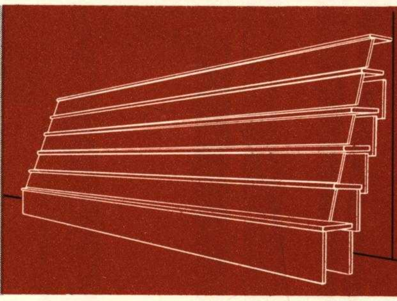
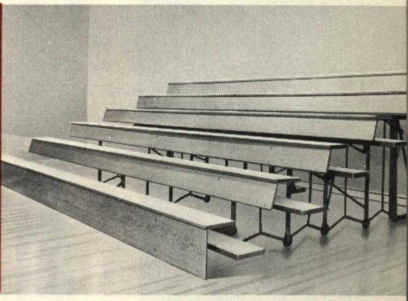
WAYNE
GYMNASIUM SEATING

MODEL 70—CONTINUOUS SEATING
AUTOMATIC POWER OPERATION



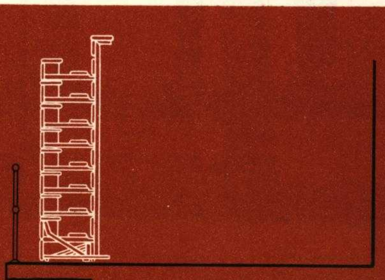
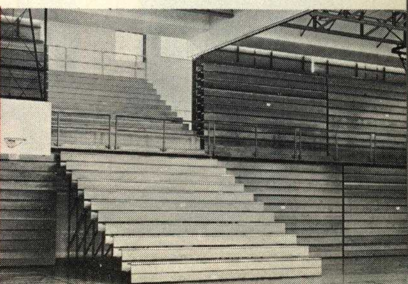
WAYNE
GYMNASIUM SEATING

MODEL 30—FOLDING BLEACHERS
WALL ATTACHED • MANUAL OPERATION

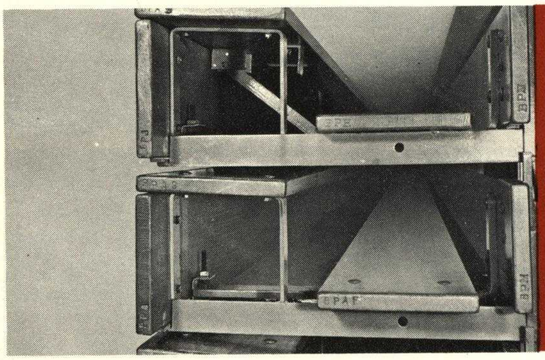
WAYNE
GYMNASIUM SEATING

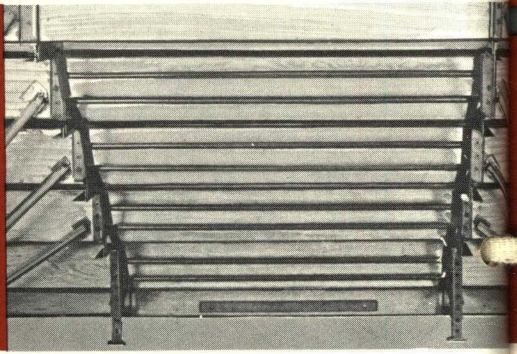
**MODELS 50-RR—50-RRFM—
50-RRFO**—REVERSE ROLL

WAYNE MODEL 50 VERTICAL FRONT

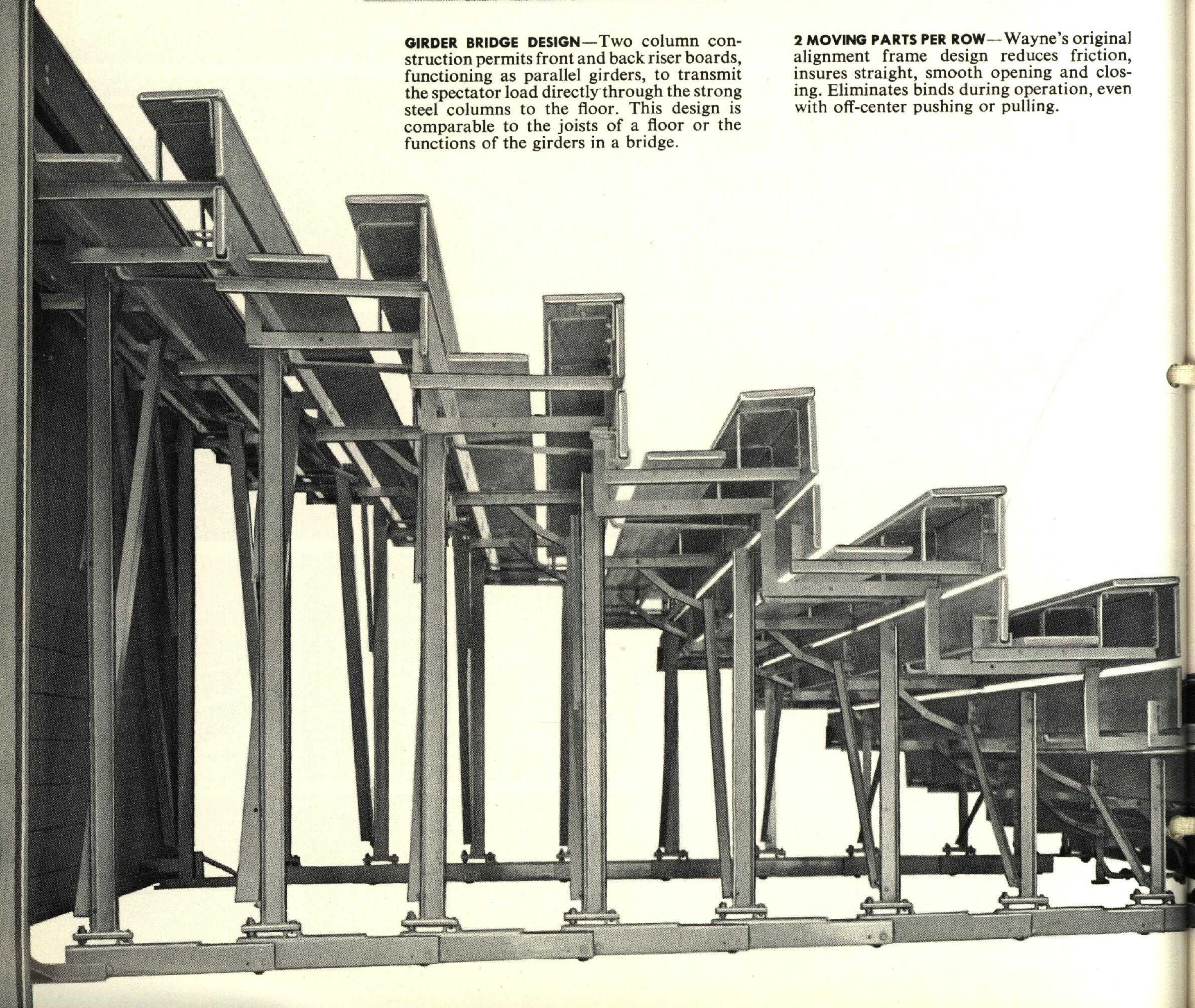
engineering excellence • design efficiency • greater seating value

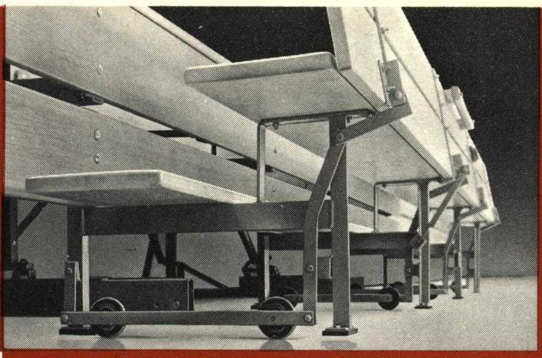




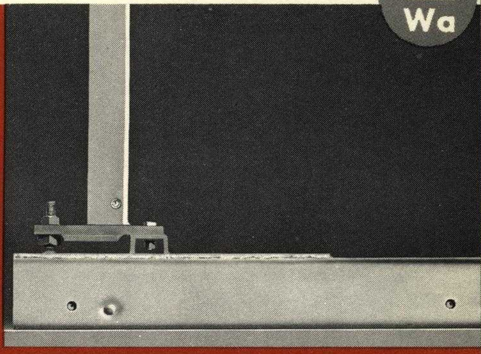
GIRDER BRIDGE DESIGN—Two column construction permits front and back riser boards, functioning as parallel girders, to transmit the spectator load directly through the strong steel columns to the floor. This design is comparable to the joists of a floor or the functions of the girders in a bridge.

2 MOVING PARTS PER ROW—Wayne's original alignment frame design reduces friction, insures straight, smooth opening and closing. Eliminates binds during operation, even with off-center pushing or pulling.

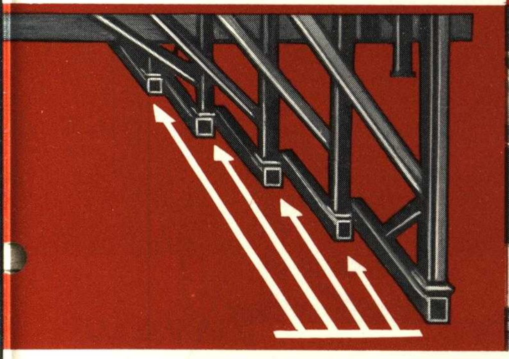


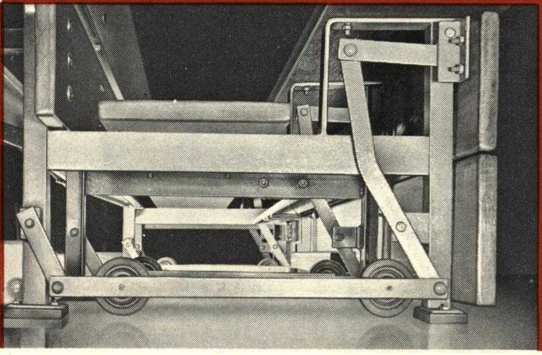


RISER BOARD UP—Brakes off the floor—ready to roll

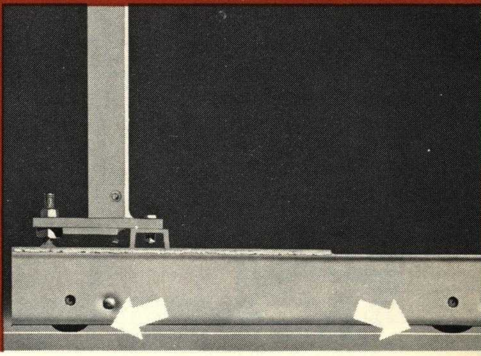


GYMSTAND OCCUPIED—spectator load is on the floor





RISER BOARD DOWN—8 brakes per unit firmly contact the floor

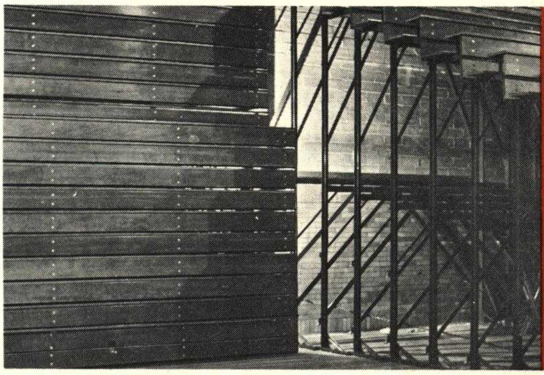


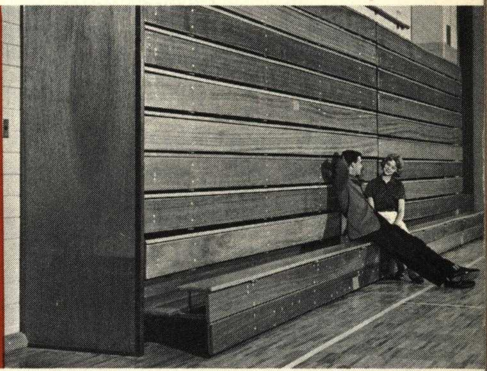
GYMSTAND UNOCCUPIED—load is on the wheels

NON-GROOVE ROLLING SYSTEM—Wayne's wheel assembly, housed in the Rolling Foot, carries the columns of each row separately side by side, not in the same plane. This efficient design distributes the load; eliminates floor grooving; makes the stand easy to open and close.

SELF-LOCKING BRAKES—The hinged front row riser board operates Wayne's efficient self-locking system. When the front riser board is lowered, the locking system automatically makes contact with the gym floor at 8 points. Units cannot shift, slide or lose position. When the front riser is lifted, the 8 brakes automatically lift from the floor.

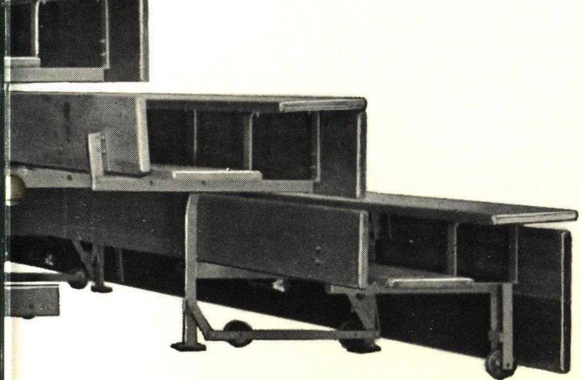
LOAD DISTRIBUTION—When the stand is occupied, the live load is carried directly to the floor through the strong steel columns. Wayne's Rolling Foot, a unique system that provides 65 square inches of floor contact area per row, exceeds by more than 100% any competitive design, distributes the load over a broad area, insures stability.





SWAY BRACES—Two or more diagonal sway braces per row add stability to Wayne Rolling Gymstands. These strong steel angles transmit any sway action to the floor through the column foot

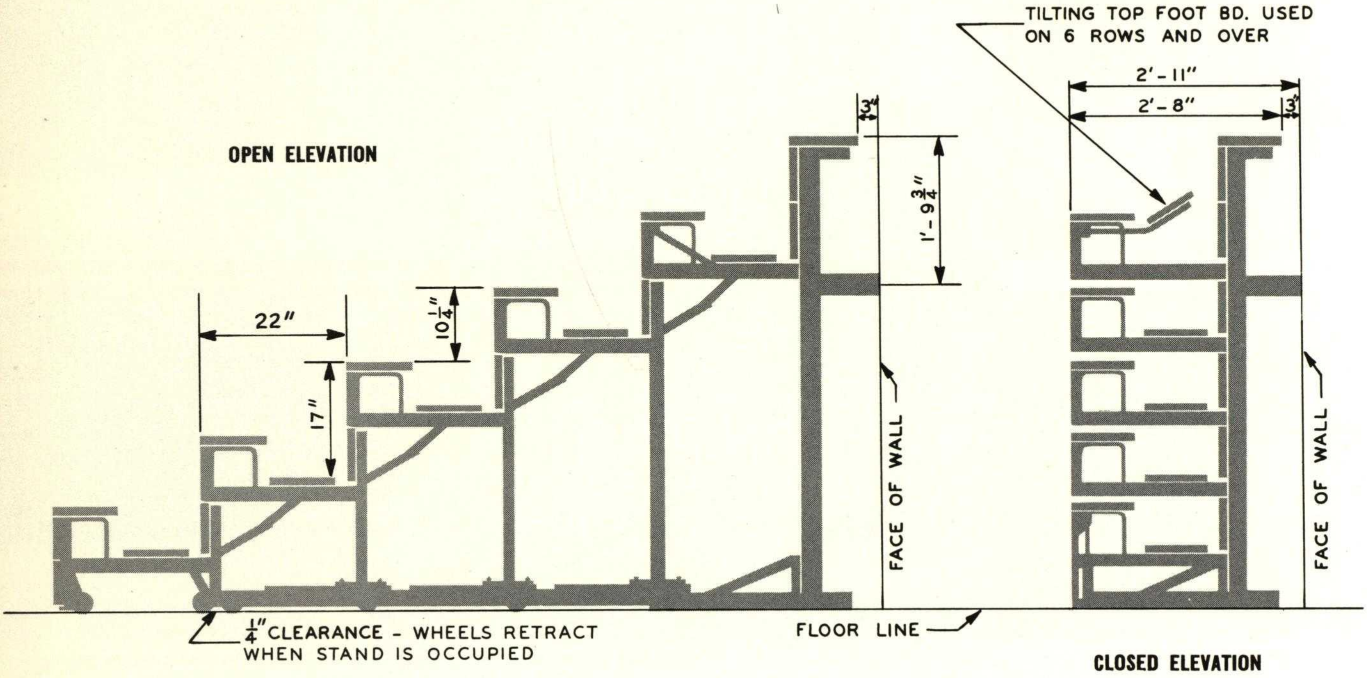
USE ANY NUMBER OF ROWS—Wayne's positive self-row-locking system permits any number of rows to be used. Simply by rolling out the number of rows required and locking the front riser board, the entire assembly locks in position ready for use for social affairs, dances, etc.



STANDARD DIMENSIONS

10¼″ RISE-PER-ROW
22″ DEPTH-PER-ROW

DETAIL • DIMENSIONS



ROLLING GYMSTAND MODELS 50, 50-R, 50-S, 50-X, 50-RR, 50-RRFM, 50-RRFO, 70

No. of Rows	22" Depth Open *	22" Depth Closed *	24" Depth Open *	24" Depth Closed *	Height 10¼" Rise Per Row**	Min. Unit Length	No. Seats 16'0" Unit
	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	
3	4-6	2-8	4-10	2-10	3- 1½	4-6	36
4	6-4	2-8	6-10	2-10	3-11¾	5-10	48
5	8-2	2-8	8-10	2-10	4-10	6-5	60
6	10-0	2-8	10-10	2-10	5- 8¼	6-9	72
7	11-10	2-8	12-10	2-10	6- 6½	7-2	84
8	13-8	2-8	14-10	2-10	7- 4¾	7-6	96
9	15-6	2-8	16-10	2-10	8-3	7-11	108
10	17-4	2-8	18-10	2-10	9-1¼	8-3	120
11	19-2	2-8	20-10	2-10	9-11½	8-8	132
12	21-0	2-8	22-10	2-10	10-9¾	9-0	144
13	22-10	2-8	24-10	2-10	11-8	9-5	156
14	24-8	2-8	26-10	2-10	12-6¼	9-9	168
15	26-7	2-9	28-10	2-10	13-4½	13-10	180
16	28-5	2-9	30-10	2-10	14-2¾	13-10	192
17	30-3	4-7	32-10	4-10	15-1	13-10	204
18	32-1	4-7	34-10	4-10	15-11¼	13-10	216
19	33-11	4-7	36-10	4-10	16-9½	13-10	228
20	35-9	4-7	38-10	4-10	17-7¾	13-10	240
21	37-7	4-7	40-10	4-10	18-6	13-10	252
22	39-5	4-7	42-10	4-10	19-4¼	14-3	264
23	41-3	4-7	44-10	4-10	20-2½	14-3	276

HEIGHT OF SEAT ABOVE FOOTREST IS 17 INCHES

* For comfort, top seat should be set about 3" from wall on all models except model 70 where distance should be 5". 12" top seatboard is provided on model #70 to assure standard 3" offset. Therefore ADD 3" to the dimensions from 3 to 14 rows and add 2" to the dimensions from 15 to 23 rows. Allow 1" to 2" clearance between units and 1½" to 2" clearance between end units and walls or other obstructions.

** (Model 50-S) For 11⅜" rise-per-row, add to height 1⅛" for each row except the front row.

** (Model 50-X) For 13⅜" rise-per-row, add to height 3⅛" for each row except the front row.

MOVABLE ROLLING GYMSTAND MODEL 50-M

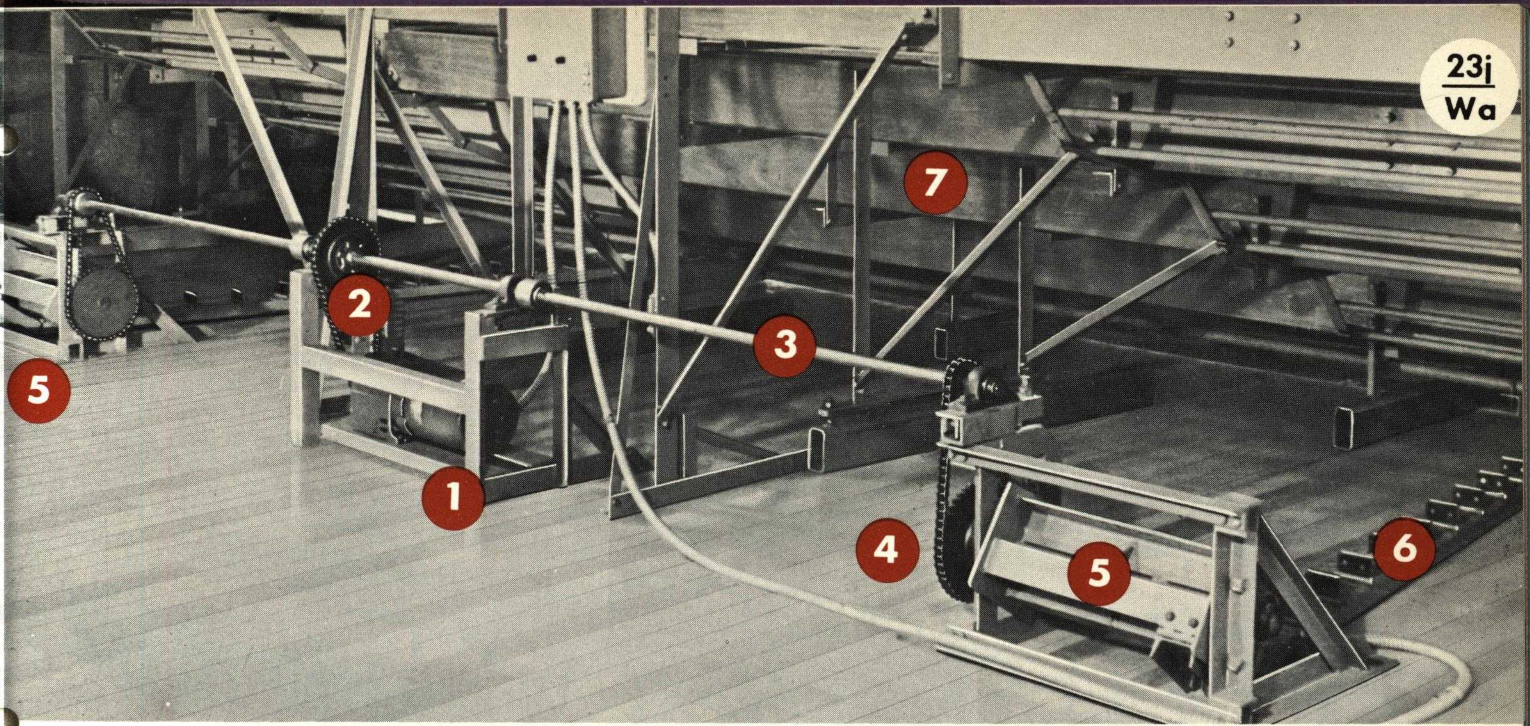
Maximum 14 Rows

No. of Rows	22" Depth Open	22" Depth Closed	22" Depth Closed on Trucks	24" Depth Open	24" Depth Closed	24" Depth Closed on Trucks	Height 10¼" Rise Per Row	Minimum Length Movable	No. Seats 16'0" Unit
	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	Ft.-In.	
3	5-3½	3-5½	4-1⅜	5-7½	3-7½	4-3⅜	3-1½	6-3	36
4	7-1½	3-5½	4-1⅜	7-7½	3-7½	4-3⅜	3-11¾	7-7	48
5	8-11½	3-5½	4-1⅜	9-7½	3-7½	4-3⅜	4-10	8-2	60
6	10-9½	3-5½	4-1⅜	11-7½	3-7½	4-3⅜	5-8¼	8-6	72
7	12-7½	3-5½	4-1⅜	13-7½	3-7½	4-3⅜	6-6½	8-11	84
8	14-5½	3-5½	4-1⅜	15-7½	3-7½	4-3⅜	7-4¾	9-3	96
9	16-3½	3-5½	4-1⅜	17-7½	3-7½	4-3⅜	8-3	9-8	108
10	18-1½	3-5½	4-1⅜	19-7½	3-7½	4-3⅜	9-1¼	10-0	120
11	19-11½	3-5½	4-1⅜	21-7½	3-7½	4-3⅜	9-11½	10-5	132
12	21-9½	3-5½	4-1⅜	23-7½	3-7½	4-3⅜	10-9¾	10-9	144
13	23-7½	3-5½	4-1⅜	25-7½	3-7½	4-3⅜	11-8	11-2	156
14	25-5½	3-5½	4-1⅜	27-7½	3-7½	4-3⅜	12-6¼	11-6	168

HEIGHT OF SEAT ABOVE FOOTREST IS 17 INCHES

For 11⅜" rise-per-row, add to height 1⅛" for each row except the front row.

For 13⅜" rise-per-row, add to height 3⅛" for each row except the front row.



WAYNE MODEL 70

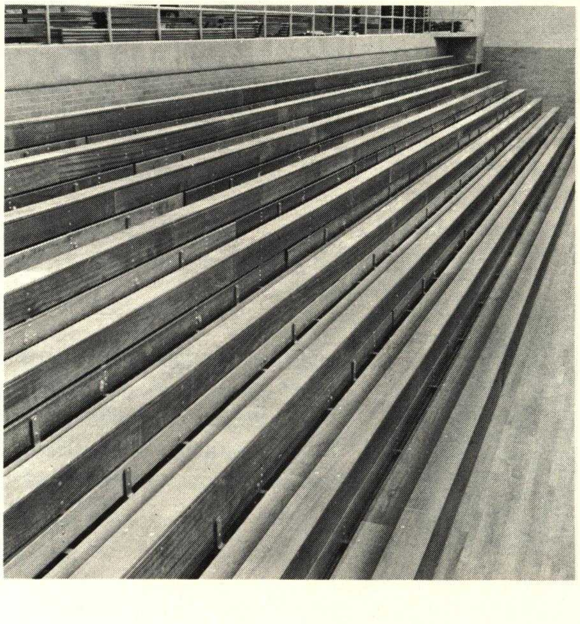
continous seating • automatic power operation

EFFICIENT, NOISELESS MOTORIZED DRIVE SYSTEM*

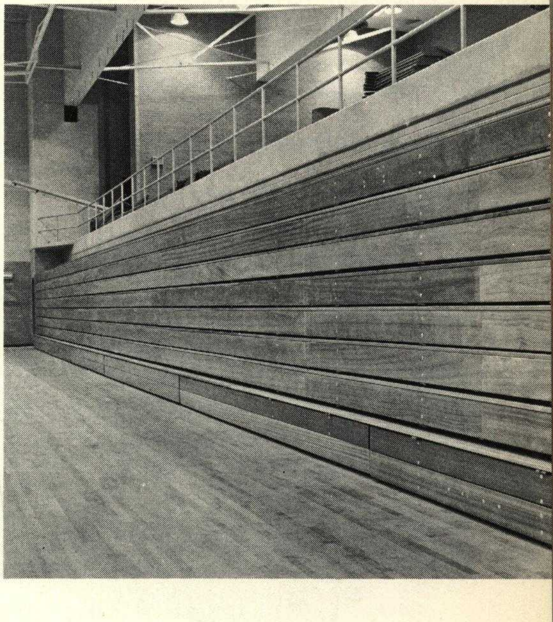
1. Gearhead Reduction Motor
2. Chain Drive and Adjustable Torque-Limiting Safety Coupling
3. Jack Shaft
4. Sprocket and Chain Drive
5. Drive Reels
6. Rigid Pusher Linkage
7. Wayne-Weld Continuous Boards*

Wayne Motorized Rolling Gymstands are opened or closed by a steady force applied to the front row as the hinged links of steel channel wind or unwind and roll smoothly and noiselessly along the floor.

- No floor track required
- No building extras needed
- Operates on 208 or 220 volt power source
- Straight line operation—no binding, wandering or jamming
- Can be stopped and locked in any position during operation



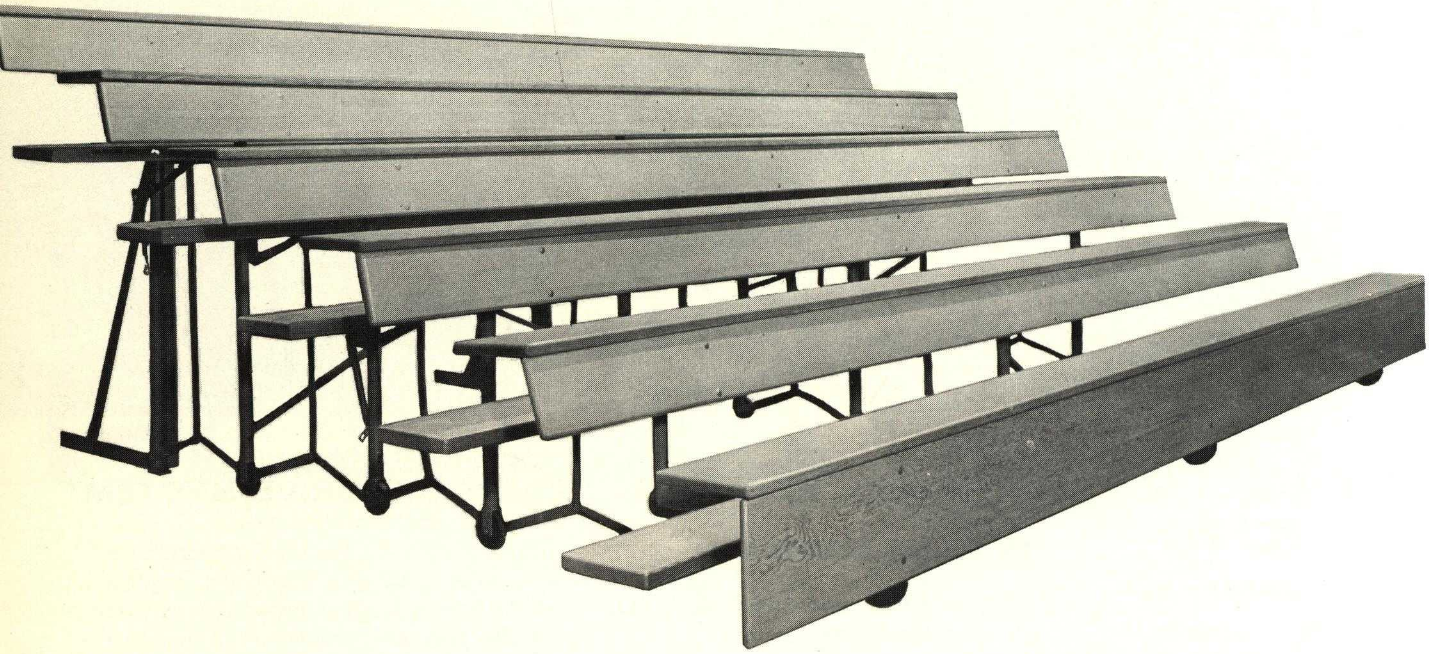
9-row continuous Model 70 in open position



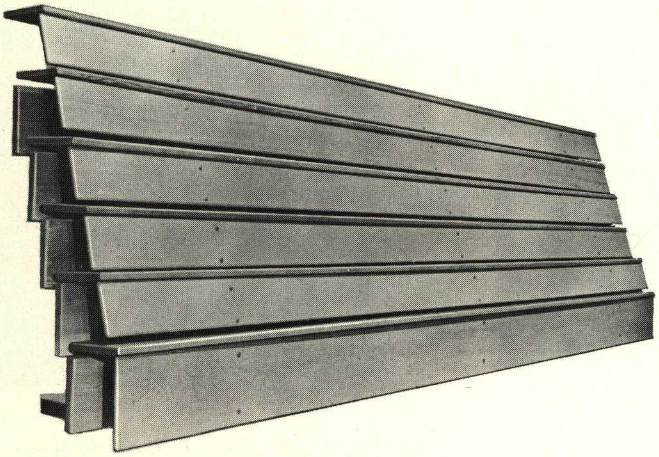
9-row continuous Model 70 in closed position

*Patent Pending

THE WAYNE MODEL 30 FOLDING BLEACHER



EASY ROLLING	ENAMELED TUBULAR STEEL UNDER-STRUCTURE	ATTRACTIVE LACQUERED DOUGLAS FIR WOOD	NON-MARKING, RUBBER FACED, PLASTIC WHEELS	OPENS AND CLOSES IN ONE CONTINUOUS MOTION	CAN BE LOCKED IN ANY POSITION



SLOPING FRONT WHEN CLOSED

SEATING EFFICIENCY AT LOW COST !—Mounted on 4″ diameter wheels under all columns except the stationary rear columns, the Wayne Model 30 Folding Bleacher rolls back against the wall in one continuous operation to form a sloping front.

GENERAL SPECIFICATIONS

1. DESIGN AND CONSTRUCTION

The seating shall be designed and constructed to support, in addition to its own weight, a live load of 120 pounds per linear foot of seatboard, plus 120 pounds per linear foot of footboard, and to resist by adequate diagonal bracing a horizontal sway load applied lengthwise to the seats, of 24 pounds per linear foot of seatboard. Under these loads, stresses in steel shall conform to the Standard Specification of the American Institute of Steel Construction, and stresses in wood shall not exceed those recommended by U. S. Forest Products Laboratory.

2. FINISH

All steel parts of the understructure shall be properly cleaned and finished in gray enamel.

All wood parts shall be sanded and finished with natural hot sprayed lacquer.

3. GUARANTEE

The manufacturer shall guarantee that all work done under these specifications is free from defects in materials and workmanship for a period of one year from date of completion of installation.

INDIVIDUAL MODEL SPECIFICATIONS

Model 30 Folding Bleacher

4. STANDARD DIMENSIONS

Depth per row—22 inches
Rise per row—8½ inches
Seat height—17½ inches

5. UNIT CONSTRUCTION

Each unit shall be complete in itself, consisting of tubular steel understructure, footboards, seatboards and riser boards, connected to form one integral assembly. Each column of the unit (except the stationary rear columns) shall be equipped with a 4 inch diameter wheel, with oil-less bearings, made of a rubber faced plastic composition which will not mark or dent the floor.

When fully closed, the front of the unit shall form a sloping surface.

6. SEATBOARDS, FOOTBOARDS AND RISER BOARDS

All boards shall be Douglas Fir of quality as defined by "Standard Grading and Dressing Rules No. 15" as published by the West Coast Lumbermen's Association. The edges and ends of all boards shall be eased.

Seatboards—clear solid lumber as defined by Rule 151-b., 5/4″ x 10″ before surfacing.

Footboards—solid lumber as defined by Rule 123-a., 2″ x 10″ before surfacing.

Riser boards—clear solid lumber as defined by Rule 151-b., 1″ x 8″ before surfacing.

7. INSTALLATION

Installation shall be done by the manufacturer's regularly authorized representative. Units shall be fastened to the wall with proper attachments. All units shall be adjusted to operate easily.

Model 50 Vertical Front Rolling Gymstand

4. STANDARD DIMENSIONS

Depth per row—22 inches
Rise per row—10¼ inches
Seat height—17 inches

5. UNIT CONSTRUCTION

Each unit shall be complete in itself, consisting of steel understructure, footboards, seatboards and vertical riser boards, connected to form one integral assembly. Each column of the unit (except the stationary rear columns) shall be equipped with two 3 inch diameter wheels, with oil-less bearings, made of a rubber faced plastic composition which will not mark or dent the floor. When live load is applied, the wheel housing (rolling foot) shall establish contact with the floor, to transmit live load directly to the floor.

Each unit shall be equipped with rotating alignment frames to keep the rows parallel at all times.

Each unit shall be equipped with a cylinder lock to lock it automatically in both the open and closed position. In addition, the front row of each unit shall be equipped with self-setting rubber brakes.

When fully closed, the front of the unit shall form a vertical surface.

6. SEATBOARDS, FOOTBOARDS AND RISER BOARDS

All boards shall be Philippine Mahogany equal to FAS and Selects as established by the National Hardwood Lumber Association or Douglas Fir as defined by Rule 151-b of "Standard Grading and Dressing Rules No. 15" as published by the West Coast Lumbermen's Association. The edges and ends of all boards shall be eased.

Seatboards—5/4″x10″ before surfacing.
Footboards—5/4″x10″ before surfacing.
Riser boards—5/4″ x width to fully close the vertical gap between corresponding foot and seatboards.

7. INSTALLATION

Installation shall be done by the manufacturer's regularly authorized representative. Units shall be fastened in place with proper attachments. All units shall be adjusted to operate easily.

Model 70 Continuous Seating-Automatic Power Operation

4. STANDARD DIMENSIONS

Depth per row—22 inches
Rise per row—10¼ inches
Seat height—17 inches

5. CONSTRUCTION OF SEATING SECTIONS

Each section shall be constructed as a continuous, uninterrupted length of seats and shall consist of steel understructure, footboards, seatboards and vertical riser boards connected to form one integral assembly. The boards shall be installed so that no breaks or gaps occur in the entire length of the section.

Each column of the section (except the stationary rear columns) shall be equipped with two 3 inch diameter wheels. When live load is applied, the wheel housing (rolling foot) shall establish contact with the floor.

6. POWER OPERATION

Each section shall be installed with self-contained, automatic power operation. The opening and closing of the sections shall be controlled by a spring loaded key switch conveniently located. The power system shall be designed so that one or more rows may be used at any time. The movement of the section to the extreme open or closed positions shall be controlled by limit switches. Each section shall be powered by a single motor to assure positive alignment at all times. The power shall be transmitted from the motor to drive reels and rigid pusher bars by means of a steel jack shaft and chain drive linkage.

Each section shall be equipped with a simple and positive means for disengaging the drive mechanism so that the section can be opened manually in case of power failure.

7. SEATBOARDS, FOOTBOARDS AND RISER BOARDS

All boards shall be Philippine Mahogany equal to FAS and Selects as established by the National Hardwood Lumber Association or Douglas Fir as defined by Rule 151-b of "Standard Grading and Dressing Rules No. 15" as published by the West Coast Lumbermen's Association. The edges and ends of all boards shall be eased.

Seatboards—5/4″x10″ before surfacing.
Footboards—5/4″x10″ before surfacing.
Riser boards—5/4″ x width to fully close the gap between corresponding foot and seatboards.

8. INSTALLATION

Installation shall be done by the manufacturer's regularly authorized representative. Sections shall be fastened in place with proper attachments. All sections shall be adjusted to operate easily.

PLEASE NOTE: Wayne Iron Works continually pursues a program of design and product improvement for better spectator seating. When such improvements occur, or, when conditions exist over which we have no control, Wayne Iron Works reserves the right to supply equipment considered to be standard at the time of shipment.

PLANNING • SALES • SERVICE

Wayne equipment is planned, sold and serviced by factory trained representatives located throughout the United States. For immediate information or guidance call the Wayne Representative nearest you or write the factory direct.

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STANDARD SCHOOL SERVICE
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ARIZONA
McKINNEY, ROBERT G., CO.
P.O. Box 2483
Phoenix WH 5-5243

ARKANSAS
ARKANSAS SCHOOL SERVICE, INC.
201 Victory Road
P.O. Box 2801
Little Rock FR 6-2417

CALIFORNIA
AUSTIN-BENTLEY SEATING CO.
529 N. La Cienega Blvd.
Los Angeles 48 OL 5-8410

AUSTIN SAFE AND DESK, LTD.
1320 Fifth Avenue
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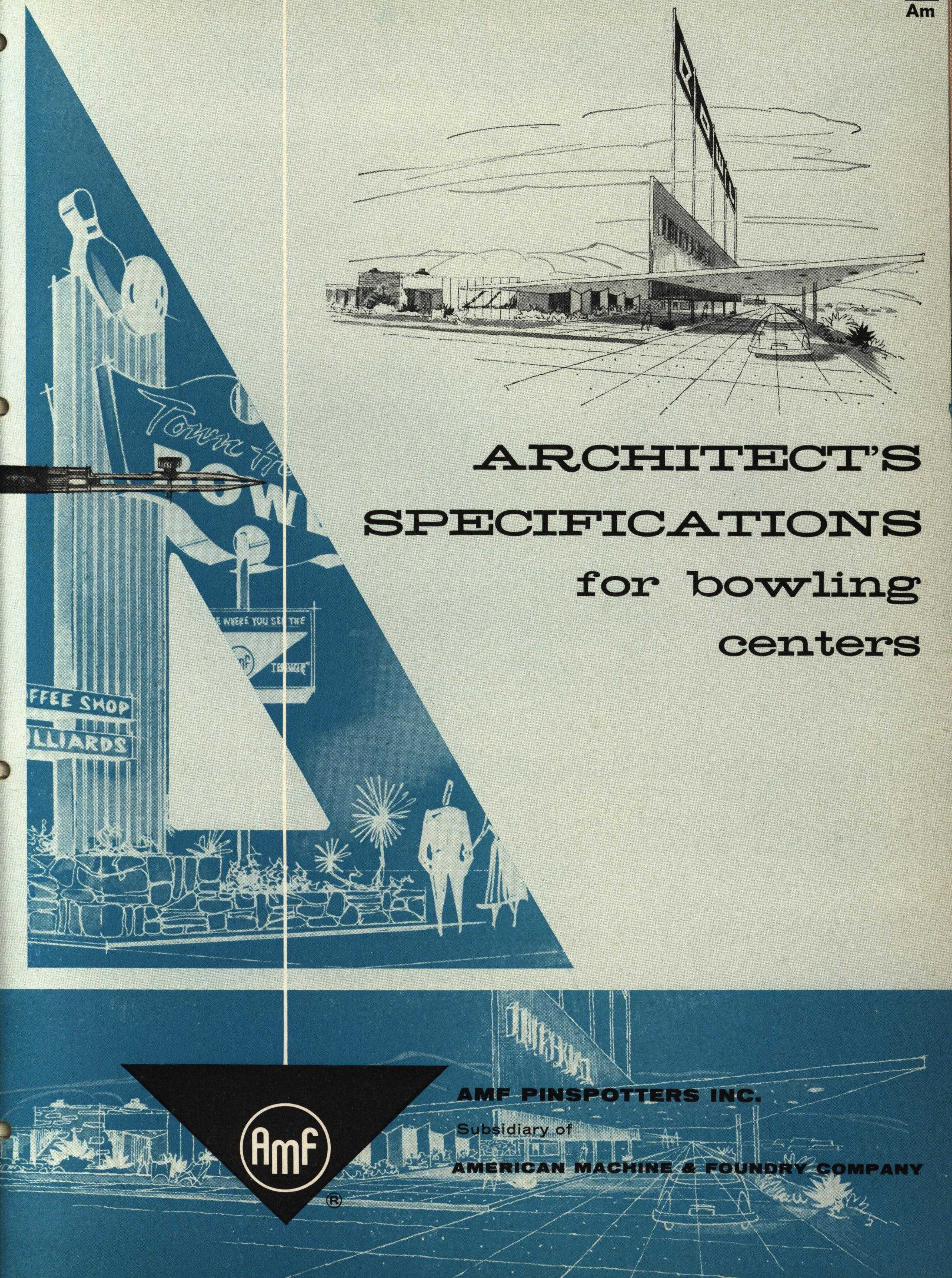

Town House
BOWL
WHERE YOU SEE THE
AMF
TRIANGLE
FFEE SHOP
LLIARDS

ARCHITECT'S SPECIFICATIONS for bowling centers

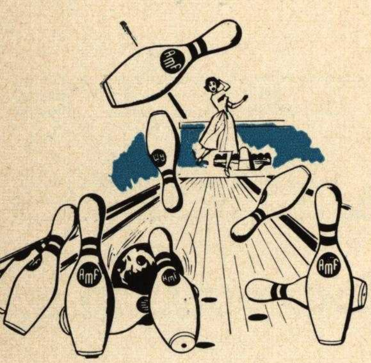
AMF PINSPOTTERS INC.
Subsidiary of
AMERICAN MACHINE & FOUNDRY COMPANY

BOWLING CENTER SUGGESTIONS

building planning

The building should be located on property with plans for future expansion. It should be easily accessible for main traffic arteries with ample parking facilities and entrances adjacent to parking areas. If possible provide canopys over entrances.

planning for bowling equipment



Bowling Lane Area Storage for pins, Pinspotters spare parts, Pinspotter shop area and maintenance supplies should be provided in rear of building.

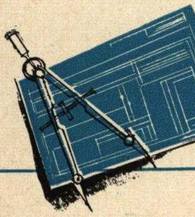
This can be accomplished by either providing rooms in back of the building or by the use of a wide aisle in back of the Pinspotters. If rooms are provided allow a 3′ 6″ aisle in back of the Pinspotters. If no rooms are provided allow at least 6′ 0″ in back of the Pinspotters.

The overall dimensions of bowling lanes (including AMF Automatic Pinspotters) is 83′ 3-5/16″. The number of lanes X 83′ 3-5/16″ plus the aisle should be level and the entire area depressed 13″ below the bowler settee area.

Bowler Settee Area This area should be 10′ 0″ to 10′ 6″ in depth and covered with vinyl asbestos tile or equally suitable material.

Spectator Seating Area This area should be 5′ 0″ in depth (with 3′ 0″ minimum) and the area raised 6″ above the bowler settee area and also covered with vinyl asbestos tile.

Spectator Lounge Area This area is optional and recommended only if food and beverages are being served on a large scale. This area should be raised 6″ above the spectator seating area. Floor covering similar to the spectator area.



Concourse An ample area between the last row of seating and the walls of the toilets, locker rooms, etc. should be provided for access to and from the bowling lanes for bowlers and spectators and oncoming bowlers and spectators. The suggested width is approximately 12′ 0″ and carpeting is recommended in this area. The concourse should be raised 6″ above the last row of seating.

Control Counter The location of the control counter is best determined so the lanes and entrances can be observed at all times.

Toilets The number of fixtures and facilities are determined by 5 persons per lane plus spectator seating plus snack counter seating and governed by local codes. The toilet rooms should be located where they are easily accessible to the bowlers.

Locker Rooms Lockers are 22½″ deep X 30″ wide X 75″ high and have ten openings. Ten openings per lane is suggested for men and ten openings per lane for women.

Snack Counter A small snack counter is recommended as a service to the bowlers. A large food operation is recommended only if the establishment is in an area large enough to support a restaurant.

Bar and Cocktail Lounge A bar and cocktail lounge is recommended if permitted by local laws.

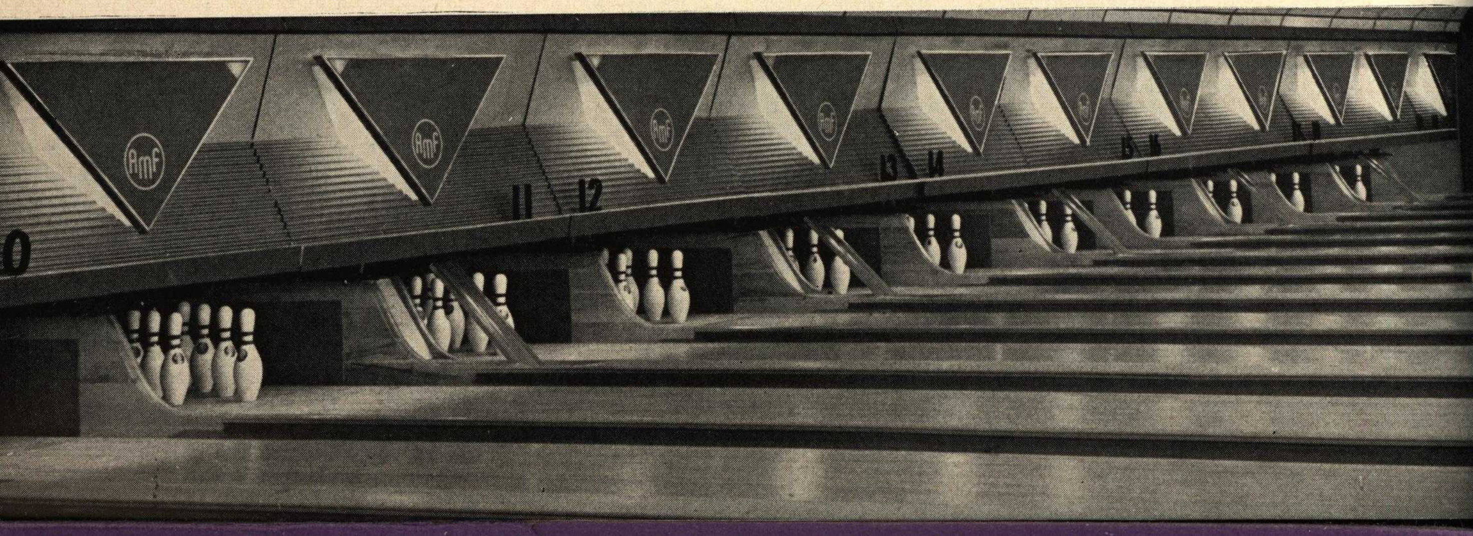
Nursery A nursery room is highly recommended for pre-school children.

All-Purpose Rooms An all-purpose room for league meetings, banquets, luncheons or lounging should be included in all plans. This room can also be used as a nursery if space is limited.

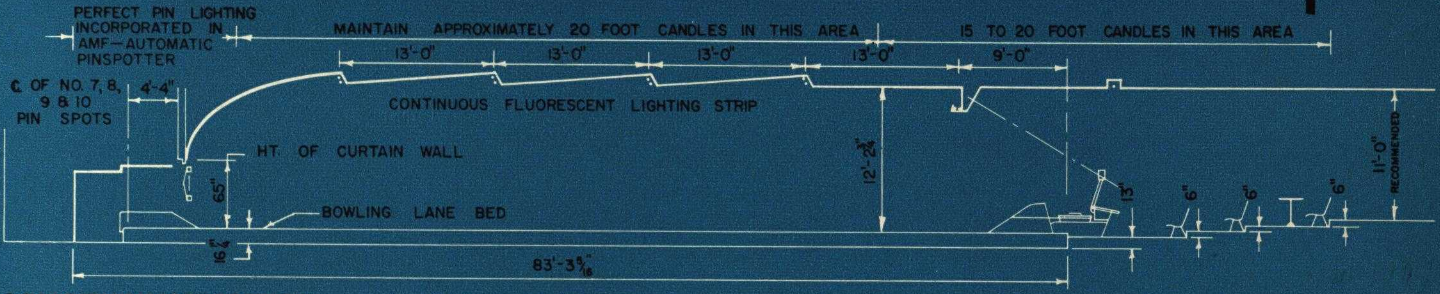
Miscellaneous A janitor's supply room with slop sink, storage rooms, air conditioning room, drinking fountain, phones, etc. should be included.

engineer and design service

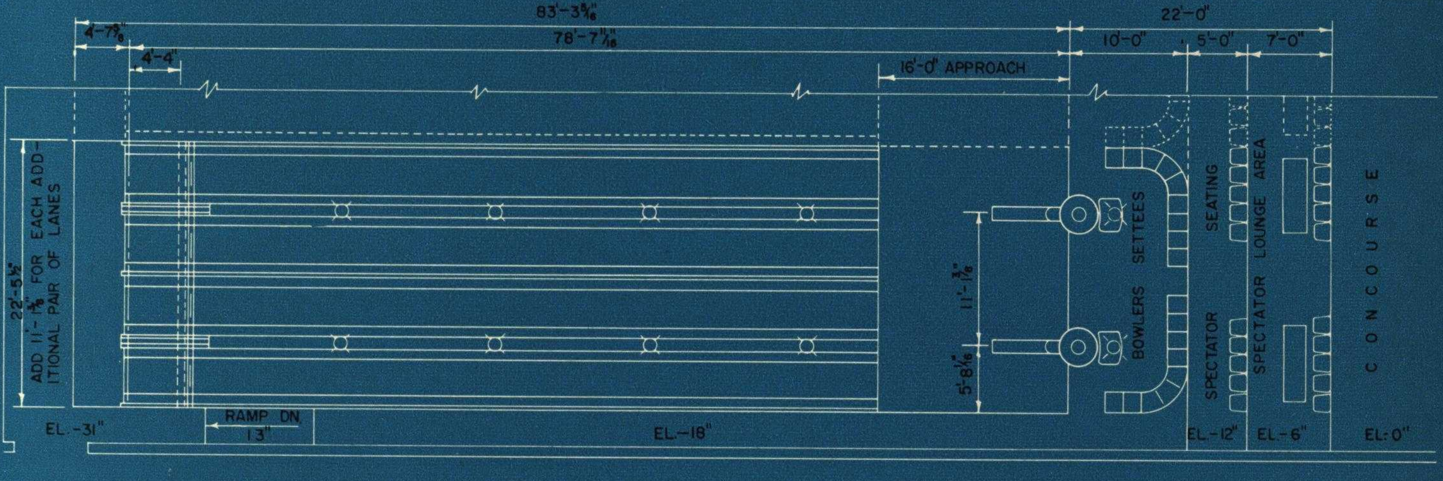
AMF's Architectural Design Staff will assist all architects and engineers in the planning of bowling establishments. Architectural design data on planning the installation, AMF bowling lanes, AMF Automatic Pinspotters, lighting and other pertinent factors in the design of the most modern establishment is available upon request.



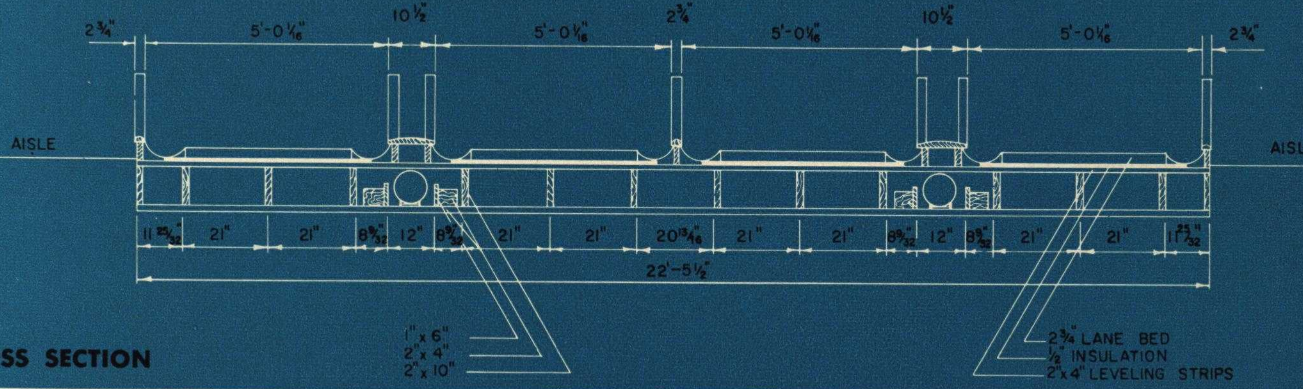
schematic plan for bowling centers


PERFECT PIN LIGHTING INCORPORATED IN AMF—AUTOMATIC PINSPOTTER
MAINTAIN APPROXIMATELY 20 FOOT CANDLES IN THIS AREA
15 TO 20 FOOT CANDLES IN THIS AREA
13'-0"
13'-0"
13'-0"
13'-0"
9'-0"
C. OF NO. 7, 8, 9 & 10 PIN SPOTS
4'-4"
CONTINUOUS FLUORESCENT LIGHTING STRIP
HT. OF CURTAIN WALL
65"
12'-2¾"
11'-0" RECOMMENDED
13"
6"
6"
6"
BOWLING LANE BED
16¾"
83'-3⅝"

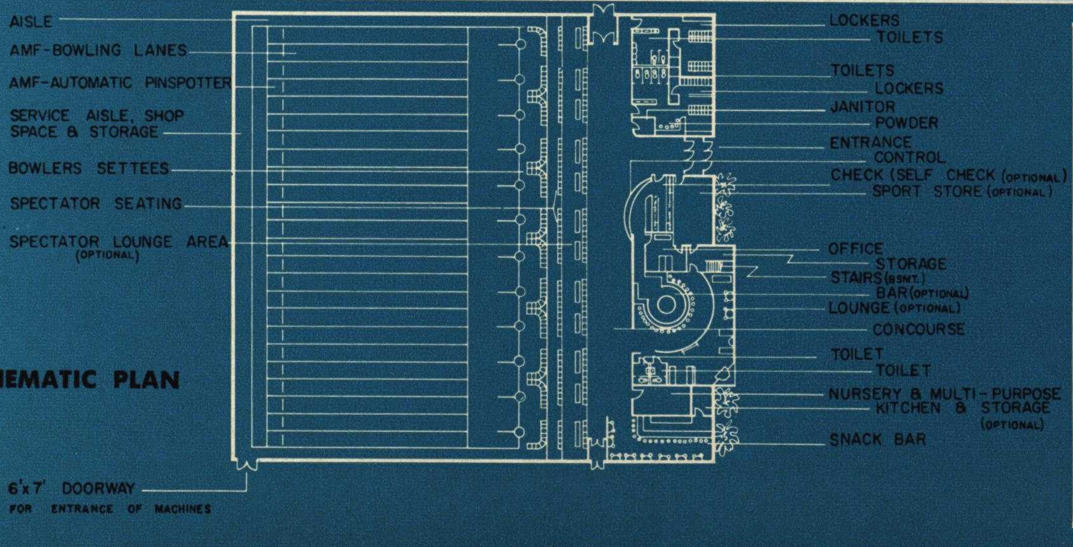
LONGITUDINAL SECTION


83'-3⅝"
78'-7"
4'-7⅝"
4'-4"
22'-0"
10'-0"
5'-0"
7'-0"
16'-0" APPROACH
22'-5½"
ADD 11'-1⅜" FOR EACH ADDITIONAL PAIR OF LANES
11'-1⅜"
5'-8¼"
BOWLERS SETTEES
SPECTATOR SEATING
SPECTATOR LOUNGE AREA
CONCOURSE
EL. -31"
RAMP DN. 13"
EL. -18"
EL. -12"
EL. -6"
EL. 0"

PLAN


2¾"
5'-0⅛"
10½"
5'-0⅛"
2¾"
5'-0⅛"
10½"
5'-0⅛"
2¾"
AISLE
AISLE
11 23/32"
21"
21"
8 9/32"
12"
8 9/32"
21"
21"
20 13/16"
21"
21"
8 9/32"
12"
8 9/32"
21"
21"
11 23/32"
22'-5½"
1" x 6"
2" x 4"
2" x 10"
2¾" LANE BED
½" INSULATION
2" x 4" LEVELING STRIPS

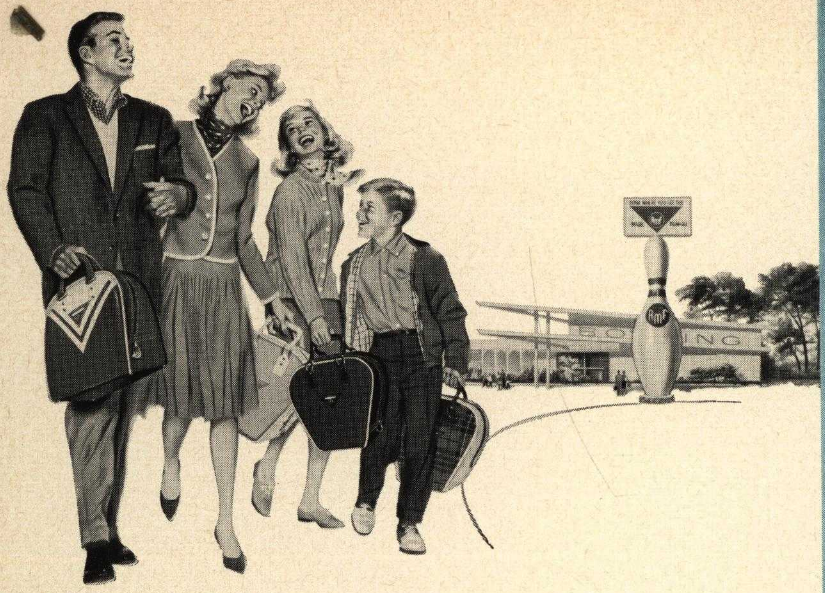
CROSS SECTION


AISLE
AMF-BOWLING LANES
AMF-AUTOMATIC PINSPOTTER
SERVICE AISLE, SHOP SPACE & STORAGE
BOWLERS SETTEES
SPECTATOR SEATING
SPECTATOR LOUNGE AREA (OPTIONAL)
6' x 7' DOORWAY FOR ENTRANCE OF MACHINES
LOCKERS
TOILETS
TOILETS
LOCKERS
JANITOR
POWDER
ENTRANCE
CONTROL
CHECK (SELF CHECK (OPTIONAL))
SPORT STORE (OPTIONAL)
OFFICE
STORAGE
STAIRS (BSMT.)
BAR (OPTIONAL)
LOUNGE (OPTIONAL)
CONCOURSE
TOILET
TOILET
NURSERY & MULTI-PURPOSE
KITCHEN & STORAGE (OPTIONAL)
SNACK BAR

SCHEMATIC PLAN

bowling lane width dimensions

no.	width	no.	width
2	11'-4⅛"	32	178'-0¾"
4	22'-5½"	34	189'-2⅛"
6	33'-6⅞"	36	200'-3½"
8	44'-8¼"	38	211'-4⅞"
10	55'-9⅝"	40	222'-6¼"
12	66'-11"	42	233'-7⅝"
14	78'-0⅜"	44	244'-9"
16	89'-1¾"	46	255'-10⅜"
18	100'-3⅛"	48	266'-11¾"
20	111'-4½"	50	278'-1⅛"
22	122'-5⅞"	52	289'-2½"
24	133'-7¼"	54	300'-3⅞"
26	144'-8⅝"	56	311'-5¼"
28	155'-10"	58	322'-6⅝"
30	166'-11⅜"	60	333'-8"



Bowling, the country's largest participant sport, is currently enjoying an unprecedented boom period.

This popularity has made the bowling center the gathering place for the entire family, for social and industrial leagues, for church and civic groups—for bowlers of all ages. With this new era in bowling has come new architectural concepts, beautiful furnishings, modern and colorful equipment.

Because of this increased popularity and the trend toward more leisure time—plus the impact of television and the Automatic Pinspotters—more and more community and shopping centers are including bowling establishments as part of their facilities. You will very likely be called upon, therefore, to submit plans for bowling centers. If so, you will probably need the friendly advice of AMF.

We are ready to help you with a complete service, including new ideas in interior and exterior design that are both beautiful and practical.

Bowl where you see the "Magic Triangle" ®

AMF PINSPOTTERS INC.

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AMERICAN MACHINE & FOUNDRY COMPANY

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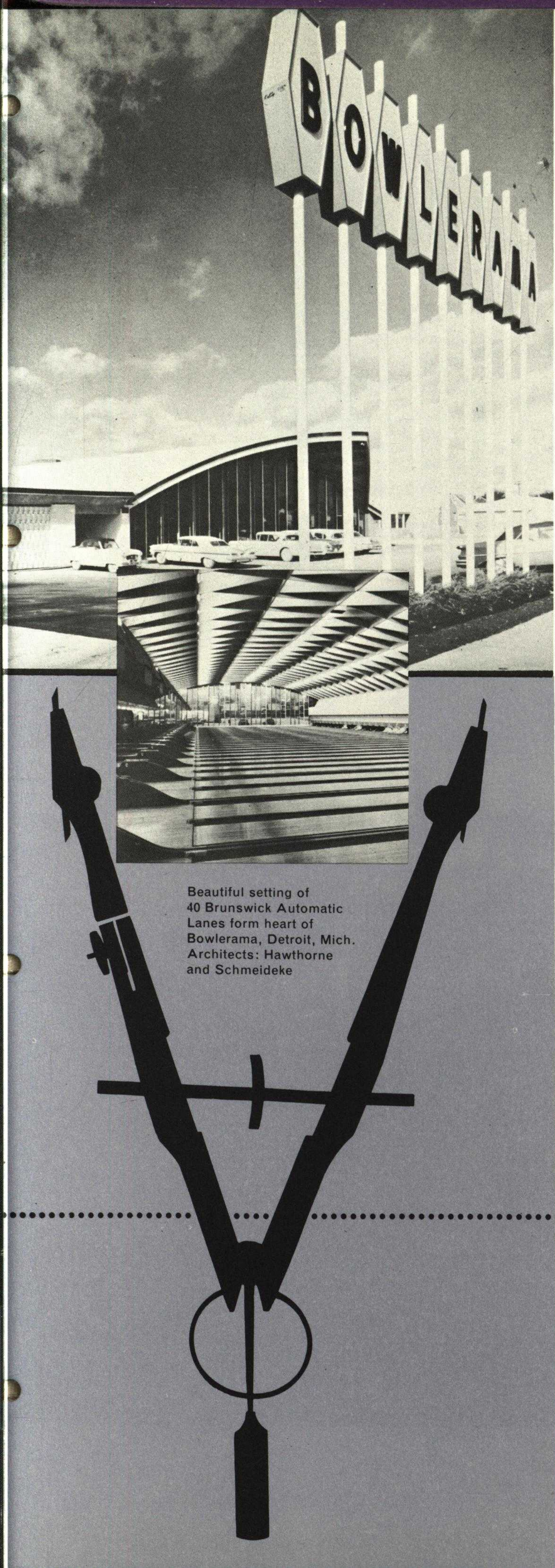

Beautiful setting of 40 Brunswick Automatic Lanes form heart of Bowlerama, Detroit, Mich. Architects: Hawthorne and Schmeideke

only Brunswick offers you 74 years of bowling and billiard architectural experience!

Since 1885, architects have relied on technical data from Brunswick. Here, they find the blend of long experience with an understanding of architectural needs in the technical data and assistance offered by Brunswick. Many of these studies have been coordinated with principal manufacturers and technical consulting organizations throughout the United States.

Far from supplanting the local architect, this essential information offers practical solutions to problems likely to be encountered by the architect, engineer and builder.

In these areas especially will you find this Brunswick service invaluable!

1. *Site orientation*
2. *Acoustical provisions*
3. *Electrical power and wiring requirements*
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5. *Layout of lane control counters*
6. *Integration of diversified elements*
7. *Suggested layout arrangements and space requirements*
8. *Building and sign identification*
9. *Color schemes and furnishings*
10. *Ventilating, heating, temperature control*
11. *Parking requirements*

Feel free to contact your nearest Brunswick Branch where you'll find full cooperation from men whose life work is bowling and billiards.

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Brunswick

your "Springboard to Design!"

Depicted here are some of the areas of a bowling installation where this Brunswick service can and has been utilized. Today's bowling centers serve a wide variety of recreation. Restaurants, "pro" shops, cocktail lounges, nurseries, etc. are now part of today's modern bowling centers.

Brunswick's Architectural Research Personnel are highly experienced in the design and planning of these ultra-modern centers. Their understanding of bowling trends coupled with the depth of Brunswick experience in the bowling field has developed numerous plans for bowling and billiard establishments where they handle the problems most likely to be encountered by architects, engineers and builders.

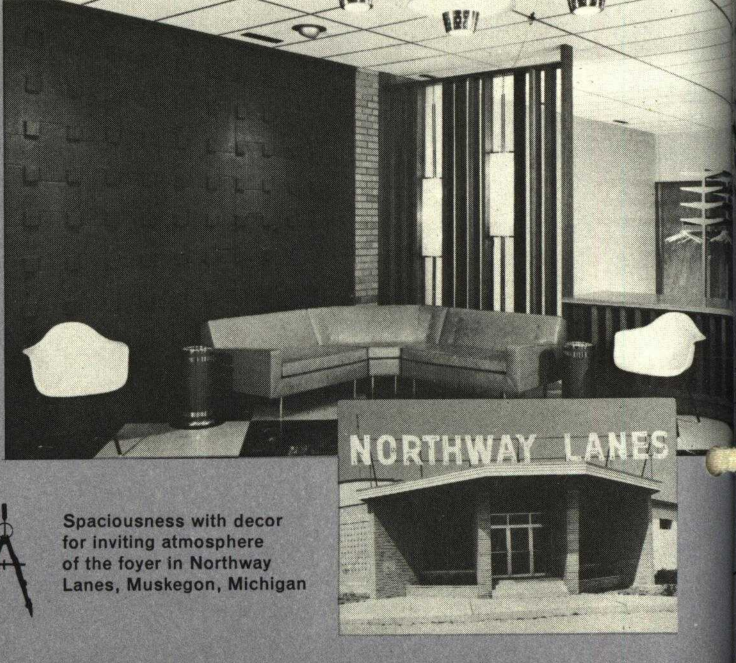
Avail yourself of this most essential information. Skilled individual counselling is also available through the medium of the Brunswick Sales Engineer whom you should contact at the nearest Brunswick Branch Office.

Master control board for 54 Brunswick Lanes simplify control for South Bay Bowling Center, Redondo Beach, Calif.

RESTAURANT

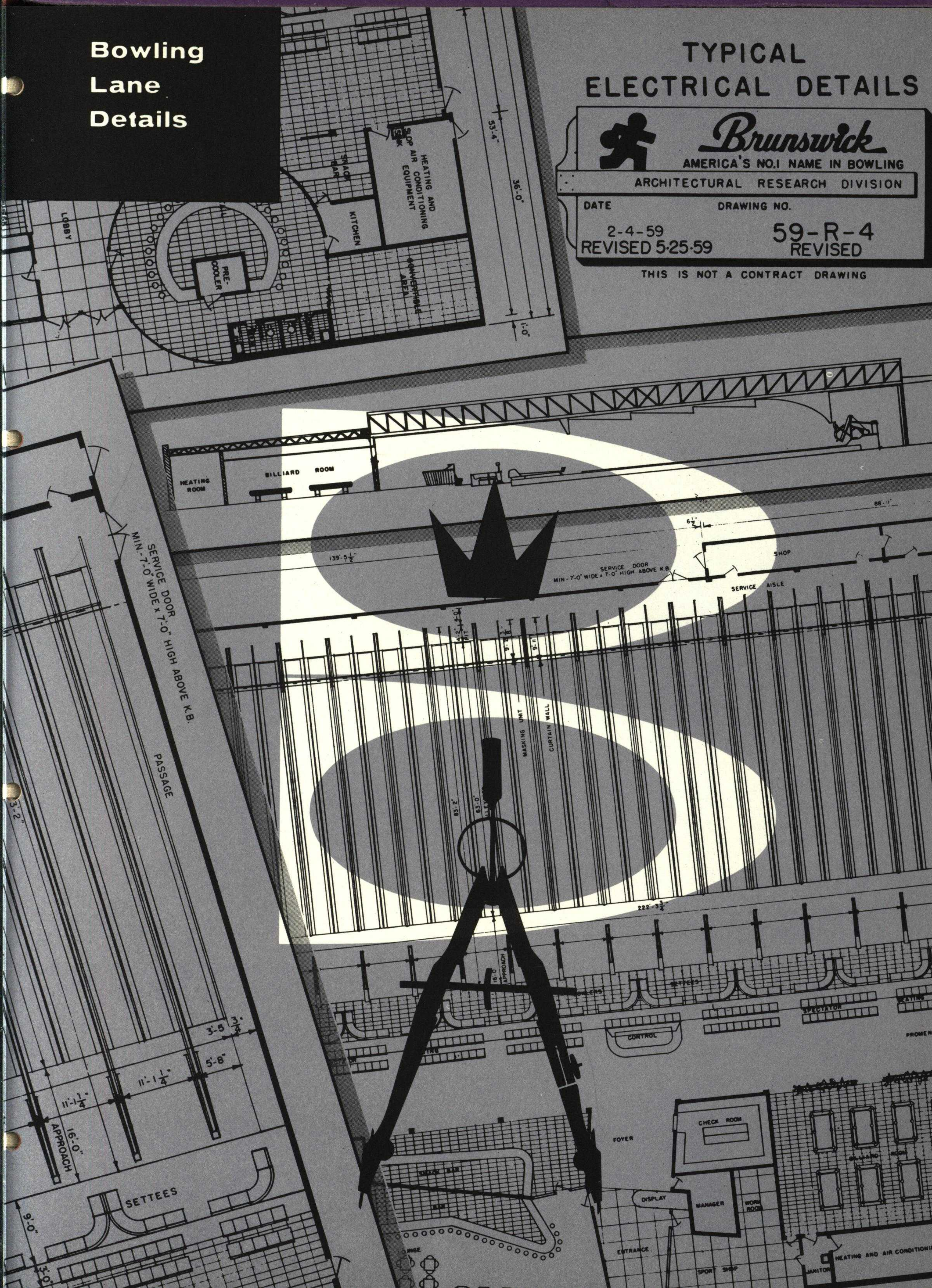
Cocktail Lounge as an integral unit of the concourse was adopted by Holiday Bowl, Syracuse, New York

Striking display of bowling accessories in "Pro Shop" of North Kansas City Bowl, Kansas City, Kansas



Spaciousness with decor for inviting atmosphere of the foyer in Northway Lanes, Muskegon, Michigan

Bowling Lane Details


TYPICAL
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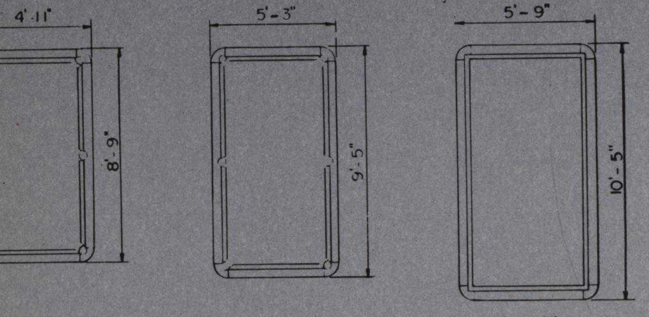
LOBBY
SNACK BAR
SLOP SINK
HEATING AND AIR CONDITIONING EQUIPMENT
KITCHEN
PRE-COOLER
CONVERTIBLE AREA
53'-4"
36'-0"
1'-0"
HEATING ROOM
BILLIARD ROOM
139'-5 1/2"
SERVICE DOOR MIN-7'-0" WIDE x 7'-0" HIGH ABOVE K.B.
SHOP
SERVICE AISLE
86'-11"
MASKING UNIT
CURTAIN WALL
222'-3 3/4"
16'-0" APPROACH
SETTEES
SPECTATOR
SEATING
CONTROL
PROMENADE
CHECK ROOM
FOYER
DISPLAY
MANAGER
WORK ROOM
ENTRANCE
SPORT SHOP
LOUNGE
SNACK BAR
BILLIARD ROOM
JANITOR
HEATING AND AIR CONDITIONING
PASSAGE
3'-5 3/4"
5'-8"
11'-1 1/4"
16'-0"
APPROACH
SETTEES
9'-0"
3'-0"
3'-2"

Billiard Room Data

ACTUAL TABLE DIMENSIONS

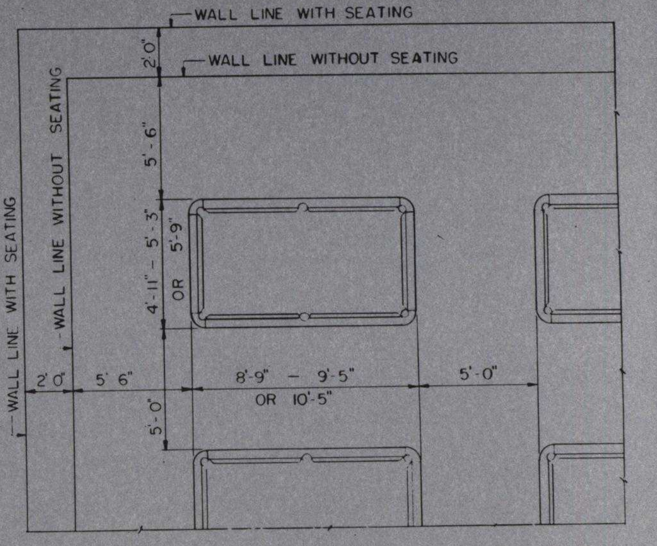


4' x 8'
pocket table

4½' x 9'
pocket table

5' x 10'
carom table

CORRECT TABLE SPACING



SCALE: ⅛" = 1'0"

WONDER
BOWL
WONDER BOWL

Wonder Bowl, Anaheim, California blends billiard room setting with panoramic view of bowling lanes.

	4' x 8' Pocket	4½' x 9' Pocket, Carom	5' x 10' Carom, Snooker
Height to top of rail	31¾"	31¾"	31¾"
Height to top of playing surface	30"	30"	30"
Width of playing area, cushion to cushion	46"	50"	56"
Length of playing area, cushion to cushion	92"	100"	112"
Slate size	53" x 99"	57" x 107"	63" x 119"
Floor area covered by legs:			
Anniversary Tables	36" x 74"	40" x 82"	46" x 95"
Moderne Tables	41" x 81"	45" x 89"	51" x 101"
Centennial Tables	36" x 72"	40" x 80"	46" x 92"

Get in touch with your nearest Brunswick branch for additional architectural data and complete technical assistance

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Los Angeles 15, Calif. 1040 S. Flower Street—Richmond 9-5333
Milwaukee 3, Wis. 702 W. Wisconsin Avenue—Broadway 1-4461
Minneapolis 15, Minn. 4700 Olson Memorial Highway—
Juniper 8-9411
New Jersey—190 Sylvan Avenue Rte. 9 W. P.O. Box 114
Englewood Cliffs, Coytesville, N.J.—Lowell 7-2535
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St. Louis 12, Mo. 5967 Delmar Blvd.—Parkview 5-2010
Salt Lake City 10, Utah 2195 S. Main St.—Ingersoll 7-1541
San Francisco 3, Calif. 272 Fifth Street—Sutter 1-4508
Seattle 1, Wash. 1626 Terry Avenue—Mutual 2-7750

SUB-BRANCHES

Portland 12, Oregon 2710 N.E. Broadway—Atlantic 4-1811
(Sub-branch of Seattle)

SUBSIDIARY COMPANIES

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Representing all the principal markets of the world
Direct correspondence to United States office, 623 South Wabash Avenue, Chicago 5, Illinois
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Brunswick-Balke-Collender Co. of Canada, Ltd., 38 Hanna Ave., Toronto, Ontario, Canada
Brunswick de Mexico S.A., Apartado 889, Mexico, D.F., Mexico

THE BRUNSWICK-BALKE-COLLENDER COMPANY
623 SOUTH WABASH AVENUE • CHICAGO 5, ILLINOIS

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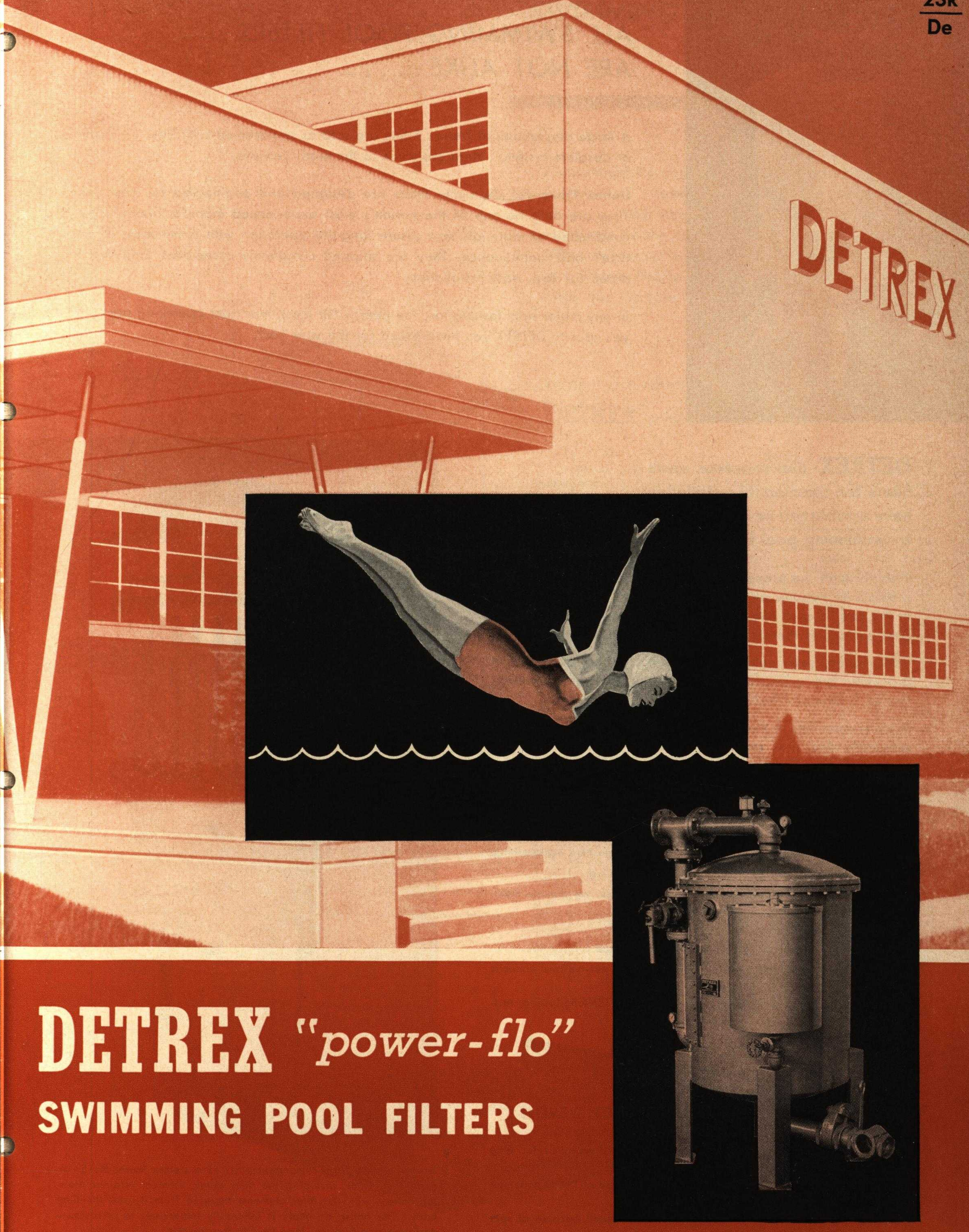
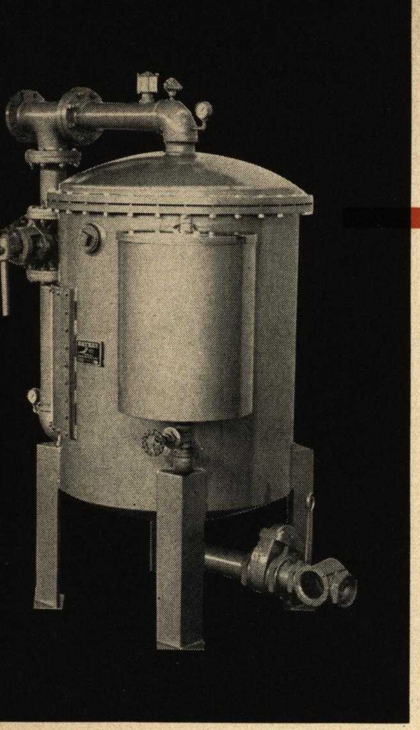


DETREX *"power-flo"*
SWIMMING POOL FILTERS

DETREX CHEMICAL INDUSTRIES, INC.



ALL SWIMMING POOL FILTERS ARE NOT ALIKE .....

A large percentage of Detrex filters are sold as replacements for inferior, inefficient or obsolete systems. Here are some of the many reasons.

Detrex Power-Flo Diatomite filters are designed and engineered by filter experts. They are built by one of the nation's most experienced manufacturers. They are constructed of materials that assure long-life operation with a minimum of "down time" and maintenance. They are shipped completely assembled, and are face-piped for fast, easy installation.

In any major pool installation, the filter is the most important operating part. When you specify DETREX you have asked for the very best.

DETREX diatomaceous earth filters for commercial installations have established new standards for swimming pool filters

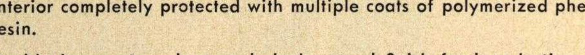
Only through the process of modern diatomite filtration is it possible to remove all of the "contaminated" filter media at the end of each filter cycle. A completely new and clean filter surface is therefore always available.

Coagulation, sedimentation and similar controlled chemical processes are unnecessary when water is filtered through Detrex Diatomite Filters.

The tiny openings in the diatomite "filter cake" are so microscopically fine that maximum turbidity removal is accomplished during the very first pass through the filter.

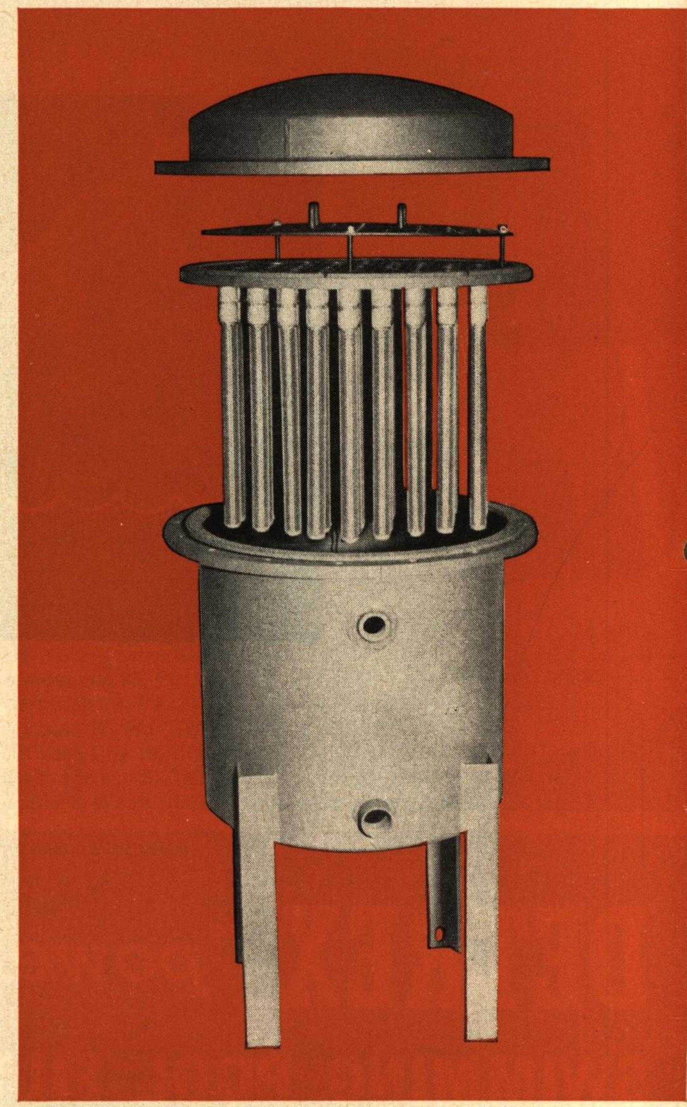
additional important features

- Longer operating cycles between backwashings.
- Elements designed for non-fouling operation and positive backwashing.
- Only small amount of water required for backwashing.
- All Detrex filters are designed to occupy less space, yet provide maximum filter area.
- Easy, fast simple to operate.
- Fabricated of heavy-gauge steel with double welded construction.
- Interior completely protected with multiple coats of polymerized phenolic resin.
- Double hammertone bronze, baked enamel finish for long-lasting, rust-free attractiveness.



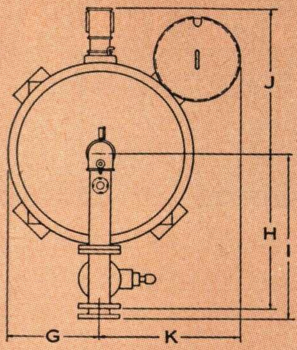
THE DETREX FILTER ELEMENT

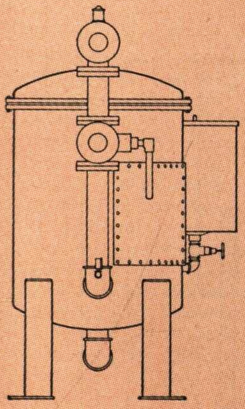
- Tubular all stainless steel filter elements specially designed for long filter cycles and complete cleaning by internal backwash.
- Fast precoat with minimum recirculating time because of Detrex patented tubular element and direct precoat feed.
- Maximum filter area with minimum space requirements because of specially designed filter elements.

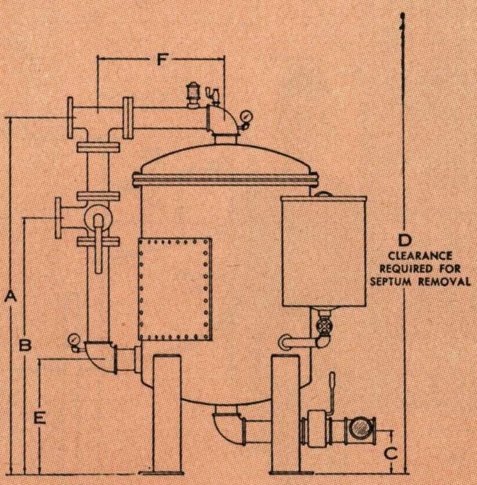


A view showing the component parts of a Detrex Power-Flo Swimming Pool Filter, including the filter dome, element retainer plate, tube sheet with the filter elements hanging from it, and the filter body. The entire assembly is inherently impervious to corrosion—designed and built for long trouble-free service.

SWIMMING POOL FILTERS







THOROUGHLY TESTED . . .
RELIABLY GUARANTEED

Guaranteed by one of America's largest filter manufacturers . . . combining quality, price and performance . . . this new Diatomite Filter establishes new standards for the commercial swimming pool industry. Whether your commercial pool project is large or small, new Detrex Diatomite Filters will measurably reduce costs and increase operating efficiency.

dimensions in inches

MODEL	A	B	C	D	E	F	G	H	I	J	K
1-20	54¼	40	9½	76	17¼	14⅝	9⅛	16⅛	17⅜	19½	11
1-30	61⅝	43¼	9½	80	20⅜	16⅜	11⅛	18 5/16	19⅜	40	30
1-45	61⅝	43¼	9½	80	18⅞	18⅜	13 3/16	20⅝	21¾	44	35
1-60	69½	52¾	12½	96	23¾	18¼	13 3/16	21	22 5/16	45	35
1-75	61	52¾	12½	85	23⅞	20¾	15 11/16	23¾	25¼	44	38
1-100	71½	56¾	12½	96	23⅞	25	15 11/16	28⅛	30⅝	45	38
1-150	78	56	9¼	108	25	27½	20	34	34	32	30
1-243	83	61	12	113	29	32	23	40	40	40	32

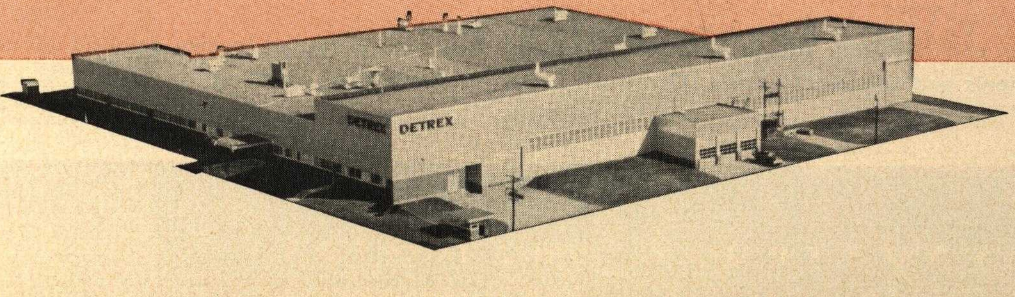
Note: Access door and flanged piping furnished on Models 1-150 and 1-243 only.

- Detrex Power-Flo Filters are shipped factory assembled including elements and manifold piping with valves.
- Longer pump life as precoat slurry does not pass through recirculating pump.
- Pressure vessel constuction with dished heads. Central outlet and drain insure thorough cleaning of filter body during backwash.

Forty years of manufacturing experience in the production of the world's most outstanding dry cleaning and industrial cleaning equipment is your assurance of high quality engineering and performance at a remarkably low cost.

commercial rating tables for
DETREX power-flo filters

model	no. of units	area sq. ft.	tank dia. in.	inlet IPS	pump GPM	approx. motor HP	capacity gallons per 1 hr.	6 hr.	8 hr.
flow rate 2 GPM per square foot									
1-20	1	20	18	1¼	40	¼	2400	14400	19200
1-30	1	30	18	1½	60	1	3600	21600	28800
1-45	1	45	22	2	90	1½	5400	32400	43200
1-60	1	60	22	2½	120	3	7200	43200	57600
1-75	1	75	27	3	150	5	9000	54000	72000
1-100	1	100	27	3	200	5	12000	72000	96000
2-60	2	120	22	4	240	7½	14400	86400	115200
1-150	1	150	36	4	300	7½	18000	108000	144000
2-100	2	200	27	6	400	10	24000	144000	192000
1-243	1	243	42	5	486	15	29160	174960	233280
2-150	2	300	36	6	600	15	36000	216000	288000
4-100	4	400	27	6	800	20	48000	288000	384000
2-243	2	486	42	6	972	30	58320	349920	466560
flow rate 3 GPM per square foot									
1-20	1	20	18	1¼	60	1	3600	21600	28800
1-30	1	30	18	1½	90	1½	5400	32400	43200
1-45	1	45	22	2	135	3	8100	48600	64800
1-60	1	60	22	2½	180	5	10800	64800	86400
1-75	1	75	27	3	225	7½	13500	81000	108000
1-100	1	100	27	3	300	10	18000	108000	144000
2-60	2	120	22	4	360	10	21600	129600	172800
1-150	1	150	36	4	450	15	27000	162000	216000
2-100	2	200	27	6	600	15	36000	216000	288000
1-243	1	243	42	5	729	20	43740	262440	349920
2-150	2	300	36	6	900	20	54000	324000	432000
4-100	4	400	27	6	1200	20	72000	432000	576000
2-243	2	486	42	6	1458		87480	524880	699840



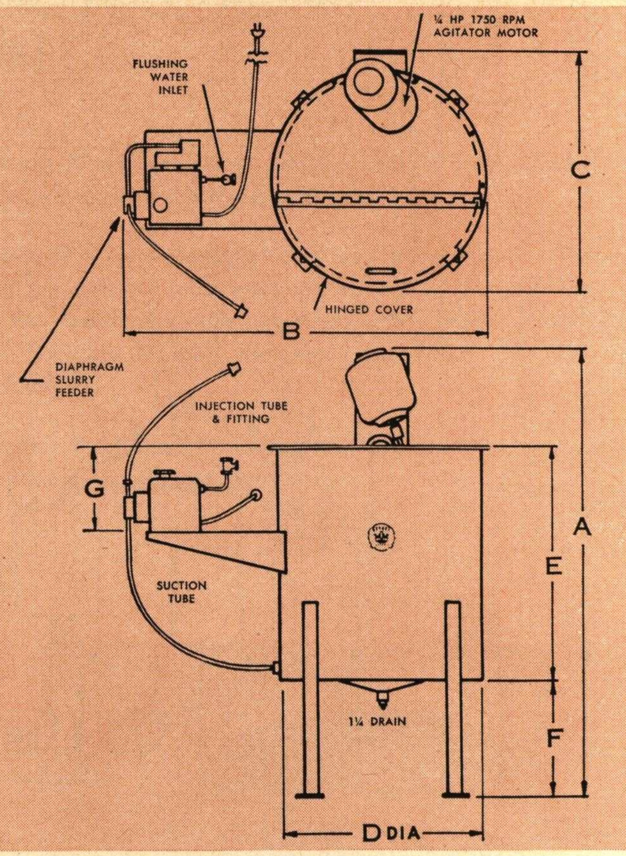
DETREX SLURRY TANK AND BODY FEEDER

operation—During the filter cycle, metered amounts of diatomite slurry are continuously fed into the filter by means of a diaphragm pump. The rate of feed can be varied to meet individual requirements. The slurry additions help to keep the "fiilter cake" porous and assure maximum filter cycles between backwashings.

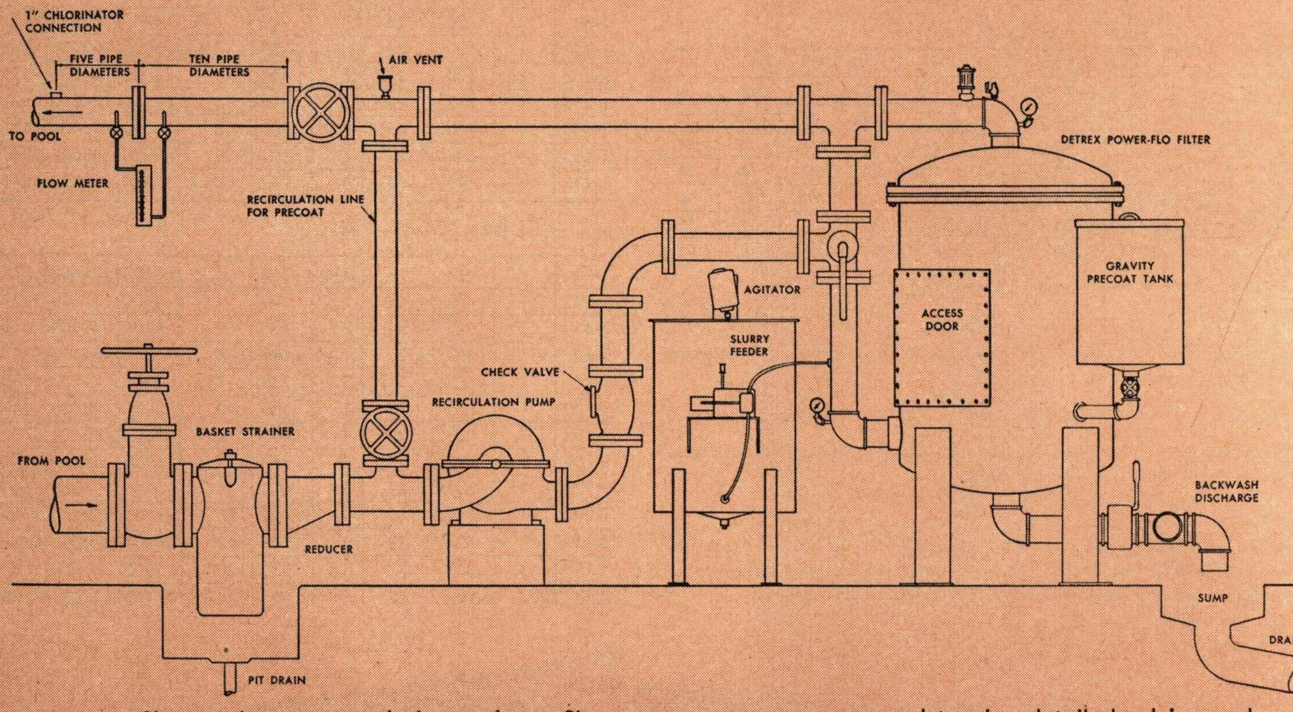
construction—Detrex slurry tanks are of welded steel construction and have hinged covers. For maximum corrosion resistance, the tank interior is FF-1 coated after sand-blasting. Exterior surfaces are phosphate treated, primed and finished in baked, hammertone enamel.

dimensions in inches

model	gallons cap.	A	B	C	D	E	F	G
T1	25	46	37	25	21	24	12¼	8
T2	50	54	40	28	24	32	12¼	16
T3	100	54	46	34	30	32	12¼	16
T4	150	62	54	40	36	40	12¼	16


¼ HP 1750 RPM
AGITATOR MOTOR
FLUSHING WATER INLET
C
HINGED COVER
B
DIAPHRAGM SLURRY FEEDER
INJECTION TUBE & FITTING
G
A
E
SUCTION TUBE
1¼ DRAIN
F
D DIA

TYPICAL FILTER ROOM LAYOUT


1" CHLORINATOR CONNECTION
FIVE PIPE DIAMETERS
TEN PIPE DIAMETERS
TO POOL
AIR VENT
FLOW METER
RECIRCULATION LINE FOR PRECOAT
DETREX POWER-FLO FILTER
AGITATOR
ACCESS DOOR
GRAVITY PRECOAT TANK
SLURRY FEEDER
CHECK VALVE
RECIRCULATION PUMP
BASKET STRAINER
FROM POOL
REDUCER
BACKWASH DISCHARGE
SUMP
DRAIN
PIT DRAIN

Detrex compact filter and accessory design reduces filter room space requirements and construction costs. Our engineers are prepared to give detailed advice and assistance in your project planning.

DETREX CHEMICAL INDUSTRIES, INC.
— FILTER DIVISION —
BOX 501, DETROIT 32, MICHIGAN

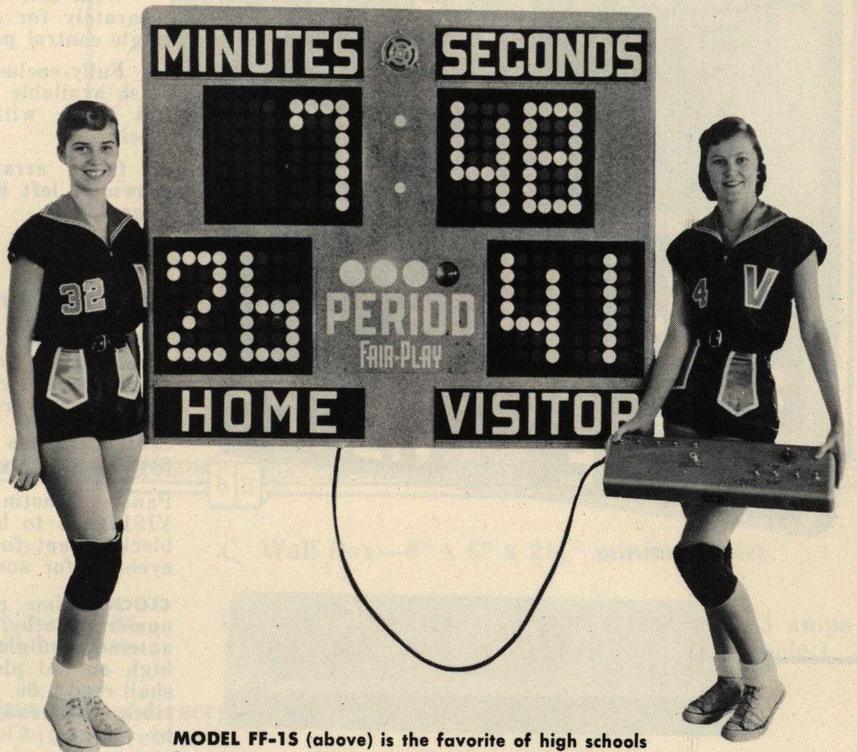
FAIR-PLAY *Electric* SCOREBOARDS

TYPICAL FAIR-PLAY INSTALLATIONS

University of Alabama
Arizona State College
University of Arkansas
University of Southern California
University of Colorado
University of Delaware
Florida State University
University of Indiana
State University of Iowa
University of Kansas
University of Kentucky
Louisiana State University
U. S. Military Academy
U. S. Naval Academy
University of Massachusetts
Michigan State University
University of Minnesota
University of Mississippi
University of Missouri
University of Nebraska
University of New Mexico
University of North Carolina
North Carolina State
University of North Dakota
Ohio University
University of Oklahoma
Oklahoma A & M College
University of Oregon
Oregon State College
University of Pennsylvania
University of South Dakota
South Dakota State
University of Utah
University of Wisconsin
University of Wyoming
Cornell University
Yale University
University of Denver
Bradley University
Drake University
Wichita University
Tulane University
Tufts University
Wayne State University
St. Louis University
Creighton University
University of Omaha
Seton Hall
Wake Forest College
Miami University
University of Toledo
Dayton University
University of Tulsa
Brown University
Clemson College
Brigham Young University
Rose Bowl Stadium
Orange Bowl Stadium
Gator Bowl Stadium

AUDITORIUMS AND ARENAS

Los Angeles Coliseum
Kansas City Municipal Auditorium
Kiel Auditorium, St. Louis
Oklahoma City Auditorium
Dallas Memorial Auditorium
Spokane Coliseum
Richmond, Va., Arena
Los Angeles Arena
Louisiana State Fair



MODEL FF-1S (above) is the favorite of high schools from Maine to California. Details on Page 2 inside.

Whatever the sport—Basketball, Football, Soccer, Hockey, Swimming, Wrestling, Track, Gymnastics—if timing and scoring are important, Fair-Play has an electric scoreboard for the job.

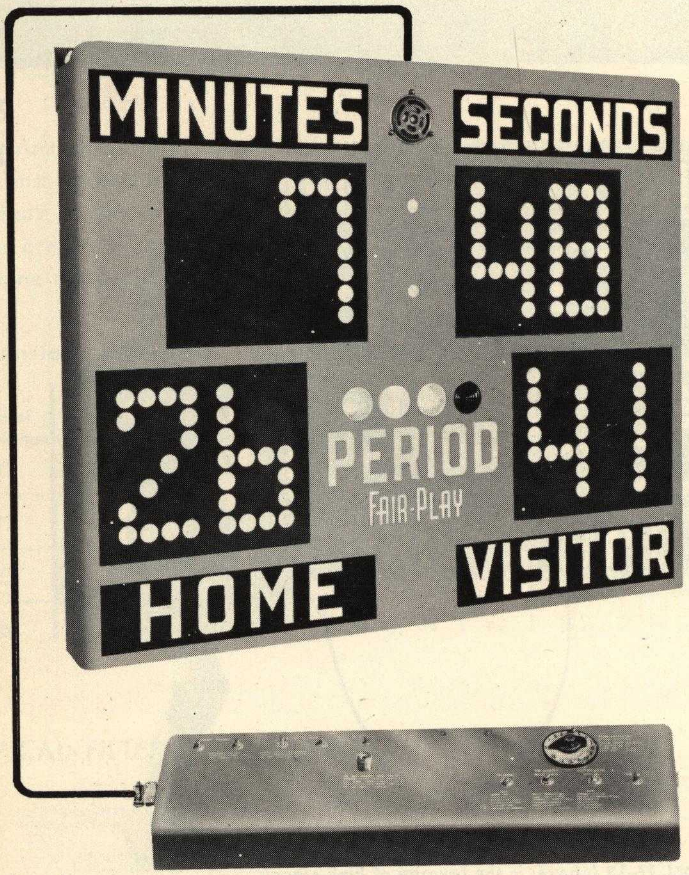
More than a quarter century of experience—and a top-flight engineering staff teamed with men who know spectator sports from coaching through administration—stand back of Fair-Play scoreboards.

Call on Fair-Play's Engineering Department for assistance in either custom or standard installations. No obligation, of course.

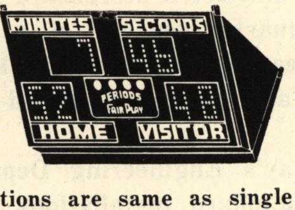
More schools choose Fair-Play electric scoreboards!

FAIR-PLAY SCOREBOARD CO.
PHONE: AM 2-8261 • Box 359 • Des Moines 2, Iowa

FAIR-PLAY FF-1S FIGURGRAM

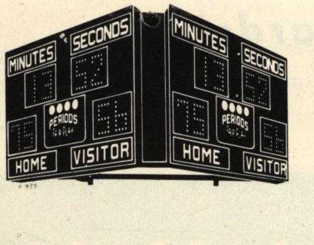


Scoreboard is controlled by portable, single-piece pressed aluminum control panel with baked enamel finish. Panel is 24″x7″x2″. Dual control may be used for one cross-court game and additional single control is required for operation of other game. Standard cord length is 10 feet, special lengths when specified.



This is a V-shaped two-unit scoreboard with each face set at 45 degrees with opposite face. Designed for end-of-court suspension or between stage and court.

Scoreboard is 5 feet long, 3 feet wide at top; weighs 150 pounds. General specifications are same as single unit. Board may be attached to ceiling beams or suspended for raising and lowering by steel cables.



For use where seating is on two sides and one end, this is an arrangement of two FF-1S boards set at 45-degree angles with the wall. Length against wall is 7′ 9″ and distance from front to wall is slightly over 3 feet. Brackets are included for wall mounting.

A typical installation has one FF-1S scoreboard at each end of the court at the right of each basket, with a dual control panel at the officials' table. (Up to four boards may be controlled from one panel.)

With this type of installation, boards may be used separately for cross-court games by providing an extra single control panel and control receptacle.

Fully-enclosed cabinet with non-glare baked enamel finish available in choice of colors: gray, red, green, blue and black, with white lettering. Special colors when specified.

Other arrangements of the FF-1S scoreboard are shown at left below. A 4-sided scoreboard is shown on Page 4.

Suggested Architect's Specifications

CABINET: Constructed of aluminum alloy with fully enclosed back. Scoreboard may be mounted against wall, since all service is from the front. The scoreboard never has to be lowered for service.

Scoreboard has 12″ numerals and is 5′ long x 4′ high x 6½″ deep; weighs 100 lbs.

Panels denoting MINUTES, SECONDS, HOME and VISITORS to be plastic, lighted from the rear, painted black except for letters. To have brackets for hanging, eyebolts for suspension.

CLOCK: Time remaining to play to be shown by four numeral blocks; each block to have 25 No. 57 low-voltage automotive lights with bayonet type base. Numerals 12″ high on red plastic. Mechanism designed so that clock shall read 0:00. After one second of operation a 20 minute clock shall read 19:59, and time to automatically diminish by seconds. Clock shall be quickly set from control for any minute of play within the limits of the movement. The impulse mechanism shall be in desk control unit for ease of service. The Clock Pak including stepping relays to be housed in metal box in main cabinet, and shall be removable by unplugging for ease of service or use in other scoreboards.

SCORE UNIT: Numeral blocks to be same as used in clock. Stepping relays for score units in main cabinet to be contained in cans which shall be removable by unplugging.

PERIOD: To be indicated by four lights behind 3″ lenses of varied colors with word PERIOD beneath.

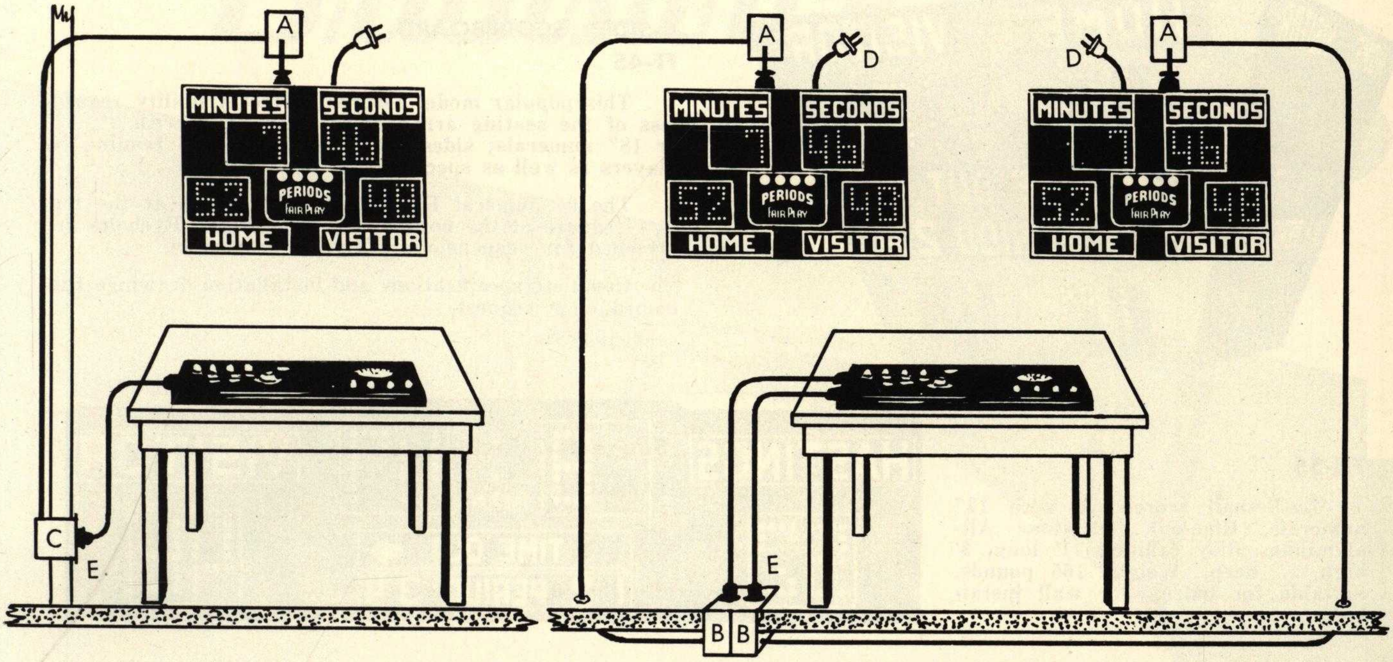
CONTROL: Control to be single-piece pressed metal suitable for one or two operators. Score and period to have push-button progressive control. Toggle switch for clock control and toggle switch for selective automatic horn. Control shall have ten feet of flexible cable with plug attached, unless otherwise specified.

HORN: Loud 110-bolt buzzer-type vibratory horn installed on scoreboard to sound automatically at end of period, or at will by push button. Outlet for optional horn or lights shall be provided on control.

CURRENT: 115V, 5 amp., 60 cycle; 50 or 25 on request. Where two or more scoreboards are synchronized, it is recommended that they be connected to the same power source.

MULTIPLE INSTALLATIONS: Two or more scoreboards to operate simultaneously from same set of switches on control. Two selector switches are provided on the control for independent operation of either (or any) scoreboard for correction or for cross-court games. An additional single control panel is required for operation of remaining scoreboard.

Typical Installations—Single and Synchronized Pair


A
MINUTES
SECONDS
7
46
52
PERIODS
FAIR PLAY
48
HOME
VISITOR
C
E
A
D
D
A
B B

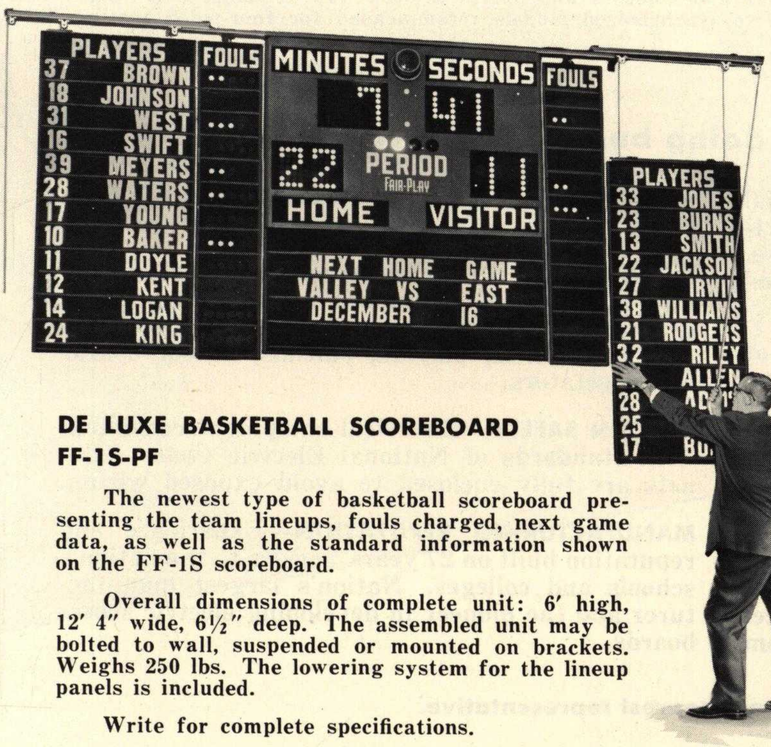
A Conduit cable outlet—2 x 4 outlet box. 1¼″ conduit.

B Floor outlet—Lew No. 6261 with 6203 cover. Use one for each scoreboard. (Wall box preferred.)

C Wall Box—6″ x 6″ x 2⅛″ minimum size.

D Polarized plugs. 115v, 50 or 60 cycle, 5 amps on each. (Provide Hubbell 5262 receptacle.)

E Multi-pin plug and receptacle combination furnished with scoreboard.


PLAYERS
37 BROWN
18 JOHNSON
31 WEST
16 SWIFT
39 MEYERS
28 WATERS
17 YOUNG
10 BAKER
11 DOYLE
12 KENT
14 LOGAN
24 KING
FOULS
MINUTES
SECONDS
7 41
22
PERIOD
FAIR-PLAY
11
HOME
VISITOR
NEXT HOME GAME
VALLEY VS EAST
DECEMBER 16
FOULS
PLAYERS
33 JONES
23 BURNS
13 SMITH
22 JACKSON
27 IRWIN
38 WILLIAMS
21 RODGERS
32 RILEY
ALLEN
28
25
17

DE LUXE BASKETBALL SCOREBOARD FF-1S-PF

The newest type of basketball scoreboard presenting the team lineups, fouls charged, next game data, as well as the standard information shown on the FF-1S scoreboard.

Overall dimensions of complete unit: 6′ high, 12′ 4″ wide, 6½″ deep. The assembled unit may be bolted to wall, suspended or mounted on brackets. Weighs 250 lbs. The lowering system for the lineup panels is included.

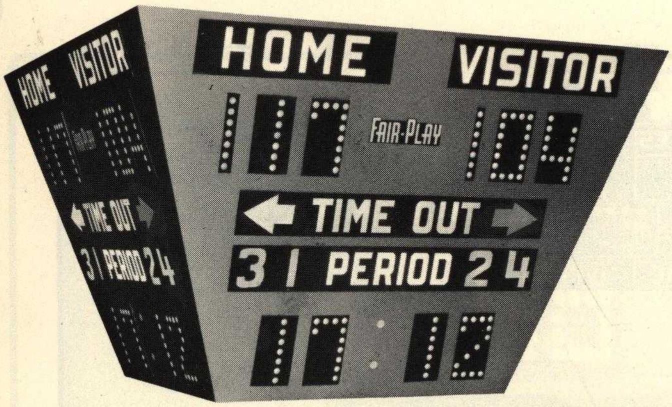
Write for complete specifications.

FOULS
PLAYER
FOULS
2
4
5

TEAM FOUL total is shown by big 9″ numerals placed below the Home and Visitor panels. Fast push button control to change numbers. PLAYER PERSONAL FOUL shown by 9″ numerals located between the team foul numerals with the word PLAYER above. When the foul is called the number of personal fouls on the player is posted by quick telephone dial control. CONTROL PANEL a single small control panel operates both team and player foul numerals. Simple quick operation.

The INDICATOR may be attached to either 9″ or 12″ FF-1S scoreboards. The FOUL INDICATOR may be installed as a separate unit. Brackets for mounting furnished. Order cable and connectors.

Fair-Play models for the large gymnasium, fieldhouse or arena



4-SIDED SCOREBOARD
FF-4S

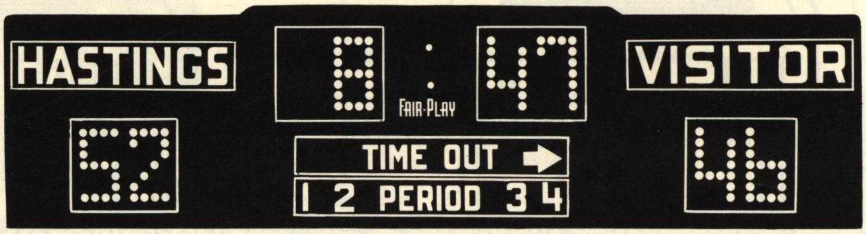
This popular model assures perfect visibility regardless of the seating arrangement. Available with 9″, 12″ or 18″ numerals; sides are slanted for easy reading by players as well as spectators.

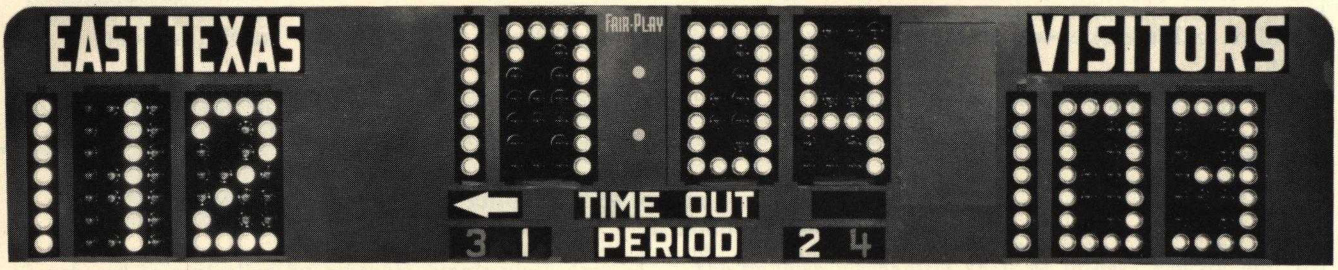
The 9″ numeral FF-4S is 5′ 10″ square at the top, 3′ 4″ square at the bottom and 3′ 9″ high. Eyebolts are attached for suspension. Weighs 400 pounds.

Complete specifications and installation drawings furnished upon request.

FH-55

Basketball scoreboard with 12″ numerals, time-out indicator. All-aluminum alloy cabinet, 11′ long, 3′ high, 7″ deep. Weighs 165 pounds. Suitable for balcony or wall installation.





FK-66 The newest and finest scoreboard made for large fieldhouses and sports arenas. It's 18′ long, 3′ 6″ high, 10″ deep; weighs 250 lbs. Numerals are 24″ high. Two synchronized models recommended for four-sided seating. Send for complete information.

Check these advantages of doing business with Fair-Play . . .

ENGINEERING ASSISTANCE—If you have special scoreboard needs, Fair-Play's Engineering Department will be glad to help. No obligation, of course. Installation drawings and complete specifications furnished on request.

SIMPLIFIED INSTALLATION—Whether single or multiple installation, Fair-Play provides accurate, dependable timing and scoring without intricate or complicated electrical set ups. Installations completed quickly save money all along the line.

UNCOMPLICATED SERVICING—A feature that makes Fair-Play the favorite with users. Anyone who can climb a ladder can maintain and service a Fair-Play scoreboard. Relay and Clock Pak units simply unplug from front of board for replacement. Exchange units immediately available from nearby branch representatives of air express from factory.

TICKAWAY CLOCK—Flashes exact number of minutes and seconds remaining to be played. Fast, accurate, dependable . . . and fascinating—important to coaches, players, officials, school boards and spectators.

BUILT-IN SAFETY—Electrical equipment consistent with standards of National Electric Code. Cabinets are fully enclosed to avoid exposed wiring.

MANUFACTURING REPUTATION—Experience and reputation built on 27 years' service to the nation's schools and colleges. Nation's largest manufacturer and the pioneer in developing electric scoreboards.

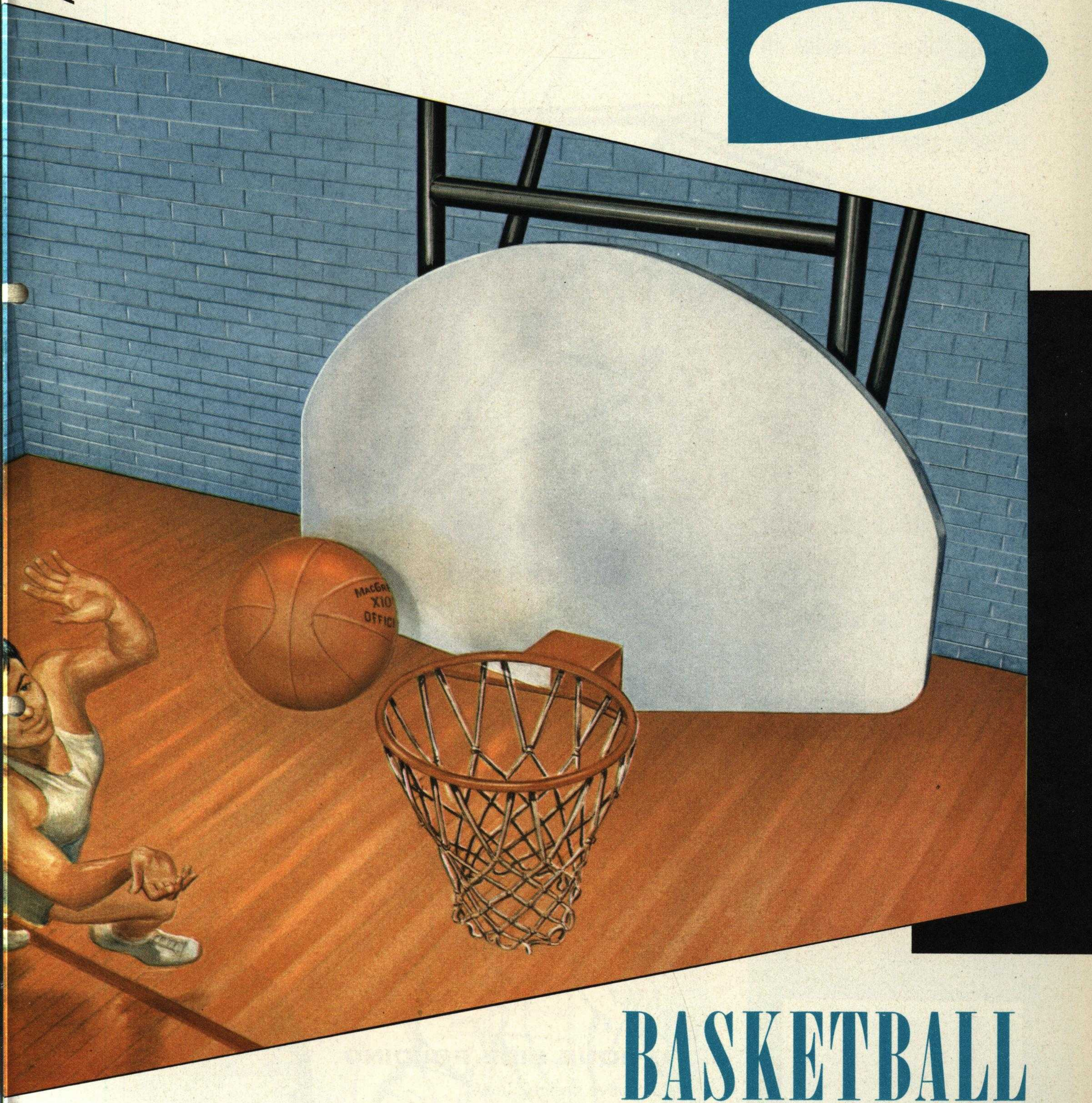
Write for name of your nearest representative.

FAIR-PLAY SCOREBOARD CO. • BOX 359 • DES MOINES 2, IOWA • Phone: AM 2-8261

23k
Ho

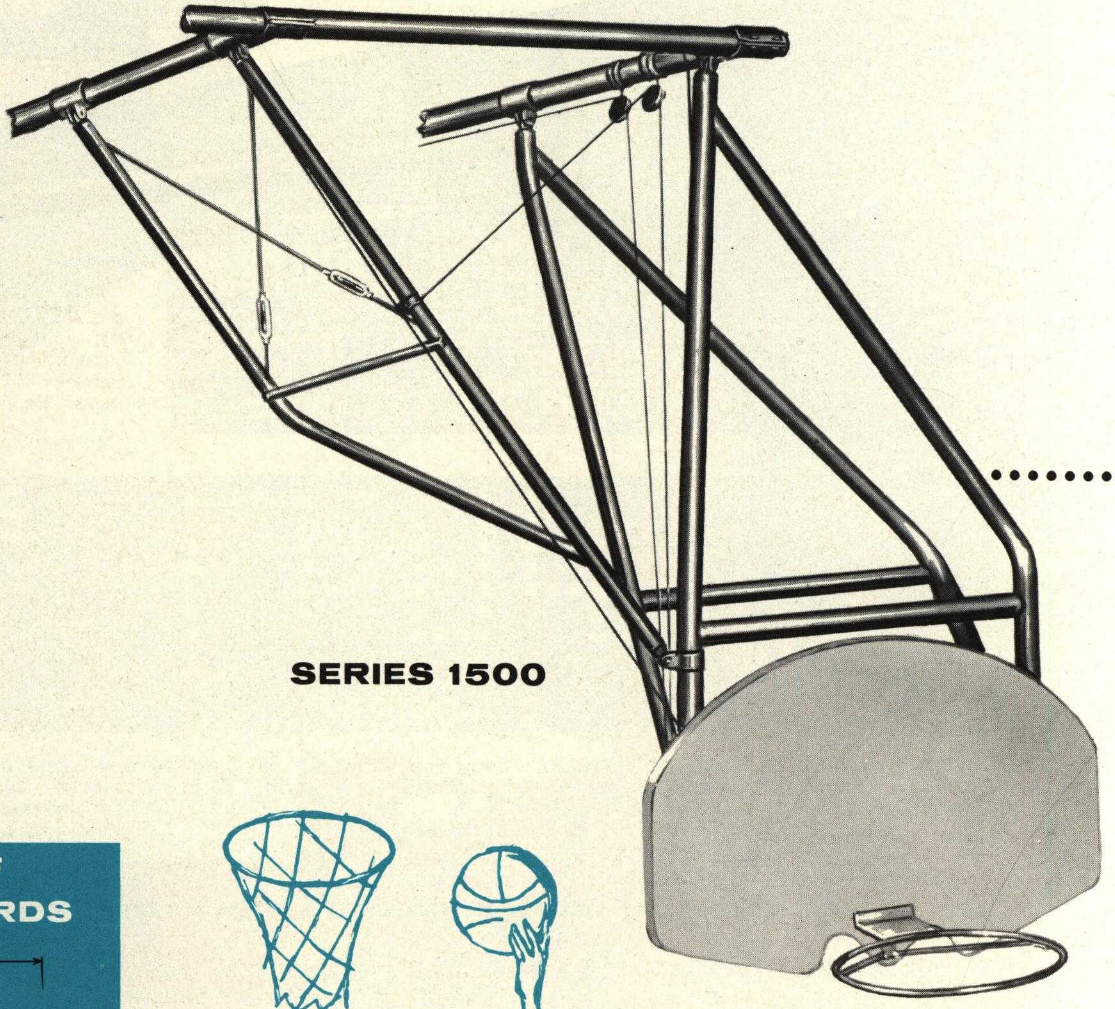
A.I.A. File No. 35-F-5

Brunswick


MacGr
X10
OFFICI

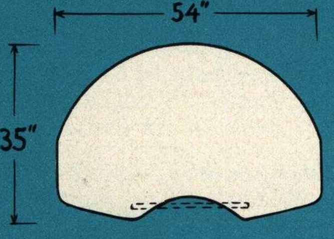
BASKETBALL BACKSTOPS

A UNIQUE CONCEPT IN FOLDING BACKSTOPS

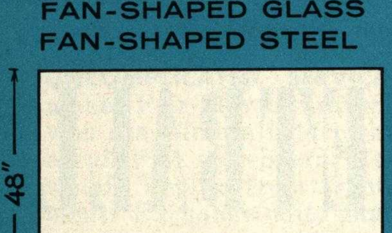


SERIES 1500

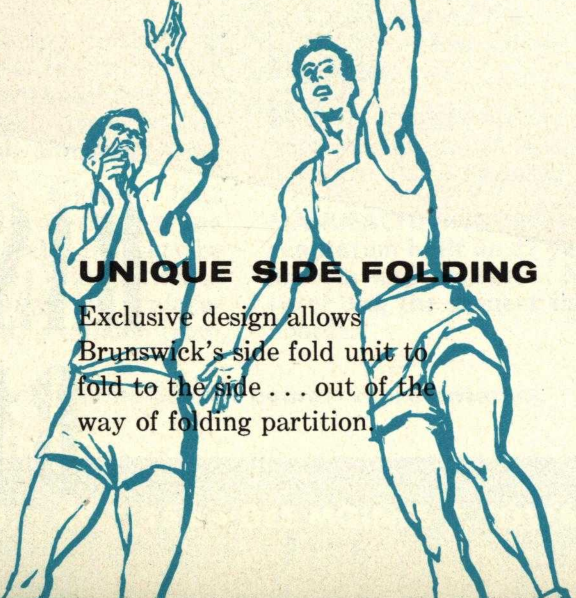
FOUR TYPES OF BANKBOARDS



FAN-SHAPED GLASS
FAN-SHAPED STEEL

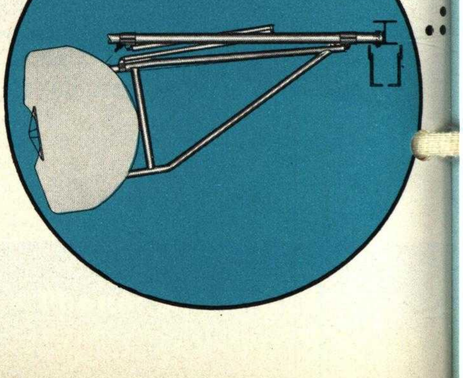


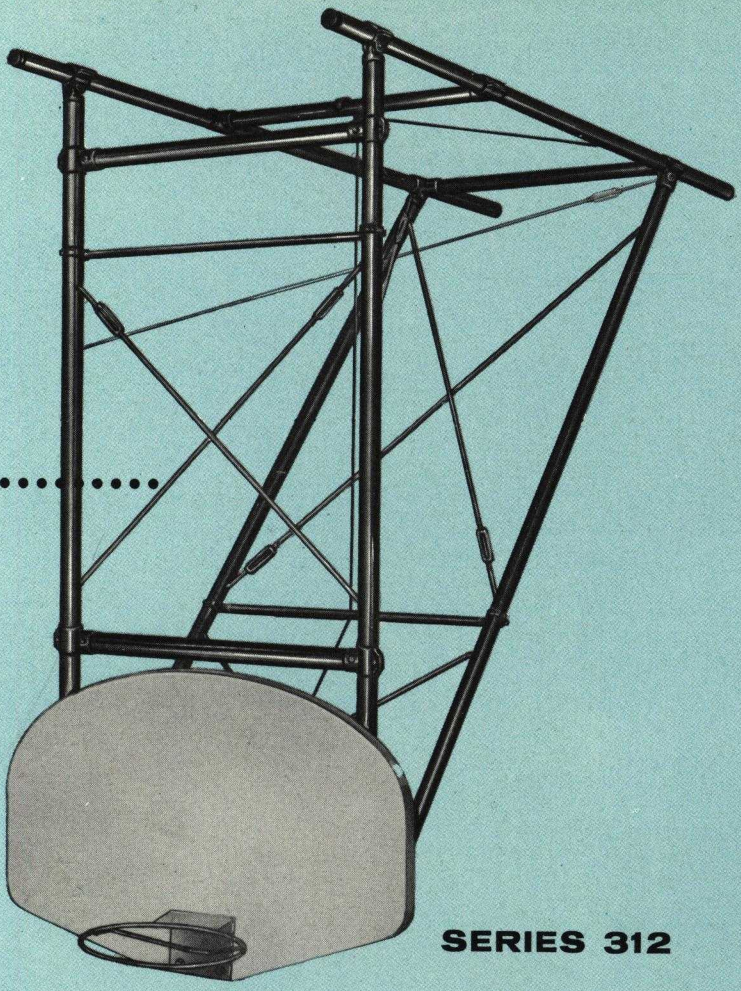
RECTANGULAR WOOD
RECTANGULAR GLASS



UNIQUE SIDE FOLDING

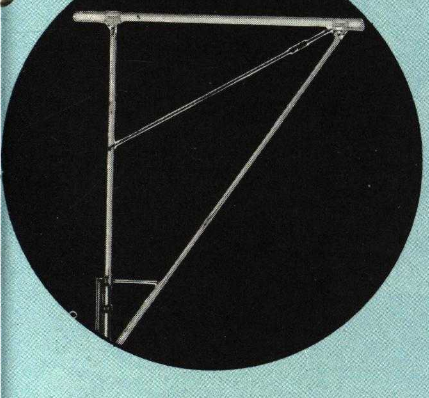
Exclusive design allows Brunswick's side fold unit to fold to the side . . . out of the way of folding partition.





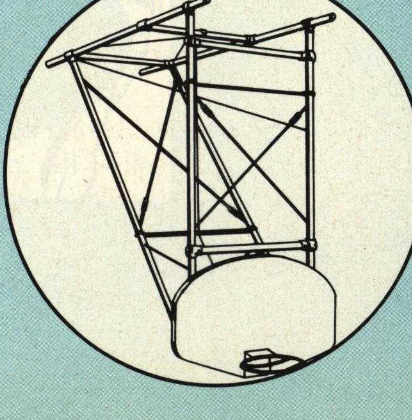
SERIES 312

- No cables in playing area
- No cable pull ropes required
- Minimum folding space
- Extra stabilizer cables
- Economical electric operation
- Self-locking safety winch
- All types of goals and nets
- Nine models to choose from
- Steel guy rods
- No unauthorized operation



MAXIMUM RIGIDITY

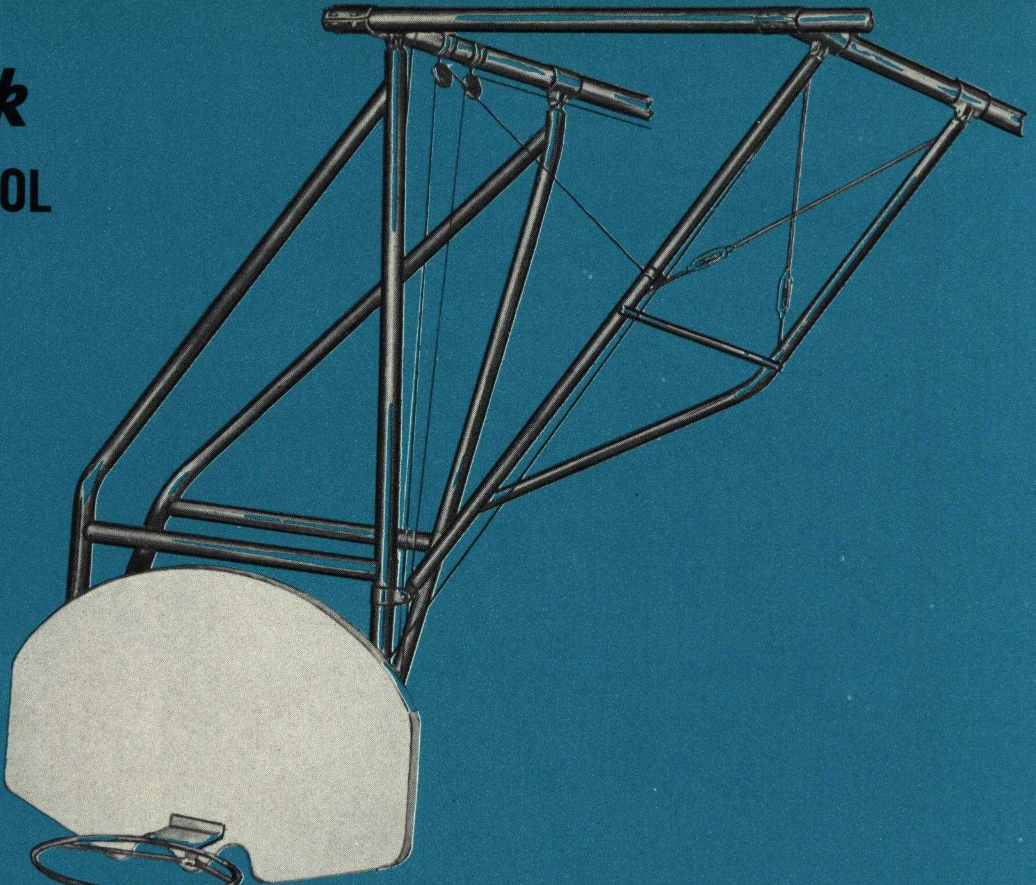
Maximum rigidity is assured by placement of stabilizer cable between front drop pipes and the upper frame . . . minimizes vibration when in playing position.

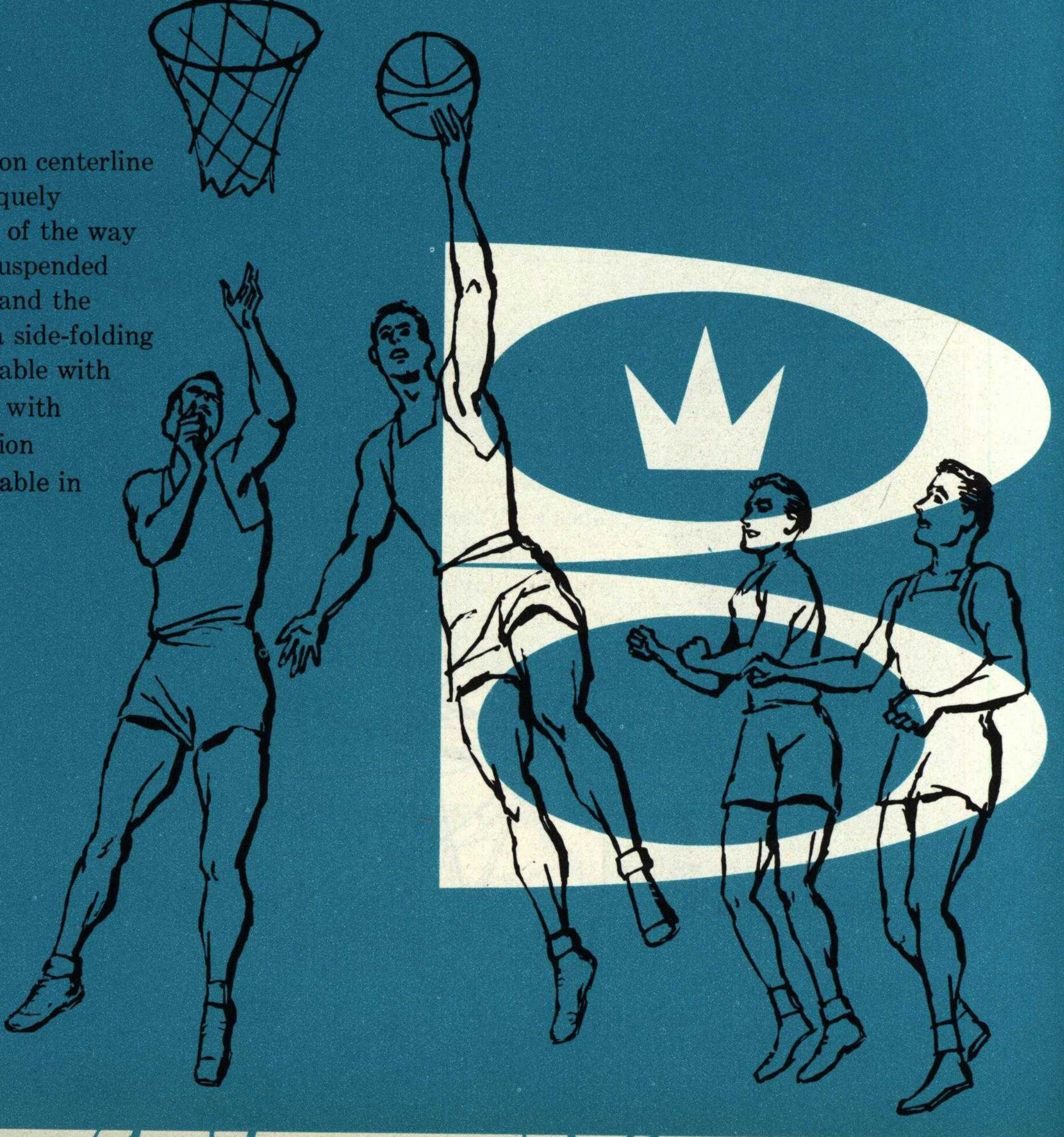


ONCEALED CABLES

ll cables are located inside the folding ructure thus eliminating unsightly ull ropes needed in the forward lding types.

Brunswick
REMOTE CONTROL
SIDE FOLD
BACKSTOP





SERIES 1500

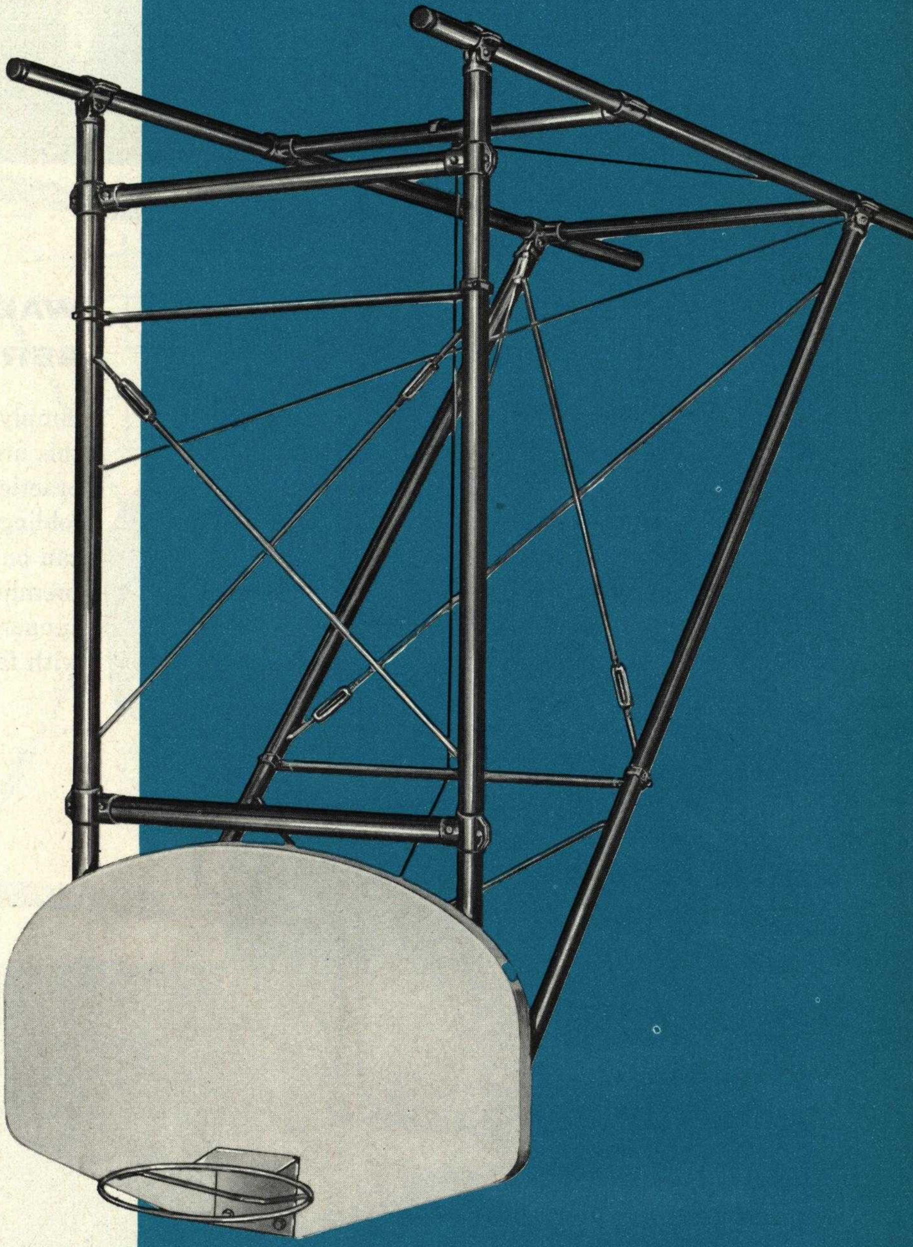
unit especially adapted to hang on centerline folding partitions. And this uniquely esigned unit folds to the side out of the way folding partitions. The unit is suspended n one side of the door centerline and the ankboard is held in position by a side-folding race. This rigid structure is available with l type of bankboards. Available with conomical portable power operation using ½″ drill motor). Also available in ost-saving manual operation.

Brunswick

REMOTE CONTROL ELECTRICALLY OPERATED BACKSTOP

SERIES 312

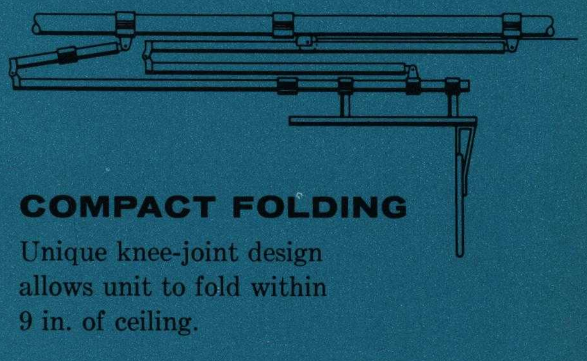
THE ONLY BACKSTOP THAT FOLDS WITHIN ITSELF



Brunswick

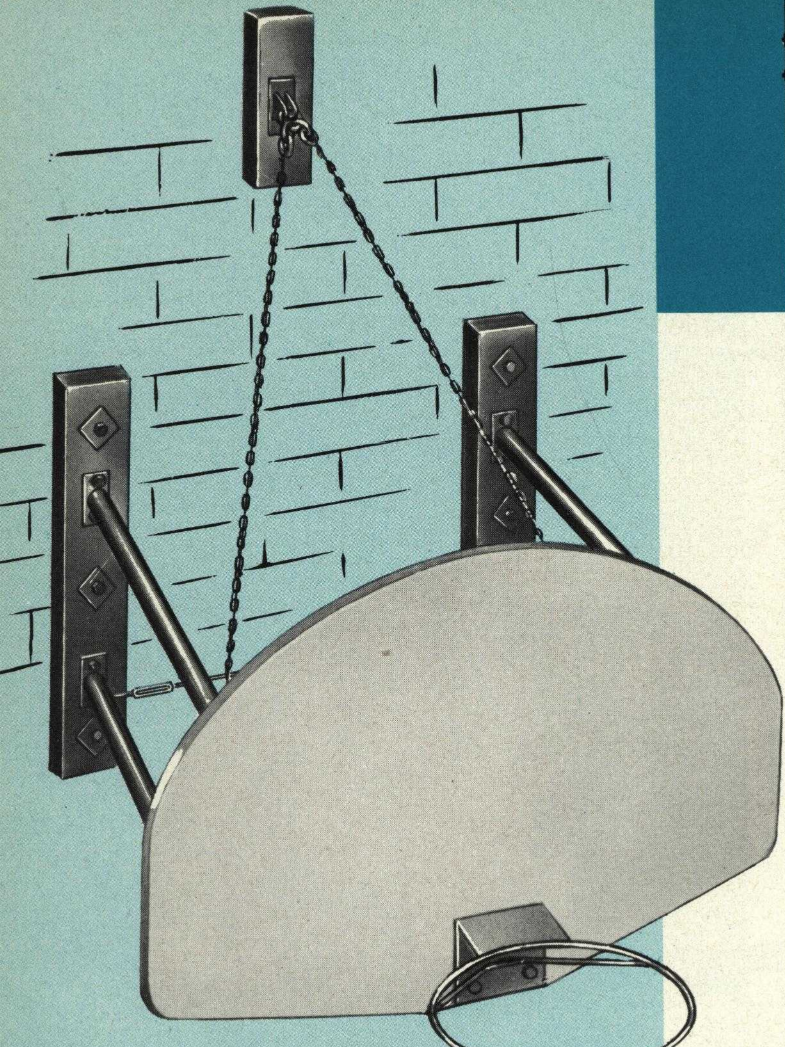
Here's a revolutionary method of folding basketball backstops that not only insures a maximum of rigidity, but permits units to be folded in a minimum of space. Ideal for use in front of stages, over balconies, or in any gymnasium where a compact method of folding is desired, and it's shipped preassembled for easy installation.

Folding is accomplished by placing knee-joints in the front drop pipes as well as the back braces. When winch is operated unit folds straight up instead of in a space-wasting back or forward motion. Stabilizer cables are placed between two predetermined points on front drop pipes and upper framework. Proper tension is maintained in the stabilizer cables in the playing position and is automatically released when the unit is folded, thus reducing unit vibration to a minimum. All cables are located inside the folding structure thus eliminating the unsightly pull ropes needed in the forward folding types. Available with economical portable power operation (using ½″ drill motor). Also available in cost-saving manual operation.

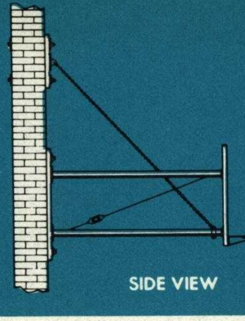


COMPACT FOLDING

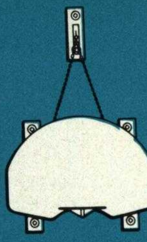
Unique knee-joint design allows unit to fold within 9 in. of ceiling.



SERIES 100



SIDE VIEW



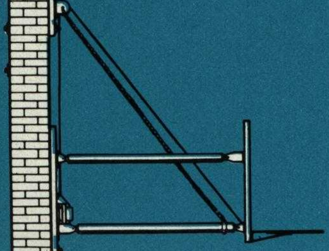
FRONT VIEW

WALL-BRACED BACKSTOP SERIES 100

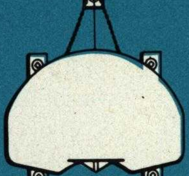
Simply designed for maximum performance, this unit is ideal for small gymnasiums or as practice units where walls are strong and folding is unnecessary. This strong, rigid unit can be mounted flush where space is at a premium, or can be mounted on 8 ft. extended supports. Either mounting can be furnished with fan-shaped bankboards of wood, steel or glass.

WALL FOLD-UP BACKSTOP SERIES 150

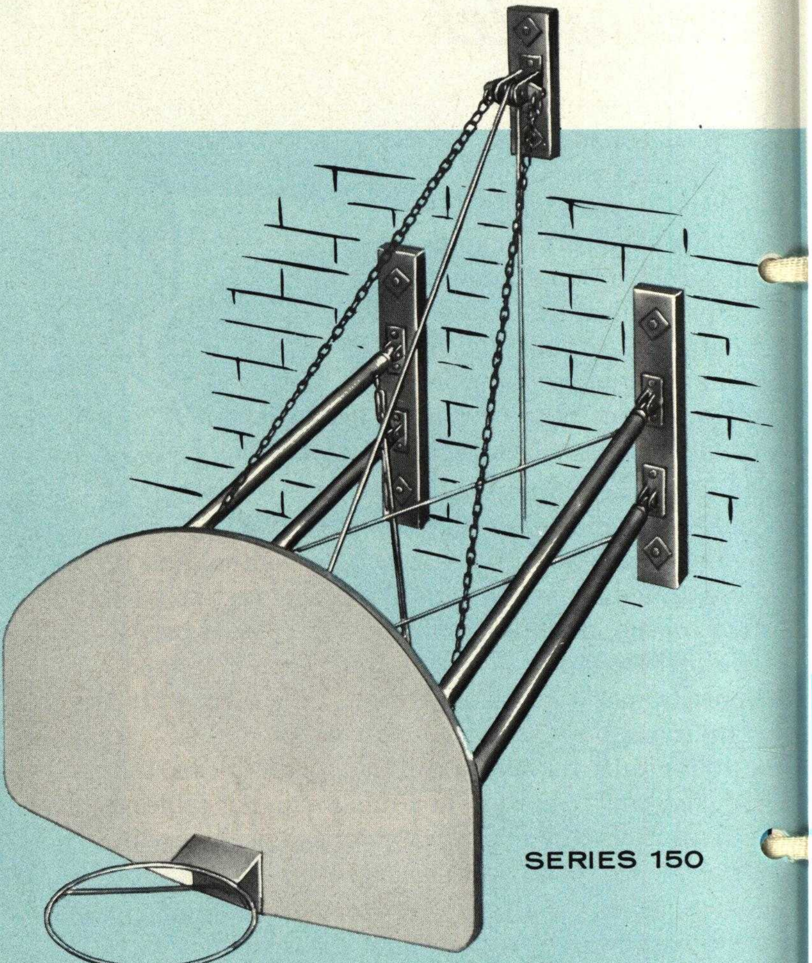
Ideal as a space-saving unit in small gymnasiums where folding is necessary. This strong, rigid backstop is also ideal as a practice unit. It can be mounted up to 8 ft. from the wall. Either mounting can be furnished with fan-shaped bankboards of wood, steel or glass.



SIDE VIEW

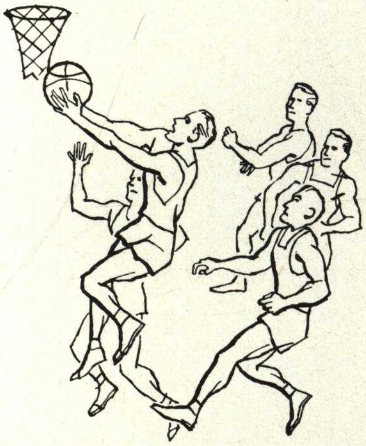


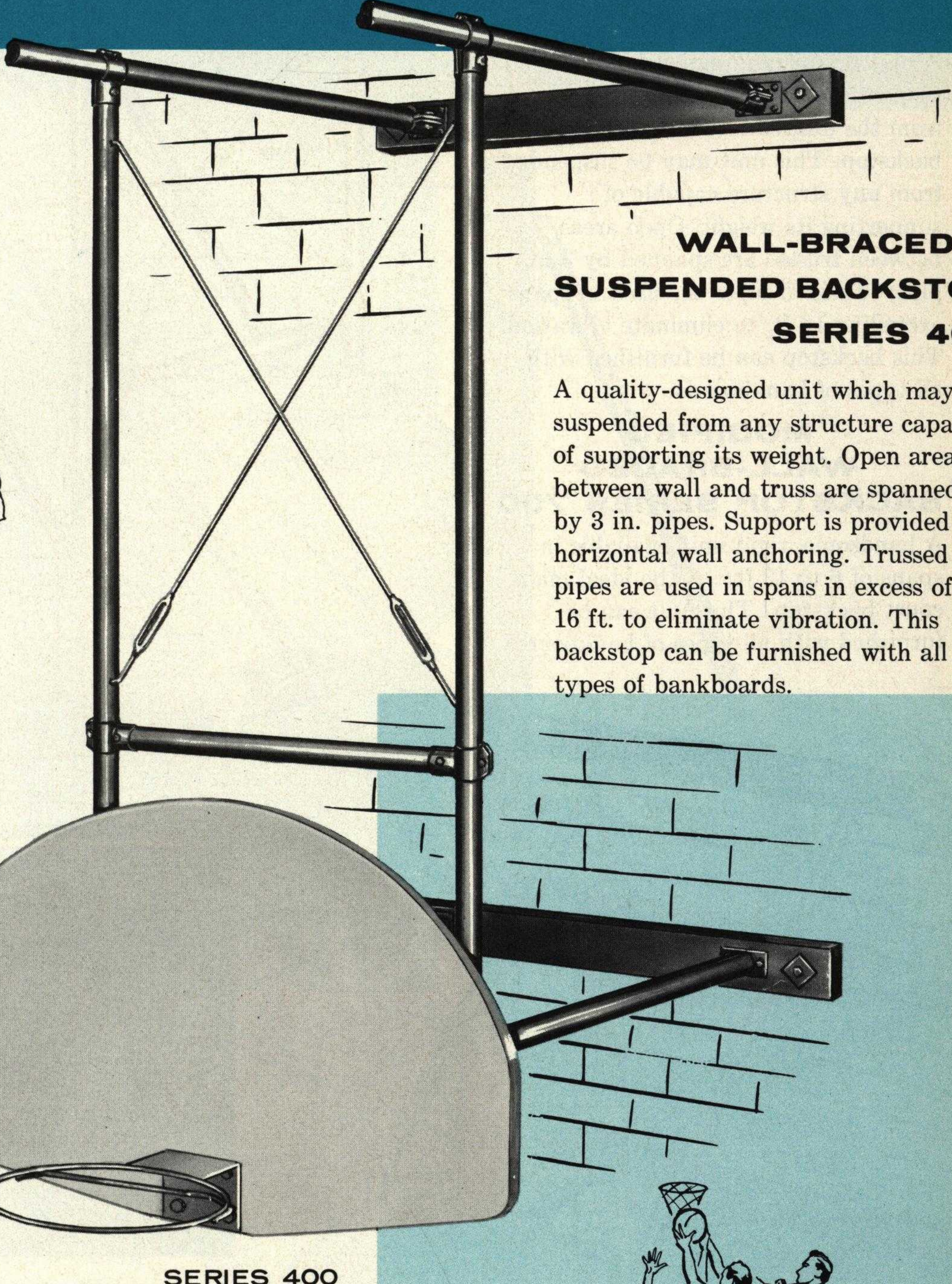
FRONT VIEW

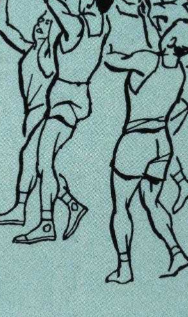


SERIES 150

Brunswick OFFERS A BACKSTOP TO MEET EVERY GYMNASIUM REQUIREMENT



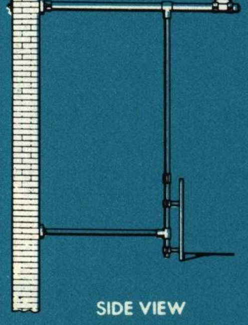




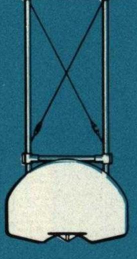
WALL-BRACED... SUSPENDED BACKSTOP SERIES 400

A quality-designed unit which may be suspended from any structure capable of supporting its weight. Open areas between wall and truss are spanned by 3 in. pipes. Support is provided by horizontal wall anchoring. Trussed pipes are used in spans in excess of 16 ft. to eliminate vibration. This backstop can be furnished with all types of bankboards.

SERIES 400



SIDE VIEW



FRONT VIEW

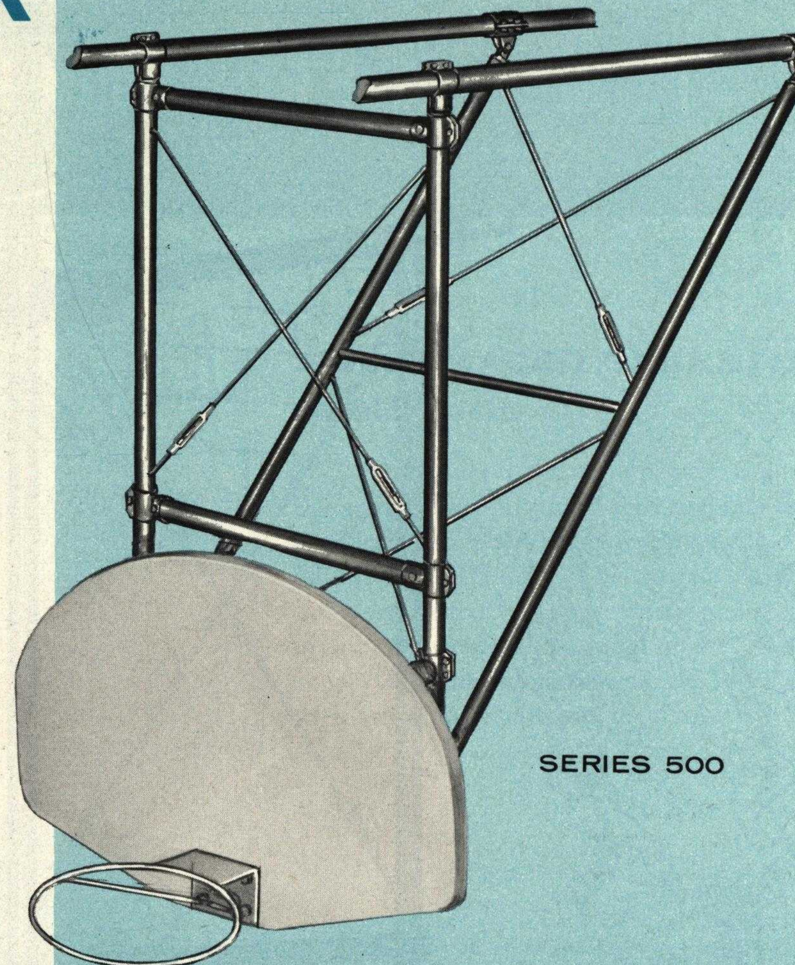
Brunswick

STRUCTURE SUSPENDED AND BRACED BACKSTOP SERIES 500

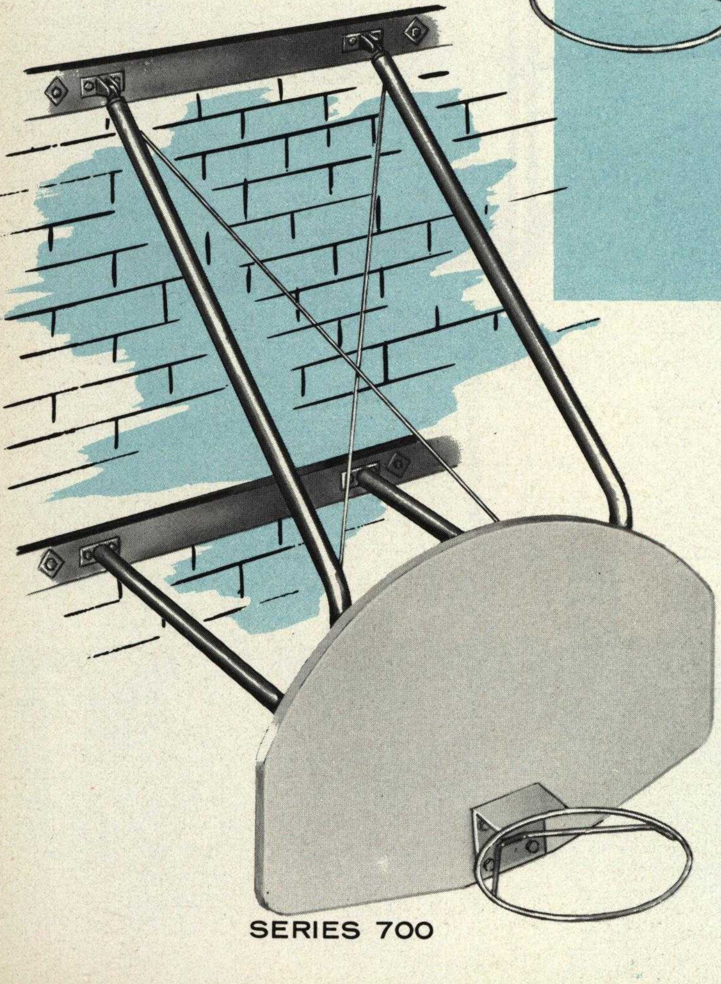
A unit uniquely designed for overhead suspension when the wall is too far from the desired location of the backstop. This unit may be suspended from any structure capable of supporting its weight. Open areas between trusses are spanned by 3 in. pipes. Trussed pipes are used in spans exceeding 16 ft. to eliminate vibration. This backstop can be furnished with all types of bankboards.

MODIFIED WALL-BRACED BACKSTOP SERIES 700

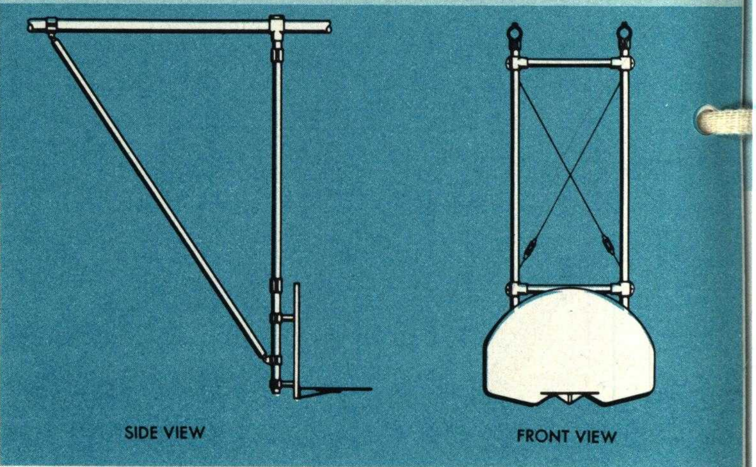
A handsome, rigid unit available in spans of 6 to 12 ft. . . . the ideal main court backstop! This unit can be furnished with all types of bankboards.

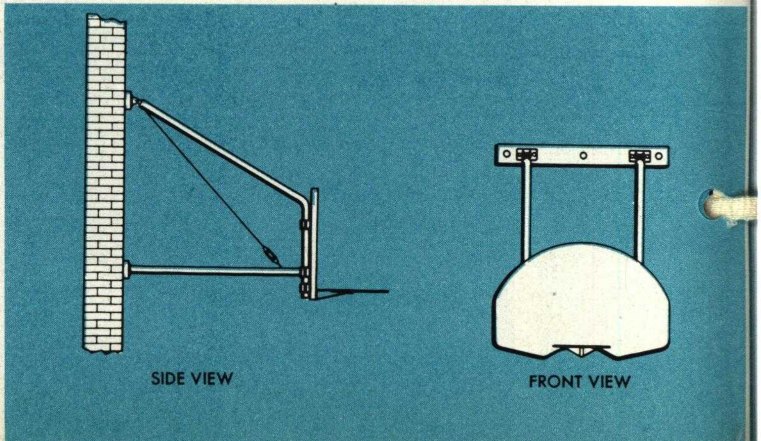


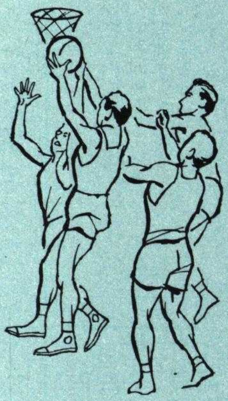
SERIES 500

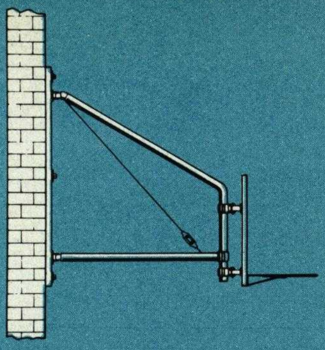


SERIES 700

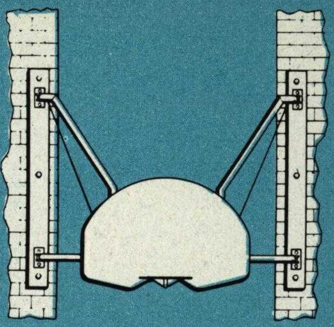




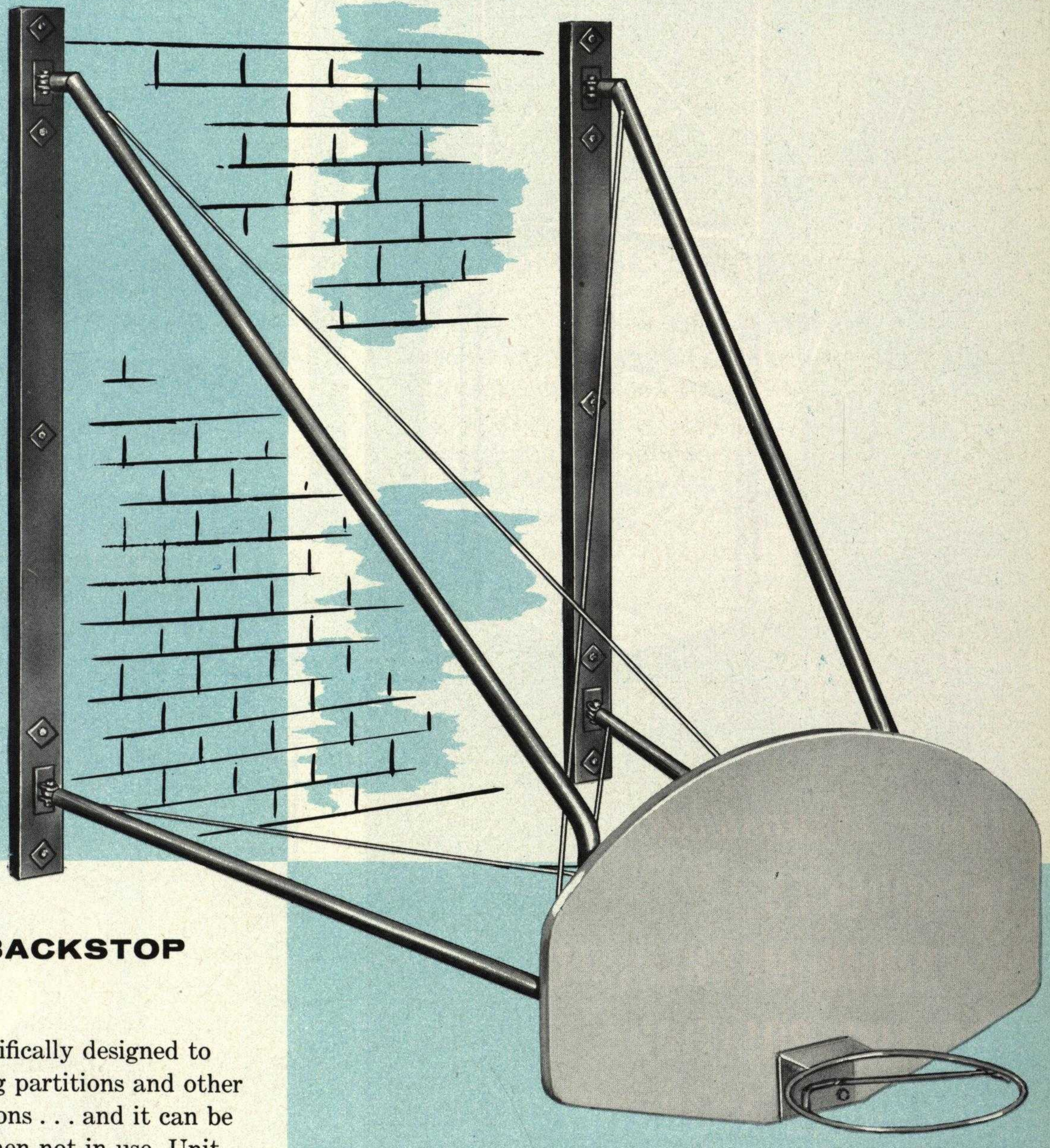




SIDE VIEW



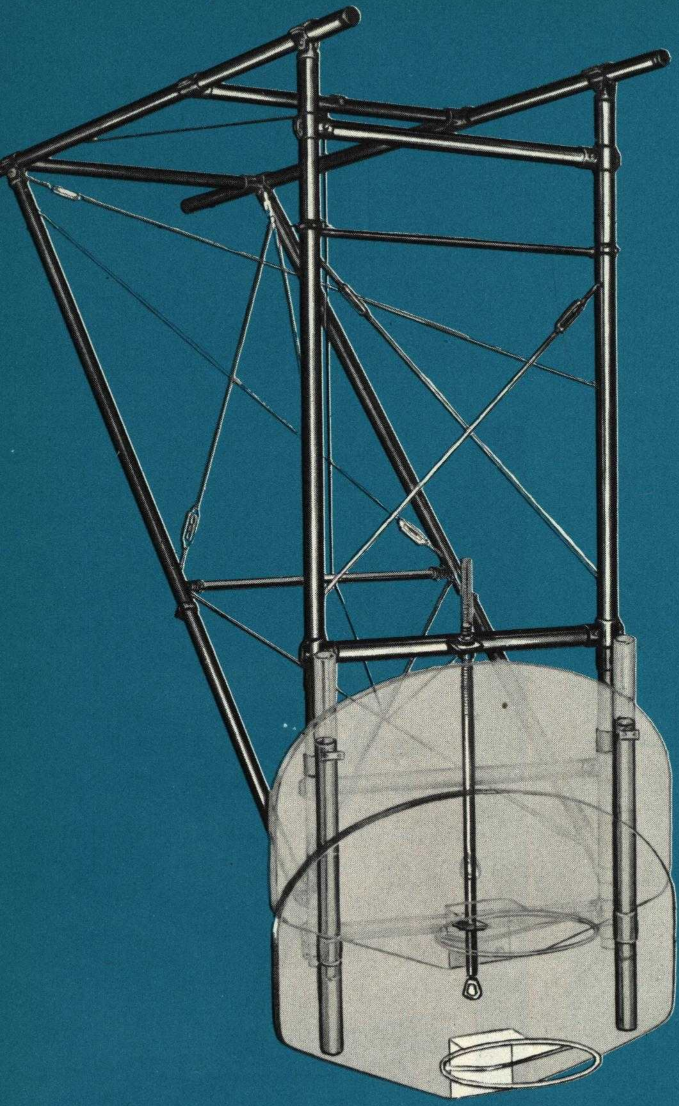
FRONT VIEW

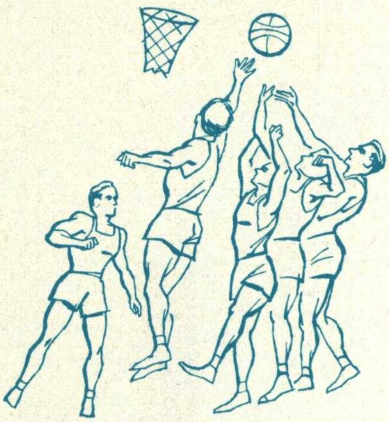


SERIES 750

GATE TYPE BACKSTOP SERIES 750

A wall type unit specifically designed to span windows, folding partitions and other gymnasium obstructions . . . and it can be easily swung aside when not in use. Unit works well when basket must be hung on centerline of folding partition. Side frames swing against the wall on each side of the obstruction with the bank facing out on one of the frames. It may be used as a practice unit in this position. Furnished with wood or steel bankboards. By adding an exterior folding brace, it is possible to adapt this unit to support glass bankboards.



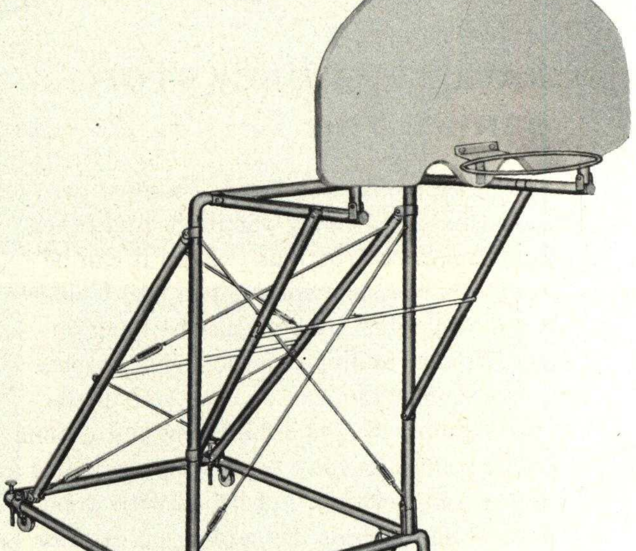


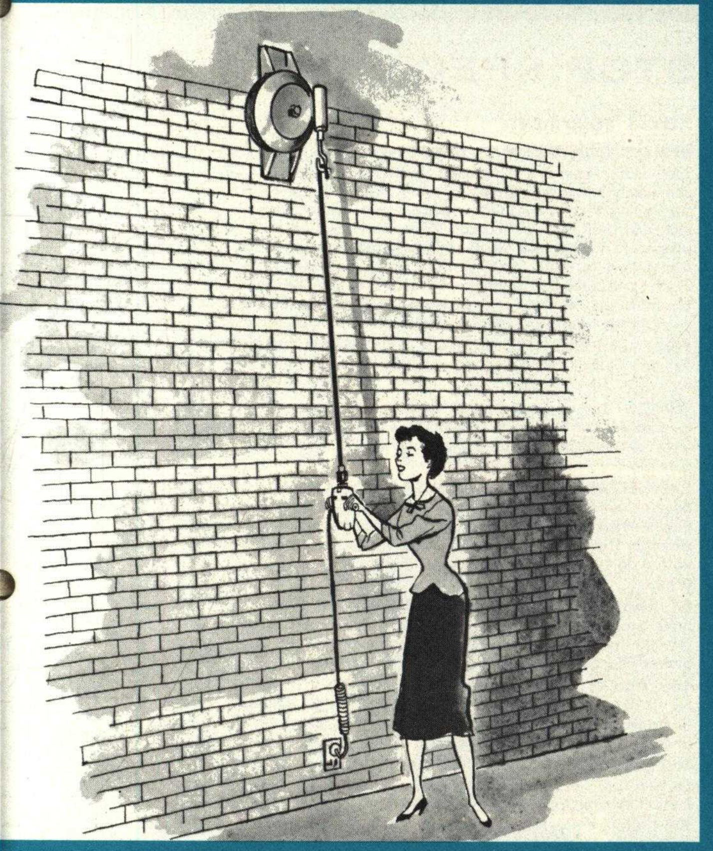
STAGE TYPE BACKSTOP
SERIES 1100

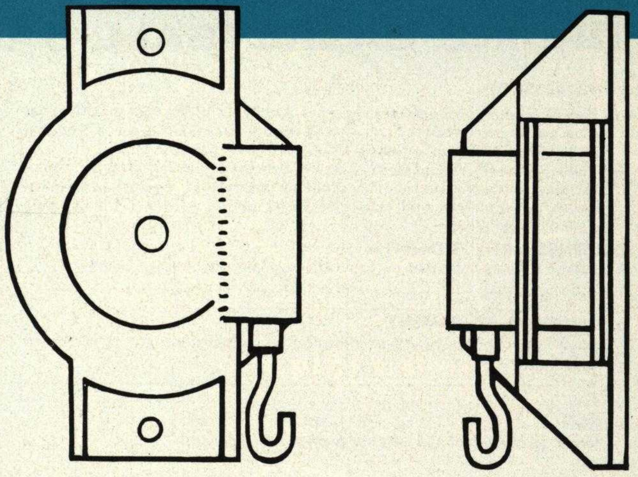
Designed for small gymnasiums or recreation halls where folding or wall-braced units are impractical. Units are anchored to the floor of the stage or gymnasium floor and are easily folded and rolled away for storage. Frames are welded for maximum strength; bolted fittings are used at all adjustment and dismantling points. It is available with fan-shaped bankboards of wood, steel or glass.

NOW – *Brunswick* INTRODUCES A UNIQUE MECHANISM FOR TWO-POSITION BANKBOARD ADJUSTMENT

An exclusive Brunswick telescoping drop pipe design provides for easy manual adjustment to either the "Little League" 8 ft. standard height or to the 10 ft. N.B.A. standard height. This unique mechanism, available on the 312, 400 and 500 series units, allows the use of all types of bankboards.

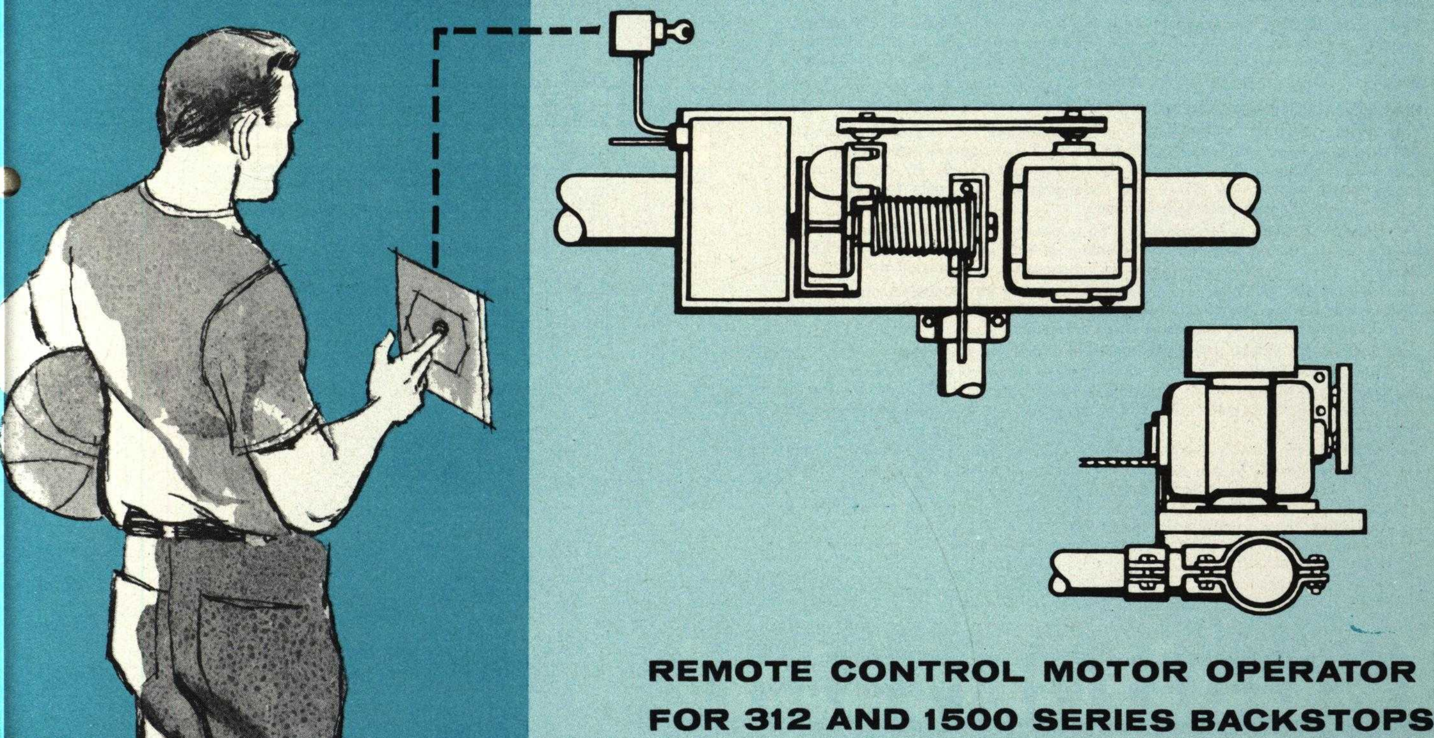






ECONOMICAL SAFETY WINCH

Designed for safety as well as appearance. Fully enclosed and self-locking in any position. Operates with removable extension handle to rule out unauthorized operation. Designed for portable power operation using ½″ drill motor. Series 304 is designed for higher lifting, series 305 is for use on standard height units.



REMOTE CONTROL MOTOR OPERATOR FOR 312 AND 1500 SERIES BACKSTOPS

The Brunswick 312 Backstop is now available with a variety of remote control motor types designed to operate 3 specific types of bankboard styles. Each motor operator is complete with speed reducer and three-position key control switch for fast, dependable service.

Brunswick SERVES YOU ACROSS THE NATION

FOLDING BASKETBALL BACKSTOP SPECIFICATIONS

1. GENERAL SCOPE:

A. Folding Basketball Backstops shown in Architect's plans and specifications shall be as manufactured by The Brunswick-Balke-Collender Company, Kalamazoo, Michigan, or equal as approved by the Architect.

B. Folding Basketball Backstops shall be delivered and installed by manufacturer. The entire installation shall be guaranteed against faulty materials, workmanship and operation for a period of one (1) year from date of installation.

2. EQUIPMENT REQUIREMENTS:

A. Furnish units as indicated on drawings and/or as scheduled below:

1.______________________________

2.______________________________

B. OPTIONAL EQUIPMENT:

Furnish optional equipment as indicated on drawings and/or as scheduled below:

1.______________________________

2.______________________________

3. DESIGN:

(Refer to individual numbers for proper specifications)

4. FINISH:

A. Backstop pipes, fittings and bolts shall be finished in black enamel at Factory.

B. Bankboard finish to be baked-on white enamel. Wood bankboard finish to be flat white enamel.

C. Goals shall be finished in orange enamel.

TOP SUSPENDED BACKSTOPS:

OVERHEAD SUPPORTS: Backstops shall be supported by 3" pipe attached to structural members. For spans greater than 16'-0" pipe shall be reinforced by rigid trussing and cross pipes. When support members are higher than 22'-0" above floor drop frames of 2" pipe shall be used to suspend 3" pipes at 22'-0" level. Diagonal bracing of ⅜" rods with turnbuckles shall be included.

312 DOUBLE FOLDING BACKSTOP: 2" drop pipes shall have knee joints to allow unit to fold within length of mounting. Knee joints to be locked by stabilizer cables which shall automatically release when unit is folded. Spreader pipes and "X" bracing of ⅜" rods with turnbuckles to hold front frames rigid. Oblique braces of 1½" pipe to include knee joint for folding. Spreader pipes and guys of ⅜" rods with turnbuckles included for rigidity. In folded position bankboard shall face down with frame folded to level of overhead supports.

400 SUSPENDED AND BRACED: 2" drop pipes suspended from overhead support shall be braced to wall at bottom by 1½" pipe. Frame shall be reinforced with pipe spacers and guys of ⅜" rods with turnbuckles.

500 MODIFIED SUSPENDED AND CEILING BRACED: 2" drop pipes suspended from overhead supports to have oblique braces of 1½" pipes. Spreader pipes and guys of ⅜" rods with turnbuckles included for rigidity.

1500 SIDE FOLD: 2" drop pipes suspended from overhead support with oblique bracing of 1½" pipes. Knee joint in oblique bracing shall allow unit to fold sideways and up to clear center line of folding partition. Guys of ⅜" rods with turnbuckles included in open panels for rigidity.

WALL BRACED BACKSTOPS:

100 WALL BRACED: Bankboards shall be suspended into position by four (4) 1½" pipes securely attached to wall. Frame shall be equipped with guys of ⅜" rods with turnbuckles. Bankboard to be supported vertically by oblique chain brace attached to lower pipes and extending at 45° angle to wall plates centered between and above pipe frame.

150 WALL FOLDUP: Bankboards shall be suspended in position by four (4) 1½" pipes securely attached to wall. Hinge fittings at ends of pipes shall permit backstop to fold up against wall when winch is operated. Frame shall be equipped with guys of ⅜" rods and turnbuckles. Bankboard to be supported vertically by oblique chain brace attached to lower pipes and extending at 45° angle to wall plates centered between and above pipe frame.

700 MODIFIED WALL BRACED: Bankboard shall be suspended vertically on 2" pipes shaped to run obliquely from top of bankboard to wall. Lower horizontal braces of 1½" pipe attached to bottom of 2" pipe for rigidity. Horizontal guys of ⅜" rods with turnbuckles and oblique guys of ½" rods with turnbuckles to be included.

750 GATE TYPE OR WINDOW SPAN: Bankboard shall be suspended vertically on 2" pipes shaped to run obliquely from top of bankboard to wall. Lower horizontal brace of 1½" pipe attached to bottom of 2" pipe for rigidity. Bankboard shall be hinged to pipe frame with unlatching fittings to permit folding against frame, then against wall. Removable horizontal guys to hold unit rigidly in playing position. Non-removable oblique guys shall be of ½" rods with turnbuckles.

OPTIONAL EQUIPMENT:

1. REMOTE CONTROL MOTOR OPERATOR: Backstop unit shall be equipped with motor operator controlled by three (3) position key control switch conveniently located. Operator shall include magnetic reversing starter with 24 volt control circuit and prewired limit controls integrally mounted within unit. Unit shall include 110 volt, 60 cycle instant reversing capacitor motor of proper H.P. with built in over load protection and automatic reset. Power transmitted to cable drum through worm type reduction gear. Cable drum shall be grooved to insure positive lay of ¼" lift cable during operation. Operator unit shall be self-locking at any position. Power outlet, conduit, and wiring from operator to key control switch by others.

2. PORTABLE ELECTRIC MOTOR FOR STANDARD WINCH: Standard ½" electric drill with reversing switch shall be provided with 4'-9" removable extension drive.

3. WINCH: Backstop winch shall be enclosed type with worm gear designed to provide self-locking in any position. Winch shall be placed 10'-0" above floor and operated with removable hand crank (awning type) with 6'-0" extension.

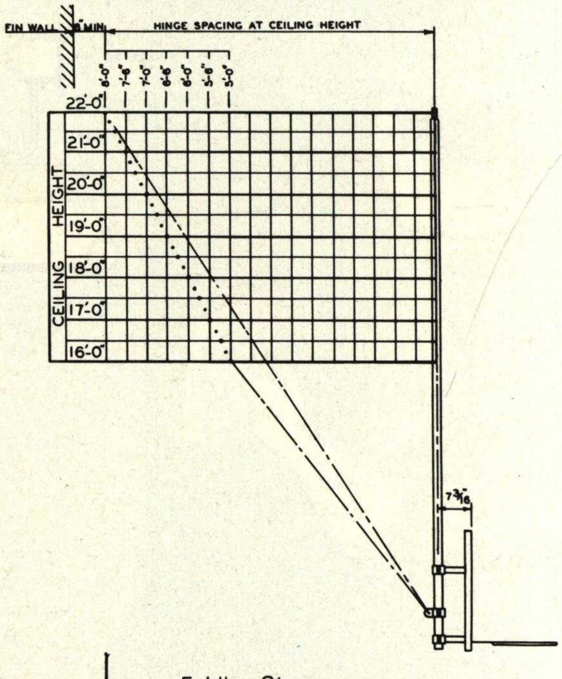
4. BANKBOARDS: 50 STEEL FAN-SHAPED BANKBOARDS: Series 50 bankboard shall be 35" high and 54" wide fabricated from one (1) piece of 12-gauge steel with 1½" flanged sides. Reinforced frame welded to back to maintain flat and rigid face. Bolting connections located at four points with slotted holes for adjustment. Holes for attaching goal must be free of playing area.

5. 55 FAN-SHAPED GLASS BANKBOARDS: Series 55 bankboard shall have over-all dimension of 39" high and 54" wide. Glass shall be ⅜" Herculite set into steel frame lined with Neoprene. Holes for mounting goal shall be bushed. Border and center target to be white enamel on back side of glass.

6. 150 WOOD RECTANGLE BANKBOARDS: 150 Series bankboard shall be of one (1) piece 48" x 72" x ¾" 5-ply fir plywood with a 1" by 5" fir frame glued and screwed to back side. Two intermediate braces of 1" x 4" fir to be placed vertically in center of boards on 5" centers for bolting goals.

7. 160 GLASS RECTANGLE BANKBOARDS: Series 160 bankboard shall be Herculite set into pressed steel frame lined with Neoprene. Goal mounting plates shall be placed front to rear with Neoprene sheeting between Herculite and plates. Holes for mounting the goals shall be bushed. Border and center rectangular target to be of white enamel on back surface.

8. GOALS: Series 10 goal used with 45 and 55 series bankboards. Series 20 goal used with 150 and 160 series bankboards. Goal shall be of ⅝" round steel, rolled to 18" inside diameter and braced and welded to steel frame so that inside of goal is 6" from face of bankboard. "No tie" hooks shall be welded to underside of goal to accommodate heavy duty net.



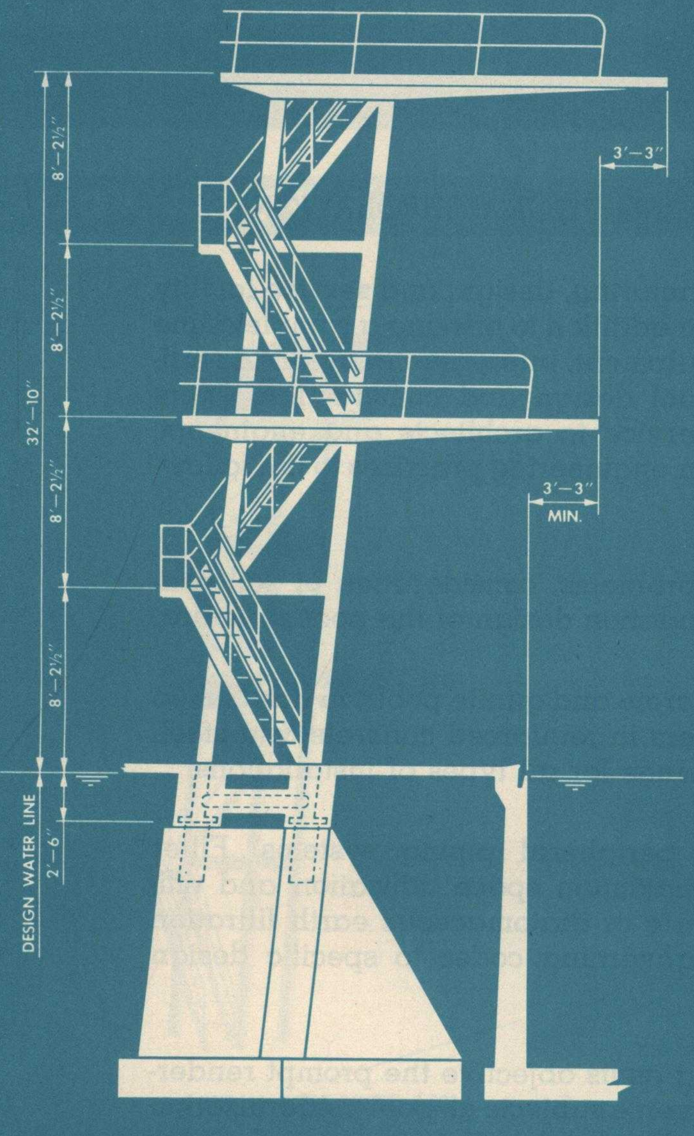
Folding Partitions
Sweet's File No. 22d / Hor

Folding Gymnasium Seating
Sweet's File No. 23j / Ho

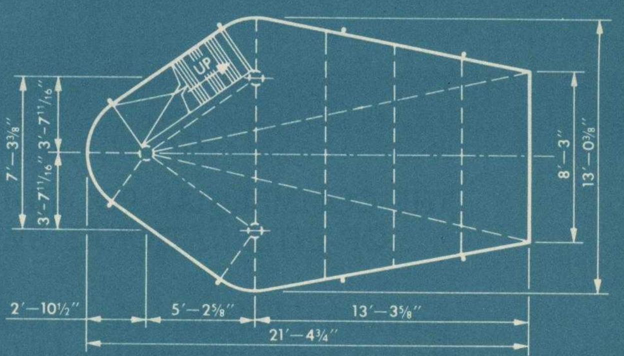
Folding Stages
Sweet's File No. 23g / Ho

Brunswick
SCHOOL EQUIPMENT DIVISION
BRUNSWICK-BALKE-COLLENDER CO.
KALAMAZOO, MICHIGAN

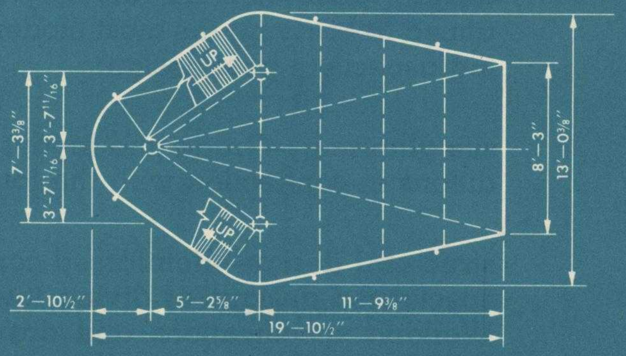
IMPORTANT: When current manufacturing processes involve improvements in products illustrated in this catalog, or when conditions over which we have no control force us to depart from standard manufacturing processes, we reserve the right to supply the article that is our standard at time shipment is made.


8'—2½"
8'—2½"
8'—2½"
8'—2½"
32'—10"
3'—3"
3'—3"
MIN.
DESIGN WATER LINE
2'—6"

TOWER ELEVATION


UP
7'—3⅜"
3'—7¹¹⁄₁₆"
3'—7¹¹⁄₁₆"
8'—3"
13'—0⅜"
2'—10½"
5'—2⅝"
13'—3⅝"
21'—4¾"

10 METRE PLATFORM


UP
UP
7'—3⅜"
3'—7¹¹⁄₁₆"
3'—7¹¹⁄₁₆"
8'—3"
13'—0⅜"
2'—10½"
5'—2⅝"
11'—9⅜"
19'—10½"

5 METRE PLATFORM

international
SWIMMING POOL CORPORATION
COMMERCIAL POOL DIVISION

THE COMMERCIAL POOL DIVISION
OF INTERNATIONAL SWIMMING POOL CORPORATION . . . .

provides a fully integrated manufacturing, design, and service facility for the swimming pool industry. In addition to offering a complete line of high quality swimming pool equipment, International's staff of engineers, specialists in the field of pool design and construction, offers without obligation an advisory service to architects and engineers, aimed at bringing the most modern engineering practices to the following aspects of pool design:

site planning—Grade and layout problems, consideration of soil conditions in connection with the foundation design of the pool structure.

structural design—Reinforced concrete and gunite pools, in addition to specialized designs of diving towers in reinforced concrete and steel. Working specifications and drawings for all types of installations.

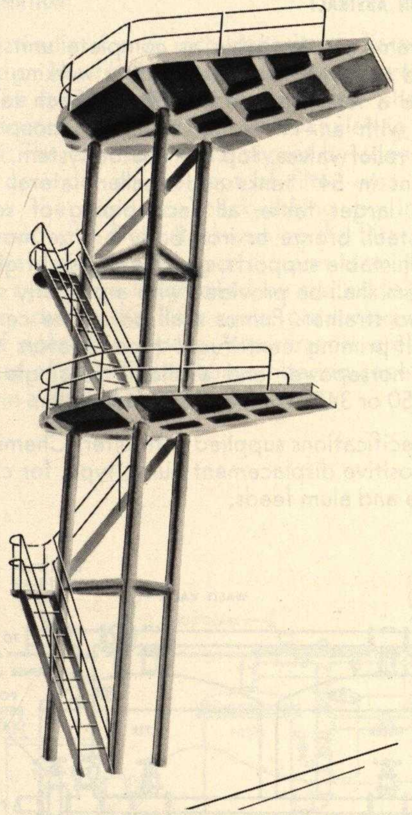
hydraulic design—The design of peripheral piping systems. Filter house planning and layout for maximum space utilization and efficiency, in either rapid sand pressure or diatomaceous earth filtration systems. The application of the governing codes to specific design problems.

general service—A service having as its objective the prompt rendering of technical advice on such diverse subjects as pool modernization and repair, equipment specification, pool maintenance and water treatment problems.

International Swimming Pool Corporation seeks to increase the scope and variety of swimming pool technology by a program of research for the improvement of equipment and construction methods, through an organization equipped to satisfy the most exacting technical needs of the architect and engineer.

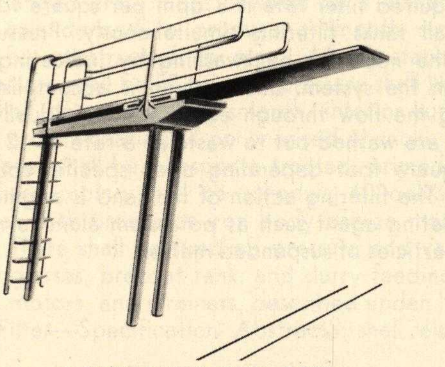
DECK EQUIPMENT

"500" GROUP



5 AND 10 METRE TOWER, F-501

Prefabricated of structural steel with lightweight concrete platforms, select vertical grain prefinished redwood steps and intermediate platforms. Available as a complete structural steel unit, with precut redwood. Shop drawings for concrete platform and foundation work included. Deck space requirements, 6' x 7'.

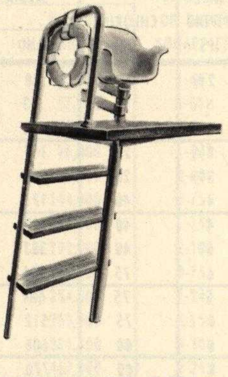


3 METRE DIVING STAND, F-502

Prefabricated of structural steel and aluminum, select vertical grain prefinished redwood steps and two sets of stainless steel handrails. The safety handrail for public use is quickly disengaged and replaced with a lower handrail which will, for competitive diving, not interfere with the diver's arm movements. Available with foot adjustable fulcrum or lock-nut fulcrum, and a choice of colors and finishes. Supplied with wood or aluminum diving boards (see page 7).

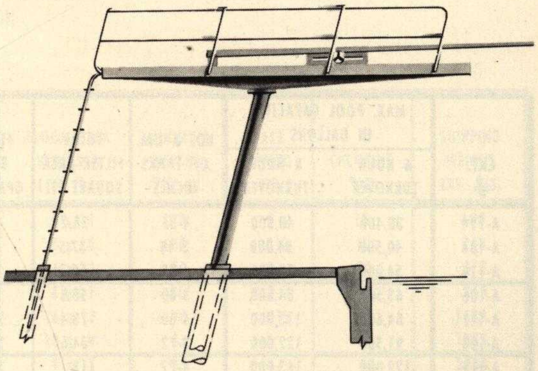
1 METRE DIVING STAND, F-503

Identical to the 3 Metre Diving Stand, F-502. Differs only in height above water. Deck space requirements, 2' x 7'.



LIFE GUARD CHAIR, F-504

Prefabricated of structural steel, aluminum, and redwood, complete with umbrella rack, life ring, stainless steel handrail, and contoured fiberglas seat. Available in choice of colors and finishes.



1-5 METRE HYDRAULIC PLATFORM, F-533

Hydraulic diving tower adjustable for 1 to 3 metre springboard diving, and 3 to 5 metre platform diving. The springboard is offset to side of the 8' x 16' platform and pivots back for unobstructed platform space. The adjustable front fulcrum is readily removed. The hydraulic platform is a requisite for the instruction of board and tower diving. The diving pupil may be gradually acclimated to the use of the 5 metre platform and the 3 metre board. Lightweight concrete and steel platform, available with handrails to individual specification.

FILTERS

SWIMMING POOL FILTRATION

The efforts of the American Public Health Association, dating back to 1918, in promulgating high standards of pool water sanitation have resulted in recommended specifications for filter systems of the highest efficiency. The importance of pool water clarity demands standards of filtration in excess of those for drinking water. Today, almost all state and public

RAPID SAND PRESSURE FILTERS

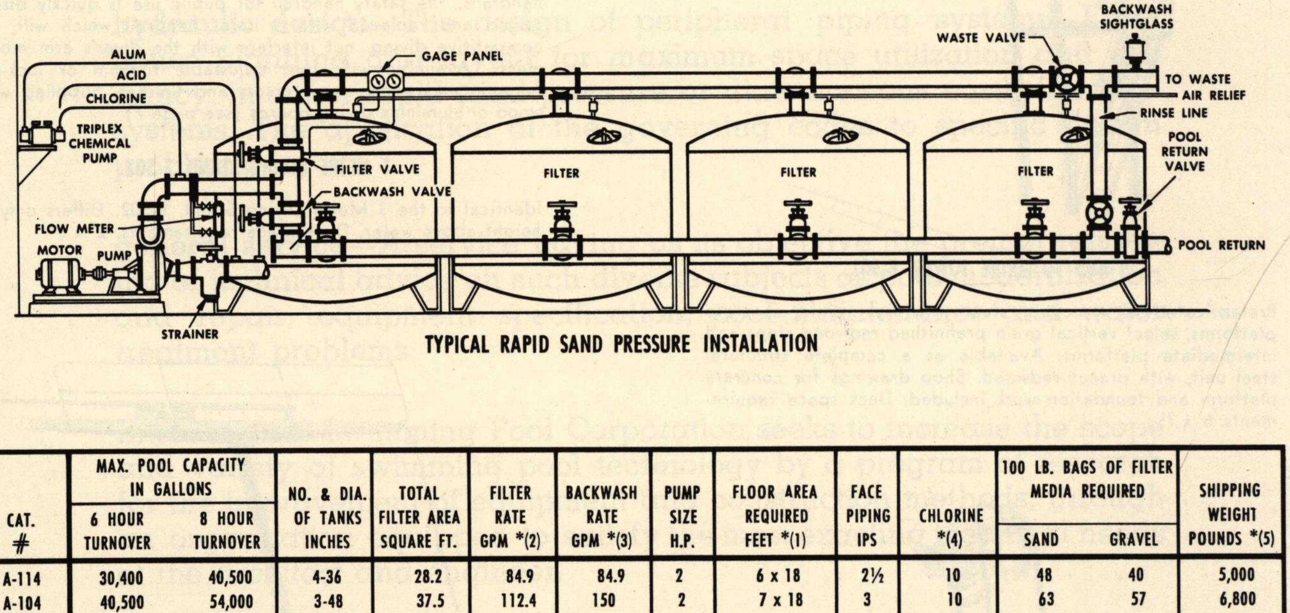
GENERAL INFORMATION

The filter media consists of a layer of fine sand usually 20 to 24 inches deep, supported on layers of graded gravel. The required filter rate is 3 gpm per square foot of filter area, all tanks filtering simultaneously. Pressure gauges show the need for backwashing by indicating head loss through the system. Backwashing is accomplished by reversing the flow through each tank individually; dirt and debris are washed out to waste at a rate of 12 or 15 gpm per square foot depending upon specific code requirements. The filtering action of the sand is augmented by a coagulating agent such as potassium alum to remove the finer particles of suspended matter.

SPECIFICATION ABSTRACT

Filter systems are available as complete units. Tanks are fabricated to ASME standards with a working pressure of 50 psi and a test pressure of 200 psi. Each tank shall be provided with an 11" x 15" manhole, couplings, drain plugs, air relief valves, top distributor system, dome type underdrains in 54" tanks and smaller, lateral underdrain system in larger tanks, all face piping of schedule 40 wrought steel, bronze or iron body bronze mounted gate valves, adjustable supports, gauges and sight glasses. Each filter system shall be provided with a properly sized pump, motor, and strainer. Pumps shall be of the centrifugal or of the self-priming centrifugal type. Motors shall be of sufficient horsepower and available in single and three phase, 1750 or 3450 rpm, and 220/440 volts.

Media specifications supplied with filter. Chemical feeders shall be positive displacement pump type, for chlorine, pH corrective and alum feeds.



TYPICAL RAPID SAND PRESSURE INSTALLATION

CAT. #	MAX. POOL CAPACITY IN GALLONS		NO. & DIA. OF TANKS INCHES	TOTAL FILTER AREA SQUARE FT.	FILTER RATE GPM *(2)	BACKWASH RATE GPM *(3)	PUMP SIZE H.P.	FLOOR AREA REQUIRED FEET *(1)	FACE PIPING IPS	CHLORINE *(4)	100 LB. BAGS OF FILTER MEDIA REQUIRED		SHIPPING WEIGHT POUNDS *(5)
	6 HOUR TURNOVER	8 HOUR TURNOVER									SAND	GRAVEL	
A-114	30,400	40,500	4-36	28.2	84.9	84.9	2	6 x 18	2½	10	48	40	5,000
A-104	40,500	54,000	3-48	37.5	112.4	150	2	7 x 18	3	10	63	57	6,800
A-115	54,000	72,000	4-48	50.3	150	150	3	7 x 22	3	20	84	76	9,100
A-106	63,500	84,600	3-60	58.8	176.5	235	5	8 x 21	3½	20	117	90	10,400
A-117	84,600	113,000	4-60	78.4	235	235	5	8 x 26	3½	20	156	120	14,000
A-108	91,500	122,000	3-72	84.6	254	339	5	9 x 24	4	40	171	132	12,200
A-119	122,000	163,000	4-72	113	339	339	7½	9 x 30	4	40	228	176	16,300
A-112	162,500	217,000	3-96	150.5	452	603	10	11 x 30	5	40	303	222	24,000
A-113	203,000	276,000	3-108	191	574	764	10	12 x 33	6	75	384	282	31,400
A-123	218,000	291 000	4-96	201	603	603	10	11 x 38	5	75	404	296	32,200
A-124	275,000	368,000	4-108	255	764	764	15	12 x 42	6	75	512	376	41,500
A-125	325,000	435,000	6-96	302	905	603	20	22 x 31	6	100	606	444	48,200
A-126	412,000	550,000	6-108	382	1145	764	30	24 x 34	8	100	770	563	62,700

NOTES: (1) Includes average operating space, pump, and motor; 7 feet 6 inches ceiling height required.
(2) Based on application rate of 3 GPM/square foot of filter area.
(3) Based on backwashing tanks individually at 12 GPM/square foot of filter area.
(4) Chlorinator capacity in pounds per day. 8 hour turnover.
(5) Weight ot tank & face piping only.

NOTE: Intermediate size vertical tanks and horizontal tanks made to order.

health regulations require that the entire water content of the pool be filtered and treated in at least 8 hours, or often six, and the requirements for chlorination and pH control are equally explicit. International filter systems, either rapid sand pressure filters, or diatomite pressure filters are designed to meet the most rigid requirements.

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PRESSURE DIATOMITE FILTERS

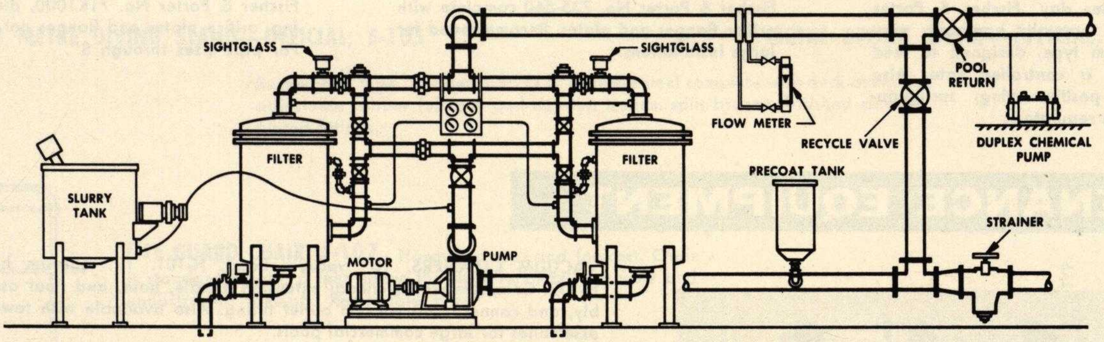
GENERAL INFORMATION

The filtering media is a ⅛ inch deposit of diatomaceous earth coated on the filter element by the pressure of flowing water. The resultant effluent is clear and "sharp" due to the fine porosity of the media. A coagulating agent is not required. The filter rate is usually set by code requirements at 2 gpm per square foot of filter area. Pressure gauges show the need for backwashing by indicating head loss through the filter. Backwashing the filter removes the spent diatomite media and requires a minimum of water. Filter cycles are lengthened by the addition of diatomite slurry during the filter cycle, producing maximum efficiency of operation. Space requirements are approximately ½ that of sand filters. Large filtering capacity may be installed in a limited area.

SPECIFICATION ABSTRACT, THE "AquaKleer" FILTER

Diatomite filters shall be of the pressure upflow type employing vertically suspended rigid elements consisting of perforated flanged brass tubes covered by a monel wire mesh cloth calenderized to produce a smooth surface. Tanks shall be constructed to meet ASME standards. Working pressure shall be 50 psi, test pressure shall be 200 psi. Tanks shall be sandblasted smooth, interior surfaces shall receive a 6 mil coating of polymerized phenolic resin; exterior surfaces shall be phosphate treated, primed, and enameled. Face piping shall be schedule 40 galvanized wrought steel, with bronze or iron body bronze mounted gate valves. There shall be supplied pressure and vacuum gages, sight glasses, precoat tank, and slurry feeding system. Pumps, motors, and strainers, described under "Pressure Sand Filter—Specification Abstract" shall also be supplied.

Chemical feeders shall be positive displacement pump type, for chlorine and pH corrective.



TYPICAL DIATOMITE INSTALLATION

CAT. #	MAX. POOL CAPACITY IN GALLONS 6 HOUR TURNOVER	8 HOUR TURNOVER	NO. & AREA OF TANKS SQUARE FT.	TOTAL FILTER AREA SQUARE FT.	FILTER RATE GPM *(2)	PUMP SIZE H.P.	FLOOR AREA REQUIRED FEET *(1)	MINIMUM HEIGHT *(5) IN.	FACE PIPING IPS	CHLORINE *(4)	SHIPPING WEIGHT LBS. *(3)
B-104	32,400	43,200	1-45	45	90	1½	5 x 10	77	2	10	600
B-105	43,100	57,600	1-60	60	120	3	5 x 10	96	2½	10	750
B-106	54,000	72,000	1-75	75	150	3	6 x 11	85	3	20	875
B-107	72,000	96,000	1-100	100	200	5	6 x 11	96	3	20	950
B-113	86,400	115,000	2-60	120	240	7½	6 x 12	96	2½	40	1600
B-114	108,000	144,000	2-75	150	300	10	18 x 8	85	3	40	1880
B-108	108,000	144,000	1-150	150	300	10	9 x 12	95	4	40	2250
B-115	144,000	192,000	2-100	200	400	15	18 x 8	96	3	40	2040
B-118	162,000	216,000	3-75	225	450	15	19 x 12	85	3	75	2800
B-109	175,000	234,000	1-243	243	486	15	13 x 12	95	5	75	3250
B-116	216,000	288,000	2-150	300	600	15	21 x 9	95	4	75	4850
B-120	288,000	384,000	4-100	400	800	20	17 x 12	96	3	100	4000
B-117	350,000	467,000	2-243	486	972	20	16 x 13	95	5	100	8000
B-119	524,000	700,000	3-243	729	1458	25	21 x 12	95	5	200	12,000

NOTES: (1) Includes average operating area, pump, motor, slurry tank and precoat tank.
(2) Based on application rate of 2 GPM/square foot of filter area.
(3) Weight of tank & face piping only.
(4) Chlorinator capacity in pounds per day. 8 hour turnover.
(5) Minimum ceiling height required for septa removal.

GENERAL EQUIPMENT

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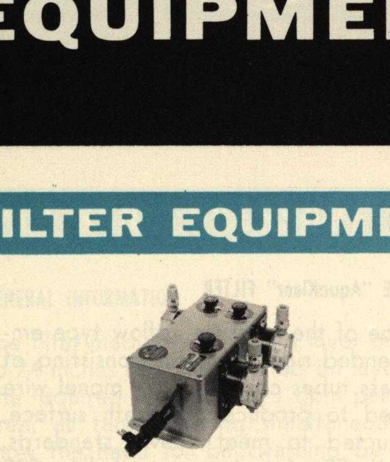
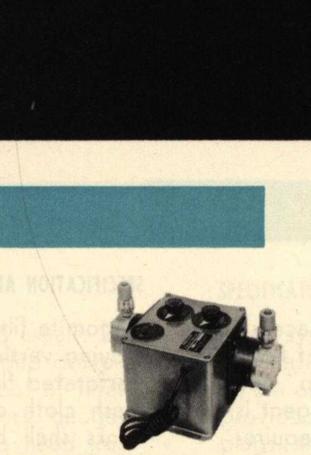
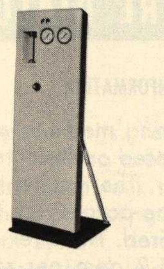
FILTER EQUIPMENT



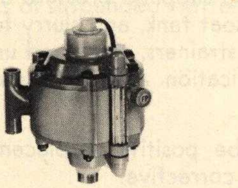
CHEMICAL FEEDER, D-104, TRIPLEX. Precision Model S3, positive displacement pump, operates against back pressure of 125 psi. Used simultaneously as hypochlorinator, pH regulator, and alum feeder. Recommended for rapid sand pressure filter systems.



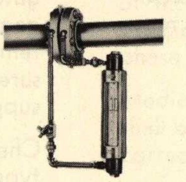
CHEMICAL FEEDER, D-105, DUPLEX. Precision Model SD, positive displacement pump, operates against back pressure of 125 psi. Used simultaneously as hypochlorinator and pH regulator. Recommended for diatomite filter systems.



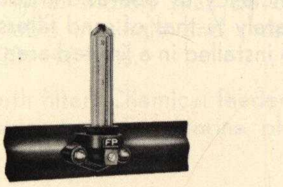
GAS CHLORINATOR, D-102. Maximum capacity 200 lbs. per day. Fischer & Porter Model 70C1110, manual and semi-automatic control. Corrosion-proof inside and out. Gas flow rate is maintained by positive-acting spring-opposed diaphragm regulators and built-in flowmeter.



GAS CHLORINATOR, D-103. Maximum capacity 50 lbs. per day. Fischer & Porter Model 70C1010, manually operated, solution feed, vacuum type, designed to feed chlorine gas at a controlled rate. Also equipped with positive-acting, spring-opposed diaphragm regulators.

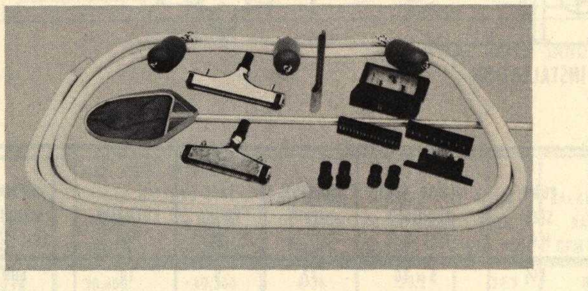


FLOWMETER—MANOMETER TYPE, D-110. Fischer & Porter No. 735-560 complete with orifice flanges and plates. Recommended for large installations.



FLOWMETER—ROTAMETER TYPE, D-109. Fischer & Porter No. 71K1000, direct reading; orifice plates and flanges not required. For pipe sizes through 8″.

MAINTENANCE EQUIPMENT



VACUUM CLEANERS. 18″ vacuum head, H-101. 12″ vacuum head, H-102. Complete with sectional extension handle, hose, and float assembly, and connector to vacuum outlet fitting. Also available with tow-line assemblies for large commercial pools.

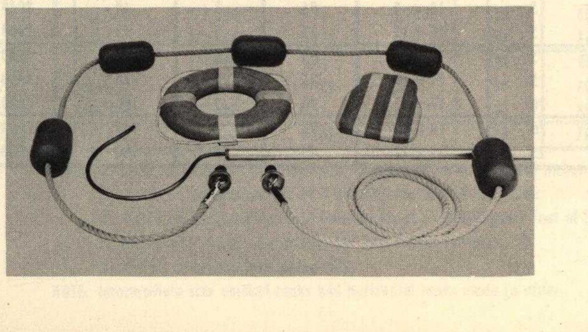
WATER TEST KIT, H-107. Color standards for pH and chlorine tests to meet the most exacting code requirements. Chlorine residual standards from 0.0 to 1.0, pH ranges from 6.3 to 8.4.

POOL THERMOMETERS. Chrome plated brass case, H-108. Rigid plastic case, H-109.

LEAF SKIMMER, H-110. Lightweight with replaceable screen and 14′ aluminum handle, G-110.

The equipment shown is part of a complete line of maintenance equipment. Individual items are recommended by International engineers to conform to the operating requirements of a specific pool.

SAFETY EQUIPMENT



LIFE LINE AND FLOAT ASSEMBLY. ¾″ nylon rope (G-101) with 5″ x 9″ plastic floats (G-104) secured with chromed bronze terminals (G-105). This assembly is used in conjunction with life line sockets and eye bolts to separate diving and play areas.

LIFE RING, G-108. High buoyancy, surface finished foam rubber.

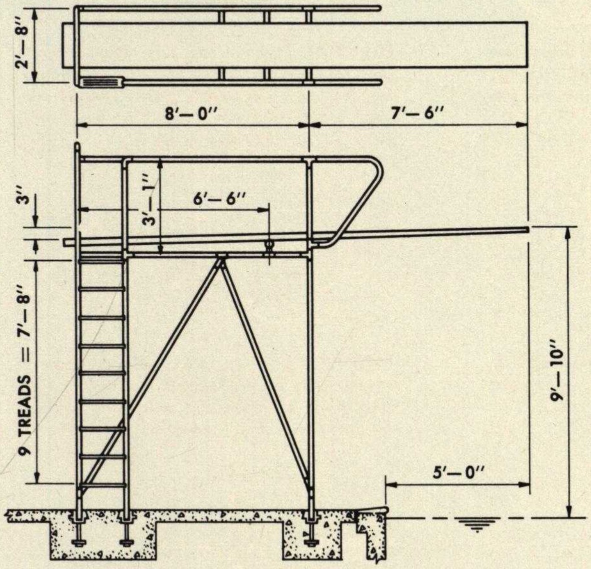
KICKBOARDS, G-107. 12″ x 18″ fiberglas covered styrene foam. For swimming instruction.

LIFE HOOK, G-109. 14″ diameter hook with 14′ aluminum handle (G-110) for life saving and instructional purposes.

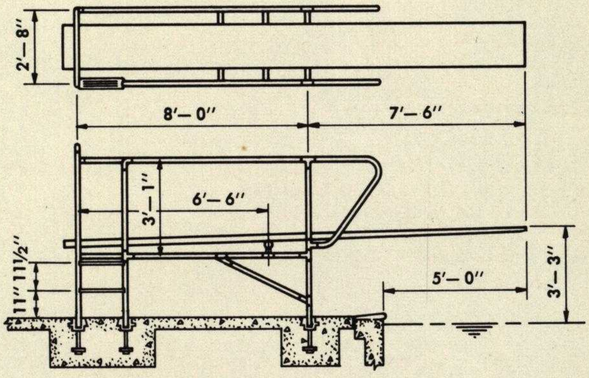
The equipment shown is for minimum swimming pool safety. A complete line of safety equipment is available for all types and sizes of pools.

DECK EQUIPMENT

"100" GROUP

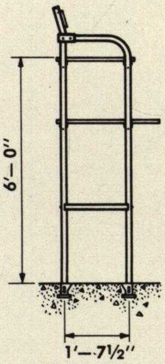


3 METRE DIVING STAND—OFFICIAL, F-105



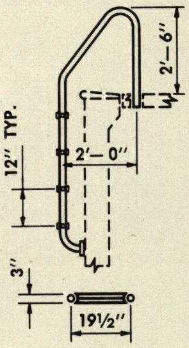
1 METRE DIVING STAND—OFFICIAL, F-106

Removable type. Formed 1.9" O.D. stainless steel complete with deck anchors, adjustable rubber fulcrum, and non-slip treads. split bronze, brushed chrome plated fittings.



LIFE GUARD CHAIR, F-107. Hardwood seat and footrest. Chair is standard height, 6 feet above the deck for maximum view and unobstructed take-off. Removable type.

LADDERS. 3 TREAD, F-109. 4 TREAD, F-110. Stainless steel assembly of 1.9" O.D. rails and formed non-slip treads available in specialized shapes to fit any pool, or as grab or stair rails for integral pool wall steps, complete with deck anchor sockets.



DIVING BOARDS

Diving boards are available in 12, 14, and 16 foot lengths, fabricated of prime, clear, vertical grain Douglas Fir, laminated under pressure, coated with fiberglas and polyester resin with integral sand tread for weather resistance and long life. Diving boards are also available in aluminum.

DOUGLAS FIR BOARDS		ALUMINUM BOARDS	
F-127	12'	F-130	12'
F-128	14'	F-131	14'
F-129	16'	F-132	16'

THE ITEMS LISTED IN THIS CATALOG ARE OF THE SIZES AND TYPES MOST FREQUENTLY USED. INTERNATIONAL CAN SUPPLY A COMPLETE RANGE OF SIZES AND TYPES FOR ANY SWIMMING POOL NEED.

POOL FITTINGS

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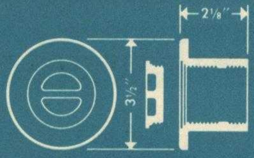
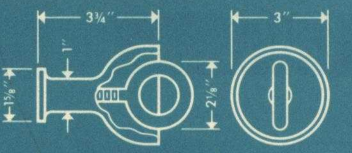
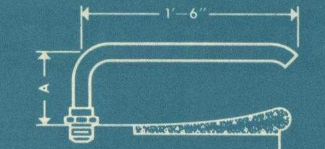
COMMERCIAL POOL DIVISION



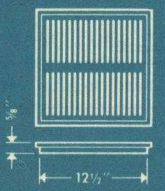
VACUUM OUTLET FITTING. Chromed bronze with removable plug for connection of the vacuum cleaner hose to the recirculating pump. E-108.



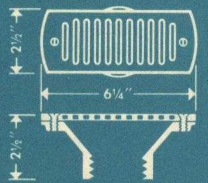
LIFE LINE SOCKETS AND EYE BOLT. Chromed bronze concrete insert with removable chromed steel eye bolts. Fitting and eye bolt are flush with the pool wall for maximum safety. E-120.



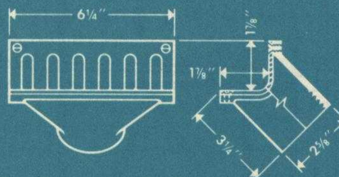
FILL SPOUT. Chrome plated brass spout eliminates cross connections to water supply by an air break over the pool coping, and is usually installed under diving stands. F-123, 1½" ips. ("A" dim. is 6"). F-124, 2" ips. ("A" dim. is 8½").



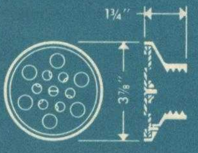
MAIN DRAIN FRAME AND GRATE. Chromed bronze removable grate and fixed chromed bronze frame. A 12 x 12 grate gives 63 square inches of open area, a 15 x 15 grate gives 98 square inches. The main drain well is formed in concrete. E-110, 12" x 12". E-122, 15" x 15".



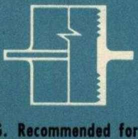
GUTTER DRAIN. Chromed bronze removable grate on cast bronze 2" ips body. Grate orifice insures proper drainage. E-117.



GUTTER DRAIN—ANGLE TYPE. Chromed bronze removable grate on cast bronze 2" ips body. The vertical section will continue to drain if the bottom of the grate is covered with debris. E-118.

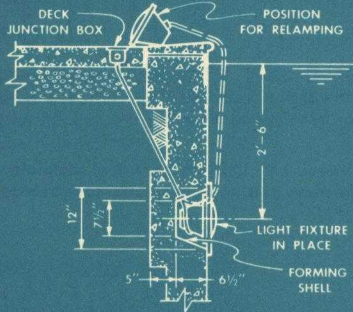


ADJUSTABLE INLET FITTING. Chromed bronze with adjustable face plate for equalizing the flow through multiple inlet installations. E-104, 1½" ips. E-105, 2" ips.



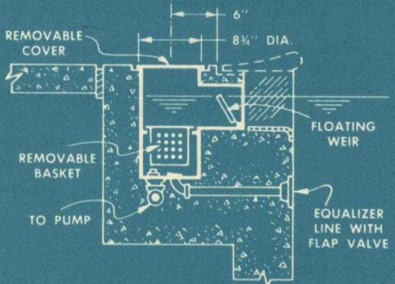
NO-LEAK FITTING. Recommended for formed concrete construction to prevent seepage at thru-the-wall piping. Available in cast bronze to 2" ips, and in galvanized cast iron from 2½" to 4" ips.

Cast Bronze		Cast Iron	
E-111	1"	E-114	2½"
E-112	1½"	E-115	3"
E-113	2"	E-116	4"



UNDERWATER LIGHTS. Wet niche type of chromed bronze and copper construction complete with forming shell, conduit, deck junction box, and wiring. Light units are manufactured under UL and CSA approval. Provide approximately one watt per square foot of pool surface.

E-101	400 watt
E-102	500 watt
E-103	1000 watt



AUTOMATIC SKIMMER. Cast aluminum, with plastic flap-type weir, perforated brass basket, brass throttling plug, equalizer line, anti-air lock flap valve, and chromed bronze pool fitting. Operates from pump suction, effectively skims water surface and removes floating debris. Self-adjusting weir over a 5" differential in water depth. A skimmer is usually provided for approximately each 500 square feet of pool surface. E-119.

THE ITEMS LISTED IN THIS CATALOG ARE OF THE SIZES AND TYPES MOST FREQUENTLY USED. INTERNATIONAL CAN SUPPLY A COMPLETE RANGE OF SIZES AND TYPES FOR ANY SWIMMING POOL NEED.

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international
SWIMMING POOL CORPORATION
COMMERCIAL POOL DIVISION
188 EAST POST ROAD
WHITE PLAINS, NEW YORK

23k
Ki

Adolph Kiefer

SWIMMING POOLS and EQUIPMENT

ADOLPH KIEFER & COMPANY
GLENVIEW, ILLINOIS (Chicago Suburb)

ADOLPH KIEFER EQUIPMENT

Founded in 1946, Adolph Kiefer and Company was organized to provide a complete service in all phases of the then infant swimming pool industry.

Design and manufacture have been based on the specific requirements needed for every type of swimming pool installation, whether for private or public use.

PUBLIC POOLS

It is necessary that the design and layout of any public or municipal installation conform to the sanitary rules and regulations set up by governing state or other health departments.

PRIVATE POOLS

Although the requirements for the private pool are less stringent, particular attention should be paid regarding local zoning ordinances which are becoming more prevalent as the number of new pools are increasing at such a rapid rate. Correct initial planning will avoid any possible future problems and will result in greater economy, both in construction and maintenance.

POOL DESIGN FACTORS

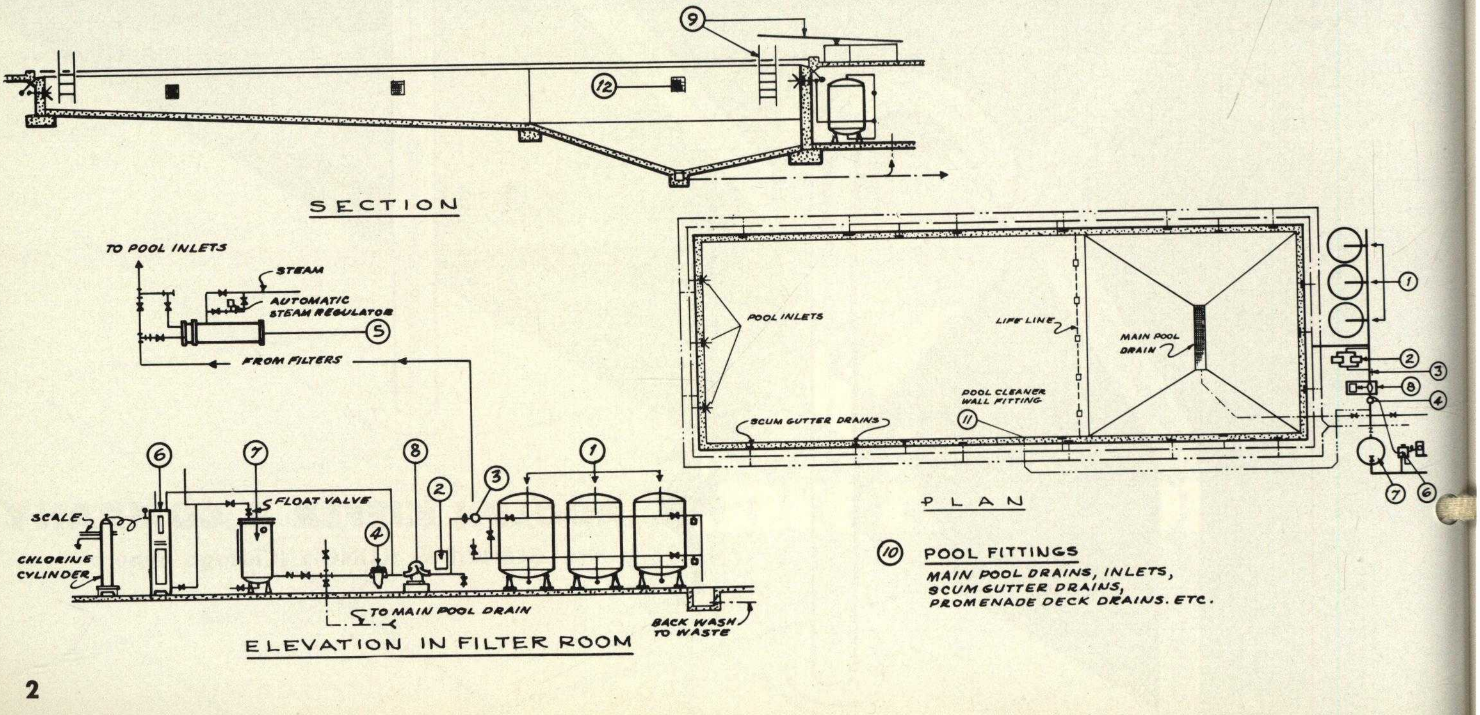
After familiarization with state and local codes, the size and shape of the pool is then determined, taking into consideration limitations governed by topographical and other features. Particular care should be given in placing the filter room, especially for a private pool, so that the motor sounds are not objectionable and also to allow ease of accessability.

SERVICES OF ADOLPH KIEFER & COMPANY

DESIGN AND LAYOUT ASSISTANCE

Our engineering department prepares complete layouts and plans of swimming pools and filtration systems and assists architects in formulating complete installations—municipal, motel, private club and residential. Over-emphasis cannot be made in respect to proper planning and this consideration we try to convey to all concerned from the architect, contractor, to the ultimate owner and operator. Our service extends to supplying complete shop drawings and installation data on all deck equipment, both standard and specially built, as well as for details of the pool, filtration equipment and housings.

STEP BY STEP EXAMPLE



⑨
⑫
SECTION
TO POOL INLETS
STEAM
AUTOMATIC STEAM REGULATOR
⑤
FROM FILTERS
⑥
⑦
⑧
①
②
③
④
SCALE
CHLORINE CYLINDER
FLOAT VALVE
TO MAIN POOL DRAIN
BACK WASH TO WASTE
ELEVATION IN FILTER ROOM
POOL INLETS
LIFE LINE
MAIN POOL DRAIN
POOL CLEANER WALL FITTING
⑪
SCUM GUTTER DRAINS
PLAN
⑩ POOL FITTINGS
MAIN POOL DRAINS, INLETS, SCUM GUTTER DRAINS, PROMENADE DECK DRAINS. ETC.

WATER CONDITIONING EQUIPMENT

Filters. We furnish complete filtration systems using either sand and gravel, diatomaceous earth, both pressure types and those using automatic skimmers and also filter skimmers, using diatomaceous earth as a filter media.

Chlorinators. Available are three units using liquid chlorine for greatest economy for large pools, solution feeders and dry feeders for the medium sized and smaller pools.

Chemical Feeder. Provided where necessary for equal distribution of chemicals for perfect residual balance.

Pool Heater. Now recognized as a "must" — greatly extends the season that a pool can be used and increases comfort all-around.

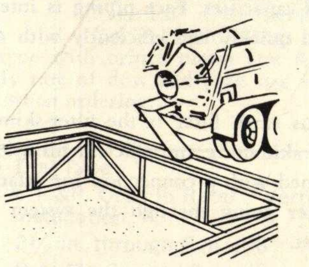
Pumps and Motors. These as specified and used with our equipment are of the best quality and specifically designed to suit the requirements of the particular job.

Deck Equipment. The most comprehensive, complete, and properly engineered line of deck equipment in the United States. Diving board stands, life guard chairs and pool ladders available in a variety of materials ranging from galvanized iron, chrome plated brass to several grades of stainless steel. Diving board construction is of Douglas Fir, Fiberglass or aluminum.

Pool Fittings. A complete line of fittings provided to suit any and all requirements. General composition is of heavy brass, chrome plated.

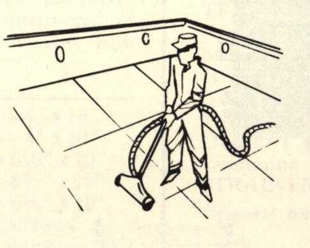
Miscellaneous Equipment. Dedicated to supplying "Everything But The Water," we manufacture and make available a great variety of articles directly related to swimming pools and water sports. Ask for our catalogs.

CONSTRUCTION



Adolph Kiefer & Company offers a pool construction supervision service by a highly trained and experienced staff of engineers and pool maintenance personnel. Our technical people are carefully selected and are specially trained in swimming pool and bathhouse construction techniques. Our staff is especially capable at it represents many man-years of experience in this highly specialized field. Our men are in the field constantly keeping abreast, and in most cases ahead, of the latest pool construction trends. Full information about this service is available for the asking.

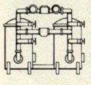
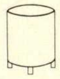
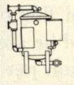
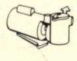
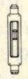
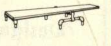
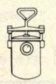
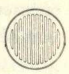
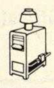
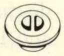
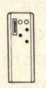
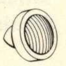
POOL SERVICE AND MAINTENANCE



By conducting an actively operating pool service and retaining a year-around maintenance staff, we have had the opportunity to study and experience all of those occurrences and problems attendant to swimming pool construction and care.

This in effect is a "field laboratory" allowing us to continuously inaugerate new systems, products and to keep ahead of the many developments in this rapidly growing industry.

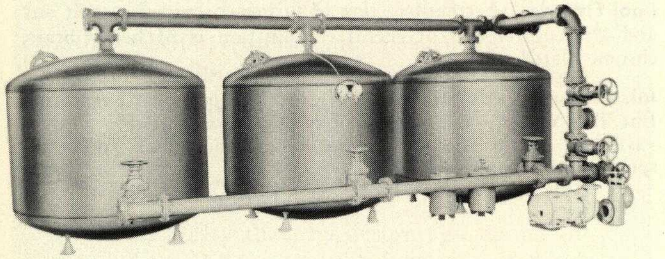
EQUIPMENT LIST

			page				page
1		FILTER SYSTEMS SLURRY TANK & BODY FEEDER	4	7		MAKE-UP TANK	5
2		CHEMICAL FEEDERS • dry type • positive feed type	4	8		PUMPS AND MOTORS	5
3		FLOW INDICATOR	5	9		DECK EQUIPMENT	6-7
4		SUCTION STRAINER	5	10		POOL FITTINGS	6-7
5		POOL HEATER	5	11		VACUUM CLEANING FITTINGS	6
6		CHLORINATOR • gaseous type	5	12		POOL LAMPS • OBSERVATION WINDOWS MISCELLANEOUS EQUIPMENT/SPECIFICATIONS	7 8

ADOLPH KIEFER WATER CONDITIONING EQUIPMENT

1 FILTER SYSTEMS

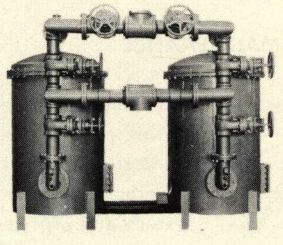
PRESSURE SAND AND GRAVEL TYPE

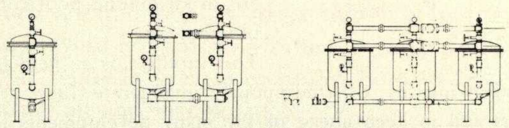


PRESSURE SAND AND GRAVEL TYPE

Supplied in single and multiple units, both vertical and horizontal. The sand and gravel filters are the simplest of all types of filters available, easy to operate, and are the most economical. While specifically designed to suit individual applications in multiple versions, we maintain large stocks of residential types in sizes from 24 to 42 in. dia. to take care of the immediate needs of volume purchasers. In all cases, however, we can offer prompt delivery service on all types. For further details on sizes, capacities and range data, please ask for our filter bulletin.

DIATOMACEOUS EARTH TYPES



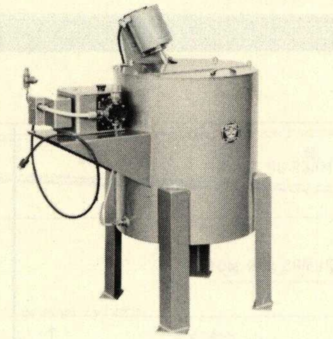


DIATOMACEOUS EARTH TYPES

In the pressure versions we have designs available featuring compact tanks incorporating relatively large filter areas. This reduces floor space requirements by a good margin. Combining similar sizes allows increased capacities. Face piping is integral. Backwashing is accomplished quickly and efficiently with minimum of wash water.

Another type of diatomaceous earth filter is the filter-skimmer, combining automatic surface skimming and efficient filtration in one unit. This unit is designed with a connection for attaching a pool vacuum cleaner, water going through the system with no waste. Bulletin on request.

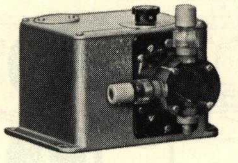
1 SLURRY TANK & BODY FEEDER



Available in four sizes to deliver up to 70 lbs. per 24 hour period. Rugged construction eliminates maintenance problems. Adaptable to any type or size diatomite filter system.

	Capacity — gal.	Feed Rate — gph
T1	20	1.75-3.5
T2	50	1.75-3.5
T3	100	1.75-3.5
T4	150	1.75-3.5

2 POSITIVE FEED CHEMICAL FEEDERS



Designed to feed up to 60 gallons of chemical solution per day. Effective for pressures up to 125 psi. Bulletin on request.

Model S-SIMPLEX With suction and discharge tubing, foot valve, strainer and line injection valve.

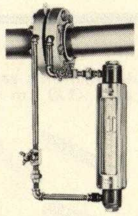
Model S-DUPLEX With two heads for feeding two chemicals.

2 DRY TYPE CHEMICAL FEEDERS

Used to create Alum floc on top of filter media. Feeder should be sized for approximately 1/3 lb. of Alum per square foot of filter area. Also used for the feeding of soda ash to control alkalinity of water. Made of 125 lb. A.W.W.A. fine grain cast iron with O-ring seal and a lid which can be easily removed.

No.	capacity — lb.
1400	5
1402	10
1406	25
1410	50
1414	75
1418	130
1422	170

3 FLOW INDICATOR



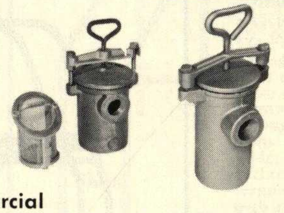
1454-A

FLOW INDICATOR

Used to check filter, backwash and flow rates. Available in dial type and two types of Pyro-Flo gauges, "vertical" (No. 1454) and "swivel" (No. 1456). Order dial type with orifice plates and flanges. Specify rate of flow and pipe size for all types when ordering.

No.	
1450	Dial Type
1454-A	F.&P. Ora-Flo Rater "Vertical" installation. 2½ in. through 6 in. IPS
1456	Pyro-Flo Gauge "Swivel" installation. 1½ in. and 2 in. IPS

4 SUCTION STRAINERS



commercial
Designed with flared pipe apertures and top and bottom openings to distribute water evenly over entire basket area. These strainers have larger basket area per pipe size than any other strainer. All strainers have positive O-ring seal and quick release lid.

residential
The exclusive O-ring feature provides a positive seal by merely tightening handle with hand pressure. All strainers are equipped with a rubber coated basket. This basket is so designed that the area of the openings is many times that of the pipe size to insure adequate flow in the event the basket becomes partially clogged. All strainers are constructed of 125 lb. A.W.W.A. fine grain cast iron with bronze yoke.

No.	
1302	1½" Standard — 4" x 10"
1306	2" Standard — 4" x 10"
1310	1½" DeLuxe — 6½" x 10"
1314	2" DeLuxe — 6½" x 10"
1318	2½" DeLuxe — 6½" x 10"
1340	3" Commercial Screwed
1344	4" Commercial Screwed
1348	4" Commercial Flanged
1352	5" Commercial Flanged
1356	6" Commercial Flanged

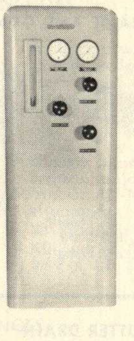
5 POOL HEATER

Heavy-Duty Automatic Gas Pool Heaters. LAARS Models AFJ are completely automatic, for natural and mfd. gas, available in 35 sizes from 103,000 to 7,125,000 BTU. "ULTRA-SENSITIVE" THERMOSTAT cuts gas bills, controls pool temperature to 0.1 degree. HIGH LIMIT SWITCH protects against overheating. "PRESSURE-FLOW" SWITCH protects against any abnormal condition. ELECTRIC GENERATOR, built-in no wiring expense. ELECTRIC MAIN GAS VALVE is safe and reliable. AUTOMATIC SAFETY PILOT prevents gas flow unless pilot is lighted. GAS PRESSURE REGULATOR maintains constant gas pressure. PRESSURE RELIEF VALVE, ASME approved, steam-rated. OUTLET THERMOMETER has special swimming pool calibration. SAFETY-T-STRAINER, cleanable, stainless steel.

Request on other gas, oil or steam types.

		Natural and Mfd Gas	
No.	Model	BTU Input	BTU Output
3003	AFJ-3	103,000	82,400
3064	AFJ-64	2,800,000	2,240,000

6 CHLORINATOR • gaseous type

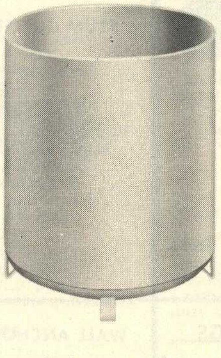


Chlorination is the most satisfactory means for preventing bacterial contamination of swimming pool water. Bulletin on request.

Hypochlorinators are best used for private pools and some commercial pools where gas is not suitable. Bulletin on request.

No.		
2120	10-100 lb. capacity	Wall Model A677
2124	10-100 lb. capacity	Floor Model
2140	Hypochlorinator	S1 Single Head
2144	Hypochlorinator	S2 Double Head

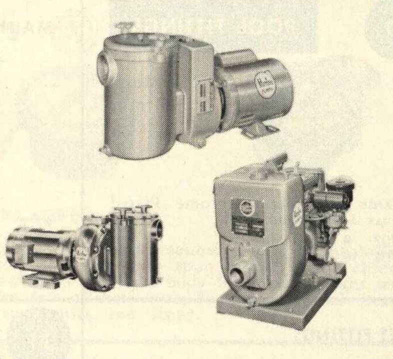
7 MAKE UP TANK



Make up on balance tanks available in any size or capacity. Used to break any direct connections between the potable water lines and the filter system. When also used as a balance tank proper valving must be utilized. Made of ¼ in. steel plate with dished bottom overflow outlet. Red lead finish. Specifications on request.

3 x 5 ft. tank
5 x 6 ft. tank

8 PUMPS and MOTORS



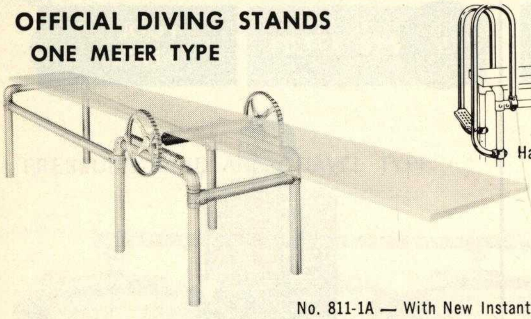
Adolph Kiefer & Co. pumps are expressly designed for swimming pool use. The self-priming types have a large integral hair and lint strainer basket of heavy perforated brass.

Heavy duty regular commercial centrifugal pumps, 1700 to 1750 Series, are available to 50 hp. 1750 Series self-priming pumps are available to 15 hp. Bulletins available: specify discharge rates and heads when requesting information.

ADOLPH KIEFER 9 DECK EQUIPMENT

OFFICIAL DIVING STANDS

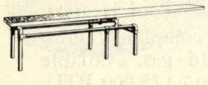
ONE METER TYPE

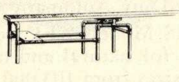


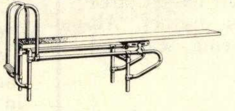
Hand rail and step

No. 811-1A — With New Instant Adjustable Fulcrum

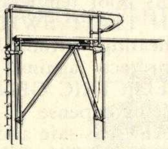
No. 813-S — With Single Fulcrum No. 817-D — YMCA style No. 815-D — Overhang style



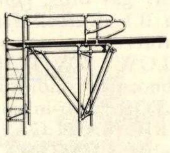




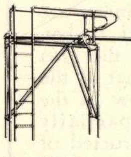
THREE METER TYPE



No. 824-D —
Double Fulcrum,
ladder at side

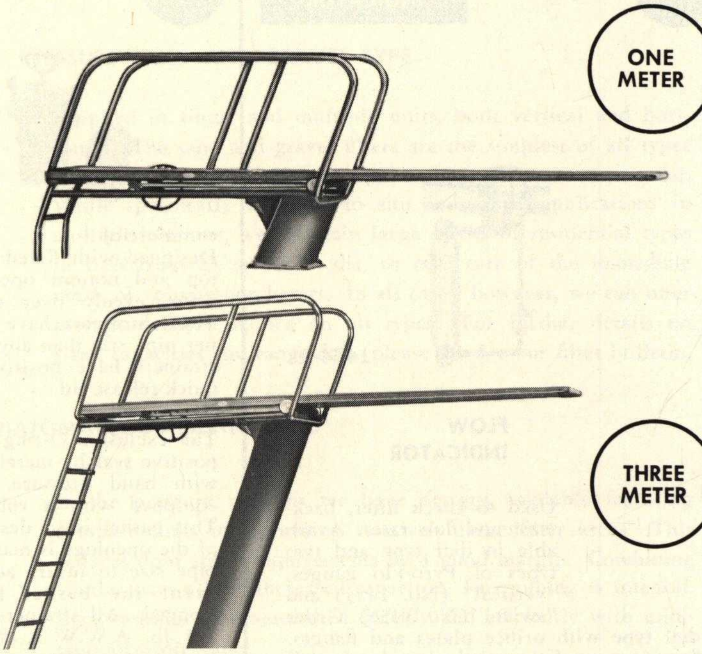


No. 825-S —
Overhand model,
Single Fulcrum,
ladder at side



No. 822-1a —
Adjustable Fulcrum,
ladder at side

EXCEPTIONAL DIVING STANDS

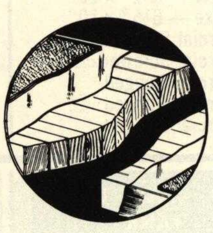


No. 850 "Exceptional" Three Meter Stand
No. 851 "Exceptional" One Meter Stand

DIVING BOARDS

All Adolph Kiefer & Co. diving boards of 14 and 16 ft. lengths meet AAU and NCAA requirements and are classified as "Official" types. Recommended for residential and deck level installations are those boards 8, 10 and 12 ft. long. Sanitary integral grit walk surface eliminates the need for cocoa matting on Kiefer diving boards.

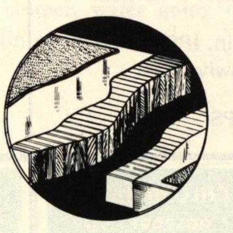
CUSTOM



Oregon Douglas Fir, carefully selected, laminated and bonded to form a rugged, top performing board.

No. 800-8	8 ft. x 18 in.
No. 800-10	10 ft. x 18 in.
No. 800-12	12 ft. x 18 in.
No. 800-14	14 ft. x 20 in.
No. 800-16	16 ft. x 20 in.

CHAMPIONSHIP



The peer of high-performance diving boards. Has 26 separate laminations of selected Oregon Douglas Fir bonded with the wood. grains matched to assure the best. Finished in weather and chemical resistant plastic varnish. Straight taper.

No. 801-14	14 ft. x 20 in.
No. 801-16	16 ft. x 20 in.

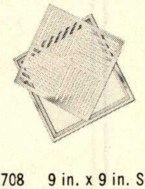
10 POOL FITTINGS

Main Drains

Frame and Grate Chrome Plated Brass

K702	8 in. Round
K704	10 in. Round

MAIN DRAINS



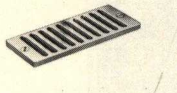
Frame and Grate
Chrome Plated
Brass

K708	9 in. x 9 in. Square
K712	13¼ in. x 13¼ in. Square
K716	19½ in. x 19½ in. Square

SCUM GUTTER DRAIN

K740
2⅜ x 3¾ in.
with depth of
2-11/16 in.
Available 1½ in.
to 2½ in. IPS

GUTTER FRAME AND GRATE



Brass Casting with 2¼ x 4 in. Chrome Plated Brass Grill.

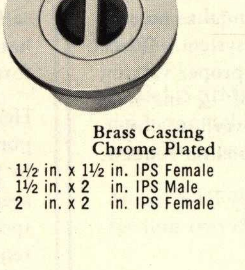
K740	1½ in. IPS Female
K746	2 in. IPS Male
K752	2 in. IPS Female

INLET FITTINGS

Brass Casting
Chrome Plated
Female Thread

K820	1 in. IPS
K822	1½ in. IPS
K824	2 in. IPS
K836	1 in. IPS Adjustable
K838	1½ in. IPS Adjustable
K840	2 in. IPS Adjustable

11 VACUUM FITTINGS



Brass Casting
Chrome Plated

K806	1½ in. x 1½ in. IPS Female
K808	1½ in. x 2 in. IPS Male
K810	2 in. x 2 in. IPS Female

WALL ANCHORS

No. 480—Heavy bronze recessed wall anchor with removable eye ⅝ in. diameter. Also available with chrome plate finish. 4 in. overall diameter, 4½ in. deep. No. 481—Heavy bronze recessed wall anchor. Square type with permanent tie bar. Also available with chróme plate finish 3-1/16 in. square, 3⅛ in. deep.

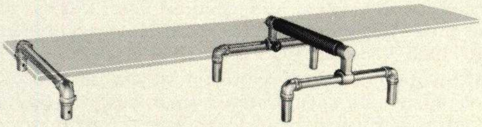
ANGLE GUTTER DRAIN

Angle Type Brass Casting with Chrome Plated Brass Grill

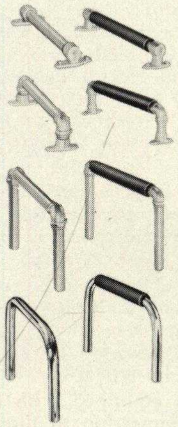
K760	2 in. IPS Female
K762	2½ in. IPS Female

DECK LEVEL/RESIDENTIAL STANDS

Available in galvanized iron, brass chrome plate and stainless steel.



No. 830 Has adjustable single or double fulcrum. Pipe frame 1½ in. O.D. Socket anchors or foot flanges furnished.



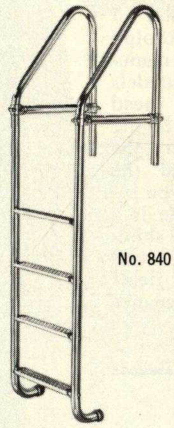
No. 831 With rubber covered fulcrum. Pipe frame 1⅞ in. O.D. Socket anchors or foot flanges furnished.

No. 832 With rubber covered fulcrum. Pipe frame 1⅞ in. O.D., uprights are sturdy castings. Easily mounted on concrete decks with expansion anchors (furnished).

No. 833 With rubber covered fulcrum. Pipe frame 1⅞ in. O.D., 24 in. high legs placed in concrete deck at time of pouring.

No. 834 Formed piping 1⅞ in. O.D., 24 in. legs placed in concrete deck at time of pouring.

POOL LADDERS



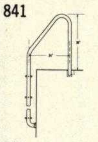
No. 840

- Stainless Steel
- Chrome Plated Brass
- Galvanized Iron

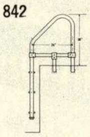
1⅞ in. O. D. pipe

Nos. 840 and 842 have cross braces for extra rigidity; split clamp fittings with throughbolt connections. Steps, extra wide, with non-skid surface. Bottom terminals furnished with rubber bumpers. Nos. 840, 841 and 842 mounted in socket anchors, easily removable. Decorative escutcheon plates can be furnished for anchor tops. Stainless steel ladders have luxurious satin finish.

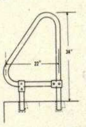
No. 841



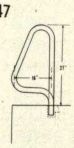
No. 842



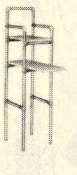
No. 845



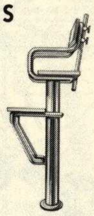
No. 847



LIFE GUARD CHAIRS

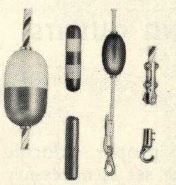


No. 853 Wood seat and legs rest finished in white enamel. Socket type anchors. Hooks for ring buoys furnished. Available in galvanized iron, stainless steel and chrome plated brass.



No. 852A New Olympic Type, satin finish aluminum pipe frame with heavy gauge satin finish aluminum column. Wood seat and step finished in white marine enamel. Complete with hooks for buoys and mount for umbrella.

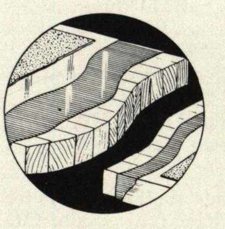
LIFE LINES AND RACING LANES



No. 461 Life line—50 ft. long, ¾ in. red and white polyethylene rope.

No. 452 life line Floats, spaced at 5 foot intervals. Ends in No. 474 bronze "Bulldog" terminals. Official type racing lanes have floats placed "end to end" as prescribed for AAU and NCAA competition.

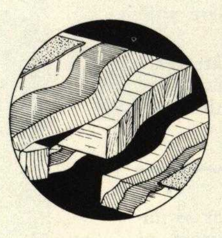
FIBERGLASS FACE



Laminated select Oregon Douglas Fir covered with layers of Fiberglass on the top surface giving added strength with the desirable performance of a wood board. Sea Green color. Permanent grit walk surface. Straight taper.

No. 802-10 10 ft. x 18 in.
No. 802-12 12 ft. x 18 in.
No. 802-14 14 ft. x 20 in.
No. 820-16 16 ft. x 20 in.

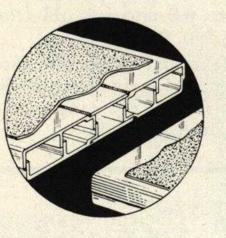
FIBERGLASS



Ideal board for municipal and institutional use Three layers of Fiberglass over a core of top grade laminated Oregon Douglas Fir. Turquoise color. Straight taper.

No. 803-12
12 ft. x 18 in.
No. 803-14
14 ft. x 20 in.
No. 803-16
16 ft. x 20 in.

ALUMINUM

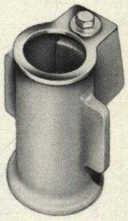


High strength and flexibility, combined with light weight. Top of the board is a solid surface covered with durable non-slip brick-red enamel. Bright aluminum anodized color.

No. 804-14
14 ft. x 20 in.
No. 804-16
16 ft. x 20 in.

SOCKET ANCHORS

standard



Furnished with bronze wedgedog, washer and cap screw. Positive locking of pipe frames and ladders. Polished or chrome plated bronze, galvanized iron or All-Mag aluminum.

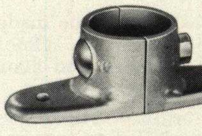
No. 850-15 for 1½ in. I.D. pipe No. 850-16 for 2 in. I.D. pipe

special

Designed for rear legs of diving stands where leverage pressure is greatest. Throughbolt joins anchor to rear frame uprights for complete rigidity. Polished or chrome plated bronze, galvanized iron or All-Mag aluminum.

No. 850-17 for 1½ in. I.D. pipe No. 850-18 for 2 in. I.D. pipe

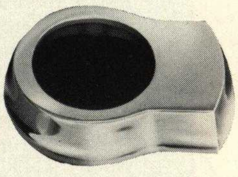
FOOT FLANGES



Used with expansion anchors to secure stand and anchors where concrete deck is already in place. Can also be used with bolts for mounting on wood platforms.

No. 850-19 for 1½ in. I.D. pipe, with expansion anchors
No. 850-20 for 2 in. I.D. pipe, with expansion anchors.

ESCUTCHEON PLATES



Covers anchor tops for "dressy" appearance. Available in polished or chrome plated brass or bronze.

No. 850-21 for 1½ in. I.D. pipe
No. 850-22 for 2 in. I.D. pipe

12 POOL LAMPS

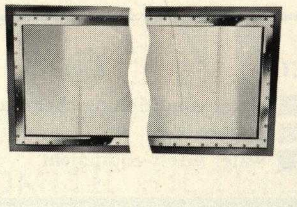
Deluxe No. K510 Wet Niche

No. K580 Deck Box

No. K568 Deck Box

Flush mounted lamps complete with bronze mounting ring for anchoring light into poolwall. The lamp units are heavy spun copper with a chrome plated bronze face ring attached to the light body for a water tight seal. Lamps are equipped with ten feet of three wire, Neoprene covered, heavy-duty cord. Underwriters' Laboratories, Inc. listed.

UNDERWATER OBSERVATION WINDOWS

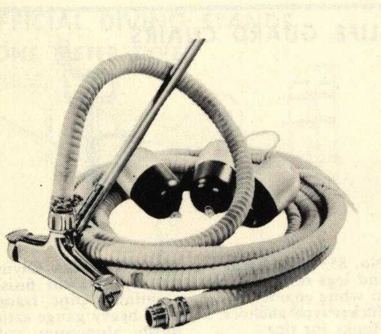


Brass frame castings with polished face flange of bright nickel-silver. Glass is ¾ in. thick Herculite polished plate with ground edges. Gum rubber gaskets, galvanized Z-bar anchoring with bolts. Knife-grade caulking furnished with each unit.

Cat. No.	Glass Size — in.	Flange Size — in.	Wall Opening Size — in.
984	13½ x 21	28½ x 21	25 x 17½
985	20 x 20	27½ x 27½	24 x 24
986	24 x 60	31½ x 67½	28¾ x 64¾

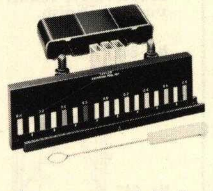
SWIMMING POOLS

MAINTENANCE/POOL CLEANING EQUIPMENT



Well designed and efficient maintenance and pool cleaning equipment is necessary for the appearance and sanitation of the swimming pool. Adolph Kiefer and Company manufactures seven different models of pool cleaners with head sizes ranging from 7 to 24 in., designed especially for the small private pool and the largest of commercial type installations. Also available is a complete line of pool skimmers, leaf rakes, floor and wall brushes, and other allied items to take care of any maintenance responsibility.

WATER TESTING OUTFITS



No. 992

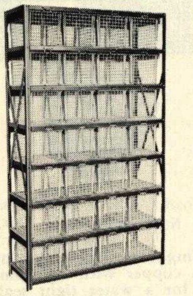
To determine the proper chlorine residual and to control irritating acidity a water test set is necessary for every swimming pool, large or small. Test set readings allow economical application of chemicals to maintain a proper balance—prevents overdosing.

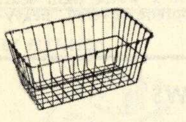
Economy Test Set—For simple testing—contains a 2-oz. bottle of phenol red, 7.2 and 7.6 color standards (pH) and test tube, a 2-oz. bottle of orthotolodine, 0.3 and 0.8 color standards (chlorine) and test tube. No. 990

Midget Tester—Unbreakable polyethelene carrying case. Range for chlorine from 0.1 to 0.8 and for pH from 6.8 to 8.0. Complete with tubes and reagents. No. 991

Model "K"—"Professional" type test set—for the most accurate reading gradations. Four chlorine standards, five phenol red standards. Chlorine range 0.0 to 0.8, pH range 6.8 to 8.4. Complete with tubes, reagents and wood case. No. 992

LOCKER ROOM EQUIPMENT





Efficient, economical clothing storage for swimming pools. Durably built to give years of trouble-free service. Racks can be mounted on casters for maneuverability. Finish: baked on green enamel or gray finish. Special racks can be made up for specific conditions.

No. 633 Basket rack with baskets 40¼ in. wide, 13¼ in. deep, 68¼ in. high; 21 No. 626 baskets.

No. 634 Basket rack with baskets 40¼ in. wide, 13¼ in. deep, 68¼ in. high; 28 No. 625 baskets.

Heavy Duty Checking Basket designed specifically for locker room use. Durably built to provide years of service.

No. 625 Bright zinc plated, 1 in. square mesh wire, 9 in. wide, 13 in. deep, 8 in. high.

No. 626 Bright zinc plated, 1 in. square mesh wire, 12 in. wide, 13 in. deep, 8 in. high.

No. 627 Zinc chromate plated, mesh of No. 12 wire with top rim of No. 6 wire. 10 in. wide, 18 in. deep 7½ in. high.

OTHER EQUIPMENT/PRODUCTS

- portable pumps & motors
- underwater diving equipment
- lockers and benches
- water conditioning chemicals
- pool paints
- water safety equipment

ADOLPH KIEFER EQUIPMENT

SPECIFICATIONS

The following typical specifications are intended to be used as a guide when directly specifying Adolph Kiefer Swimming Pool Equipment. For planning assistance or architectural service (including furnishing of complete and detailed specifications on the entire line of equipment) contact our Engineering Dept. These services are available for the asking.

All Swimming Pool Equipment shown on plans or covered by the specifications shall be as manufactured or furnished by Adolph Kiefer & Company, Glenview, Illinois, or architect-approval equal, and shall be installed in accordance with the manufacturer's instructions.

water conditioning equipment

FILTERS. All filters shall be completely assembled and tested in the factory. Filter shall comply with the requirements of the State Health Department and the local Board of Health (including inspection after installation), and shall be (choose one) . . . (a pressure sand and gravel type) or (a diatomaceous earth type).

The filter surface area shall allow a rate of water flow of..........GPM per sq. ft. of filter area, and shall have a minimum working pressure rating of.......... PSI. The filter shall be Cat. No. ...., Size..........

CHLORINATORS. Shall be furnished in cabinets for (floor) or (wall) mounting, and shall provide satisfactory means for preventing bacterial contamination. Chlorinator shall be (vacuum type gas) or (solution-hypochlorinator feeder type), Cat. No..........

CHEMICAL FEEDERS. Shall be equipped with brass pipe manifold for making connection to filter recirculating system. (Gravity) or (Pressure Pot) type, Cat. No. ....

POOL HEATER. Laars MVMJ gas pool heater shall be Cat. No. ...., rated..........BTU Input,.......... BTU Output, for use with..........BTU natural or manufactured gas.

PUMPS AND MOTORS. Pumps shall be (self-priming) or (centrifugal) type, rated..........ft. of water,.......... GPM; pump motor shall be rated..........HP,.......... Volts,..........Cycles,..........Phase; Cat. No..........

deck equipment

DIVING STANDS/BOARDS. Stands shall be (one) or (three) meter type, and shall be (..........in. OD pipe) or ("Exceptional") type; shall be (galvanized iron) or (chrome plated brass) or (stainless steel); Cat. No........... Fulcrum shall be (single) or (double) or (adjustable) type, and shall be provided with super-cushion rubber contact bars; Cat. No........... Diving board shall be.......... type,..........ft. long, Cat. No. ....

POOL LADDERS. Shall be (galvanized iron) or (Chrome plated brass) or (stainless steel); treads, (number) ....provided, shall be extra wide with non-skid surface; Cat. No..........

LIFE GUARD CHAIRS. (Standard) or ("Exceptional") type shall be furnished in (galvanized iron) or (stainless steel) or (chrome plated brass . . . rails only in "Exceptional"); Cat. No. ....

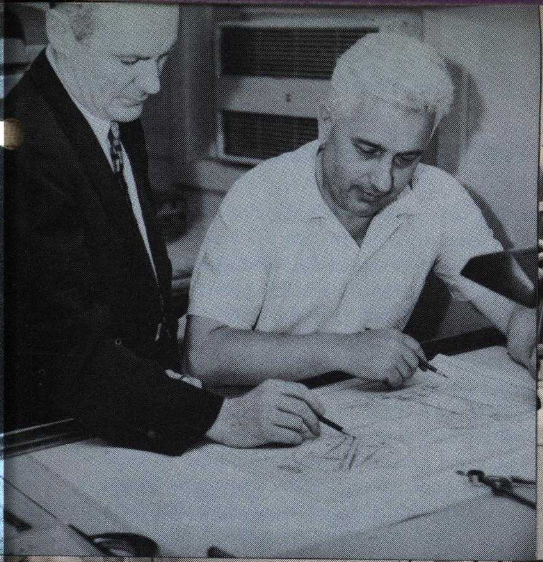
POOL FITTINGS..........shall be.......... material, size.........., Cat. No..........

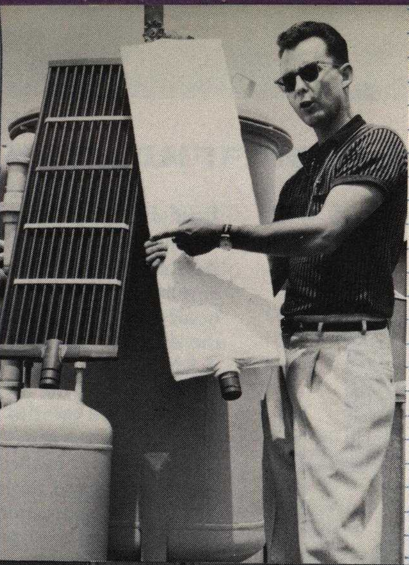
miscellaneous equipment

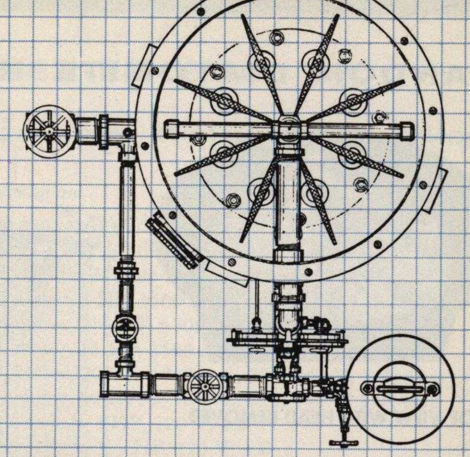
MAINTENANCE/CLEANING. Provision shall be made for maintenance and cleaning equipment. (Pool vacuum cleaner) or (skimmer) or (wall and floor brush) shall be Cat. No. ....

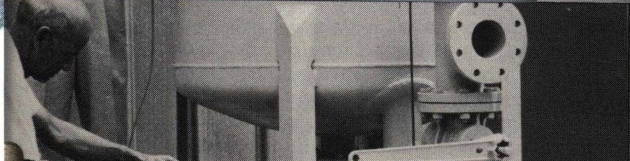
WATER TESTING OUTFITS. Shall be furnished to determine proper chlorine residual or to control acidity. Shall be Cat. No..........

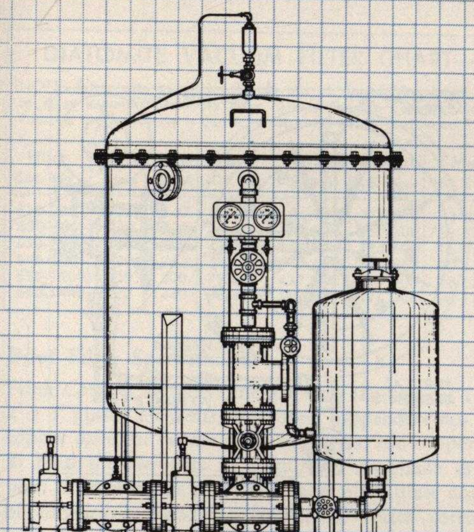
23K
La

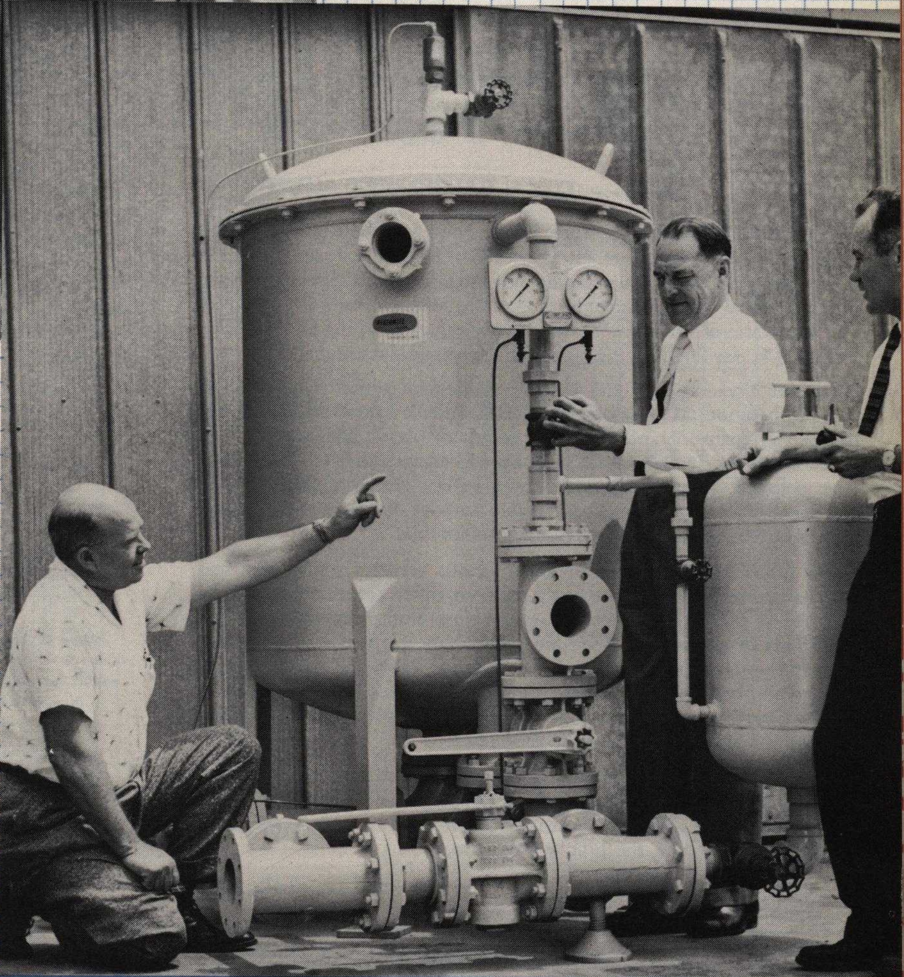












LANDON

DIATOMITE FILTERS

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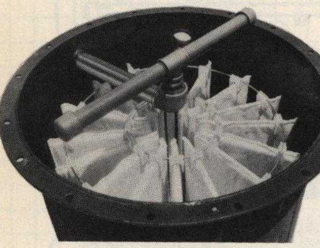
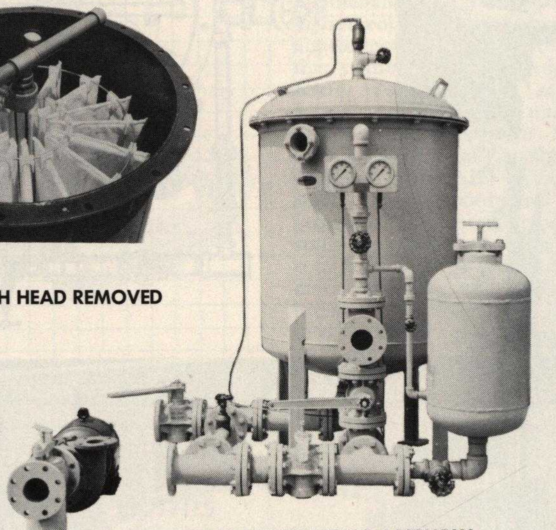
LANDON DIATOMITE PRESSURE FILTERS - SERIES 600



TOP VIEW WITH HEAD REMOVED



TYPICAL FLANGED PIPING ASSEMBLY

The Landon Diatomite Pressure Filter, another product of Landon's long experience, represents filtration at its finest. Designed primarily for public type pools, outstanding advantages of this filter over sand filters of equal capacity include: (1) more effective turbidity removal, (2) less waste of water for cleaning, (3) lighter shipping and handling weight, (4) far less housing space, (5) lower initial cost.

Particular advantages of the Landon single-tank system include: (1) ease of operation, (2) high-tensile steel tank with Lantex resilient epoxy lining, (3) corrosion and rust-proof laminated plastic filter septum, (4) felted synthetic element fabric for longer filtration cycle, (5) with filter tank emptied, rotating jet-spray down-washes elements clean of dirt and spent filter aid, (6) head removable without disturbing face piping, (7) light weight elements individually removable.

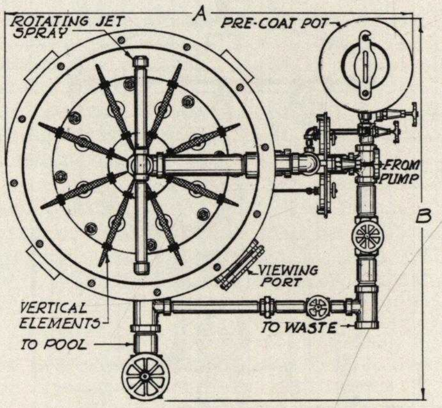
These filters utilize volcanic or diatomaceous earth as a filter aid, and may be operated with or without a constant slurry feeder. They may be installed at the pool deck elevation or below grade, depending on site conditions or preference. They are particularly adaptable as a replacement for worn out sand filters where access for bulky and heavier equipment would be costly and impractical. For gallonages larger than shown in the Chart below, multiple batteries may be used, or the Landon Diatomite Vacuum Filter may be preferable.

Complete installation and operating instructions are supplied with purchase. With the pool gallonage, the rate of flow and turnover requirements of the local and State Boards of Health known factors, see Chart below for selection of the proper size filter.

Brief Filter Specifications:

Available as assemblies only. Tank designed for a working pressure equal to the shut-off head of the pump, with a safety factor of 4. Both heads flanged and dished, the spherical radius of the dish to be equal to the diameter of the tank. Welding as specified in current edition of A.S.M.E. Code for unfired vessels. Tank heads and side sheets of high-tensile steel having a yield point of 75,000 psi, all excessive mill scale to be removed prior to finish rolling. Tank interiors coated with Lantex resilient coal tar epoxy, coating not less than .005 inches in thickness. Top head bolted to shell flange and gasketed. Filter face piping standard-weight galvanized steel; if 3" or under, connected by screw-type fittings; if 4" or over, connection shall be by means of cast iron flanges with cloth-inserted gaskets. Face piping valves 3" and under are screwed, all-bronze; 4" and over are semi-steel, flanged-type lubricated plug valves. Assembly includes multiple vertical filter elements, rectangular in shape and individually removable, septum support and frame of high impact cross-laminated corrugated plastic covered with felted synthetic fabric. Assembly also includes built-in rotating jet-spray, influent baffle, viewing port, gauges in aluminum panel with sampling cocks, automatic and manual air relief, precoat feeder with interconnecting piping and valves, Fischer & Porter Mighty I rate-of-flow indicator, bracket-mounted pump and motor unit, motors 3500 rpm, 60 cycle, 110/220 V, 1-phase through 2 HP, 220/440 V, 3-phase if 3 HP or larger, pump strainer with basket, vacuum gauge, 3 cubic foot bag of Lancomite filter aid.

NOTE: Because of job site variations, the piping between pump and tank is not included with the assembly. This piping to be supplied by installer. Motor switch not included. Order separately. 50 cycle motors available.



Top view, head removed, showing elements and rotating jet-spray.

See Chart for A and B dimensions. H dimension equals overall height of filter tank to top of air relief.

DIATOMITE PRESSURE FILTER CHART—PUBLIC POOLS

NOTE: Filter rates shown for both 2 gpm and 3 gpm per square foot of filter area. Under Pump & Motor heading, S.P. indicates Self-Priming, and Std. indicates Standard. Constant slurry feeder recommended for 100 sq. ft. and larger filters. Check local and State Board of Health codes for turnover requirements and rates.

		Catalog Number	Filter Tank Dia.	Sq. Ft. Area	Filter GPM	Filter GP/Hr.	Turnover Cap'y.		Pump & Motor HP and Type	Strainer Size	Face Piping	Precoat Tank Dia.	Dimensions			Slurry Feeder	
							6 Hour	8 Hour					A	B	H	Cat. No.	Cap'y.
FILTER RATE	2 gpm/psf	624-50	24"	25	50	3,000	18,000	24,000	1½ S.P.	2"	2"	12"	3'-11"	3'-11"	6'-6"	624SF	70 gal.
		630-100	30"	50	100	6,000	36,000	48,000	3 S.P.	3"	2½"	12"	4'-6"	4'-2"	6'-8"	624SF	70 gal.
		636-200	36"	100	200	12,000	72,000	96,000	5 Std.	4"	3"	18"	5'-4"	4'-10"	7'-0"	624SF	70 gal.
		642-300	42"	150	300	18,000	108,000	144,000	7½ Std.	4"	4"	18"	6'-5"	5'-0"	7'-6"	630SF	110 gal.
		648-400	48"	200	400	24,000	144,000	192,000	10 Std.	6"	4"	24"	7'-1"	5'-0"	7'-9"	630SF	110 gal.
		654-500	54"	250	500	30,000	180,000	240,000	15 Std.	6"	5"	24"	8'-0"	5'-8"	8'-0"	636SF	160 gal.
		660-600	60"	300	600	36,000	216,000	288,000	15 Std.	6"	5"	24"	9'-6"	5'-10"	8'-9"	636SF	160 gal.
	3 gpm/psf	624-75	24"	25	75	4,500	27,000	36,000	2 S.P.	3"	2½"	12"	4'-0"	4'-2"	6'-6"	624SF	70 gal.
		630-150	30"	50	150	9,000	54,000	72,000	5 S.P.	3"	3"	12"	4'-8"	4'-4"	6'-8"	624SF	70 gal.
		636-300	36"	100	300	18,000	108,000	144,000	7½ Std.	4"	4"	18"	5'-10"	5'-0"	7'-0"	630SF	110 gal.
		642-450	42"	150	450	27,000	162,000	216,000	10 Std.	6"	4"	18"	6'-5"	5'-0"	7'-6"	630SF	110 gal.
		648-600	48"	200	600	36,000	216,000	288,000	15 Std.	6"	5"	24"	7'-5"	5'-10"	7'-9"	636SF	160 gal.
		654-750	54"	250	750	45,000	270,000	360,000	20 Std.	6"	5"	24"	8'-0"	5'-10"	8'-0"	636SF	160 gal.
		660-900	60"	300	900	54,000	324,000	432,000	30 Std.	8"	6"	24"	9'-8"	6'-0"	8'-9"	636SF	160 gal.

LANDON DIATOMITE VACUUM FILTERS - SERIES 800

The Landon Diatomite Vacuum Filter, also accomplishing filtration at its finest, is designed for the filtration of large capacity swimming pools, large volumes of water otherwise unpotable, and has many other uses. This filter also uses volcanic or diatomaceous earth as a filter aid, and in most cases the use of a constant slurry feeder is recommended. The layout drawing on this page illustrates a single 10-element unit designed for below pool deck installation. This facilitates its use with either standard or roll-over type recirculating gutters, from which the pool water flows by gravity directly into the concrete filter tank, which also serves as a fresh water make-up tank. With an additional pump & motor unit, these filters may be installed at deck level.

A distinct advantage of the open-top vacuum diatomite filter is that the elements are at all times in full view to observe their condition. To clean the elements, the filter tank is drained by gravity, then the elements are scoured of all dirt and spent filter aid by a strong spray of fresh water. In the event filter flow is obstructed by deposits such as hardness scale, each element may be individually removed for acid washing. In addition, with these filters there is no steel tank to ship or handle, as the required concrete filter tank is constructed on the job by the contractor, who also supplies and installs all piping and valves other than the collector header included with the filter unit.

The largest filter listed in the Chart below is of more than ample capacity to filter the water content of a 75 ft. by 50 meter Olympic size pool in a 6-hour period at a filter rate of 2 gpm per sq. ft. of filter area. For larger gallonages, in order to avoid excessive sizes of piping, valves and pump units, use separate batteries of filters.

For specific applications, please supply us with complete data, including gallonage, required flow rate, turnover, and proposed use.

DIATOMITE VACUUM FILTER CHART—PUBLIC POOLS

NOTE: Filter rate based on 2 gpm per sq. ft. of filter area. Filter Catalog No. refers to filter element assembly only. Slurry Feeder Catalog No. denotes size required. Pump & Motor shown is capacity required at 40 foot head.

Filter Cat. No.	Sq. Ft. Area	Filter GPM	Filter GP/Hr.	Turnover Capacity		Motor HP & RPM	Slurry Feeder	
				6 Hour	8 Hour		Cat. No.	Cap'y
810-240	120	240	14,440	86,400	115,200	3-3500	630SF	110 gal.
820-480	240	480	28,800	172,800	230,400	7½-3500	630SF	110 gal.
830-720	360	720	43,200	259,200	345,600	15-3500	636SF	160 gal.
840-960	480	960	57,600	345,600	460,800	20-1750	636SF	160 gal.
850-1200	600	1200	72,000	432,000	576,000	20-1750	2-630SF	220 gal.
860-1440	720	1440	86,400	518,000	691,200	30-1750	2-630SF	220 gal.

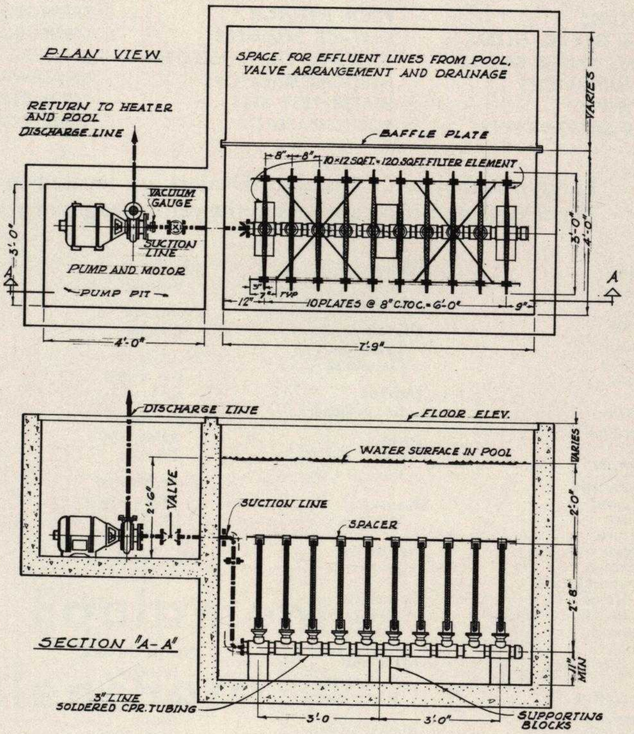
Brief Filter Specifications:

Filter Catalog Numbers include only the vertical 10-plate fabric-covered 2′ x 3′ plastic elements, with spun copper ferrules hard-soldered to a 3″ copper collector header, "O" ring seals, and copper positioning X-braces to hold the elements in alignment. Available as a single 10-element unit, or in batteries of 2, 3, 4, 5 or 6 ten-plate units. Septum plates are of acrylontrile-butadiene-styrene, ⅞″ pitch corrugations, cross-laminated, fixed at bottom with channel and outlet pipe with "O" ring seals. Filter fabric is felted synthetic of .065″ thickness, weighing 10 to 12 ounces per square yard.

Other Required Filter Equipment: (See Chart for Pump and Motor selection):

Cat No.	Item Description
1632	Pressure gauge, 4½″ dial, 0/60 lbs.
1634	Vacuum gauge, 3½″ dial
1660	Fischer & Porter Mighty I rate-of-flow indicator
1897	Pump & motor, 3 HP, 3500 rpm, 220/440 V, 3 Ø, 60 c
1899	Pump & motor, 7½ HP, 3500 rpm, 220/440 V, 3 Ø, 60 c
1900-15	Pump & motor, 15 HP, 3500 rpm, 220/440 V, 3 Ø, 60 c
1819-20	Pump & motor, 20 HP, 1750 rpm, 220/440 V, 3 Ø, 60 c
1819-30	Pump & motor, 30 HP, 1750 rpm, 220/440 V, 3 Ø, 60 c
1976	Magnetic switch, 3 HP, 220 V, 3 Ø
1978	Magnetic switch, 7½ HP, 220 V, 3 Ø
1980	Magnetic switch, 15 HP, 220 V, 3 Ø
1981	Magnetic switch, 20 HP, 220 V, 3 Ø
1983	Magnetic switch, 30 HP, 220 V, 3 Ø

Other Landon equipment, including pump & motor with strainer for vacuum cleaning, chlorinators, pool fittings, and deck equipment quoted on request, also listed in Landon General Catalog.



TYPICAL LAYOUT OF 10-ELEMENT FILTER

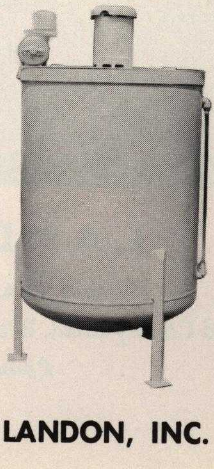
LANDON CONSTANT SLURRY FEEDERS

Brief Slurry Feeder Specifications:

Available as assemblies only. Tank of 10-gauge mild steel, interior coating Lantex, dished bottom head with drain plug, tank fitted with liquid-level gauge, four angle iron supports. Assembly includes agitator powered by 110 Volt, single phase, drip-proof motor. Also includes positive-displacement type slurry feed pump with solution hose and terminal connections.

For the continuous introduction into either pressure or vacuum type diatomite filters of filter aid in solution in order to lengthen the filtration cycle. Refer to applicable Filter Chart for proper Slurry Feeder selection. Check local and State codes for requirements.

Cat. No.	Tank	Motor	Cap'y.
624SF	24″x36″	¼ HP	70 gals.
630SF	30″x36″	¼ HP	110 gals.
636SF	36″x36″	⅓ HP	160 gals.



Blue-Lake
LANDON-EQUIPPED
POOLS

THE COLD ECONOMICS OF ONE-SOURCE BUYING...

All too often, the mere mechanics of bidding a commercial or public swimming pool job costs the owner cold cash for something he doesn't get! Whenever the products of a half dozen or more suppliers are specified, every bidder must wade through the tedious task of getting equipment prices together, and this needless *overhead* cost must be reflected in his final bid. Moreover, when even the smallest replacement part is needed, the owner must dig into stale records to find the original supplier . . . if, indeed, he is still in business. From the beginning, *this is not sound buying*. Architects, engineers and purchasing executives can perform no better service for their principals than by specifying all equipment from one manufacturer . . . one of high standing in the industry . . . one with a history of competence, stability and integrity. In all respects, Landon, Inc., is one of the few pool equipment manufacturers meeting these qualifications.

In addition to the Diatomite Filters presented herein, Landon, Inc., manufactures and distributes throughout most of the Free World a complete line of swimming pool equipment. We invite you to call or write for current catalogs.

SKIM-FILTERS
SAND & GRAVEL FILTERS
GAUGES, GAUGE PANELS
FLOW INDICATORS
DIAL VALVES
PUMP & MOTOR UNITS
POOL FITTINGS
SURFACE SKIMMERS
GASEOUS CHLORINATORS
HYPOCHLORINATORS
WATER TEST SETS
POOL HEATERS
SPRINGBOARDS
SPRINGBOARD SUPPORTS
LADDERS, RAILS
UNDERWATER LIGHTS
POOL CLEANERS
WALL BRUSHES
LEAF SKIMMERS
LIFE GUARD CHAIRS
LIFE HOOKS
LIFE BUOYS
LINE ANCHORS, HOOKS
LINE FLOATS

Landon-authorized Contractor-Dealers are located in the areas listed below.
Write us if no listing appears in the yellow pages of your area telephone book.

- Alabama
  - Mobile
- Arizona
  - Phoenix
  - Tucson
  - Yuma
- Arkansas
  - Fort Smith
- California
  - Bakersfield
  - Belmont
  - Chico
  - Fortuna
  - Fresno
  - Newman
  - Newport Beach
  - Riverside
  - Sepulveda
  - Sonoma
  - Ukiah
  - Walnut Creek
- Connecticut
  - Hartford
  - Stamford
- Florida
  - Eustis
  - Key West
  - Miami
  - Tampa
  - Winter Park
- Hawaii
  - Honolulu
  - Wailuku
- Idaho
  - Boise
  - Lewiston
- Illinois
  - Evanston
  - Galesburg
- Indiana
  - South Bend
- Iowa
  - Cedar Rapids
  - Central City
- Kansas
  - Wichita
- Kentucky
  - Louisville
- Louisiana
  - New Orleans
  - Shreveport
- Maryland
  - Baltimore
  - Silver Spring
- Massachusetts
  - Boston
- Michigan
  - Detroit
  - Flint
- Minnesota
  - Minneapolis
- Missouri
  - Kansas City
  - Springfield
- Montana
  - Billings
- Nebraska
  - Omaha
- Nevada
  - Las Vegas
  - Reno
- New Jersey
  - Allendale
  - Trenton
- New Mexico
  - Albuquerque
  - Carlsbad
  - Farmington
- New York
  - Syracuse
- North Carolina
  - Charlotte
- North Dakota
  - Bismark
- Ohio
  - Akron
  - Cincinnati
  - Cleveland
- Oklahoma
  - Oklahoma City
  - Tulsa
- Oregon
  - Klamath Falls
- Pennsylvania
  - Harrisburg
  - Huntingdon
- South Carolina
  - Columbia
- Tennessee
  - Memphis
- Texas
  - Amarillo
  - Corpus Christi
  - Dallas
  - El Paso
  - Houston
  - Lubbock
  - San Angelo
- Utah
  - Salt Lake City
- Virginia
  - Norfolk
- Washington
  - Seattle
  - Tacoma
- Wisconsin
  - Milwaukee
- Australia
  - Sydney
- Canada
  - Calgary, P.A.
  - Halifax, N.S.
  - Hamilton, P.O.
  - Montreal, P.Q.
  - Vancouver, B.C.
  - Winnipeg, P.M.
- Cuba
  - Havana
- El Salvador
  - San Salvador
- Guatamala
  - Guatamala City
- Mexico
  - Chihuahua
  - Cuernevaca
  - Guadalajara
  - Mexico City
  - Meridia
  - Monterrey
- Nicaragua
  - Managua
- Panama
  - Panama City
- Peru
  - Lima
- Puerto Rico
  - Santurce
- Venezuela
  - Caracas
- British West Indies
  - Barbados
  - Trinidad
- French West Indies
  - Martinique

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Cable Address: **LANDONPOOL**

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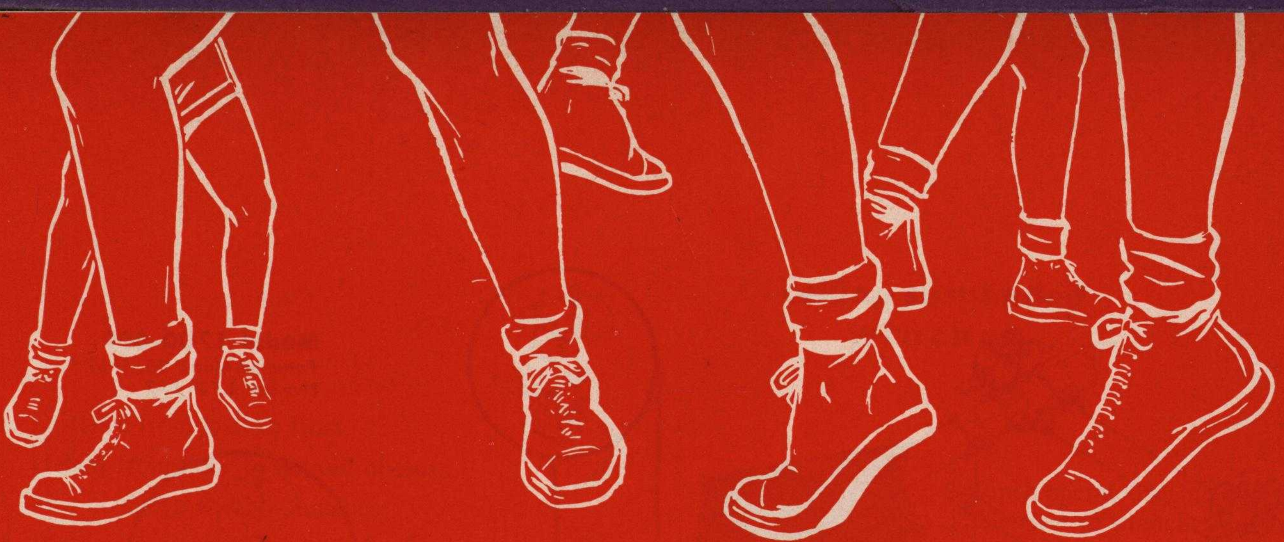
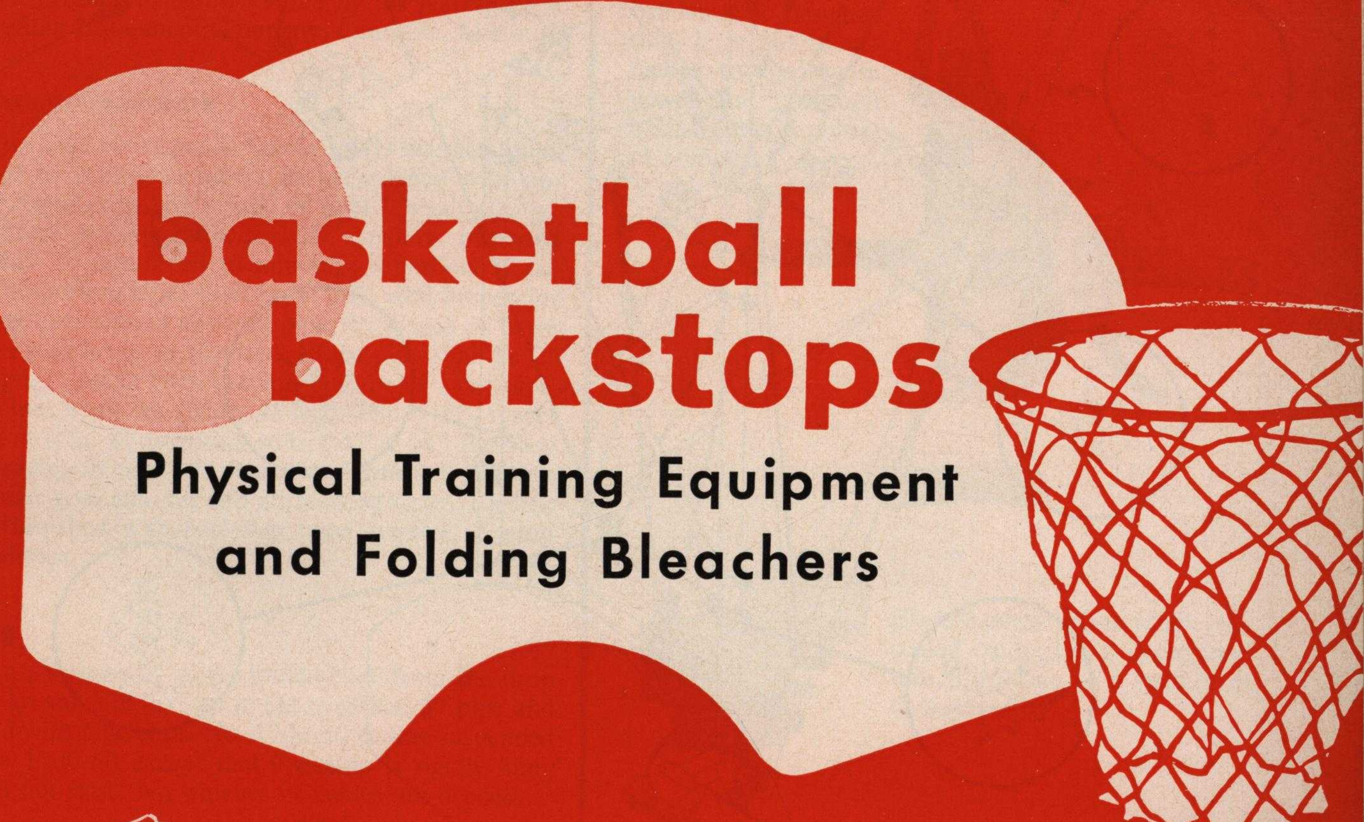


NARRAGANSETT



basketball backstops

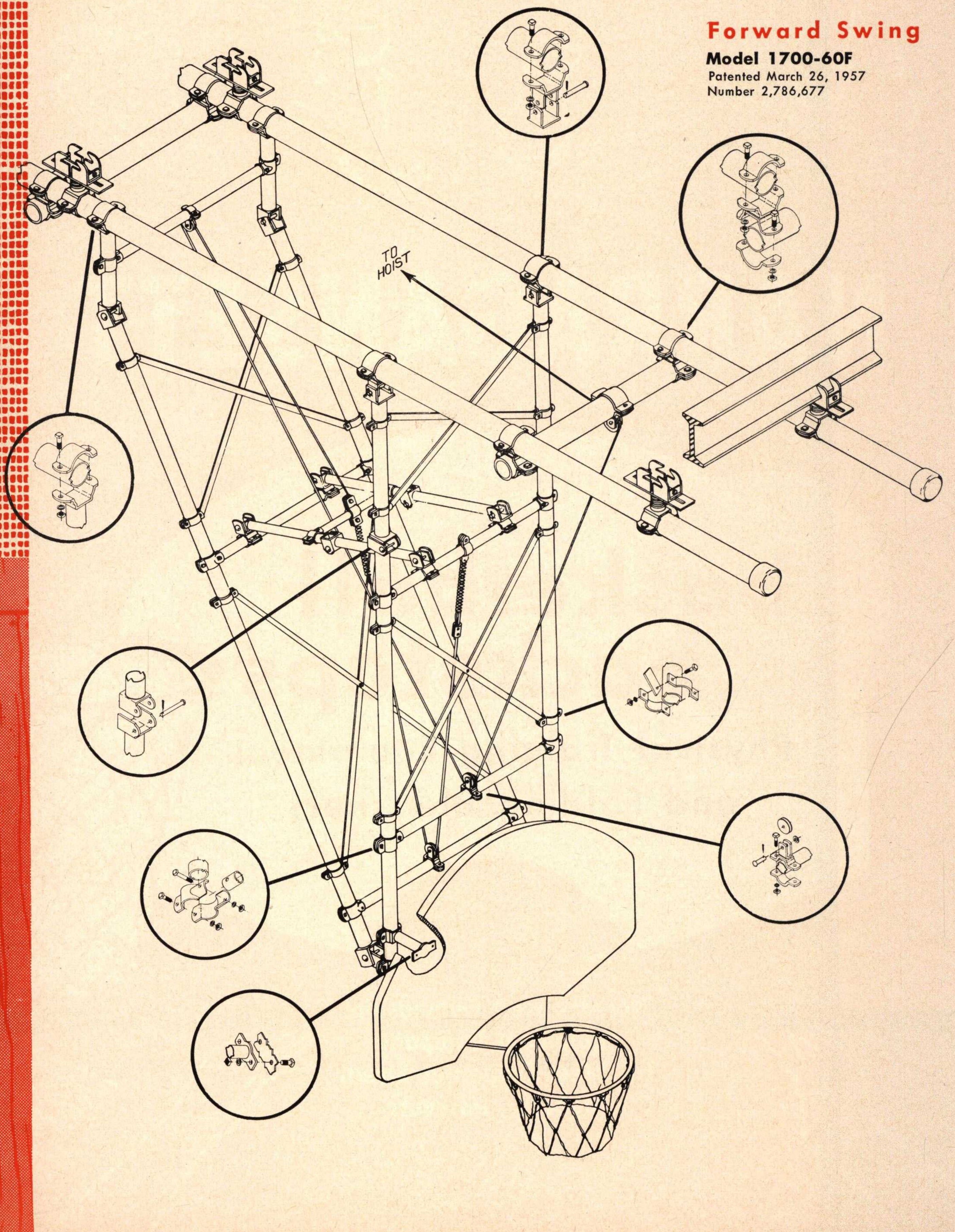
Physical Training Equipment and Folding Bleachers

Narragansett Gymnasium
Equipment Company
110 West Carpenter Street
Moberly, Missouri

Forward Swing

Model 1700-60F

Patented March 26, 1957
Number 2,786,677



NARRAGANSETT
BASKETBALL BACKSTOPS

ceiling suspended
winches

dimensions required

1. Distance from wall to truss.
2. Height from floor to bottom of truss.
3. Size of flange width—thickness.
4. If stage is present, height from floor to proscenium arch.
5. Face of bank from wall line.
6. Construction of wall or stage arch.
7. Distance from center of bank to wall on which winch is to be placed.

specifications

Ceiling Suspended Basketball Backstops shall be Model Number 1700-60 as manufactured by the Narragansett Gymnasium Equipment Company, Centralia, Missouri.

supporting framework

Backstop shall be suspended from 3″ ID overhead pipe attached to ceiling members in accordance with approved engineering, by means of steel I beam clamps. When truss spacing exceeds 16′0″ centers, overhead pipe shall be reinforced to minimize vibration. Backboard supporting pipes shall be 2″ I.D. with fittings for fastening to overhead or cross pipes by means of hinge joints or non-hinge as required. Brace pipe shall be 2″ I.D. pipe. Front to back bracing shall be of 1¼″ pipe. Drop pipes shall be rigidly braced with 1¼″ spacer pipes and shall be provided with 1¼″ x ¼″ flat steel cross bracing as required. Backstop furnished complete with bank, goal and net and all hoisting cable. Electric winch furnished with backstop upon request at additional charge.

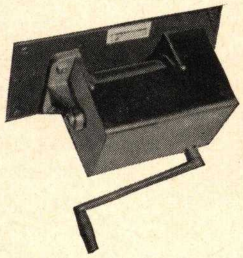
bracing

Forward Swing: 2″ pipe extends back from the drop pipe at an angle of 30° up to the overhead 3″ pipe and fastened with pipe clips. No. 1700-50 ceiling suspended same as 1700-60 except that backstop is rigidly hung and will not raise. No winches or cables are needed.

banks and goals

Refer to page 7 and insert here selected type and specifications for each. When backstop braces are already in place, new banks and goals may be attached easily. Specify the type of backstop in place *(refer to the various types shown in this catalog)*. It is necessary that information be supplied as to the type of bank (wood, steel or glass) for which the backstop is built.

winches available



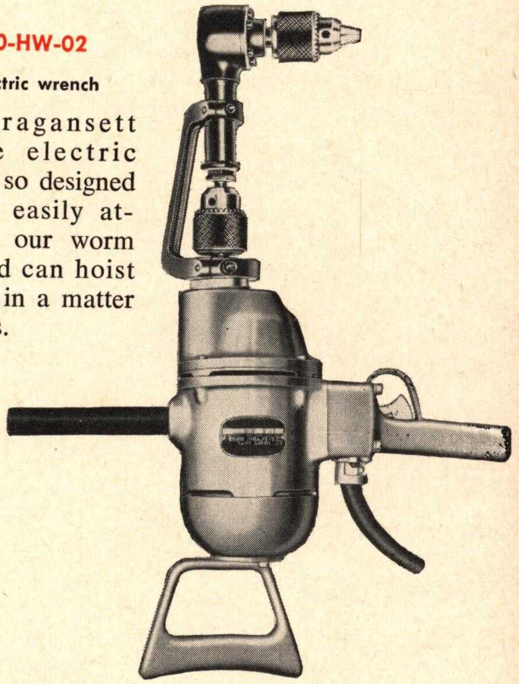
Model 1700-HW-01

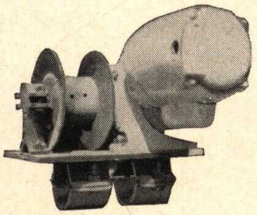
Winch operated by hand or portable electric wrench. Automatic self-locking worm gears to hold unit at any one point when lowering or raising backstops. Fully enclosed for safety. Roller type grip, removable crank.

Model 1700-HW-02

portable electric wrench

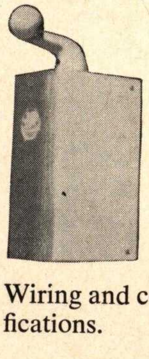
The Narragansett portable electric wrench is so designed that it is easily attached to our worm winch and can hoist backstops in a matter of minutes.





Model 1700-EW-03

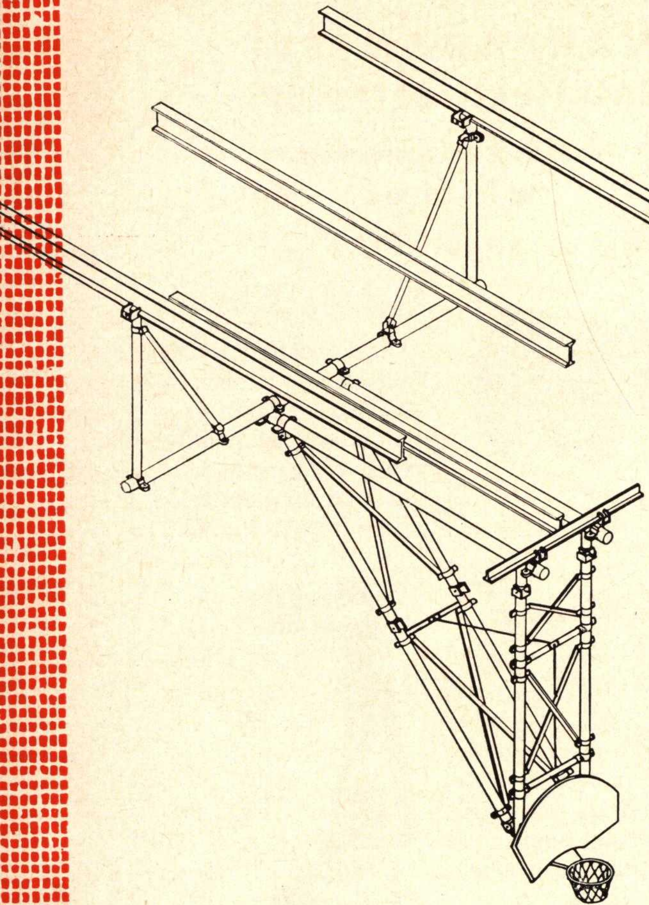
Electric power driven winch concealed on backstop superstructure. Lifts one or a battery of backstops.



Switches

Conveniently located control switch. Cover reads: lower—off—raise.

Wiring and conduit shall be called for in electrical specifications.



Backward Swing

Model 1700-13F

recommended use

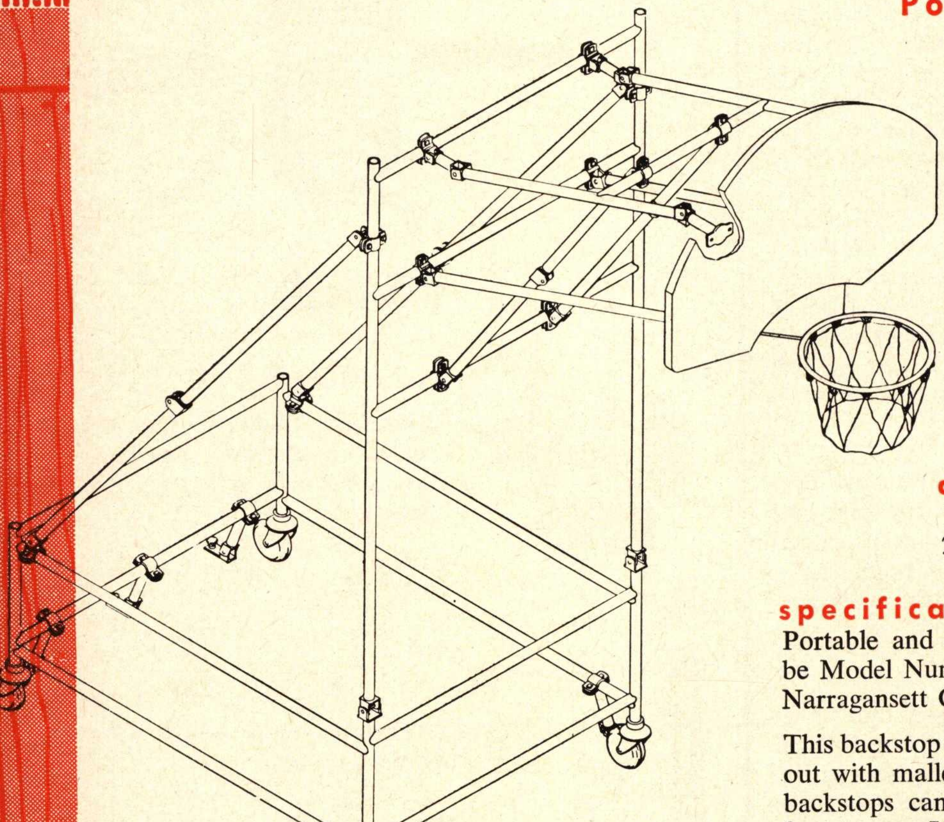
When structural conditions permit, it may be placed to serve the long major court, or the transverse minor courts. With its backward swing up action, it avoids confliction with other gymnasium activities. By the nature of its design, the action of the hoisting cable automatically "breaks" the brace joints and "jacknife" folds the braces, as the board is raised by its worm-geared winch. Thus, when raised, it presents a compact, self-contained arrangement.

dimensions required

1. Distance from wall to truss.
2. Height from floor to bottom of truss flange.
3. Size of flange—Width—Thickness.
4. Face of bank from wall line.
5. Construction of wall.
6. Distance from center of bank to wall on which winch is to be mounted.

specifications

Same as those for Model 1700-60F (refer to page 3).



Portable

Model 1700-35F

Stage Portable

Model 1700-37F

recommended use

The Narragansett Portable Model is used in auditoriums and armories where it is impractical to use any of the attached backstops. It is particularly applicable to stage front use, being fastened to the floor, strapped to the stage front, and braced to the stage floor.

dimensions required

1. Distance from floor to stage.
2. Distance from stage to face of bank.

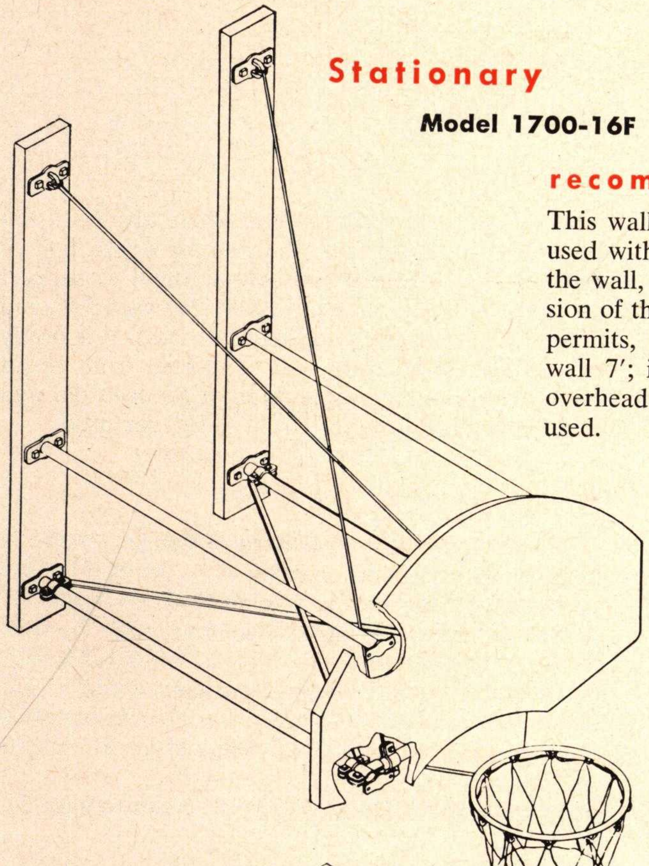
specifications

Portable and Stage-braced Basketball Backstops shall be Model Number.......... as manufactured by the Narragansett Gymnasium Equipment Company.

This backstop shall be constructed of 1¼″ pipe throughout with malleable iron hinges in such a manner that backstops can be completely folded and rolled away for storage. It shall roll into position on rubber tired casters and lock into position by means of flush floor plates and hand locking screws. The backstop shall be furnished complete with bank, goal, and net.

NARRAGANSETT BASKETBALL BACKSTOPS

ceiling – portable – wall



Stationary

Model 1700-16F

recommended use

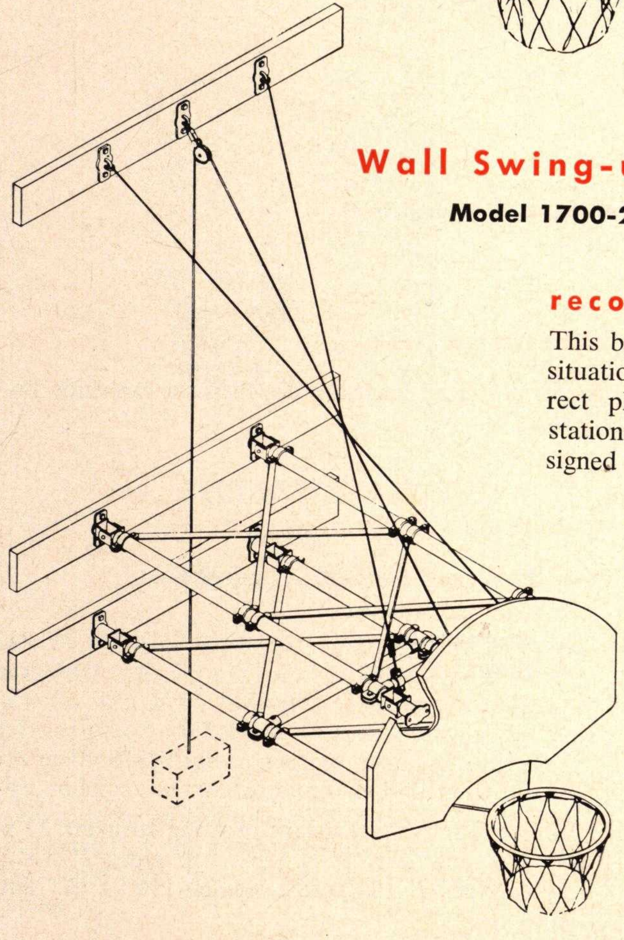
This wall supported backstop conforms to official rules and may be used without reserve for actual play. It is braced out 5′ or 7′ from the wall, allowing for 3′ space outside the court plus 2′ or 4′ extension of the backstop into the playing area. Where size of playing area permits, backstops of this type may be used braced out from the wall 7′; it is recommended that, when the distance exceeds 7′, an overhead suspension type of backstop similar to the #1700-15 be used.

dimensions required

1. Distance from face of bank to wall.
2. Wall construction.
3. Complete measurements of any offsets or projections of the wall affecting the placement of the backstop.

specifications

#1700-16F—Shall consist of two 2″ x 8″ x 6′ wood stringers, four 1¼″ I.D. brace pipes attached with malleable iron castings, 1¼″ brace pipes supported by ¼″ steel guy cables with turnbuckles. 1¼″ x ¼″ F.M.S. steel braces crossed to prevent side sway. Generally used where backstop can be hung up to 7′ extension from wall.



Wall Swing-up

Model 1700-20F

recommended use

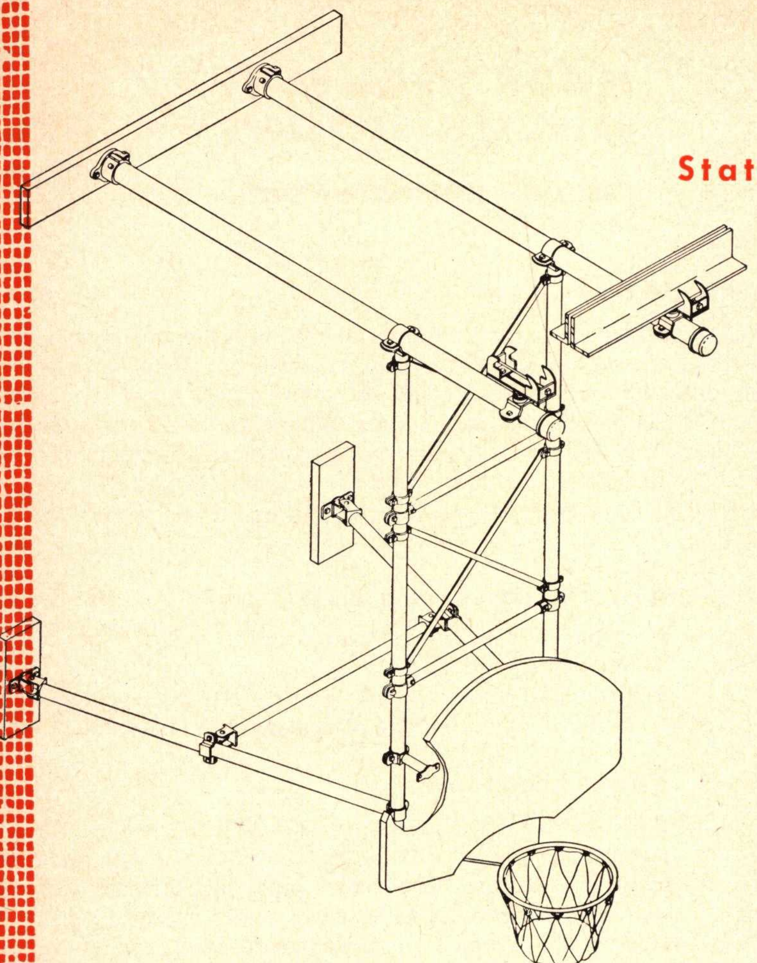
This backstop is braced from the wall but can be swung up as the situation warrants. In many cases, the wall braced type meets correct playing conditions, but projects into the room so that, if stationary, it interferes with other activities. This backstop is designed expressly to provide this flexibility.

dimensions required

1. Distance from face of bank to wall.
2. Wall construction.
3. Wall obstructions, if any.

specifications

#1700-20F—Shall consist of brace pipe 1¼″ I.D. attached with hinge fittings to wall pads and the bank. Horizontal pads to be on 2″ x 8″ x 6′ complete with hardware for attachment. Brace pipes crossed braced with 1¼″ x ¼″ flat mild steel. Backstop shall be hoisted to wall by means of worm geared winch and ¼″ preformed steel cable.



Stationary

Model 1700-15F

recommended use

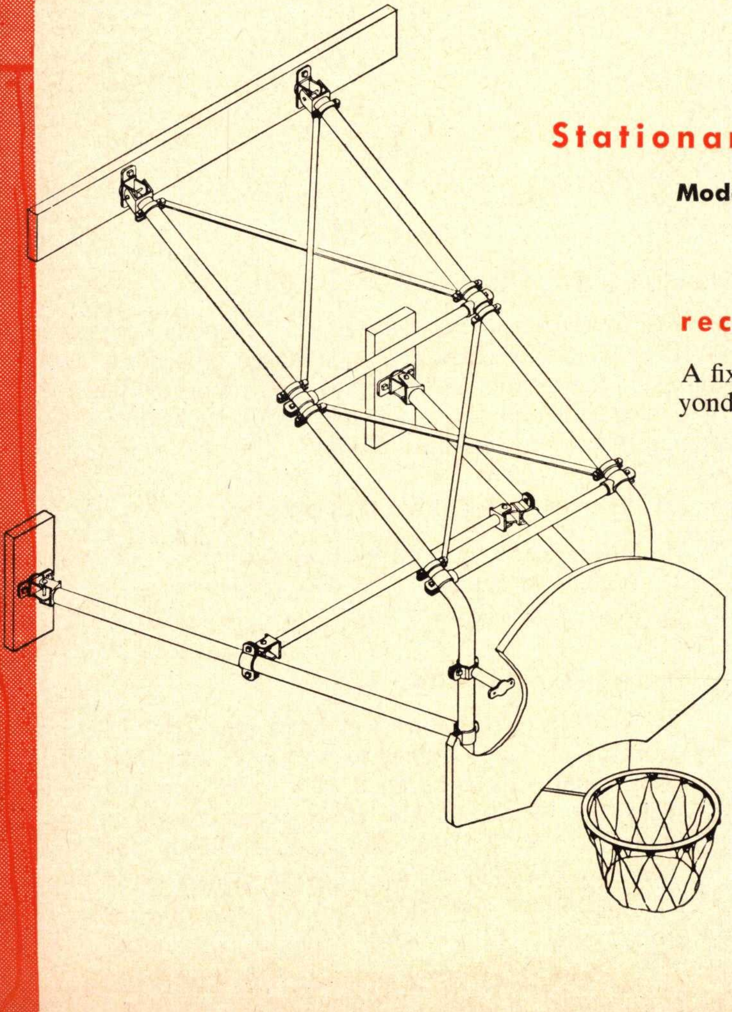
This is an ideal type for use where the backstop must extend far out from the wall, or where wall or balcony face is not of sufficient strength to support alone the ordinary backstop strain. Between 5 ft. and 7 ft., this suspended style should be used. It is firmly braced against the wall, but supported from above on 3″ overhead pipe supports hung between the wall and the nearest girder, or from the girder itself.

dimensions required

1. Height from floor to bottom of flange.
2. Distance from wall to truss.
3. Distance from wall to face of bank.
4. Size of flange—Width—Thickness.
5. Wall construction.
6. Height of closed ceiling, if present.

specifications

Same as those for Model 1700-60F (refer to page 3).



Stationary

Model 1700-15F (modified)

recommended use

A fixed type wall braced backstop designed for extension beyond 7′ up to 12′.

dimensions required

1. Distance from wall to face of bank.
2. Wall construction.
3. Wall obstructions.
4. Height of wall.

specifications

Attached to wall by means of wood stringers 2″ x 8″ x 6′ and 2″ x 8″ x 20″. Top pipes 2″ I.D.; brace pipes 2″ I.D.; cross bracing 1¼″ x ¼″ flat mild steel.

NARRAGANSETT BASKETBALL BACKSTOPS

ceiling – wall banks and goals

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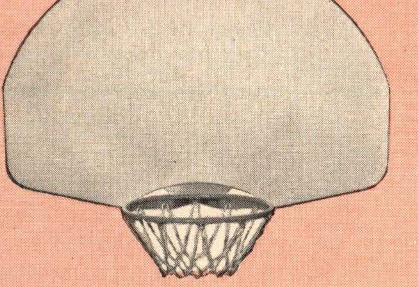
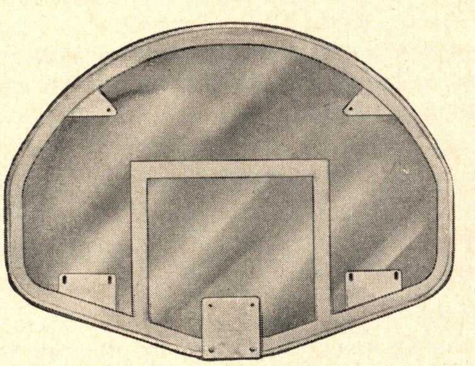


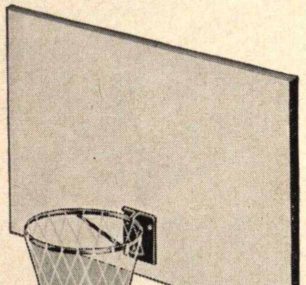
FAN SHAPED
model 1700-30F
steel bank

Fan shaped all steel bank with face drawn from one piece #12 gauge rolled steel. A flange 1½″ wide will completely surround the face and be free of projections or sharp edges. Bracing of the face shall be reinforced channel assembled and arc welded to rear of face. Attachment plates shall have ½″ slots for adjustment. Finish will consist of a prime coat and two coats of white eggshell enamel.



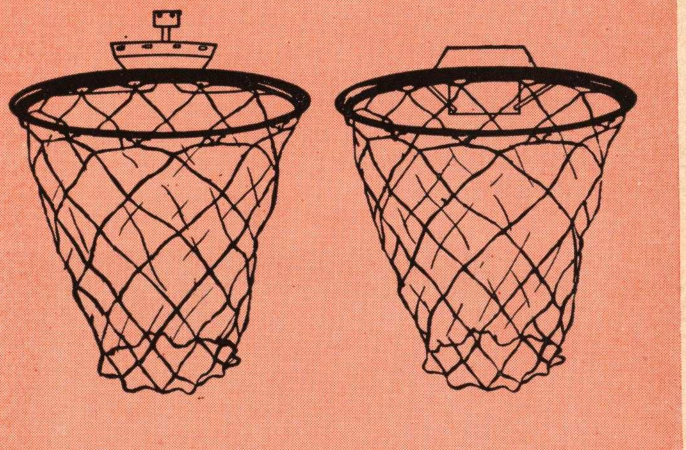
FAN SHAPED or RECTANGULAR
glass bank

Glass—⅜″ Herculite, the tempered glass that is four to five times stronger than ordinary glass of the same thickness. The edges and holes in the glass are completely protected. The frame is specially designed steel with rust preventive zinc chromate. Light grey frame is flush with glass face, leaving no projections to interfere with play.



RECTANGULAR
wood
model 1700-30

Face of the bank shall be ½″ five-ply fir plywood reinforced with 2″ x 5″ fir framework, building the back up to a 2⅛″ thickness. Two pieces of 2 x 5 and two pieces of 2 x 2½ fir reinforced by the tennon method and interspaced to insure true rebound. This panel is surrounded by moulding neatly mitered at all corners, glued and nailed to the panel. The entire surface of the bank shall be finished with one plain coat and two finish coats eggshell white enamel.



Official Goal for Fanbanks (left)—Goal shall be designed to fasten to the bottom and rear of the bank and secured by four ⅜″ x 1″ machine bolts. The ring will be of ⅝″ diameter C.R.S., two braces of ¼″ x 1″ flat stock, bracket of ³⁄₁₆″ x 6″ strip steel for good fastening. Orange color.

Standard Goal for Wood Banks (right)—Goal shall be designed to fasten through the face of the bank and secured by four ⅜″ x 2½″ machine bolts. Make up of the goal is the same as that of the official goal. Net of seine twine and regulation size secured to ring by "no-tie" clips.

Accessories

hand and end rails

When required, removable hand and end rails are supplied for use at the exposed ends of the seats. These rails are so constructed that they can be put in place easily by slipping their posts into steel sockets. When removed, they can be folded and stored upon a footboard of the unit before closing it.

end panels

End closure panels are for covering the exposed ends of the seats when in closed position. The plywood end panels are permanently attached in place and are finished in natural wood finish.

rear seat filler boards

When the location of pilasters or other obstructions makes it necessary to install the top seat 5″ or more away from the wall, filler boards, permanently installed level with the top seat, can be supplied to close the space for safety reasons.

scorer's table

Scorer's table furnished optional.

aisles

Aisles furnished optional.

grilles

Ventilating grilles can be furnished optional if required for ventilation.

removable seat and foot boards

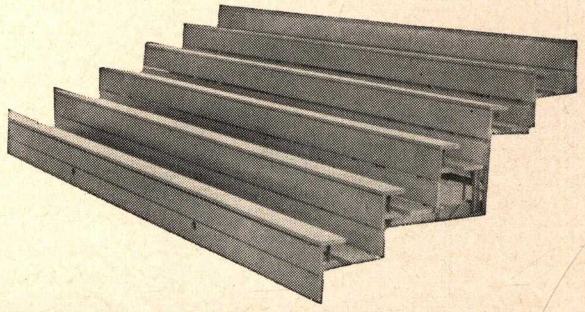
Removable seat and foot boards supplied, if desired, for obstruction in wall or for folding partitions to pass through when space does not exceed 5′0″ between seats. Removable seat and foot boards are set in place after seats are extended and removed before seats are closed. Removable boards can be stored on foot boards before units are closed.

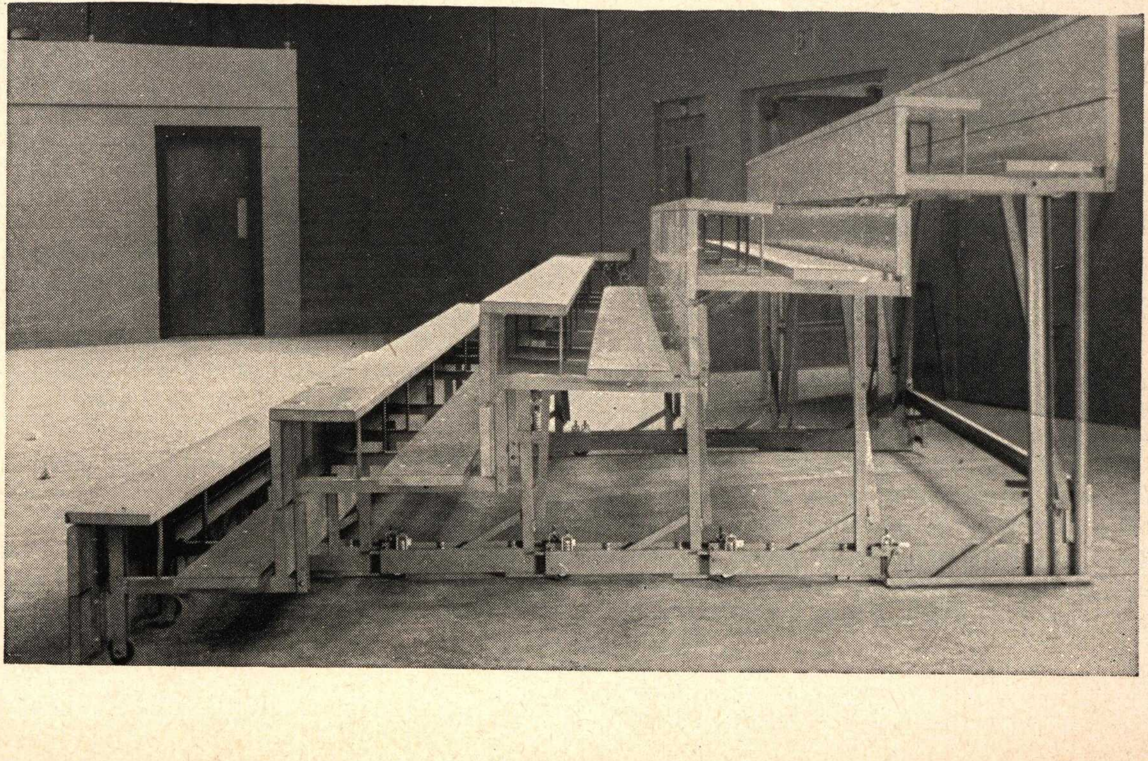
Table of Sizes

22″ depth—10¼″ rise per row

Number of Rows	Depth		Height
	Open	Closed	
3	4′- 9″	2′-11″	3′- 1½″
4	6′- 7″	2′-11″	3′-11¾″
5	8′- 5″	2′-11″	4′-10″
6	10′- 3″	2′-11″	5′- 8¼″
7	12′- 1″	2′-11″	6′- 6½″
8	13′-11″	2′-11″	7′- 4¾″
9	15′- 9″	2′-11″	8′- 3″
10	17′- 7″	2′-11″	9′- 1¼″
11	19′- 5″	2′-11″	9′-11½″
12	21′- 3″	2′-11″	10′- 9¾″
13	23′- 1″	2′-11″	11′- 8″
14	24′-11″	2′-11″	12′- 6¼″
15	26′- 9″	4′-11″	13′-4½″
16	28′- 7″	4′-11″	14′- 2¾″
17	30′- 5″	4′-11″	15′- 1″
18	32′- 3″	4′-11″	15′-11¼″
19	34′- 1″	4′-11″	16′- 9½″
20	35′-11″	4′-11″	17′- 7¾″
21	37′- 9″	4′-11″	18′- 6″
22	39′- 7″	4′-11″	19′- 4¼″
23	41′- 5″	4′-11″	20′- 2½″

Depth dimension includes 3″ between seat board and wall.





folding bleachers

Specifications

general scope

All folding bleachers shall be as manufactured by the Narragansett Gymnasium Equipment Company, Centralia, Missouri, or equal as approved by the architect or owner.

warranty

Folding bleachers shall be guaranteed by the manufacturer against defects in material and workmanship for a period of one (1) year from date of installation.

quantity

All equipment shall be delivered and installed in good condition under the supervision of a factory-trained engineer.

design

Steel understructure parts for folding bleachers shall be designed to safely support when in use and in addition to their own weight a live load of 120 pounds per lineal foot of seat and foot board. Steel structural strength and stresses must conform to A.S.A. specifications. Stresses in wood shall be as those recommended by the U. S. Forest Products Laboratory.

construction

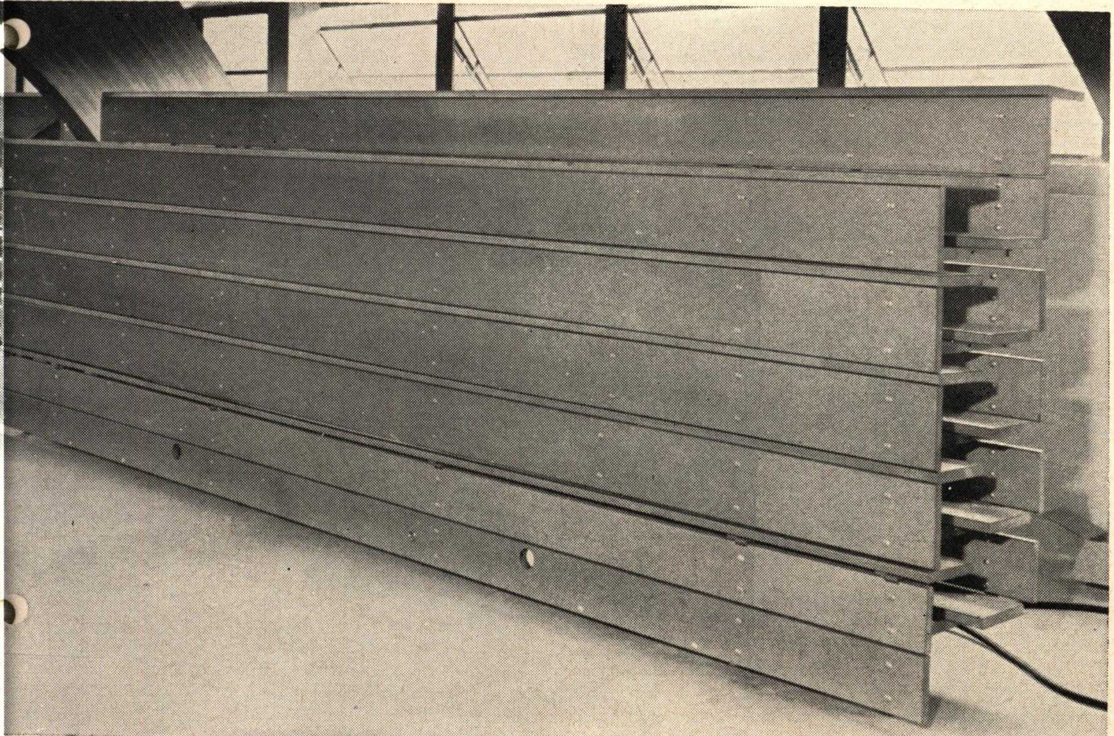
Each unit shall consist of steel understructure, columns, foot boards, seat boards, and vertical riser boards to form one complete assembly; each column except rear column shall be equipped with two (2) 3″ diameter, NO MAR rubber wheels. Rear column to be fastened stationary to wall and floor with proper hardware as appropriate wall and floor conditions permit. To transmit live load directly to the floor, the column shall establish contact with the floor. The front seat shall lock automatically by lever action by the weight of the front riser board; each unit equipped with yale lock and key to lock bleachers in open and closed position. Each row of seats starting from the front seat shall be so designed to pull completely out for seating position before the next row starts from its closed position. Rise per row 10¼″, depth per row 22″, height per seat 17″.

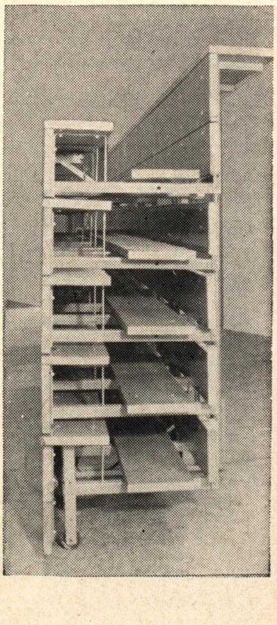
boards

Foot, seat and riser boards shall be of best grade clear lumber of solid or glued laminated boards; finished size shall be 1¼″ x 9″ for seat and foot boards, 1¼″ x 7″ for riser boards with edges and ends beveled and sanded smooth. Foot, seat and riser boards shall be surfaced both sides with an ⅛″ thick, 4500 lbs., P.S.I. (to prevent splinters) average tensile strength, industrial WEYTEX hardboard as manufactured by WEYERHAUSER.

finish

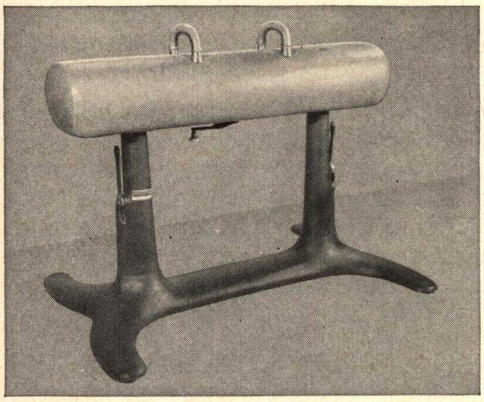
All steel parts shall be finished in gray, school brown or black enamel as chosen by architect or owner. All wood parts and WEYTEX shall be sanded and finished sprayed with two (2) coats of hot lacquer after sealing all surface against moisture. Exposed carriage bolt heads in seat, foot, and riser boards shall be CADMIUM plated.





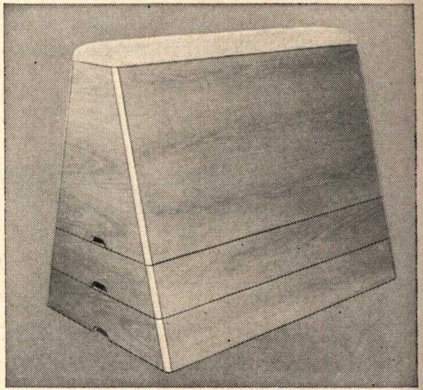
physical training equipment

Items on pages 10 and 11 illustrate the most popular types of equipment of our manufacture. For any item not listed please contact the factory.

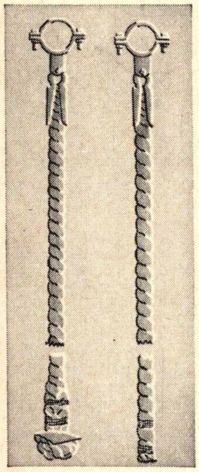


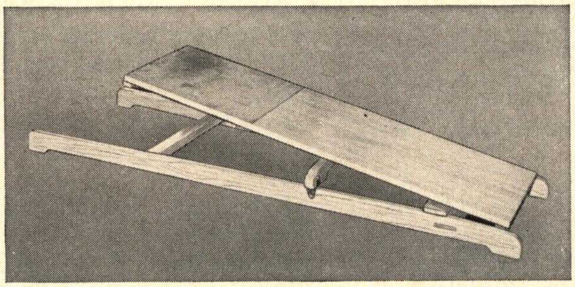
standard horse—no. 600
For gymnasium and physical education centers, the standard horse is one of the basic apparatus used in physical development.

standard buck—no. 620
The large base with its weight low makes a particularly stable support for the adjustable buck.



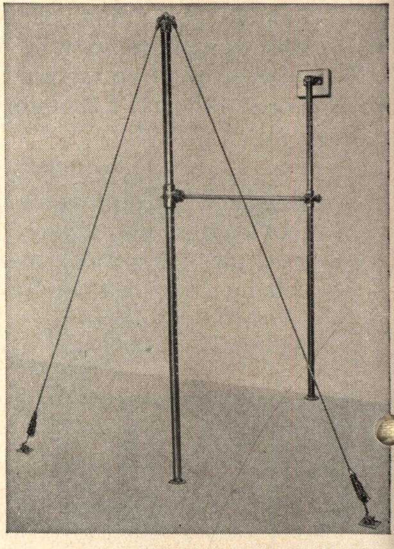
vaulting box—no. 900
Made of light, strong wood with three lifts for adjustment of height. Top lift padded with hair felt, and covered with best grade leather reversed to give permanent non-slip surface. Top lift is 33" high and each of the two under lifts 8"; total height, 49".



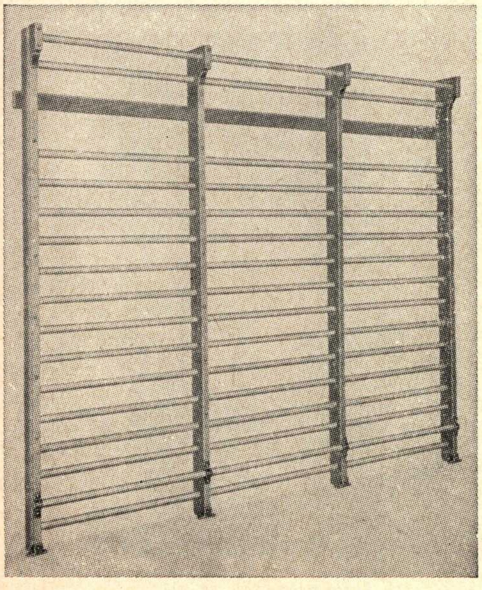


inclined spring board—no. 649
Made of New England ash. It is light and can easily be moved, yet stands firm without fastening. Rubber shod and covered with cork carpet on upper end.

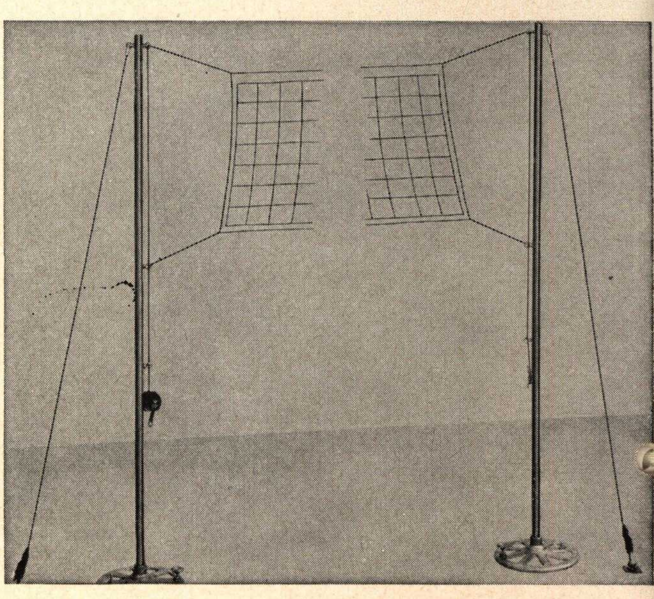
climbing ropes—no. 550 and no. 551
Manila ropes are designed for durability, correct size and safety. Knot is leather covered. Made of best grade pure manila or cotton rope.



horizontal bar—no. 376A
Permanently attached to side wall. Can be folded flush when not in use. Safety clamping sleeve holds bar in any position for vaulting.



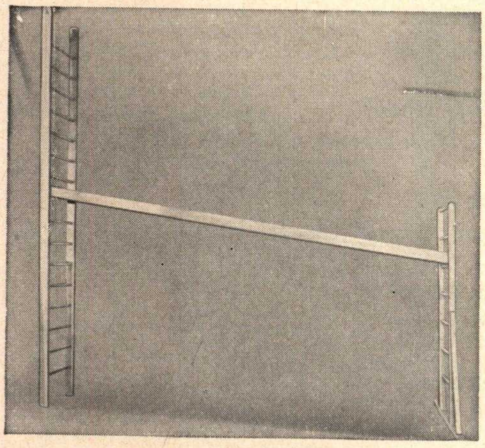
stall bar—no. 920
Swedish stall bars in three foot sections are made of fine hardwood. Order by number of sections desired.



volleyball standards no. 1729-11
Combination volleyball, tennis and Badminton standards (all steel) with guys, floor plates and reel.

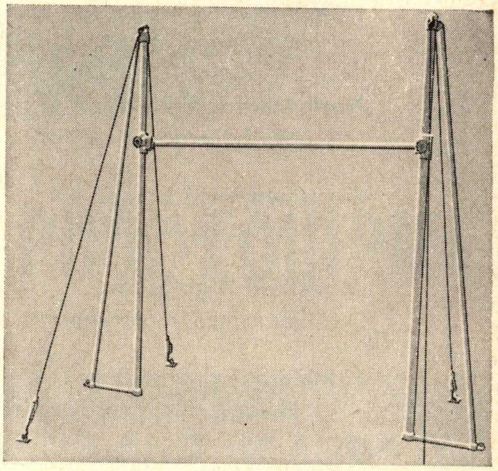
NARRAGANSETT
GYMNASIUM EQUIPMENT

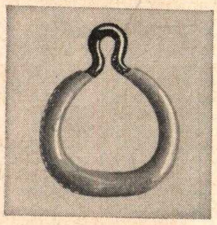
miscellaneous



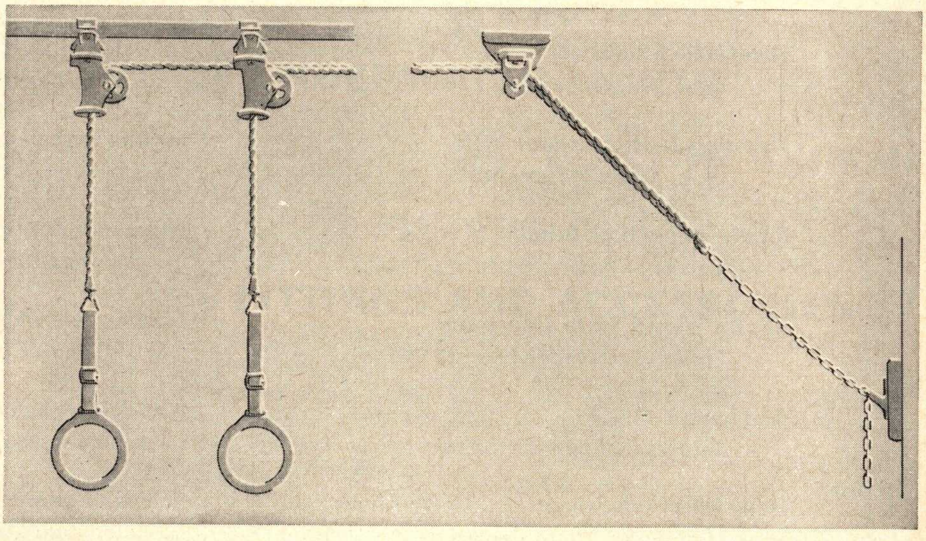
adjustable ladder—no. 813
Adjustable ladder including foot ladder.

horizontal bar—no. 378A
This bar can be quickly put up or taken down. Does not occupy much floor space and it is very rigid, the uprights being held firm by braces.



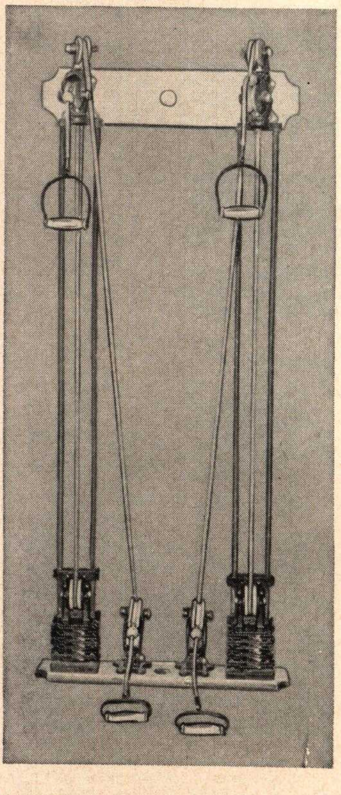


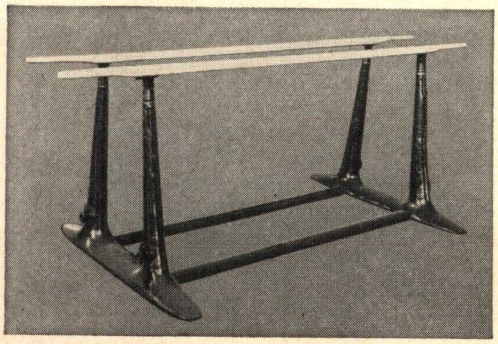
traveling ring—no. 700
Leather covered metal ring.



adjustable flying rings—no. 725
May be lowered to floor and used as swing, or hoisted to ceiling. The pivot blocks in which the ropes swing are bell mounted.

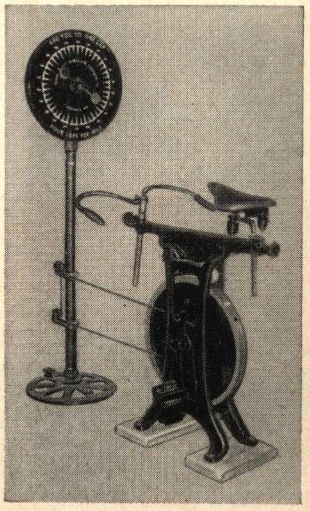
chest weight—no. 265
Used in many homes and gymnasiums, this is one of the most popular pieces of equipment. It is noiseless and self lubricating.





parallel bar—no. 838
This bar insures rigidity and security. It is necessary for all complete gymnastic equipment. Adjustable for both height and width.

bicycle trainer—no. 330
For interest value and excellent exercise, this bicycle trainer is suited particularly to the complete gymnasium.



Narragansett installations

North Bellemore High School
North Bellemore, New York

North Merrick High School
North Merrick, New York

Levittown High School
Levittown, New York

Mansfield High School
Mansfield, Massachusetts

Frankford High School
Philadelphia, Pennsylvania

Holyoke Street School
Lynn, Massachusetts

Silver Lake School
Lynn, Massachusetts

Pickering Jr. High School
Lynn, Massachusetts

Sandy Valley High School
Canton, Ohio

Rhode Island State University
Providence, Rhode Island

Anderson Y.M.C.A.
Anderson, South Carolina

Holly Hills High School
Holly Hills, North Carolina

Harvey Bolich Jr. High School
Cuyahoga Falls, Ohio

St. John the Evangelist School
Plaquemine, Louisiana

Y.M.C.A.
New Orleans, Louisiana

Clayton High School
Clayton, Missouri

St. Vincent's High School
Perryville, Missouri

Cornell College
Mt. Vernon, Iowa

Deer Park High School
Deer Park, Texas

Arizona State College
Tempe, Arizona

Pittsburg High School
Pittsburg, California

Long Beach State College
Long Beach, California

Eugene High School
Eugene, Oregon

Independence High School
Independence, Iowa

Lindbergh High School
St. Louis County, Missouri

Natick High School
Natick, Massachusetts

Sullivan County High School
Sullivan County, Tennessee

New York Public Schools
New York City, New York

Edward L. Constance High School
Miami, Florida

A & M College of Texas
College Station, Texas

Narragansett Gymnasium Equipment Company
110 West Carpenter Street
Moberly, Missouri

Thousands of commercial, public and municipal pools in the United States as well as in many countries throughout the world are PARAGON-equipped.

PARAGON diving stands, boards, ladders and other deck equipment, as well as underwater lights, built-in skimmers and precision-engineered fittings and accessories, help provide the utmost in safe, sanitary, luxurious pool enjoyment.

PARAGON

SWIMMING POOL EQUIPMENT

DIVING STANDS AND BOARDS
LADDERS
UNDERWATER LIGHTS
BUILT-IN SKIMMERS
FILTERS
FITTINGS AND ACCESSORIES

ALGIER'S MOTEL, Detroit, Mich.
ANNAPOLIS COUNTRY CLUB, Annapolis, Md.
ANCHOR MOTEL, Nashville, Tenn.
ANDERSON COUNTY RECREATION CENTER, Lawrenceburg, Ky.
ASHBOURNE HILLS SWIM CLUB, Wilmington, Del.
ASHBROOK SWIM CLUB, Clark Twp., N. J.
BALTIMORE COUNTRY CLUB, Baltimore, Md.
CITY OF BAXTER SPRINGS, Kan.
JOHN BRYEN STATE PARK, Yellow Springs, Ohio
BUFFALO STATE TEACHERS COLLEGE, Buffalo, N. Y.
CAMDEN MUNICIPAL POOL, Camden, Tenn.
CAMP DITMER, Phelps, N. Y.
CAMP HADER, Clinton, Conn.
CARAVAN MOTEL, White Plains, Md.
CARIBE MOTEL, Atlantic City, N. J.
CARIOCA MOTEL, Rochester, N. Y.
CARIBBEAN MOTEL, Wildwood Crest, N. J.
CAVALIER MOTEL, Aberdeen, Md.
CHAGRIN VALLEY COUNTRY CLUB, Cleveland, Ohio
CONCORD HOTEL, Kiamesha Lake, N. Y.
CONGRESSIONAL COUNTRY CLUB, Mt. Kisco, N. Y.
DI LIDO MOTEL, Wildwood Crest, N. J.
EDEN ROC MOTEL, Wildwood Crest, N. J.
THE ELWYN TRAINING SCHOOL, Media, Pa.
FORT GEORGE G. MEADE, Maryland
FRATERNIDAD NU SIGMA BETA, Santurce, Puerto Rico
JOHN FUHERER SWIMMING POOLS, Mansfield, Ohio
GEORGEANN MOTEL, Wildwood Crest, N. J.
THE GRATIOT INN, Port Huron, Mich.
HAVERFORD FACULTY SWIM CLUB, Haverford College, Haverford, Pa.
HAYLOFT MOTEL, South Salem, N. Y.
HIGHLAND GOLF CLUB, Ft. Thomas, Ky.
CITY OF JOPLIN, Joplin, Mo.
KAUFFMAN & BROAD, Farmington Twp., Mich.
KENNY'S MOTEL, Jamestown, N. D.
KNOLLWOOD SWIMMING CLUB, Webster, N.Y.
CITY OF LANDIS, N. C.
LAWRENCEBURG COUNTRY CLUB, Lawrenceburg, Tenn.
LINCOLN MOTEL, Wildwood, N. J.
LOCUST HILL COUNTRY CLUB, Pittsford, N. Y.
MIAMI COUNTRY CLUB, Miami, Okla.
MONROE COUNTRY CLUB, Monroe, Mich.
MOUNT KISCO COUNTRY CLUB, Bethesda, Md.
MOUNT WASHINGTON APARTMENTS, Baltimore, Md.
CITY PARKS OF NASHVILLE, Nashville, Tenn.
NAVAL AIR STATION, Virginia Beach, Va.
OAK LANE MANOR SWIM CLUB, Wilmington, Del.
CITY OF OAK PARK, Mich.
OFFICERS OPEN MESS, Aberdeen Proving Grounds, Md.
PENFIELD SWIMMING CLUB, Webster, N. Y.
PERINTON DAY CAMP, Perinton, N. Y.
RADNER SWIM CLUB, Wilmington, Del.
RIO MOTEL, Wildwood, N. J.
RIVIERA SWIM & CABANA CLUB, Baltimore, Md.
ROCHESTER ROTARY SUNSHINE CAMPS, Rochester, N. Y.
SAXON WOODS SWIMMING POOL, Westchester County, N. Y.
SHAKER SWIM CLUB, Cleveland, Ohio
PAUL SMITH RESORT, Hendersonville, Tenn.
STRATFORD VILLA APARTMENTS, Oak Park, Mich.
SWAN CREEK COUNTRY CLUB, Havre de Grace, Md.
TOPEKA LODGE, Stone Harbor, N. J.
TRADE WINDS, Antigua, British West Indies
TRAILS END RESORT, Kentucky Lake, Waverly, Tenn.
VALLEY FORGE ARMY HOSPITAL, Phoenixville, Pa.
WAYNE COUNTY RECREATION CLUB, Lyons, N. Y.
CITY OF WEBB CITY, Mo.
WHITE SLED MOTEL, Saranac, N. Y.
WINDORF MANOR APARTMENTS, Roseville, Mich.
WRIGHT PATTERSON AIR BASE, Dayton, Ohio

PARAGON SWIMMING POOL CO., INC., manufactures more than 400 products for building, maintaining and improving all types of swimming pools.

The company has gained wide recognition among architects and engineers engaged in the planning and design of public, commercial and municipal pools. Specifying "PARAGON" represents an assurance of highest quality and dependable trouble-free service.

PARAGON's large, up-to-date manufacturing facilities are located in Pleasantville, N. Y. Huge warehouse stocks of all standard items are constantly maintained, ready for immediate shipment. The PARAGON Technical Department, staffed with trained engineers and technicians, is always ready to assist the architect in his selection of standard or custom-designed pool equipment to meet specific requirements.

PARAGON AUTHORIZED DISTRIBUTORS

PARAGON's Authorized Distributors, located throughout the United States, can provide the fastest delivery and most efficient service on all products. The names of local distributors are listed in the Yellow Pages Classified Telephone Directory under "PARAGON SWIMMING POOL PRODUCTS." Where there is no listing in an area, the PARAGON home office at Pleasantville, N. Y., should be contacted for the name of the nearest distributor.

ADVISORY SERVICE

Your questions and inquiries are welcomed — and answered promptly. Our Technical Department is always at your service for all problems relating to pool equipment.

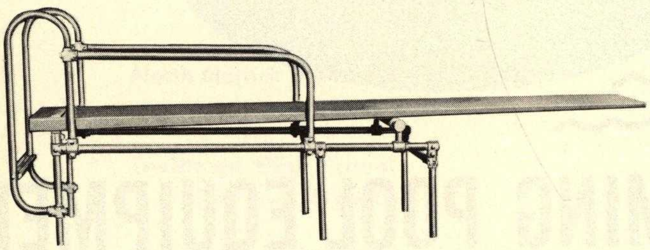
PARAGON *Swimming Pool Co. inc.*

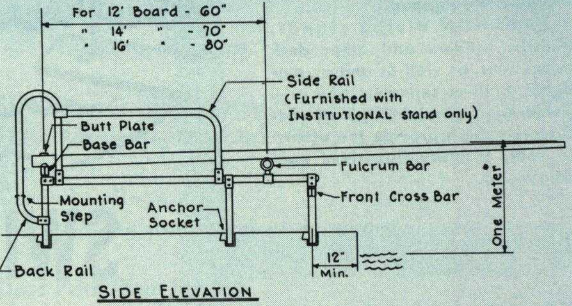
12 PAULDING STREET, PLEASANTVILLE, N. Y.
ROgers 9-6221

DIVING STANDS

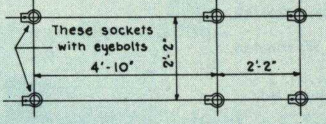
MEET ALL NCAA AND AAU SPECIFICATIONS

ONE-METER DIVING STANDS




For 12' Board - 60"
" 14' " - 70"
" 16' " - 80"
Side Rail (Furnished with INSTITUTIONAL stand only)
Butt Plate
Base Bar
Fulcrum Bar
Front Cross Bar
One Meter
Mounting Step
Anchor Socket
12" Min.
Back Rail

SIDE ELEVATION


These sockets with eyebolts
4'-10"
2'-2"
2'-2"

LOCATION OF ANCHOR SOCKETS

institutional diving stand (as pictured)

Ultimate in strength and performance. Furnished with back rails and step for easy mounting, and side rails for safety. Butt plate, board anchor bolts and fulcrum cover furnished. Anchor sockets furnished with galvanized stand; to be ordered separately for chrome or stainless models. Order escutcheon plates separately for all models. Diving board not included.

CHROME	C-92-C
GALVANIZED	B-92-G
STAINLESS	C-92-S

club diving stand

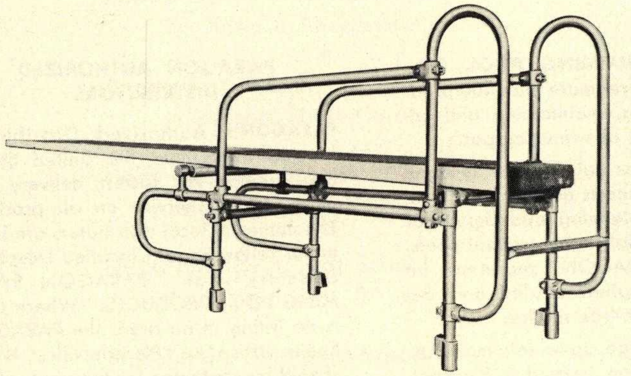
Same as Institutional stand but with no side rails.

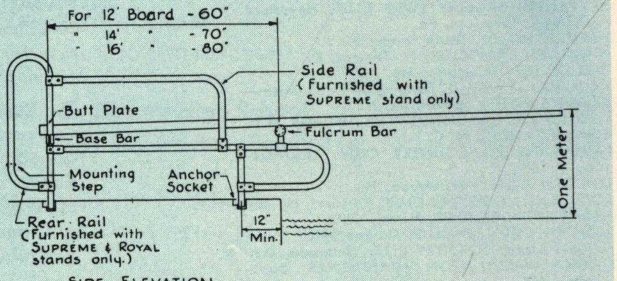
CHROME	C-91-C
GALVANIZED	B-91-G
STAINLESS	C-91-S

sturdee diving stand

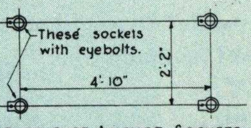
Same as Institutional stand but with no side rails, back rails or step.

CHROME	C-90-C
GALVANIZED	B-90-G
STAINLESS	C-90-S




For 12' Board - 60"
" 14' " - 70"
" 16' " - 80"
Side Rail (Furnished with SUPREME stand only)
Butt Plate
Base Bar
Fulcrum Bar
One Meter
Mounting Step
Anchor Socket
12" Min.
Rear Rail (Furnished with SUPREME & ROYAL stands only.)

SIDE ELEVATION


These sockets with eyebolts.
4'-10"
2'-2"

SPACING OF ANCHOR SOCKETS

supreme diving stand (as pictured)

Recommended for pools with limited deck area. Cantilever design gives graceful appearance. Exceptionally strong and durable. Furnished with back rails and step for easy mounting, and side rails for safety. Butt plate, board anchor bolts and fulcrum cover furnished. Anchor sockets furnished with galvanized stand; to be ordered separately for chrome or stainless models. Order escutcheon plates separately for all models. Diving board not included.

CHROME	C-105-C
GALVANIZED	B-105-G
STAINLESS	C-105-S

royal diving stand

Same as Supreme stand but with no side rails.

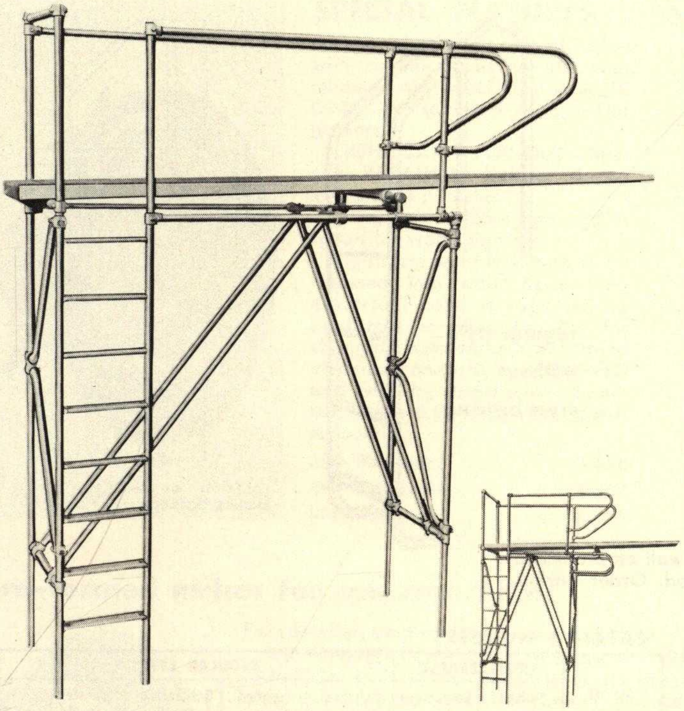
CHROME	C-100-C
GALVANIZED	B-100-G
STAINLESS	C-100-S

master diving stand

Same as Supreme stand but with no side rails, back rails or step.

CHROME	C-95-C
GALVANIZED	B-95-G
STAINLESS	C-95-S

THREE-METER DIVING STANDS

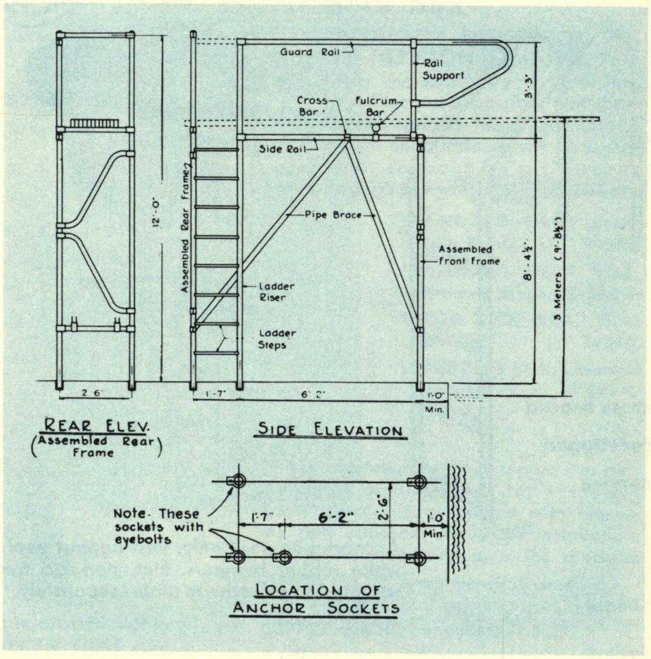


standard model (large photo)

Extremely rugged, durable. Five galvanized anchor sockets furnished with galvanized model. Order anchor sockets separately for chrome and stainless steel models. Escutcheon plates not included with any models. Diving board not included.

CHROME..C-111-C GALVANIZED..C-111-G STAINLESS..C-111-S

standard model


Guard Rail
Rail Support
Cross Bar
Fulcrum Bar
Side Rail
Pipe Brace
Assembled Rear Frame
Assembled Front Frame
Ladder Riser
Ladder Steps
12'-0"
3'-3"
8'-4½"
3 Meters (9'-8¼")
2'-6"
1'-7"
6'-2"
1'-0"
Min.
REAR ELEV.
(Assembled Rear Frame)
SIDE ELEVATION
Note. These sockets with eyebolts
1'-7"
6'-2"
2'-6"
1'-0"
Min.
LOCATION OF ANCHOR SOCKETS

cantilever model (small photo)

Same strength, durability and dimensions as standard model EXCEPT that distance between front and back legs is 5'-4". Recommended for pools with limited deck area. Five galvanized anchor sockets furnished with galvanized model. Order anchor sockets separately for chrome and stainless steel models. Escutcheon plates not included with any models. Diving board not included.

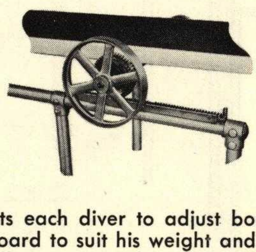
CHROME..C-110-C GALVANIZED..C-110-G STAINLESS..C-110-S

GENERAL SPECIFICATIONS all diving stands

	STAINLESS STEEL	GALVANIZED STEEL	CHROME-PLATED BRASS
Structural Members	1.900" O.D. x .110" Wall Tubing, Type 304	1.900" O.D. x .120" Wall Tubing	1.900" O.D. x .134" Wall Tubing
Braces and Rails	1.900" O.D. x .065" Wall Tubing, Type 302	1.900" O.D. x .120" Wall Tubing	1.900" O.D. x .083" Wall Tubing
Connectors	Chrome-Plated Cast Bronze Satin Finish	Galv. Malleable Iron	Chrome-Plated Cast Bronze
Fulcrum Holders	Chrome-Plated Cast Bronze Satin Finish	Galvanized Cast Iron	Chrome-Plated Cast Bronze
Bolts and Nuts	18-8 Stainless Steel	Cadmium Plated Steel	Chrome-Plated Naval Bronze
Steps	Chrome-Plated Cast Bronze Satin Finish	Galvanized Cast Iron	Chrome-Plated Cast Bronze
Fulcrum Cover	White Rubber	White Rubber	White Rubber
Butt Plate	Chrome-Plated Cast Bronze Satin Finish	Galvanized Steel	Chrome-Plated Cast Bronze

Send for complete catalog "Key to the Perfect Swimming Pool" for additional diving stands for residential pools and complete description of PARAGON Diving Boards.

GEARED ADJUSTABLE FULCRUM



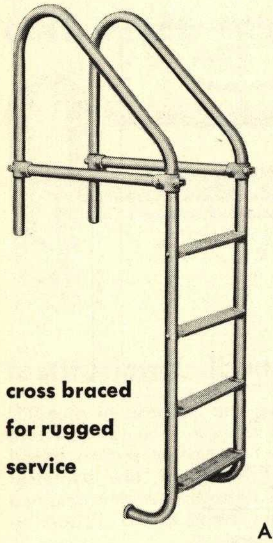
Permits each diver to adjust bounce of the board to suit his weight and spring. Fits all diving stand models. When ordering, send dimensioned sketch of stand showing distance between side frames.

CHROME **G-130-C**
GALVANIZED **F-130-G**

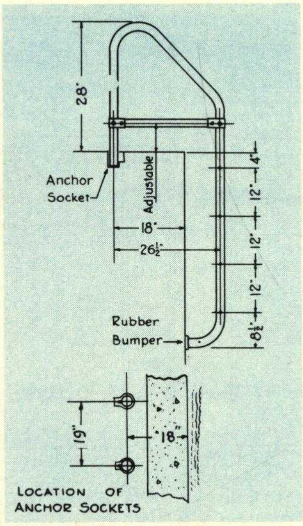
PARAGON

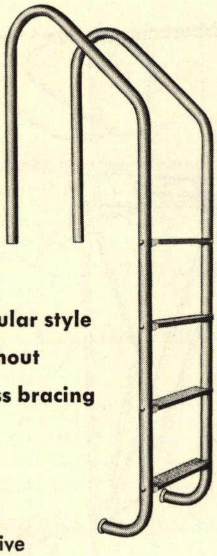
LADDERS and DECK EQUIPMENT

LADDERS

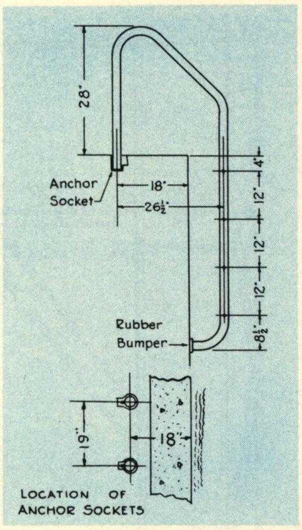


cross braced
for rugged
service


28"
Anchor Socket
Adjustable
18"
26½"
4"
12"
12"
12"
8½"
Rubber Bumper
19"
18"
LOCATION OF ANCHOR SOCKETS



regular style
without
cross bracing


28"
Anchor Socket
18"
26½"
4"
12"
12"
12"
8½"
Rubber Bumper
19"
18"
LOCATION OF ANCHOR SOCKETS

Anchored on deck only. Rest against pool wall on protective white rubber bumpers. Flat, non-skid tread. Order anchor sockets and escutcheon plates separately.

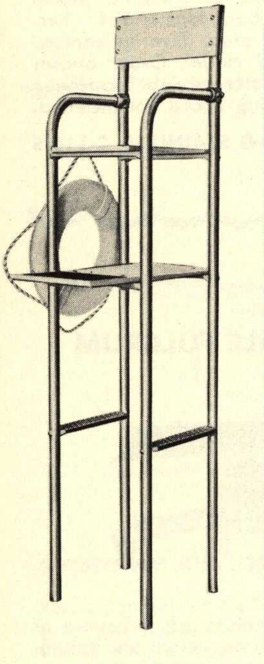
CATALOG NUMBERS

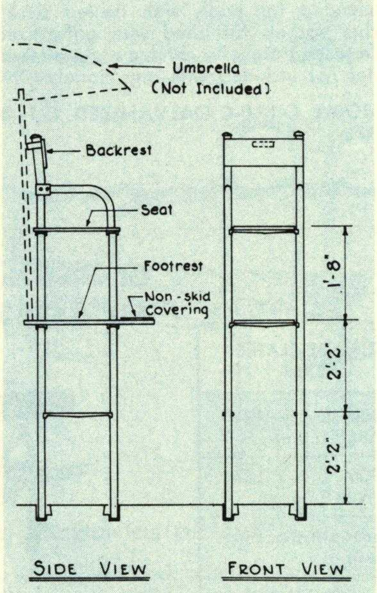
NO. OF STEPS	CROSS BRACED		REGULAR STYLE			
	Polished Chrome Heavy Duty	Galvanized Steel Heavy Duty	Polished Chrome Heavy Duty	Polished Chrome Standard	Galvanized Steel Heavy Duty	Stainless Steel Standard
2	C-2-C	B-2-G	C-12-C	B-16-C	B-12-G	B-16-S
3	C-3-C	B-3-G	C-13-C	B-17-C	B-13-G	B-17-S
4	C-4-C	B-4-G	C-14-C	B-18-C	B-14-G	B-18-S
5	C-5-C	B-5-G	C-15-C	B-19-C	B-15-G	B-19-S

GENERAL SPECIFICATIONS

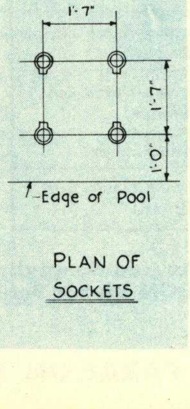
	Galvanized Steel Heavy Duty	Polished Chrome Heavy Duty	Polished Chrome Standard	Stainless Steel Standard
LADDER FRAMES	1.900" O.D. x .120" Wall Tubing	1.900" O.D. x .083" Wall Tubing	1.900" O.D. x .065" Wall Tubing	1.900" O.D. x .065" Wall Tubing Type 302
CONNECTORS	Galvanized Malleable Iron	Chrome-Plated Cast Bronze	Chrome-Plated Cast Bronze	Chrome-Plated Cast Bronze Satin Finish
BOLTS and NUTS	Cadmium-Plated Steel	Chrome-Plated Naval Bronze	Chrome-Plated Naval Bronze	18-8 Stainless Steel
STEPS	Galvanized Cast Iron	Chrome-Plated Bronze	Chrome-Plated Bronze	18-8 Stainless Steel
BUMPERS	White Rubber	White Rubber	White Rubber	White Rubber

life guard chair




Umbrella (Not Included)
Backrest
Seat
Footrest
Non-skid Covering
1'-8"
2'-2"
2'-2"

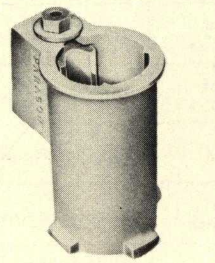
SIDE VIEW FRONT VIEW


1'-7"
1'-7"
1'-0"
Edge of Pool

PLAN OF SOCKETS

Strong and rigid with many built-in safety features including flat, non-slip mounting treads and non-slip surface on foot rest for fast, easy take-off. Umbrella holder and life ring holder included. Four anchor sockets furnished with galvanized chair. Order anchor sockets separately for chrome and stainless chairs. Order escutcheon plates separately for all chairs. Life ring not included.

CHROME-PLATED BRASS	**C-133-C**
GALVANIZED	**C-133-G**
STAINLESS	**C-133-S**



anchor sockets

Simplify installation and removal of PARAGON deck equipment. Made to accommodate 1.900" O.D. pipe. Exclusive, locking bronze wedge prevents sidesway on ladders and stands.

ALUMINUM	**B-120-A**
BRONZE	**B-120-C**
GALVANIZED	**B-120-G**

escutcheon plate

Adds elegance to ladders and stands by covering anchor sockets. Durable, rugged, one-piece casting. Made for 1.900" O.D. pipe.

CHROME	**C-121-C**
GALVANIZED	**B-121-G**
STAINLESS	**C-121-S**

PARAGON UNDERWATER LIGHTS

SPECIAL FEATURES

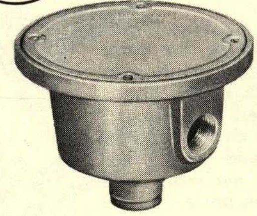
Bronze and copper construction with outside faces of gleaming chrome. ALL MOLDED GASKETS ONLY—No soldered joints or flat gaskets.

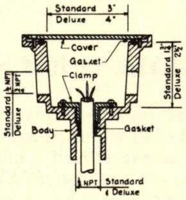
LIGHT CAN'T POP OUT—Special PARAGON locking device keeps light in niche.

Every light, before shipment, is tested for water tightness.

Lights are wet niche type to be recessed into wall. Extra long electrical cord is supplied so light can be lifted to deck for changing bulb without disturbing electrical connections. APPROVED and listed by Underwriters' Laboratories and Canadian Standards Association.

250-Watt Light	**B-550**
400-Watt Light	**B-552**
500-Watt Light	**B-555**



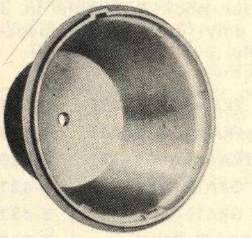


deck box

ABSOLUTELY LEAK-PROOF. Has new PARAGON water seal. Positively prevents entry of water into box. Eliminates possibility of short circuits due to flooding. Molded gasket seal under cover stops surface seepage. Cast bronze throughout with molded gaskets.

STANDARD DECK BOX, Plain Bronze	**B-580**
STANDARD DECK BOX, Chromed Bronze	**B-580-C**
LARGE DECK BOX, Plain Bronze	**B-582**
LARGE DECK BOX, Chromed Bronze	**B-582-C**

pre-formed niches for concrete pools



For speedier, simpler, lower cost installation of underwater lighting.

PRE-FORMED COPPER NICHES are a PARAGON FIRST and a PARAGON EXCLUSIVE. These niches are brazed to mounting rings and have threaded outlets for conduit connections. Assembled units are permanent, water-tight and non-corroding.

For economy purposes, aluminum niches with mounting rings attached are also available. Aluminum niches can be used ONLY for installations where concrete can completely surround it.

DETAILED INSTALLATION SHEETS ARE FURNISHED WITH EACH NICHE—AND ARE AVAILABLE UPON REQUEST.

Niches available in either copper (for permanence) or aluminum (for economy). Come completely assembled *with mounting ring attached*—ready for installation. Just set in place and pour the concrete.

COPPER NICHE, complete—250- and 400-Watt	**B-560**
COPPER NICHE, complete — 500-Watt	**B-561**
ALUMINUM NICHE, complete—250- and 400-Watt	**B-563**
ALUMINUM NICHE, complete—500-Watt	**B-564**
MOUNTING RING, only—250- and 400-Watt	**B-566**
MOUNTING RING, only—500-Watt	**B-567**

Preformed niches also available for vinyl, fiberglas and metal pools

BUILT-IN SKIMMER

Eliminates need for time-consuming hand skimming. Removes all floating debris while pool is being used.

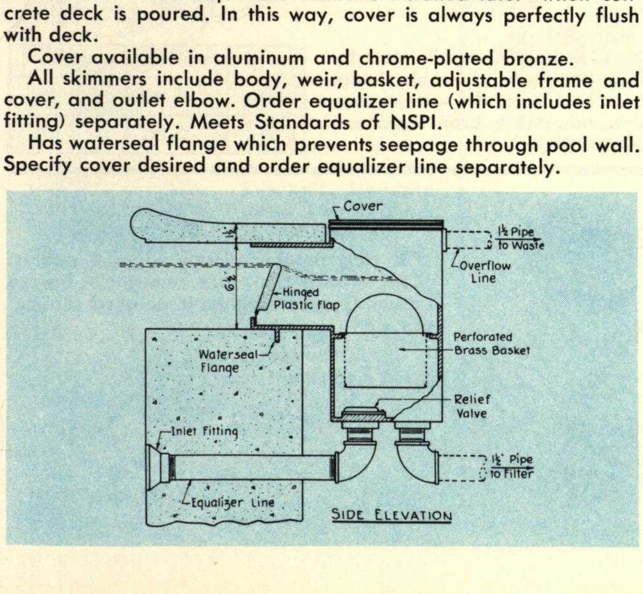
One-piece all aluminum construction with self-adjusting plastic weir. Heavy perforated brass basket catches debris, is easily removed for cleaning. Threaded outlet for direct connection of vacuum cleaner hose eliminates need for separate vacuum line. Overflow connection provided.

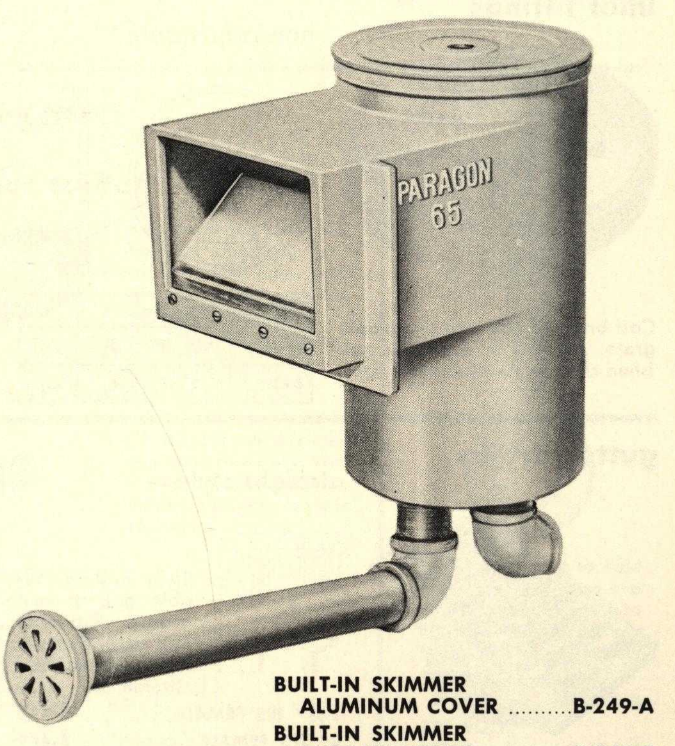
Brand new, exclusive PARAGON feature is the adjustable frame for the cover. The adjustable frame is installed later—when concrete deck is poured. In this way, cover is always perfectly flush with deck.

Cover available in aluminum and chrome-plated bronze.

All skimmers include body, weir, basket, adjustable frame and cover, and outlet elbow. Order equalizer line (which includes inlet fitting) separately. Meets Standards of NSPI.

Has waterseal flange which prevents seepage through pool wall. Specify cover desired and order equalizer line separately.





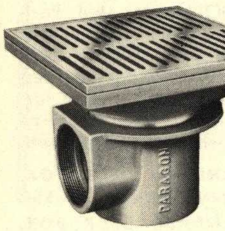
BUILT-IN SKIMMER ALUMINUM COVER	**B-249-A**
BUILT-IN SKIMMER CHROME COVER	**B-249-C**

PARAGON

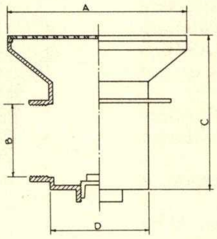
FITTINGS FOR CONCRETE POOLS

(COMPLETE LINE OF FITTINGS FOR VINYL, FIBERGLAS AND METAL POOLS ALSO AVAILABLE)

cast main drain

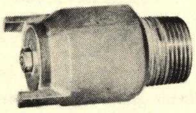


Finely machined galvanized cast iron body with waterseal flange, manual relief plug, threaded outlet, cast bronze chrome-plated frame and grate.
Also available with cast iron body.



Cat. No.	A	B	C	D	
B-420	6"	2" IPS	6½"	4"	Cast Iron Body
B-420-G	6"	2" IPS	6½"	4"	Galvanized Iron Body
B-421	11"	4" IPS	9"	6"	Cast Iron Body
B-421-G	11"	4" IPS	9"	6"	Galvanized Iron Body

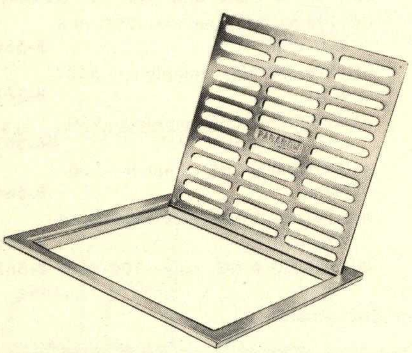
hydrostatic relief valve for cast main drain

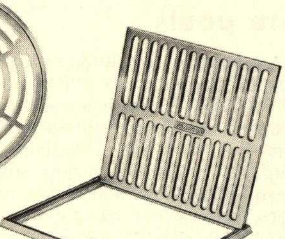


The cheapest insurance any pool owner, operator or builder can buy. Should water pressure, created by saturated earth, ever start to exert itself while pool is empty for painting, repairs, etc.—the HYDROSTATIC RELIEF VALVE opens—permitting water in ground to enter pool—thereby equalizing the pressures and preventing heaving of the floor.

FOR 2" CAST MAIN DRAIN	B-422
FOR 4" CAST MAIN DRAIN	B-423

frames and grates



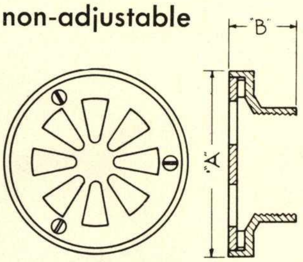


Sturdy cast bronze with removable grates. Gleaming chrome plated finish glamorizes your pool. Available in 3 sizes. Grates only for each size available separately.

12" SQUARE, FRAME & GRATE	B-425
8" SQUARE, FRAME & GRATE	B-428
6" ROUND, FRAME & GRATE	B-430
12" SQUARE, GRATE ONLY	B-431
8" SQUARE, GRATE ONLY	B-432
6" ROUND, GRATE ONLY	B-433

inlet fittings

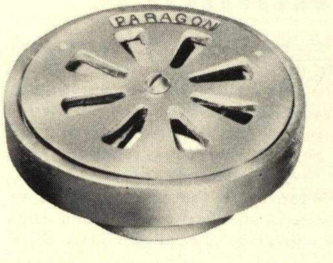
non-adjustable

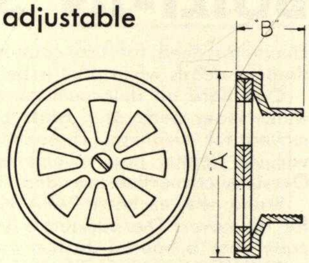


Cast bronze body with removable grate. Finished in attractive polished chrome. Available in 2 sizes.

Cat. No.	Outlet Size	A	B
B-435	1½" IPS	3½"	1¼"
B-436	2" IPS	4"	1¾"

adjustable



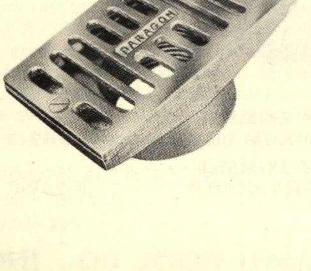


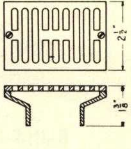
Equalize flow from all inlets by using this easily adjustable fitting. Cast bronze body with removable, adjustable, bronze grates—chrome plated.

Cat. No.	Outlet Size	A	B
B-440	1½" IPS	3½"	1¼"
B-441	2" IPS	4"	1¾"

gutter drains

straight style

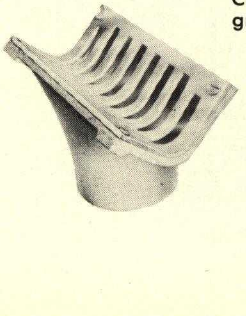




Body and removable grill of cast bronze. Available in 2 sizes. Grate is finished in polished chrome.

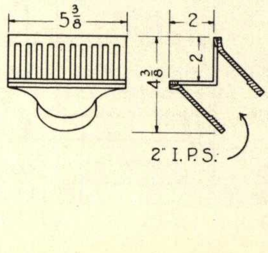
1½" IPS FEMALE	B-480
2" IPS FEMALE	B-481

angle style



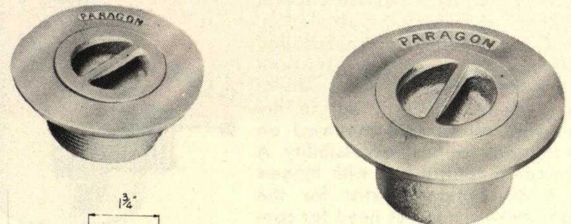
For clog proof drainage of pool gutters. Cast bronze body has removable bronze grate. Grate is finished in polished chrome.

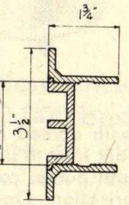
B-482



vacuum fittings

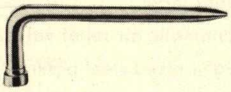
Precision machined bronze fittings with removable plug. All parts cast bronze . . . finished in attractive polished chrome. Available in 2 sizes for pipe connection — both sizes have 1½" IPS female connection for vacuum hose.



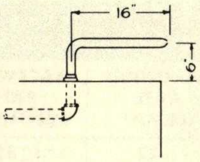


Cat. No.	Pipe Size	Hose Size
B-455	1½" IPS Female	1½" IPS
B-456	2" IPS Male	1½" IPS

fill spouts

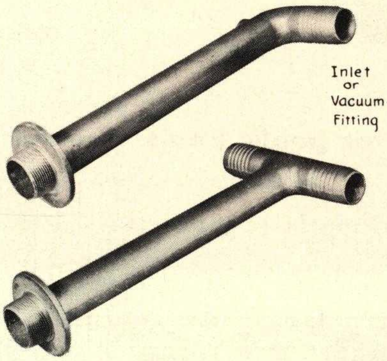


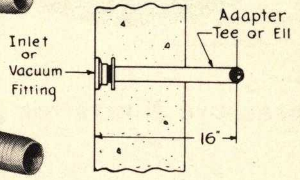
Health regulations in most areas require the use of a FILL SPOUT for filling your pool. Chrome plated brass tubing and fittings with lower end threaded for connection to water pipe. Fish tail spout sprays water clear of coping and walls. (Install FILL SPOUT underneath diving board). Available in 3 sizes.



¾" FILL SPOUT	B-489
1½" FILL SPOUT	B-490
2" FILL SPOUT	B-491

no-leak adapters

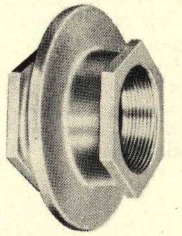




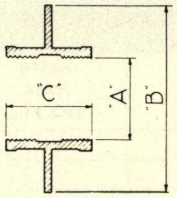
A PARAGON EXCLUSIVE — A combination of No-Leak Fittings, elbow (or tee) and hose adapter plus piping to extend through pool wall. Saves installation time and money. Galvanized cast iron construction. Available as ell or tee.

1½" Adapter Ell	B-497
1½" Adapter Tee	B-498

no-leak fittings



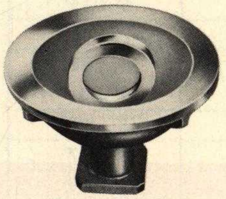
Eliminate all possibility of leakage through pool wall at fittings. The waterseal flanges of the NO-LEAK FITTINGS effectively prevent water seepage. Heavy cast bronze with wide, waterseal flange. Available in 2 sizes.

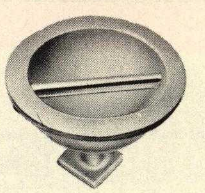


Cat. No.	A	B	C
B-495	1½" IPS	4¼"	2"
B-496	2" IPS	4¾"	2¼"

WALL ANCHORS

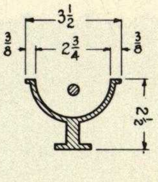
recessed cup type



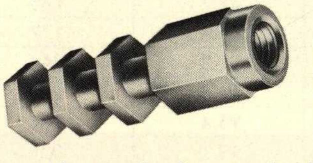


Cast bronze, chrome-plated. Sets flush in wall. Deluxe model has rugged, chromed bronze, removable eye bolt. Standard model has brass rod to hold rope hook.

Cup Anchor, deluxe	B-469
Cup Anchor, standard	B-470



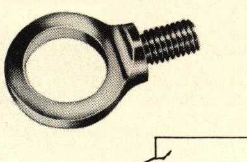
wall anchor socket



Inexpensive socket is set flush with pool wall. Perfect for racing lanes and safety lines that may be changed or moved.

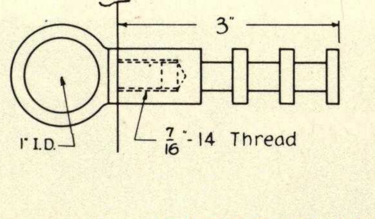
B-471

threaded eye bolt

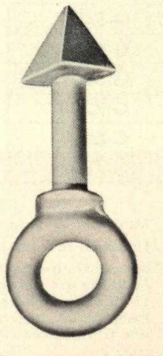


Chrome plated—threaded eye bolt screws into Wall Anchor Socket. Can be removed in seconds for lane changing.

B-472



eye bolt



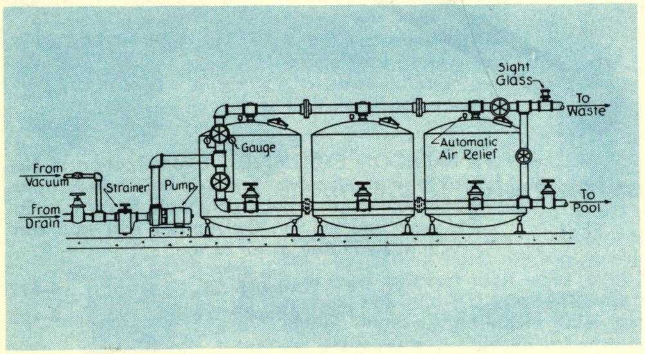
Set in pool wall to hold hand lines, life lines and racing lane markers. Cast bronze—available in plain finish or chrome plated.

EYE BOLT, Bronze	B-499-B
EYE BOLT, Chrome Plated	B-499-C

PARAGON

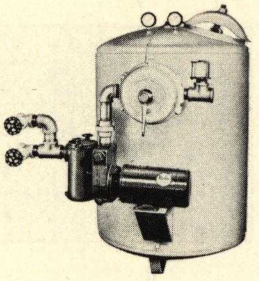
SWIMMING POOL FILTERS

pressure filters for public pools



PARAGON manufactures a full range of multi-cell filters for larger private pools and public pools. Filter battery includes tanks on jack legs with non-corrosive underdrains and automatic air relief, centrifugal pump and motor, strainer, 2 pressure gages, sight glass, galvanized steel piping and fittings, gate valves. Auxiliary equipment includes chlorinators, chemical feeders, solution crocks, flow meters and orifice flanges. Our experienced engineering department will be happy to make recommendations and offer prompt quotations upon receipt of plans, specifications and details.

residential pool filters



Available in two styles: Above Ground Installation and Buried Installation. Above Ground Filter can be installed anywhere — cellar, garage or bath house. Buried Style is ideal where space is limited. Filter is set in the ground with all controls mounted on top of the tank for easy accessibility. A prefabricated control box with hinged cover is an optional extra for the buried filter — eliminates need for construction of an enclosure.

SYSTEM INCLUDES:

- Welded steel tank of structural steel plate with domed heads, non-corrosive underdrain and splash plate under inlet to prevent furrowing of filter bed. Self-priming centrifugal pump, continuous duty, sealed bearings with lifetime lubrication. Operates on household current.
- Oversized strainer with heavy gage perforated brass basket.
- 2 pressure gages.
- Sight glass.
- Automatic air relief valve.
- Galvanized steel piping.
- Single lever PARA-PORT VALVE.

Suction manifold available as optional extra.

PRESSURE FILTERS FOR PUBLIC POOLS

CATALOG NO.	MAXIMUM POOL CAPACITY*	NO. AND DIA. OF TANKS	FILTER AREA (SQ. FT.)	FILTRATION RATE (GPM)**	BACKWASH RATE (GPM)***	PUMP SIZE (H.P.)	FLOOR AREA REQ'D
G-3602	20,300	2—36″	14.1	42	85	1	5′ x 8′
G-3003	21,200	3—30″	14.7	44	58	1	4′ x 10′
G-4202	27,700	2—42″	19.2	58	115	1½	6′ x 10′
G-3603	30,600	3—36″	21.2	64	85	1½	5′ x 12′
G-4802	36,200	2—48″	25.1	75	151	2	6′ x 10′
G-4203	41,600	3—42″	28.9	87	115	1½	6′ x 15′
G-5402	45,800	2—54″	31.8	95	191	3	7′ x 12′
G-4803	54,300	3—48″	37.7	113	151	3	6′ x 15′
G-5403	68,700	3—54″	47.7	143	191	3	7′ x 17′
G-6003	84,700	3—60″	58.9	177	235	5	7′ x 18′
G-6603	102,500	3—66″	71.3	214	285	5	8′ x 21′
G-7203	122,000	3—72″	84.8	254	339	5	8′ x 22′
G-6604	137,200	4—66″	95.4	286	285	5	8′ x 27′
G-7204	162,700	4—72″	113	339	339	7½	8′ x 29′

*Maximum pool capacity is given in gallons and based on 8 hour turnover.

**Filtration rate based on 3 gpm per sq. ft. of filtration area.

***Backwash rate based on 12 gpm per sq. ft. of filter area for one tank.
All tanks are constructed of 3/16″ structural steel plate with domed heads.
11″ x 15″ manhole, adjustable jack legs, automatic air relief valve.
Pumps with motors 1½ H.P. or smaller are self priming pumps and motors are 110/220 V, 1 phase, 60 cycle, 3450 rpm. Pumps with motors 2 H.P. and larger are straight centrifugals with motors 220/440 V, 3 phase, 60 cycle, 1750 rpm. Single phase available upon request.

Printed in U.S.A.

Swimming Pool Co. inc.

PARAGON

12 PAULDING STREET, PLEASANTVILLE, NEW YORK. ROgers 9-6221

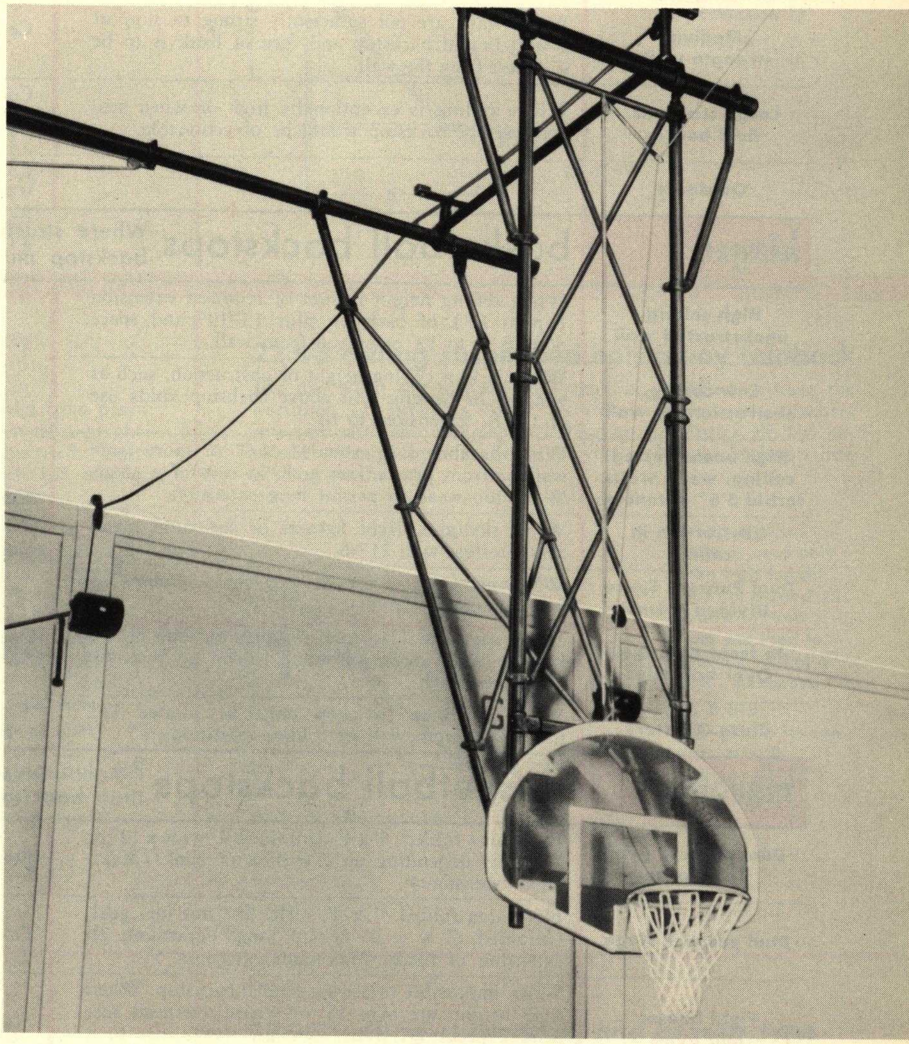
23k
Por

Porter

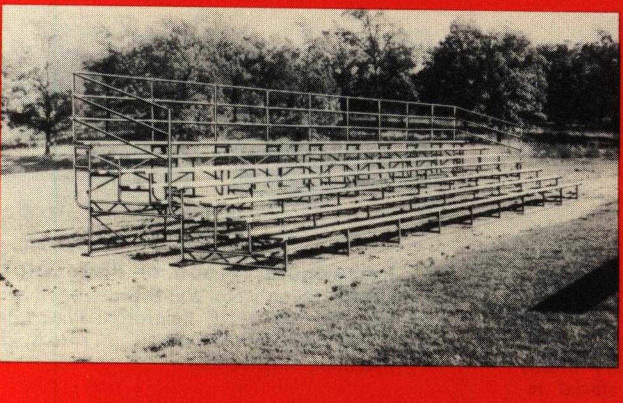
ATHLETIC EQUIPMENT CO.

A Division of Waco Manufacturing Company

Basketball · Gymnasium · Playground · Corrective Equipment



- **Performance-proved . . . Over 100,000 basketball installations alone in over 25,000 schools.** Proof that when you buy Porter, you can be sure. . . . Nearly a Century of Quality Manufacturing.
- **Quality Plus** . . . Porter's "53,000 lbs. p.s.i. test" malleable castings, first quality new pipe plus stress-tested quality gives years of trouble free service to every building, every builder and architect.
- **Custom Installations** . . . For buildings requiring "specialized" backstops, Porter's engineering staff will design to meet the most rigid requirements. Contact your Porter distributor or write giving your requirements.
- **New Architect's Reference File Available** . . . Write for complete architect's tracing details; also gives complete wall and ceiling stress information.
- **Planning Service**. . . For gymnasium layout available to answer any questions on type, planning or installation of equipment.



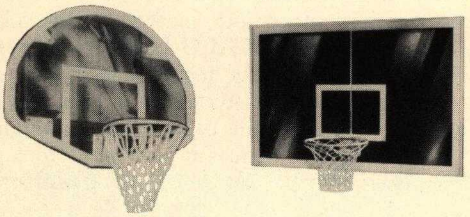
Portable Steel Frame Bleachers

WACO Portable Bleachers, manufactured of high carbon steel tubing feature the patented speed lock method of assembly, plus self locking plank fasteners. WACO bleachers offer the utmost in versatility. For example a ten row bleacher unit may be partially dismantled and re-erected as a four row or seven row unit without disturbing the balance of the original bleacher. These features do not detract in any way from the use of WACO Bleachers for permanent or semi-permanent installations.

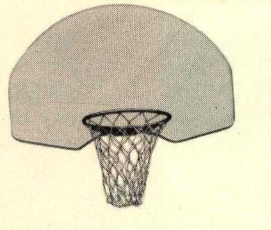
WACO Bleachers are available in non-elevated and elevated styles, with and without a front cross walk. All WACO Bleachers are completely load tested and are covered by more than one million dollars worth of product liability insurance. Use our engineering service to solve your seating problems without obligation.

A COMPLETE LINE • • • there's a Porter Backstop engineered for every building condition

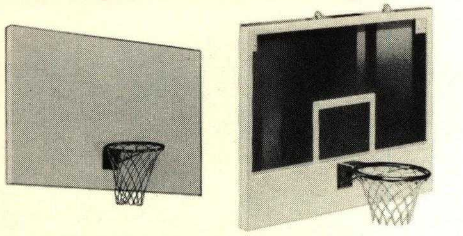
Where To Use	When To Use	Mounting	Type	No.
fixed	**basketball backstops** Recommended where structure or contemplated use of space renders it unnecessary to remove or reposition backstops.			
Unobstructed wall	When bank is extended 12′ or less from wall.	Wall braced	Fixed	**212-B**
Where bank is far from walls	When distance from the face of the bank to the wall is greater than 9′.	Ceiling suspended and braced	Fixed	**226-B**
Window span	When bank is positioned in front of window or an obstruction that must be spanned.	Wall braced	Fixed	**212-WS**
Balcony wall	When balcony is 9′ to 13′ high.	Wall braced balcony	Fixed	**213-B**
Medium strength walls	When walls are not sufficiently strong to support a wall braced backstop and face of bank is to be 9′ or less from the wall.	Ceiling suspended wall braced	Fixed	**218-B**
Large stadiums, field houses	Where ceiling is exceptionally high or when suspended type backstop would be objectionable.	Concrete anchored floor pedestal, ceiling cable braced	Fixed	**228-B**
Outdoors		Concrete anchored single pedestal	Fixed	**58-F** **59**
hinged	**basketball backstops** Where structure and contemplated use of space dictate that backstop must sometimes be repositioned, but not removed.			
High ceiling, unobstructed wall	When ceiling height is sum of required extension (up to 12′) of backstop plus 12′-10″ and space permits 3′ to 12′ extension from wall.	Wall braced	Wall fold-up	**219-B**
Low ceiling, obstructions in wall	When lack of ceiling height or obstruction, such as window or heating unit above backstop voids use of 219-B. Extensions to 10′.		Side fold	**220-B**
High unobstructed ceiling, weak walls forbid 5′6″ extension	When backboard is extended 5′-6″ or more from wall or from proscenium arch, in case of a stage. Walls too weak to permit long extension.	Ceiling suspended	Hoistaway forward fold	**217-B**
Obstruction in ceiling	When skylights, light fixtures or structural members interfere with 217-B.		Hoistaway backward fold	**223-B**
Dual Purpose Space Divided rooms	When gymnasiums are divided into 2 rooms by folding door.	Wall braced	Side swing gate	**247-B** **248-B**
In front of stage. Over balconies	When complete "Jacknife" folding through use of knee joints to make minimum folded up backstop area is required.	Ceiling suspended	Hoistaway double fold	**251-B**
Close Quarters	When swing-up backstop must be located less than 5′-6″ from wall or folding partition.	Ceiling suspended forward braced	Wall or Partition swing-up	**249-B**
movable	**basketball backstops** For dual purpose space where it is sometimes desirable that backstops be completely moved or relocated.			
Dual purpose gym floor space	Floor area folded, 8′ x 4′. Unfolded 4′ wide x 12′ or 13′ long, depending on extension of bank. Maximum extension 5′.	Floor plates, casters	Folding rollaway	**235-B**
Dual purpose stage	Floor area folded 5′ x 4′. Ht. 38″ not inc. goal. Unfolded 6′ w x 9′ or 10′ long, depending on extension of bank. Maximum extension 5′.	Floor plates, casters	Folding rollaway	**236-B**
Field houses and gyms	When impossible to use suspended backstop. When truss heights are over 25′ or where overhead suspended backstops would obstruct sight lines to a decided disadvantage.	Floor plates, casters	Rigid structure with rollaway base; stores in 2 parts.	**225-B**
Field house, stadiums, gyms where storage is problem	Exceptionally high ceilings or where overhead suspended backstops would be objectionable. Rolls into opening 6′ w x 7′-6″ high.	Lifting screws, casters	Detachable extension, rollaway base. Hinged in 2 sections.	**227-B**



Herculite Backboards . . . Choose either Porter's No. 231-B Fan Shaped or No. 232-B Rectangular Backboard. Both official and carefully heat tempered glass to ensure strength and improve end-court visibility.



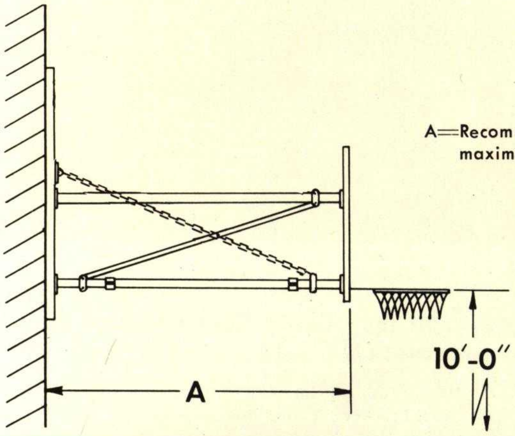
Steel . . . Porter's No. 237-B Fan Shaped Backboard of one piece, 12 gauge, hot rolled sheet steel . . . rigidity braced . . . meets all official requirements.



Rectangular Wood or Plate Glass. Choose Porter's No. 208-B panel-wood backboard or No. 211-B Reinforced Plate Glass Backboard. Both are official . . . sure to give maximum satisfaction.

212-B wall braced type

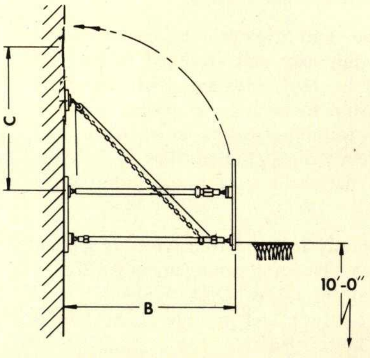
Use where walls are unobstructed. Bank may be installed flush or extended 12′ or less from wall. Naturally, as the distance extended increases, structural additions must be made to insure a rigid installation.



A=Recommended maximum is 12′.

219-B wall braced wall fold-up

Designed for use with high ceiling and unobstructed wall. Ceiling height must be the sum of the required extension of backstop plus 12′-10″. To retract, the frame work and backboard are simply raised to a position flush against the wall by means of a cable and Porter PF-750 worm-gear winch.

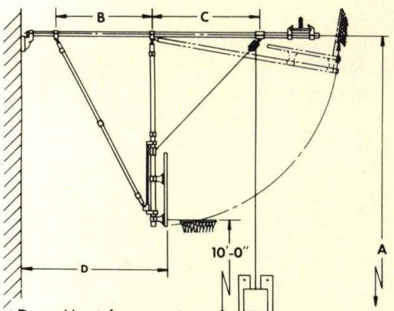


B=Maximum Recommended Extension 12′

C=Is to B

217-B ceiling suspended hoistaway forward fold

Install where conditions require backstop be removed from playing position to accommodate other activities. When truss height is more than 25′, a special superstructure must be used. Unit features enclosed Porter PF-750 worm-gear winch for raising structure to ceiling quickly and almost without effort.



D = Must be great enough to permit 30° brace angle

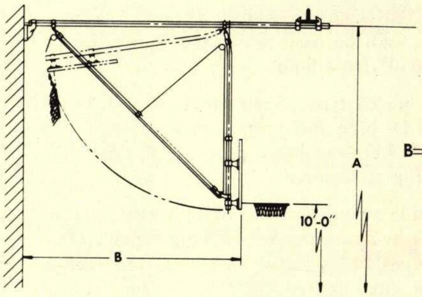
A=Arrangement as shown is used only when truss height does not exceed 25′. Otherwise drop pipes are used to maintain "A" at a 24′-9″ maximum.

B=Location of backstop must allow for 30° angle between diagonal brace pipes and drop pipes.

C=A—(13′-2¼″)

223-B ceiling suspended hoistaway foldback

For use when the forward fold can't be installed because the positions of skylights, light fixtures or structural members interfere with the backstop swinging up. A Porter PF-750 enclosed worm-gear winch hoists, lowers and locks backstop into playing position.

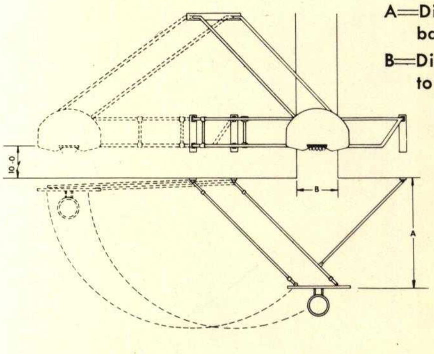


A=Arrangement as shown is used only when truss height does not exceed 25′. Otherwise drop pipes are used to maintain "A" at a 24′-9″ maximum.

B=Min. B Dim. =A—(9′-3″) for fan bank. Min. B. Dim.=A—(8′-10″) for rect. bank

248-B wall braced gate side swing

For dual purpose space, when gymnasiums are divided into two rooms by folding door. Also permits practice courts. Usually the folding door and the center line of the main court coincide. The "gate" containing the backboard simply swings to one side to permit the door to operate.

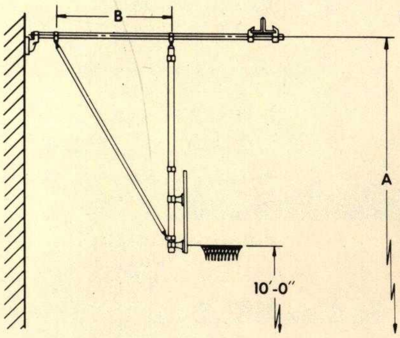


A=Distance face backstop to wall.

B=Distance of opening to be spanned.

226-B ceiling suspended and braced type

Use when walls are obstructed or distance from the face of the bank to the wall is excessive or when walls are too weak to accept the weight of a wall braced backstop. This permanently rigid structure may be placed almost anywhere in the gymnasium, independent of wall bracing.



A=Arrangement as shown is used only when truss height does not exceed 25′. Otherwise drop pipes are used to maintain "A" at a 24′-9″ maximum.

B=Location of backstop must allow for 30° angle between diagonal brace pipes and drop pipes.

SPECIFICATIONS

For backstops shown on page three.

Write for specifications of backstops on page two.)

(Incorporate the following sentence and applicable clause.) Any substitutes for the bracing herein specified, including "U" bars, or steel channels, or wire and turnbuckle cross-bracings shall not be considered acceptable.

212-B—Wall braced type. 2' to 12' extended (specify). Shall be constructed with four (4) 1½" I.D. brace pipes terminating in malleable iron flanges for attachment, cross braced with ¼" x 1¼" flat steel braces secured with bolted clamp fittings.

219-B—Wall braced fold-up type. 3' to 12' extension (specify). Shall be complete with all hoisting equipment and arranged to fold up against wall. Brace pipes shall be 1½" I.D. and shall attach by means of hinged fittings. Backstop to be held in proper position with two lengths of chain each attaching at top to wood batten, and at bottom to extended end of brace pipe. Brace pipes to be cross braced with four ¼" x 1¼" flat mild steel braces and bolted steel fittings.

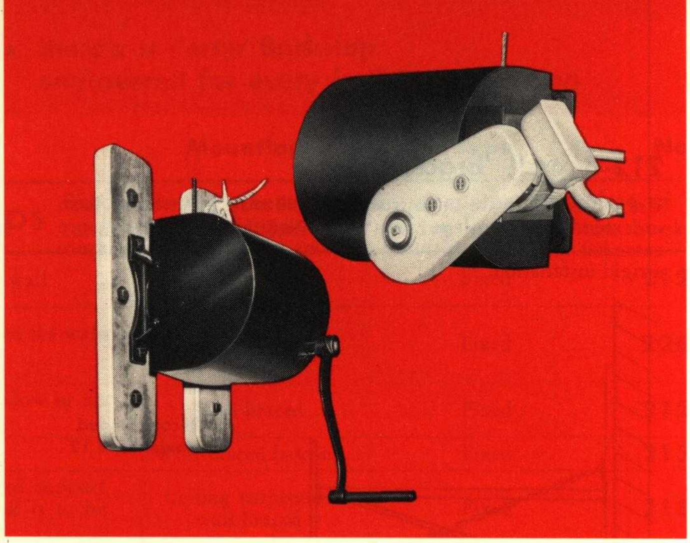
217-B—Ceiling suspended hoistaway forward fold type. (Incorporate clauses marked 217-B below). Hoisting arrangement consisting of malleable iron collar operating on 1-1/6" O.D. Slide rod shall permit raising and lowering of backstop and provide positive locking without additional latching mechanisms.

223-B—Ceiling suspended hoistaway fold back type. (Incorporate clauses marked 223-B below.) Each inclined brace shall consist of two lengths of pipe joined with special malleable iron hinge fitting, rigid when closed, and allowing brace members to fold for hoisting.

(217-B, 223-B)—Shall be furnished complete with all hoisting equipment and rigid superstructure constructed with 3" I.D. pipe, and required cross bracings and guider clamps. Vertical drop pipes 2" I.D. and incline braces 1¼" I.D. pipe, each attaching to superstructure with malleable iron hinged fittings, and 1-5/16" O.D. threaded cold rolled steel rod 12" long to permit adjustment of backstop for height, plumb, and level. Drop pipes and inclined braces shall be cross-braced with ¼" x 1¼" flat mild steel braces, attaching to pipes and joined at all intersections with bolted fittings. Two 1½" I.D. sway braces shall be used if backtop is fan shaped and suspended more than 20'-0" from floor.

226-B—Ceiling suspended braced type. Shall be constructed with rigid superstructure of 3" I.D. pipe and proper girder clamps and cross braces. Drop pipes 2" I.D. and brace pipes 1¼" I.D. with cross bracing and sway bracing as required.

248-B—Wall-braced gate side swing type. Shall be constructed to permit disconnection of bank by floor operated latching arrangement, allowing bank and brace pipes to swing in horizontal arc against wall. Brace pipes shall be cross braced with 1½" spacer pipes attaching to brace pipes with bolted steel fittings.



PF-750 manual winch

Load Capacity—750 lbs.; Cable Capacity—36' approx., Overall Dimensions—11⅝" x 11⅝" x 12" long.

Winch shall be designed to hold unit at any point when raising or lowering backstop. Two side brackets, drum and crank shall be of sturdy malleable iron castings. Drum shall be 9" in diameter and have serrations for cable lay. Crank, removable when not in use, shall be 12" long with a 5½" revolving hand grip. Worm shall be cold rolled steel. Worm gear cast bronze. Ratio between crank and drum shall be 40 to 1. A 16 gauge welded sheet steel cover shall enclose entire winch.

257 portable electrically operated winch (not shown)

Direct drive unit consists of a ⅓ hp universal motor driving a set of totally enclosed, permanently lubricated gears. The drum is grooved for even winding and is supported by metal brackets and a 1" diameter steel shaft. Oilite bronze bearings are used in the worm gear reducer.

258 Permanent Electrical Winch. With Porter's Electric Winch, the operator merely inserts a "yale type" key into the lock of the switch and turns it in the up position to raise the backstop or the down to lower it. As a safety feature, the switch is spring loaded in both directions . . . no danger of the electricity being left on. The key prevents operation by an unauthorized person. Also a limit switch automatically disconnects the backstop at the highest position. And with Porter's universal motor, starting torque is so high that there are no limitations on reversing our backstops. Cycle can be interrupted and reversed or resumed at any time in the cycle. One switch will operate any number of backstops simultaneously.

PORTER ATHLETIC EQUIPMENT CO. • A division of WACO Mfg. Co. • OTTAWA, ILLINOIS

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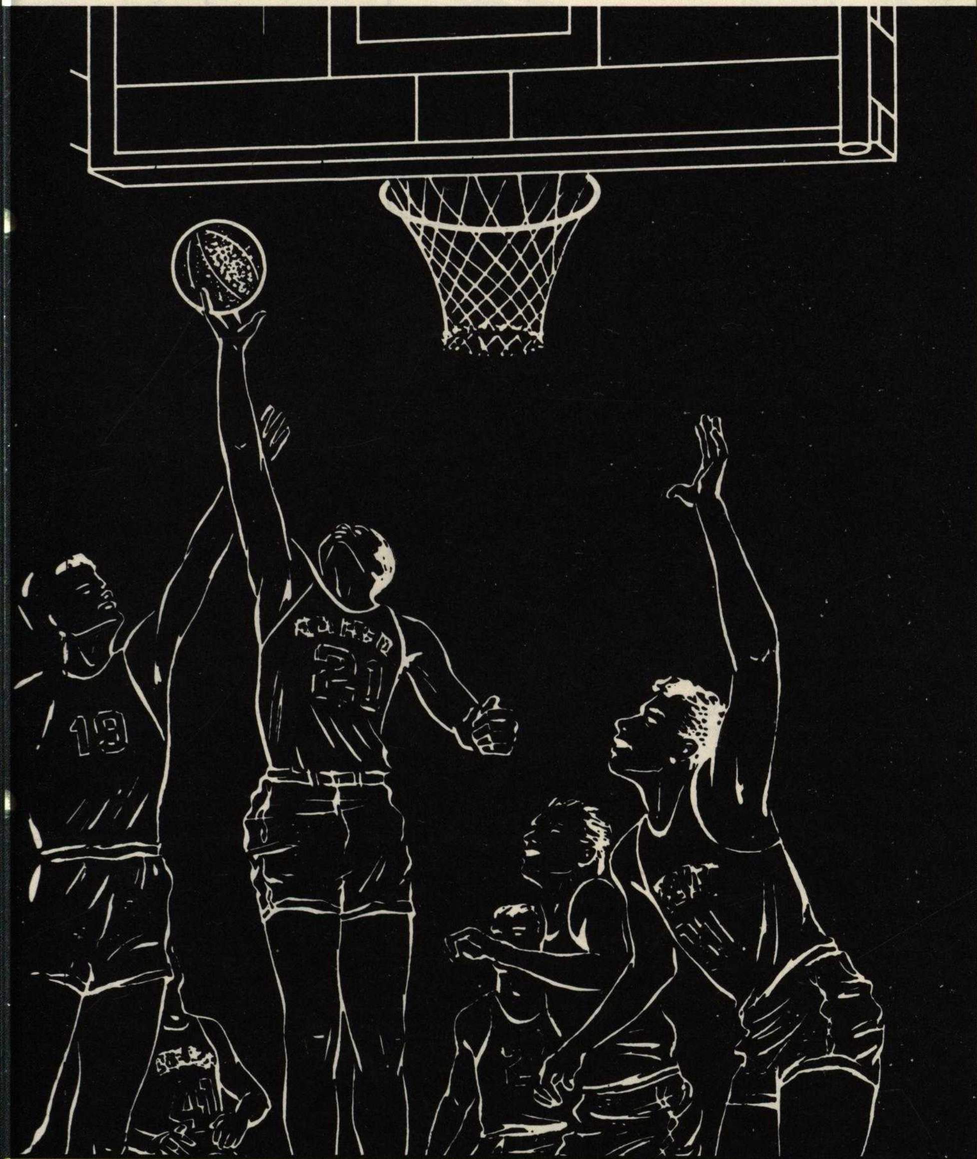
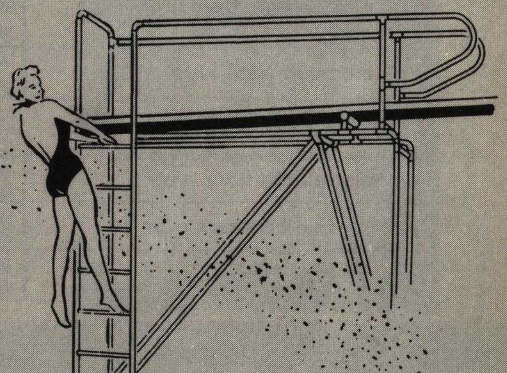
BASKETBALL BACKSTOPS



SWIMMING POOL EQUIPMENT



RECREATION EQUIPMENT CORP.

ANDERSON · INDIANA
DEPARTMENT SF

NATIONAL SCHOOL SUPPLY & EQUIPMENT ASSOCIATION

NATIONAL SWIMMING POOL INSTITUTE
MEMBER

Manufacturers of Playground • Park • Swimming Pool and Basketball Equipment

SELECTOR GUIDE

description	suggested use	model no.	page
CEILING SUSPENDED • fold up types			
Forward fold up	In front of stage or bleachers where fixed backboard would obstruct view.	112F	4
Backward fold up	Where trusses or other obstructions interfere with 112F operation.	112B	4
Forward fold up	Where backboard sets too close to wall to permit use of standard 112F.	110F	5
CEILING SUSPENDED • stationary types			
Stationary ceiling suspended	Where backboard is located 10 ft. or more from wall, or wall will not support wall mounted types.	113T	6
Stationary ceiling suspended and wall braced	Where backboard is located 10 ft. or less from wall, and wall will not support wall mounted types.	113W	6
Ceiling suspended wall braced gate type, stationary	Where backboard location coincides with folding partition travel, backboard only swings around.	18T	7
Ceiling suspended gate type, fold up	Where backboard location coincides with folding partition travel, and backstop must swing up.	18TF	7
WALL MOUNTED • stationary and hinged types			
Wall mounted swing up	Where necessary to swing up backboard and wall conditions are suitable, backboard located 10 ft. or less from wall.	15	8
Wall mounted stationary	Where backboard to wall is 10 ft. or less, and wall is suitable.	12	8
Wall mounted side fold	Where swing around type can be used, folds in space equal to distance from backboard to wall.	16	8
Wall mounted stationary	Where unobstructed wall permits wall mounting, or with glass backboard extended to 12 ft. from wall.	120	8
Wall mounted window span, stationary	Where backstop is located in front of window, or must straddle heat pipes, etc.	17	9
Wall mounted gate type	Where backboard location coincides with folding partition travel, backstop folds against wall.	18	9
PORTABLE TYPES			
Portable folding floor type	Where necessary to remove backstop from gym. (Requires storage space.)	22	9
Portable folding stage type	Where small gym requires backstop to be located on stage. (Requires storage space.)	23	9
Pedestal type stationary	In large structures where truss height is too great to permit truss suspended types.	312P	9

planning assistance

We will gladly place the resources of the Recreation Engineering Department at your disposal to assist you in selecting the proper backstop, or in designing special equipment to suit your needs.

Upon receipt of backstop order, Recreation's engineering department will design equipment and furnish shop drawings for approval before shipment is made on any backstop apparatus. Overhead backstop supports vary greatly with building construction and are designed to fit each building. When ordering backstops send along architect's blueprints and specifications for our use in designing supports.

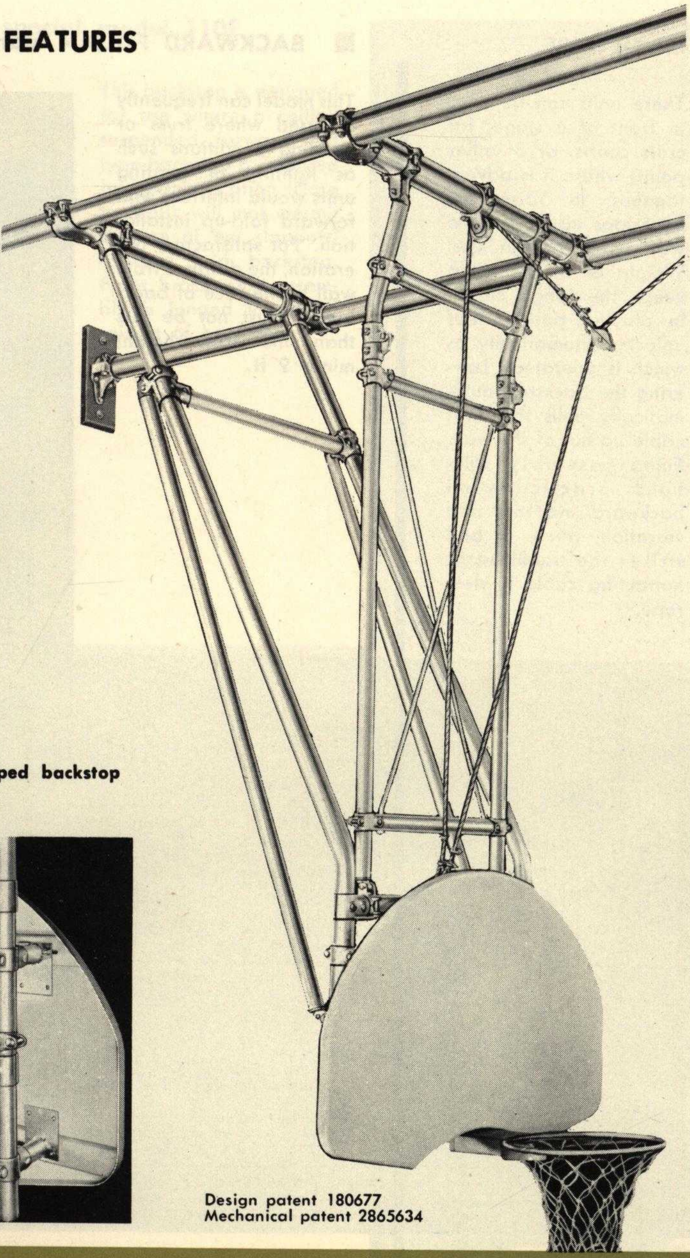
information required for quotations

1. Height from floor to bottom of truss flange.
2. Type of truss.
3. Spacing of trusses and distance from wall.
4. Distance from wall to face of backstop.
5. Construction of wall or stage arch.
6. Height of finished ceiling, if present.
7. Type of backstop and backboard required.
8. If available, architect's blueprints and specifications can be sent; instead of items 1 thru 7.

- selector guide
- construction features

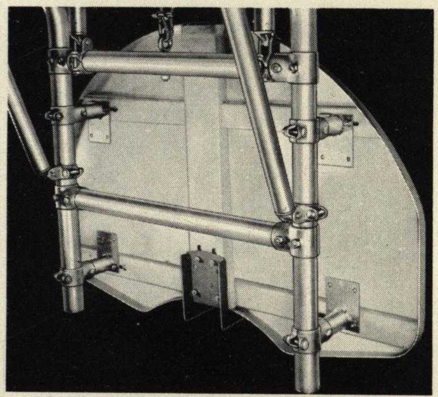
CONSTRUCTION FEATURES

- New patented principle in backstop construction. Weight of backstop locks hinged vertical assembly. Nothing to wear out or get out of order. Unlocks automatically when backstop is hoisted. Hoist cable automatically retracts out of playing area as backstop is lowered.
- Main oblique support assembly constructed of 2″ I.D. pipe.
- Extra 1½″ I.D. pipe braces connected to back of each 2″ I.D. main support pipe for additional rigidity.
- Fittings are malleable iron. Spacer pipes connected at intersections with fittings of steel stampings.
- Vertical assembly cross braced with 7/16″ diameter guy rods with locknuts.
- Backboard attaches to main frame by adjustable fittings for goal height adjustment. Other adjusting points for plumbing backboard.
- Precision manufactured and factory assembled. Can be installed more easily in less time.

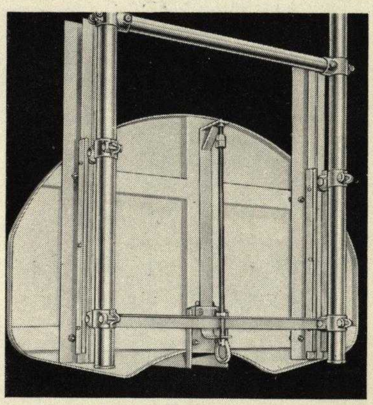


Design patent 180677
Mechanical patent 2865634

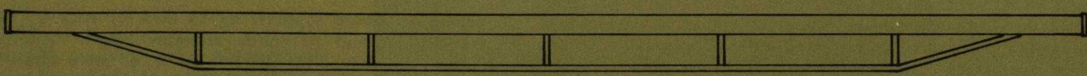
Rear view showing fan shaped backstop attached to superstructure.



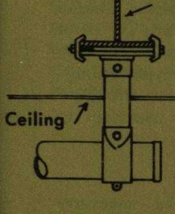
New adjustable backboard. Height of backboard above floor is adjustable to accommodate all age groups. Operated with removable crank from floor for 8′ to 10′ goal height. Fits most types of backstop apparatus.
MODEL 810



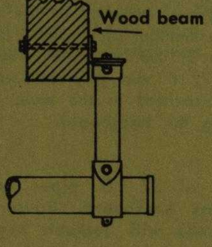
typical details of overhead superstructure



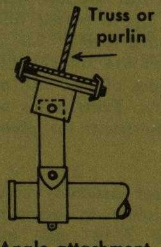
Bridged 3″ I.D. overhead pipe
Recommended when distance between suspension points are 16 ft. or more apart



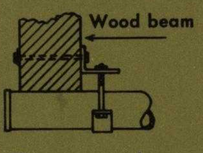
Ceiling drop



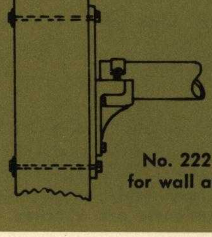
Pipe suspended below wood beam



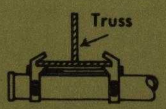
Angle attachment can be used when truss or purlin sets on angle



Pipe connected directly to wood beam

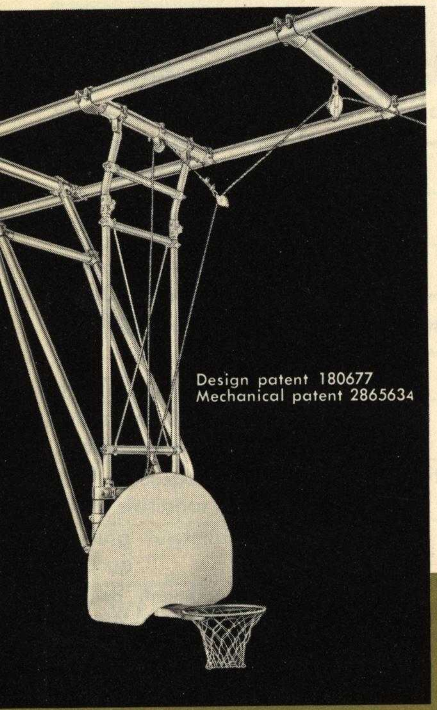


No. 222 bracket for wall attachment



No. 184 beam clamp for standard truss connection

FORWARD FOLD • standard model 112F

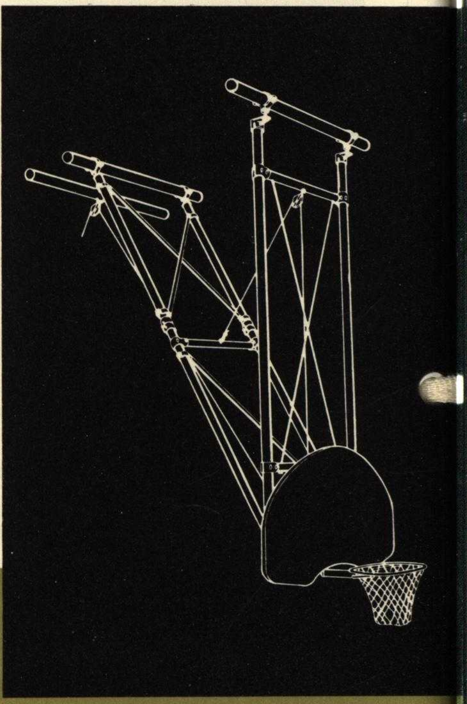


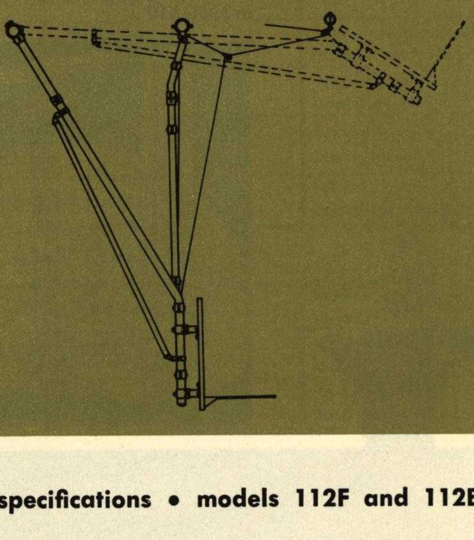
Design patent 180677
Mechanical patent 2865634

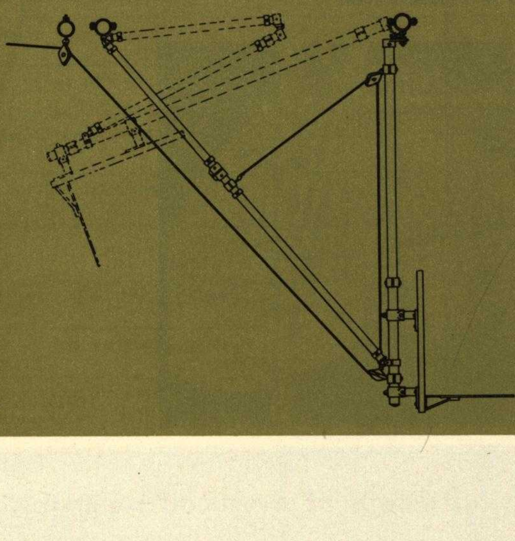
These units can be used in front of a stage, for cross courts, or at other points where it is advantageous to raise the backstops up out of the way when not in use. Weight of the backstop keeps the hinge closed in playing position but unlocks automatically as winch is operated. Lowering the backstop automatically pulls the hoist cable up out of the way. Entire assembly withstands practically all backward motion and vibration when a ball strikes the backboard. Retracting cable is steel rope.

BACKWARD FOLD • standard model 112B

This model can frequently be used where truss or building conditions such as lighting or heating units would interfere with forward fold-up installation. For satisfactory operation, the distance from wall to the face of backboard must not be less than the truss height minus 9 ft.







general specifications • models 112F and 112B

Overhead supports—Unless otherwise stated on quotations all ceiling suspended backstops are furnished with all pipe and fittings for a complete installation. Horizontal support pipe 3″ I.D. attached to roof trusses with extra heavy malleable iron beam clamps. Wall brackets are furnished where pipe attaches to wall.

Bank extensions—6″ extension standard—2 ft. extension furnished upon request at slight additional cost.

Fittings—Certified malleable fittings tested to more than 50,000 psi tensile strength.

Hoist cable—5/16″ 6x19 plow steel wire hoist cable. 3.7 tons tensile strength.

Backstop frame—Shipped assembled.

No. 112F

Main support assembly, consists of two 2″ I.D. pipes bent 30° from vertical, pivot around a 3″ I.D. pipe. Spaced to accommodate the selected backboard by two 2″ I.D. pipe spacers located near the lower end and one 1½″ I.D. adjustable spacer located about 3 ft. from the pivot end. Additional stiffeners are attached midway between the backboard supports to the back of each 2″ I.D. support pipe and extend up about two-thirds assembly length. Additional cross pipes are provided when pivot point is 24 ft. or more above floor.

The vertical support assembly consists of two 1½″ I.D. pipes, hinged near the top to permit folding and attached at the lower ends by pivot type supports to a 2″ I.D. cross member of the main support assembly. The upper ends are attached to a 3″ I.D. pipe with the same type fittings. Spacer pipes of 1½″ I.D. and 7/16″ dia. guy rods with locknuts are used for rigidity. Extra holes are provided in the main support assembly to permit adjustment for plumbing the backboard.

No. 112B

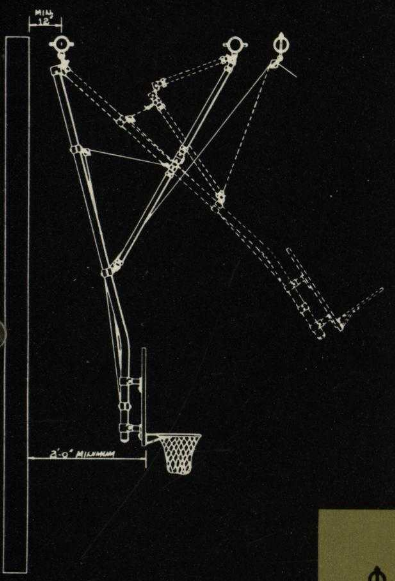
The vertical assembly consists of 2″ I.D. pipes spaced the necessary distance apart to accommodate backboard. Spacer pipes of 2″ I.D. pipes and 7/16″ dia. guy rods with locknuts are used for rigidity. Vertical assembly is hinged at the top to permit raising the backstop.

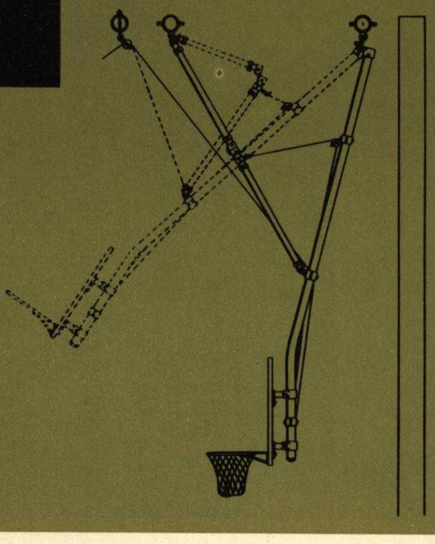
The brace assembly consists of 1½″ I.D. pipes and spacers hinged on both ends and near center to permit folding. Cross bracing, ¼ x 1¼″ steel straps.

- ceiling suspended
- swing-up and stationary types

FORWARD FOLD • special model 110F

This backstop is designed for use where a ceiling suspended, forward fold type backstop is required and bank location (close to wall) will not permit the use of our standard forward fold backstop. Front brace pipe assembly is hinged to permit raising of backstop.



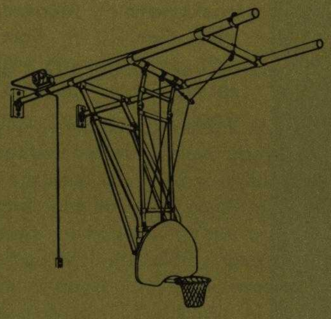


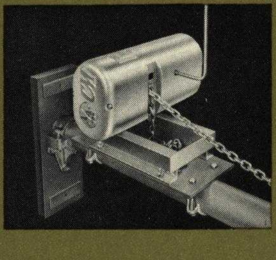
general specifications • model 110F

Main assembly constructed of 2" pipe and 1½" pipe bracing. Hinged assembly is 1½" pipe. Aluminum finish on all pipe and fittings. Brace pipe is equipped with positive lock. Automatically locks or unlocks at playing position by proper arrangement of hoist cable. Fittings for all assemblies are of malleable iron type. This unit furnished complete with WG-53 winch, cover, pulleys, 5/16 in. steel cables, etc., for a complete installation. Backstop frame shipped assembled.

HOISTING EQUIPMENT

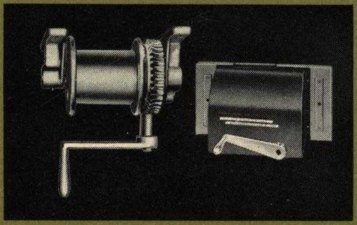
No. 190 automatic electric hoist (optional)

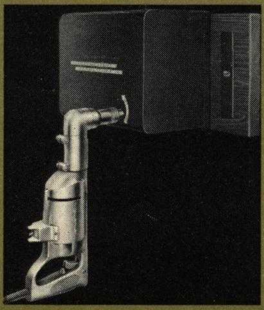




Completely automatic electric hoist. Push button control raises or lowers backstop. Control stations can be grouped in one location for operating several backstops. (Wiring not included.)
Electric hoist is fully enclosed in a die cast aluminum housing.
Precision double shield ball bearings used throughout the load lifting mechanism.
Electric hoist is designed to operate for an extended period without additional lubrication. Gears are packed with a non-oxidizing grease which need not be replenished. Moulded nylon gears and nuts in limit switch need no lubrication.
Heavy duty, vertical disc type brake, responds to push button. Brake holds in all positions. Will not release in case of faulty adjustment, excessive wear, or power failure.
Upper and lower safety limit switches are built in hoist. Can be set easily to shut off at both upper and lower positions.
Flexible link chain of hardened alloy steel pulls freely in all directions. It will not jam, kink, or fray. Extremely strong.
Each hoist is tested with 25% overload. Designed with a safety factor of 5. Operates on 110 volt, single-phase current.

standard winch hoists

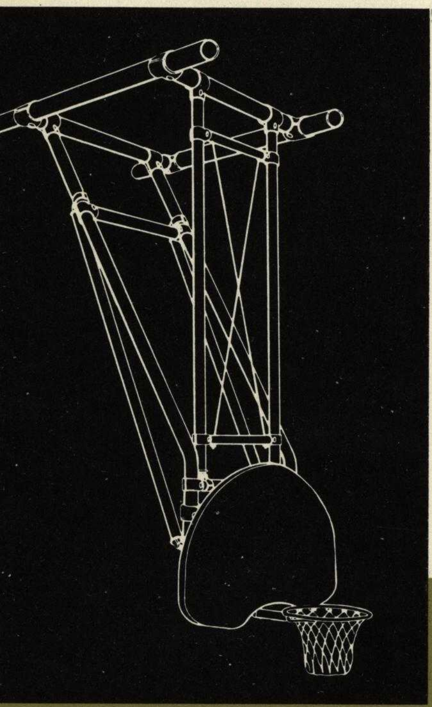




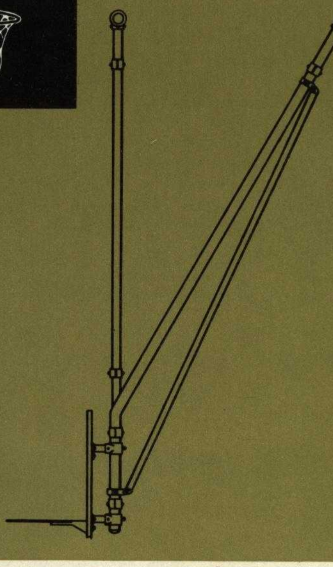
(Left) No. WG-53 Winch with No. 21 Cover.
Fully enclosed safety worm gear winch has removable handle with roller type grip. Gear ratio of 36 to 1 holds backstop in any position. Furnished with 2 x 12 x 24 in. mounting board with 2 anchoring holes reinforced with steel battens. Finished in dark gray enamel. Special gear lubricant furnished with winch when purchased with backstop. Weight 60 lbs.

(Right) No. 19 Electric Winder with No. WG-53 Winch.
Light weight of 11 lb. makes operation easy. Winder has reversing switch to permit use in both raising and lowering. Right angle drive for easy handling. Motor is a heavy duty single phase 115-120 volt A.C. ⅓ horsepower. One winder can be used to operate several backstops.

CEILING BRACED • stationary model 113T



This type is suggested when moving the backstop out of the way is not necessary. It is also recommended where the backboard is located more than 10 ft. from wall, or where wall will not support wall mounted types.



general specifications • model 113T

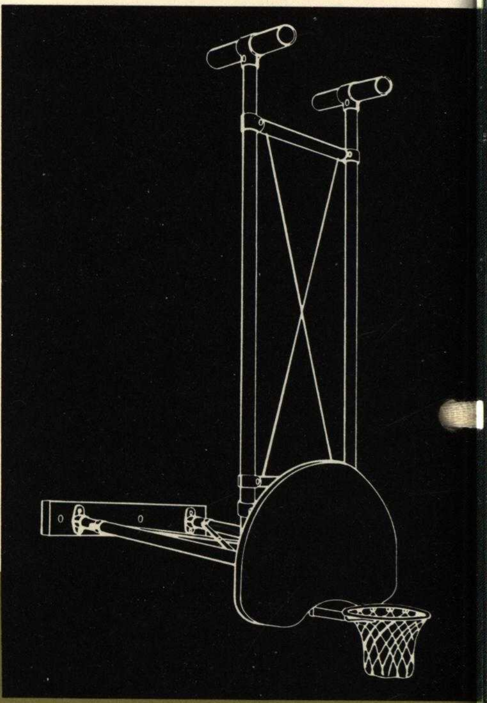
The main support assembly, consisting of two 2″ I.D. pipes bent 30° from vertical, clamp around a 3″ I.D. pipe. They are spaced the necessary distance apart to accommodate the proper backboard by two 2″ I.D. pipe spacers located near the lower end and one 1½″ I.D. adjustable spacer located about 3 ft. from upper end. Additional stiffeners are attached midway between backboard supports to the back of each 2″ I.D. support pipe and extend up about two-thirds assembly length.

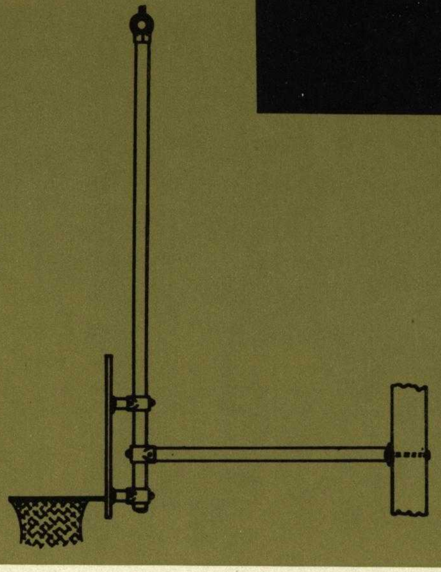
The vertical assembly consists of two 1½″ I.D. pipes, attached at the lower end by tee clamps to a 2″ I.D. cross member of the main support assembly. The upper ends are attached to a 3″ I.D. pipe with similar type fittings. Spacer pipes of 1½″ I.D. and 7/16″ dia. guy rods with locknuts are used for rigidity. Extra holes are provided in the main support assembly to permit adjustment for plumbing the backboard.

Backboard attachments are anchored to the main frame with slip-type fittings and have extra backboard attachment holes to provide vertical adjustment. Backstop frame shipped assembled.

WALL BRACED • stationary model 113W

Recommended where backboard is located 10 ft. or less from wall, and wall will not support wall mounted types, and where it is not necessary to move backstop out of the way.





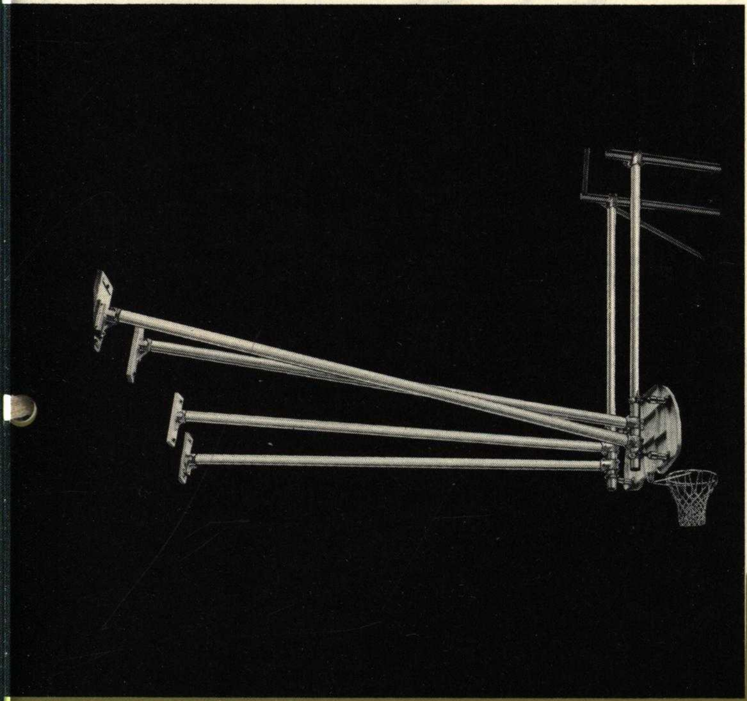
general specifications • model 113W

Vertical assembly consists of 2″ I.D. pipes spaced the necessary distance apart to accommodate backboard. Spacer pipes of 2″ I.D. pipes and 7/16″ dia. guy rods with locknuts are used for rigidity.

Horizontal braces consist of two 1½″ I.D. pipes anchored to wall on one end and to the vertical assembly on the other. Cross bracing, ¼ x 1¼″ steel straps. Furnished with fir wall pad and anchors. Backstop frame shipped assembled.

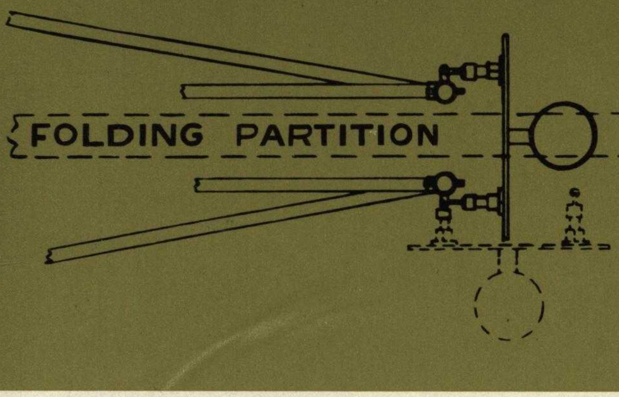
■ WALL BRACED • gate type model 18T

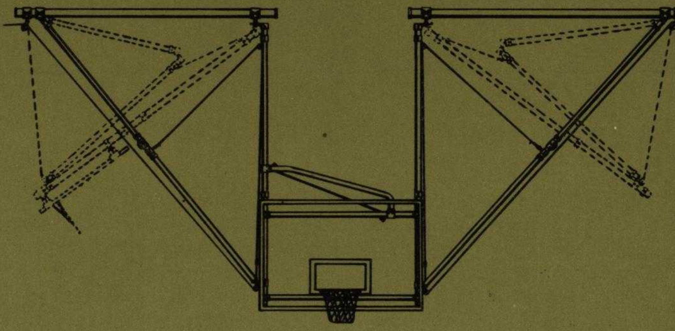
This type can be used to advantage when it is necessary to place the backboard directly in the path of a folding partition or curtain. The backboard itself is mounted on hinges and when released, can be swung to one side. Main framework remains stationary. Constructed of 2" I.D. pipe and malleable iron fittings. Furnished complete with wall brackets, etc. Aluminum finish on pipe and fittings.



■ SWING-UP • special gate type model 18TF

When conditions require a fold-up backstop and also permit folding partition travel (folding partition at right angles to stage), here is a backstop designed to fulfill both needs. Actually a double backward fold backstop consisting of two (2) units similar to the 112-B shown on Page 4. When in playing position, the backboard is attached to both folding assemblies. Before hoisting, disconnect one side of backboard, swing around and attach to one folding assembly. Requires two (2) winches. Aluminum finish on pipe and fittings. Furnished complete for installation. Backstop frame shipped assembled.





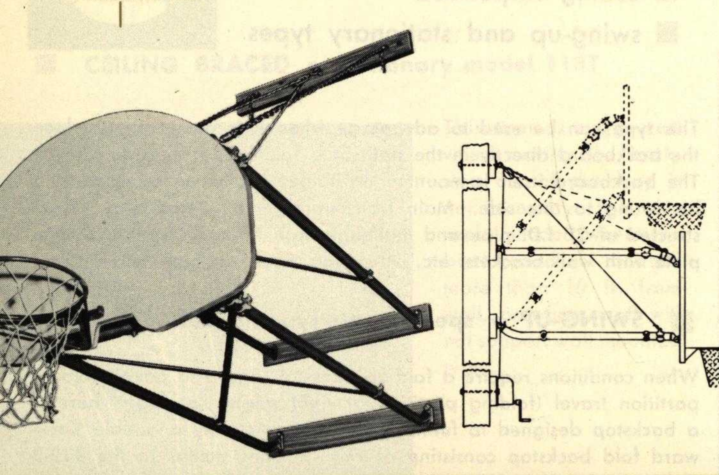
general specifications • model 18T

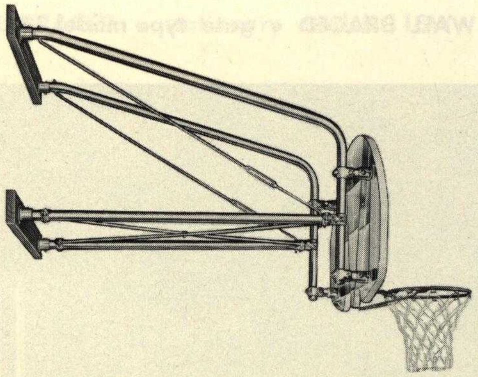
Vertical and horizontal supports consists of 2" I.D. pipe. Four horizontal supports are spread far enough apart at the wall to permit anchorage to the wall at both sides of folding door recess. Backboard is mounted on hinges to permit it to swing out of folding partition path. Furnished complete with wall pads, anchors, etc. for a complete installation.

general specifications • model 18TF

Vertical assemblies consists of 2" I.D. pipe spaced the necessary distance apart to accommodate backboard. Spacer pipes of 2" I.D. pipe and 7/16" diameter guy rods with locknuts are used for rigidity. Oblique brace assemblies consists of 1½" I.D. pipes hinged on both ends and near center to permit folding. Cross bracing is ¼ x 1¼ steel straps. When not in use backboard swings around and connects to opposite side of one frame. Entire unit can then be folded up. Furnished complete with winches, cables, etc. for a complete installation.

WALL MOUNTED MODELS





SWING-UP • model 15

A more economical type swing-up backstop that can be used if the backboard is not more than 9 ft. from the wall. To swing up properly, a ceiling height of 12′-8″ plus the length of extension is necessary. Constructed of 1½″ I.D. pipe and malleable iron fittings. Cross bracing ¼ x 1¼″ flat mild steel. Safety chains are #8-0 attached to upper wall pad and behind backboard. Douglas Fir wall pads finished in two coats clear varnish. Aluminum finish on all pipe and fittings. Furnished complete with #WG53 winch and cover, cables, anchors, etc. for a complete installation.

15E—4 Ft. Extended
15F—5 Ft. Extended
15G—6 Ft. Extended
15H—7 Ft. Extended
15J—8 Ft. Extended
15K—9 Ft. Extended

WALL MOUNTED • stationary model 12

This is the simplest type of mounting and can be used where the backboard is not located over 10 ft. from the wall. Constructed of 1½″ I.D. pipe and malleable iron fittings. Cross bracing ¼ x 1¼″ flat mild steel. Guy rods ⅜″ dia. steel with turnbuckles. Douglas Fir wall pads are finished in two coats clear varnish. Aluminum finish on all pipe and fittings. Furnished complete with wall anchors. Extensions less than 3 ft. modified as required.

12A—0 Ft. Extended
12B—1 Ft. Extended
12C—2 Ft. Extended
12D—3 Ft. Extended
12E—4 Ft. Extended
12F—5 Ft. Extended
12G—6 Ft. Extended
12H—7 Ft. Extended
12J—8 Ft. Extended
12K—9 Ft. Extended
12L—10 Ft. Extended

WALL MOUNTED • side fold model 16

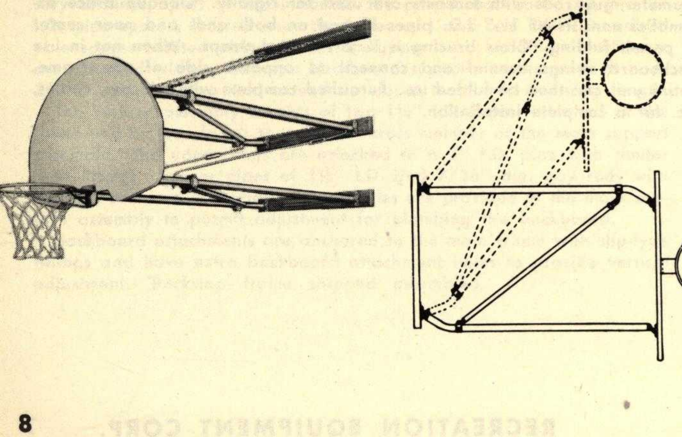
This model is very similar in appearance to the wall mounted swing up type, but is less expensive since a winch is not required. Folds sideways against the wall simply by pushing on the backboard which unlocks diagonal brace. Folds in space equal to distance from backboard to wall. Constructed of 1½″ I.D. pipe and malleable iron fittings. Telescoping diagonal braces hold backstop firmly in playing position. Guy rods ⅜″ dia. steel with turnbuckles. Safety chains #8-0. Douglas Fir wall pads finished in two coats clear varnish. Aluminum finish on all pipe and fittings. Furnished complete with wall anchors.

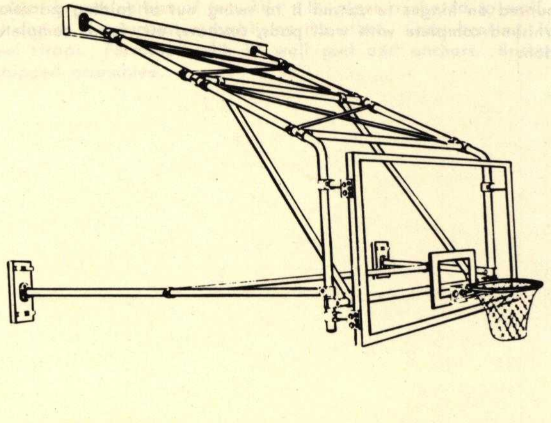
16E—4 Ft. Extended
16F—5 Ft. Extended
16G—6 Ft. Extended
16H—7 Ft. Extended
16J—8 Ft. Extended
16K—9 Ft. Extended

WALL BRACED • stationary model 120

This model is recommended where the upper wall pad is located above wall obstructions such as windows etc. The lower pads can also be set on either side of doors or windows. Constructed of 1½″ I.D. pipe, malleable iron fittings and steel stampings. Cross bracing ¼ x 1¼″ flat mild steel. Douglas fir wall pads are finished in two coats clear varnish. Aluminum finish on all pipe and fittings. Furnished complete with wall anchors.

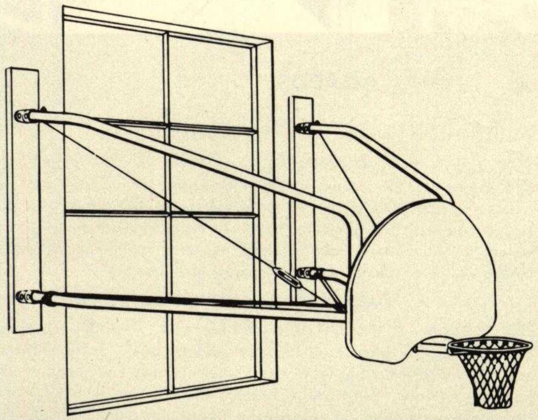
120G—6 Ft. Extended
120H—7 Ft. Extended
120J—8 Ft. Extended
120K—9 Ft. Extended
120L—10 Ft. Extended
120M—11 Ft. Extended
120N—12 Ft. Extended





■ wall mounted

■ portable ■ pedestal



■ WALL BRACED • window span model 17

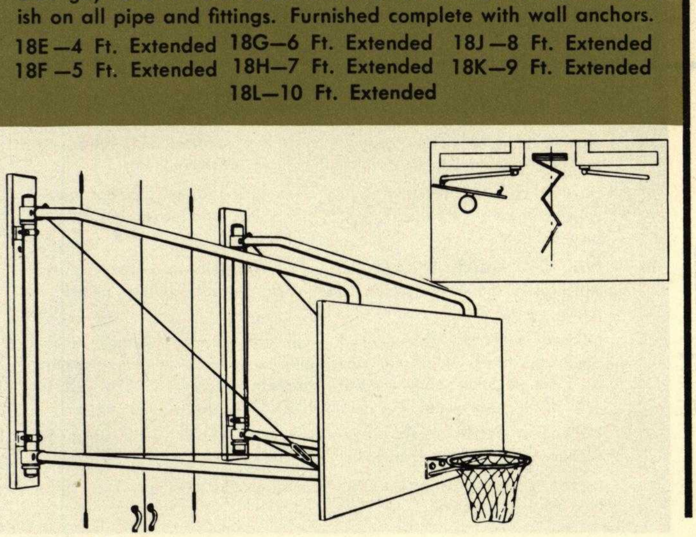
Especially designed for spanning window openings or other obstructions. Douglas fir wall pads can be located to suit building conditions. Constructed of 1½'' I.D. pipe, malleable iron fittings, and steel stampings. Cross bracing ¼ x 1¼'' flat mild steel. Side guy rods ⅜'' dia. steel rod and turnbuckles. Aluminum finish on all pipe and fittings. Furnished complete with wall anchors.

17E—4 Ft. Extended	17H—7 Ft. Extended
17F—5 Ft. Extended	17J—8 Ft. Extended
17G—6 Ft. Extended	17K—9 Ft. Extended
17L—10 Ft. Extended	

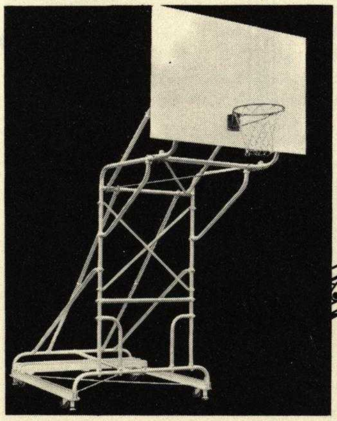
■ WALL MOUNTED • gate type model 18

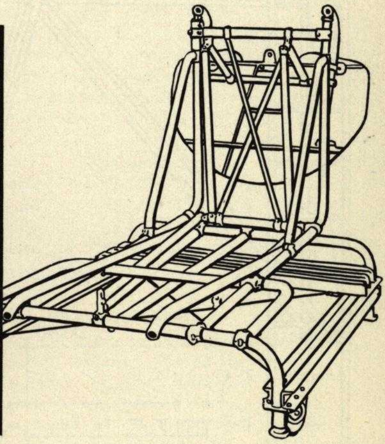
Where the backboard is located in the path of a folding partition and the backboard is located 10 ft. or less from the wall, this is the most economical folding type backstop. Lower cross bracing is steel cables which can be disconnected easily by snap-open type connectors. This enables the backstop to swing apart easily to permit folding partition travel. No bolts to be removed. Douglas fir wall pads can be set to span opening. Constructed of 1½'' I.D. pipe, malleable iron fittings, and steel stampings. Side guy rods ⅜'' dia. steel rods and turnbuckles. Aluminum finish on all pipe and fittings. Furnished complete with wall anchors.

18E—4 Ft. Extended	18G—6 Ft. Extended	18J—8 Ft. Extended
18F—5 Ft. Extended	18H—7 Ft. Extended	18K—9 Ft. Extended
	18L—10 Ft. Extended	



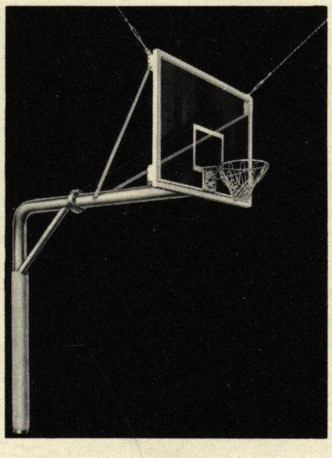
■ PORTABLE MODELS • model 22

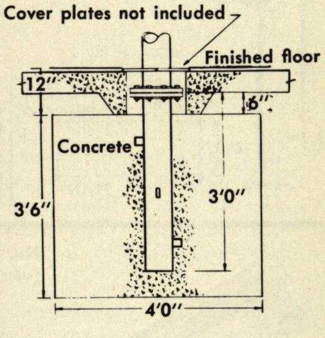




Standard portable backstops are recommended where other types are not practical or where it is desired to remove out of sight. These units are equipped with weight racks for anchoring (Weights not included). Rubber shod screw adjustments raise rubber tired casters off the floor, adjust height and level goal. Base size is 6 ft. 3 in. wide by 6 ft. 9 in. long. Backboard overhang is 5 ft. Length in playing position 11 ft. 9 in. Overall folded size 6¼ x 6 ft. If stage type is desired (#23), give height of stage above floor.

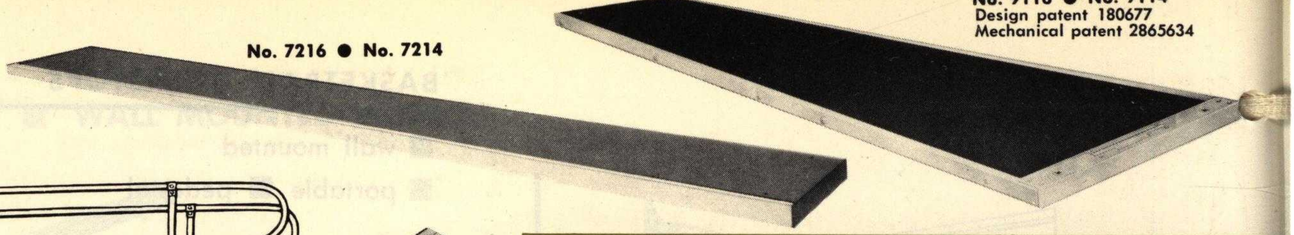
■ PEDESTAL TYPE • model 312P



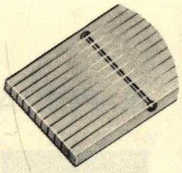


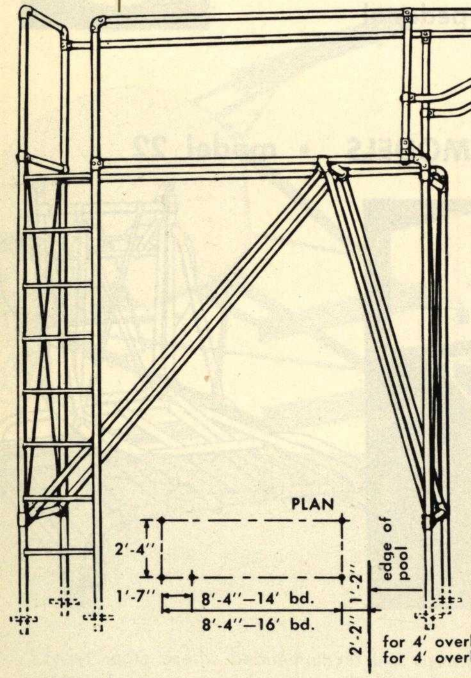
A permanent type backstop for high school or field-house use, and recommended where truss heights preclude use of overhead suspended types. Single pipe construction holds obstruction of view to a minimum. Rigidly constructed of 6 in. I.D. pipe with 3 in. I.D. pipe brace.

Furnished complete with padding and 5/16'' steel guy cables to roof. Pipe finished in aluminum. Distance from center of vertical pipe to face of backboard, 9 ft. Entire pipe assembly, including base, should be assembled and located in gym, with pipe braced firmly in position, before concrete is poured. This insures proper alignment of sections. CONCRETE BASE AND COVER NOT INCLUDED.

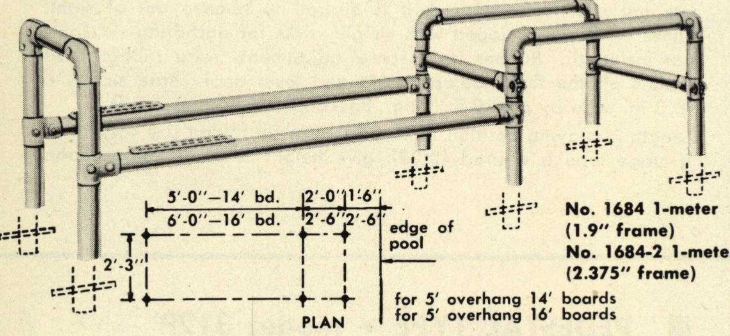

No. 7216 ● No. 7214

No. 9116 ● No. 9114
Design patent 180677
Mechanical patent 2865634

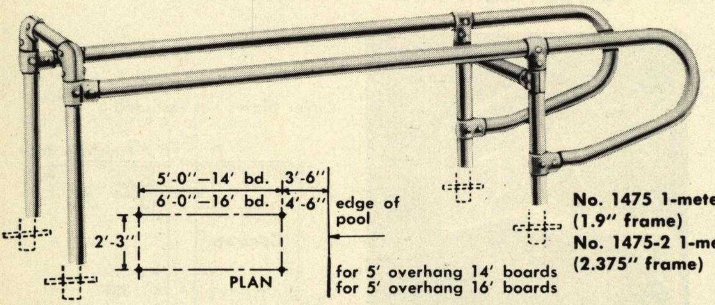

"Blind" stitch bolt



No. 1481 3-meter (1.9" frame)



No. 1684 1-meter (1.9" frame)
No. 1684-2 1-meter (2.375" frame)



No. 1475 1-meter (1.9" frame)
No. 1475-2 1-meter (2.375" frame)

DIVING BOARDS

Laminated wood diving boards

No. 7216—16' board; No. 7214—14' board—Made of the highest grade straight grain Douglas Fir. Skid-proof safety enamel tread with abrasive material suspended in pigment. Tips reinforced with a "blind" stitch bolt. Also available with multiple layers of fiberglas. Scientifically tapered from tip to center of board to give official action as well as durability.

Townsend "dual action" aluminum diving boards

No. 9116—16' board; No. 9114—14' board—Constructed of special alloy aluminum tubular sections, especially engineered to give official action with every dive. Ends the broken diving board problem. Skid-proof safety enamel tread with abrasive material suspended in pigment. 3-year warranty. (Pat. Pend.)

features

Frames made of new hot galvanized structural steel pipe or Type 304, 320 grit finish stainless steel. Available in 1.9" O.D. or 2.375" O.D. sizes. Frames rigidly locked together by split clamp fittings. Stair treads have 20 grooves running full width for extra non-slip safety. Engineered for "heavy duty" use.

three meter frame

No. 1481 galvanized; No. S-1481 stainless—Handrails looped forward of front legs for utmost safety. Choice of fulcrum (single, dual, or quick adjustable). Can be made for 14' or 16' boards. For permanent installation in concrete with anchor rods (for removable frame, specify socket anchors).

one meter frame

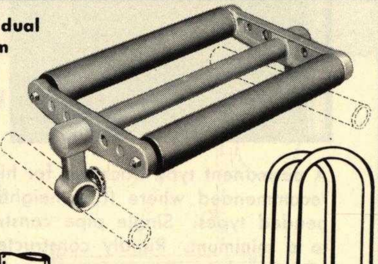
No. 1684 galvanized; No. S-1684 stainless—YMCA style with anti-slip step on each side bar. Especially designed to accommodate quick adjustable fulcrum, but can be supplied with single or dual fulcrum. Can be made for 14' or 16' boards. For permanent installation in concrete with anchor rods (for removable frame, specify socket anchors).

No. 1475 galvanized; No. S-1475 stainless (stainless available in 1.9" O.D. only)—This frame especially made to fit narrow walkway conditions. Only available with single or dual fulcrum (quick adjustable fulcrum will not fit). Can be made for 14' or 16' boards. For permanent installation in concrete with anchor rods (for removable frame, specify socket anchors).

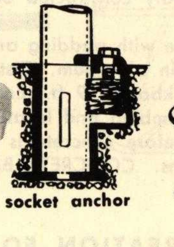
Specifications

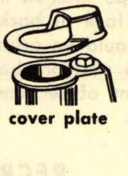
All swimming pool equipment shall be as manufactured by Recreation Equipment Corporation, Anderson, Indiana, and shall be installed in accordance with manufacturers instructions. FRAME: Shall be .... meter frame No. .... constructed of (galvanized iron; or stainless steel type 304, 320 grit finish) .... in. O.D. Frame shall be *(permanently installed* in concrete using anchor rods; or shall be *removable* using socket anchors). State which. SOCKET ANCHOR: Shall be installed in concrete, adhering strictly to spacing of frame legs. DIVING BOARD: Shall be .... (laminated wood; or aluminum) No. ...., length (14 or 16 ft.). (Aluminum board shall carry 3 years warranty). FULCRUM: Shall be (single, dual, or quick adjustable) No. .... with 5/8" live rubber. HAND RAIL and STEP: Shall be Type HRS .... (galvanized or stainless steel.) COVER PLATE: Shall be No. .... and satin chrome finish.

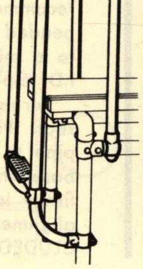
No. S single fulcrum


No. D dual fulcrum

No. QA quick adjustable


socket anchor


cover plate


HRS handrail and step

FULCRUM • SOCKET ANCHOR

No. S single fulcrum—5/8" thick live rubber, 22" long. Adjustable—hand wheels lock unit in one position.

No. D dual fulcrum—Same as single fulcrum, except has 2 rubber rollers 14" apart, which broadens and eases bending of boards.

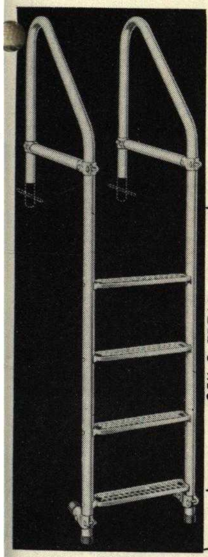
No. QA quick adjustable—For championship use—readily adjustable between dives, does not permit diving board to move up or down.

socket anchor—Galvanized iron with bronze wedge secures pipe legs firmly in place, yet allows easy removal of equipment. Can be shipped ahead when concrete is poured. No. 70 for 1.9" O.D. pipe. No. 201 for 2.375" O.D. pipe.

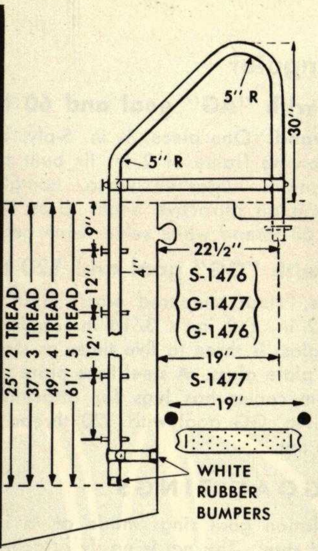
HRS handrail and step—Makes it easier and safer for swimmers to mount frame.

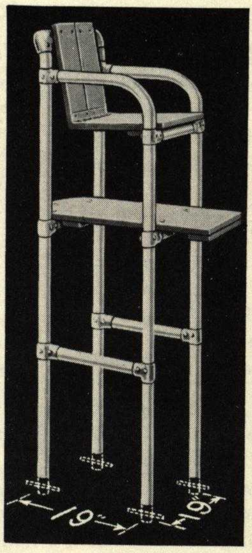
cover plate—Satin Finished Chrome. No. 69 for 1½" pipe, No. 65 for 2" pipe.

■ diving boards ■ frames, etc.
■ pool cleaning equipment



No. 1476





No. 1490

■ LADDER • CHAIR

pool ladder

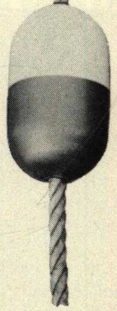
galvanized and stainless—Vertical risers made of 1.9'' O.D. new hot galvanized structural steel pipe or Type 304 stainless steel with 5'' radii bends for graceful appearance. Anti-slip treads 3'' wide and 19'' long. Top of ladder is permanently installed in concrete with anchor rods. For removable ladders, specify No. 70 socket anchors (see page 10).

		Galvanized	Stainless Steel
With cross brace	3 tread	G-1476-3	S-1476-3
Without cross brace	3 tread	G-1477-3	S-1477-3
With cross brace	4 tread	G-1476-4	S-1476-4
Without cross brace	4 tread	G-1477-4	S-1477-4

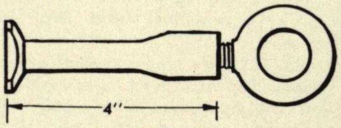
guard chair

G-1490 galvanized; S-1490 stainless—Made of 1.9'' O.D. new hot galvanized structural steel pipe or Type 304 stainless steel, rigidly locked together with smooth split clamp fittings. 6' high. Seat and back rest made of 5/4'' Douglas Fir. 2 lifebuoy hooks and one umbrella holder. Made for permanent installation in concrete with anchor rods. For removable guard chair, specify No. 70 socket anchor (see page 10).

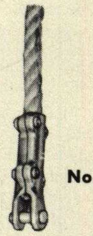
No. 495-P6



No. 498

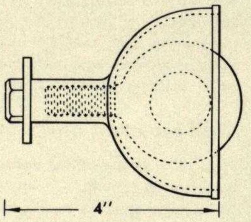


No. 1495-SW



No. 495AT

No. 498AT



No. 495-RW

■ LIFE LINES • WALL ANCHORS

No. 495-P6 life lines—¾'' waterproofed manila rope with 4½'' x 9'' red and white plastic floats spaced 6' on center. Also available in ¾'' polyethylene (No. 496-P6).

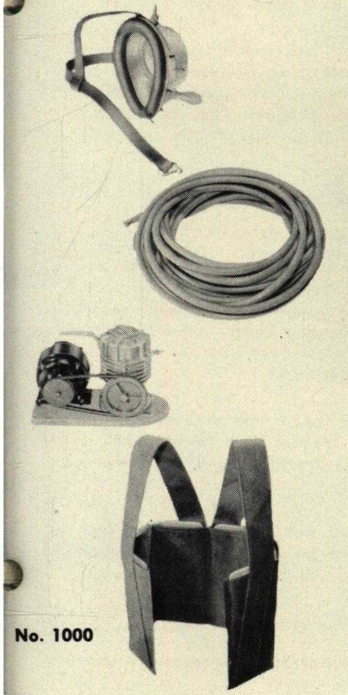
No. 495AT attachments—Heavy bronze attachment clamps with clevis pin action for easy removal of life-line.

No. 498 racing lanes—⅜'' waterproofed manila rope with 3'' x 5'' red and white plastic floats spaced 5' on center. Also available in ⅜'' polyethylene (No. 499).

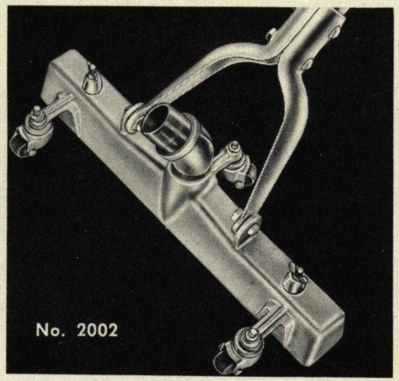
No. 498AT attachments—Brass attachment clamp with brass snap ring for easy removal of racing lanes.

No. 1495-SW wall anchors—Standard bronze wall anchors made for flush mounting, ⅝'' diameter eye bolt.

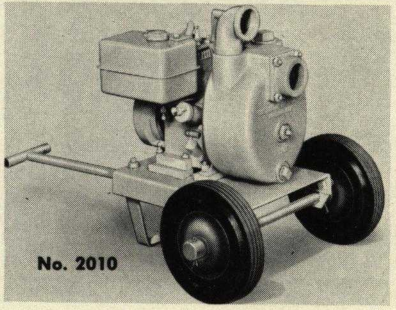
No. 495-RW wall anchors—Recessed bronze wall anchors made for recessed mounting of ⅝'' diameter eye bolt.



No. 1000



No. 2002



No. 2010

Write for complete catalog.

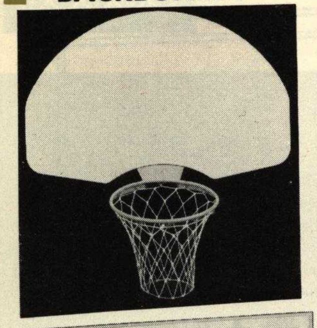
■ POOL CLEANING EQUIPMENT

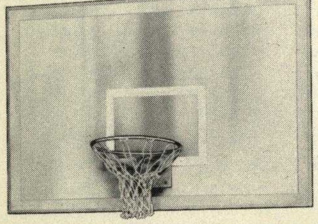
No. 1000 diving mask outfit—Includes aluminum mask (wt. 7#) with soft pneumatic face tube to fit any face comfortably, 100' air hose, air compressor with ⅓ h.p. 110 volt motor, and waterproof canvas jacket with 6 galvanized iron weights. Quickest and best way for lifeguard or other personnel to clean deep end of large pools.

No. 2002 suction cleaner—Rustproof bronze suction cleaner is rugged and simple. Silt stirred by the brush is drawn out through the hose. It will pick up stones, silt, leaves, and most ordinary pool refuse without clogging. Cleaner measures 2½'' wide x 20'' long. The two-row stiff nylon brush is fitted with brass springs to maintain positive contact with surface. Firm rubber wheels on ball bearing swivels can be adjusted for height. 5' handle for use with diving mask.

No. 2010 gasoline powered pump—Simplified, compact design with self-cleaning action, 1½'' pump with dual volutes for fast automatic priming, 4000 GPH capacity for use with No. 2002 suction cleaner. Available either as gasoline or electric powered units. Gasoline engine is 1½ h.p. 4-cycle, single cylinder air cooled. Electric motors are 1½ h.p., 110/220 volt single phase or 220/440 volt 3-phase.

BACKBOARDS





fan shaped

14FM with "MG" goal and 60 thread net

Steel: This single sheet 12-gauge steel backboard has smooth 1½ in. wide rolled edges; and arc welded reinforcing channels. The finish is eggshell non-glare enamel. Uses No. MG goal with 60 thread white seine twine net.

14FS with "AG" goal and 60 thread net

Plywood: The face of this bank is ¾ in. 5-ply fir. Reinforcing consists of three 1¼ in. x 6 in. stiffeners fastened to the back. It is finished in eggshell non-glare enamel. Uses No. AG goal with 60 thread white seine twine net.

14FG with "GG" goal and 120 thread net

Glass: Heat tempered glass, ⅜ in. thick, is set in a steel frame. Glass assures livelier rebounds and improves end-court visibility. A 2 in. wide white border and center rectangular target can never wear off. Uses No. GG goal with 120 thread white seine twine net.

rectangular

14RP with "AG" goal and 60 thread net

Plywood: One piece, ¾ in. 5-ply, backed by a reinforcing frame of 2 in. fir built to regulation dimensions. Eggshell white, non-glare enamel gives it an attractive finish. Uses No. AG goal with 60 thread white seine twine net.

14RG with "GG" goal and 120 thread net

Glass: Heat tempered glass, ½ in. thick is set into 2 in. x 2 in. x 3/16 in. angle iron frame. This glass is three to five times as strong as ordinary plate glass. A steel face plate bolted to the bottom center has lugs for attaching the goal. Uses No. GG goal with 120 thread white seine twine net.

GOAL RINGS

Regulation goal rings made of ⅝ in. dia. cold rolled steel. The net is easily attached by means of "no-tie" welded loops. Front or rear mounting rings are available. Finished in official bright orange baked on enamel.

TYPICAL BASKETBALL BACKSTOP SPECIFICATIONS

All basketball backstops shown on plans or covered by the specifications shall be as manufactured by Recreation Equipment Corp., Anderson, Indiana or approved equal.

Overhead supports

Backstops shall be suspended from 3" I.D. pipe anchored to roof or ceiling members by means of extra sturdy malleable iron beam clamps. Cross pipes of 3" I.D shall span overhead pipe when latter is parallel to longitudinal center line of backstop. Superstructure of cradle type design shall be used when truss height is excessive. When anchoring points are more than 16 ft. on center, overhead pipe shall be reinforced 3" I.D. pipe. Truss anchors shall be installed prior to installation of finished ceiling to provide suspension points below ceiling for 3" I.D. pipe.

Ceiling suspended backstops (See selector guide on page 2)

No. 112F forward fold—Main oblique support assembly shall be 2" I.D. pipe, spaced to accommodate selected backboard by two 2" I.D. pipe spacers located near lower end one 1½" I.D. adjustable spacer located in upper section of frame. Additional 1½" I.D. pipe stiffeners shall be attached midway between the backboard supports to the back of each 2" I.D. support pipe and extends upward two-thirds assembly length attaching at upper end to main supports. Vertical supports shall be 1½" I.D. pipe hinged near the top and at upper and lower ends to permit folding. Spacer pipes shall be 1½" I.D. cross guyed with 7/16" dia. rods with locknuts.

No. 110F forward fold—Main oblique support assembly shall be 2" I.D. pipe, spaced to accommodate selected backboard by 1½" I.D. pipe spacers. Intermediate 1½" I.D. pipe stiffeners shall connect to lower spacer pipe and to spacer pipe located near center of assembly. Front oblique assembly shall be 1½" I.D. pipe hinged on both ends and near center. Cross bracing shall be ¼ x 1¼ mild steel straps.

No. 112B backward fold—Vertical assembly shall be 2" I.D. pipe spaced to accommodate selected backboard by 2" I.D. pipe and cross guyed with 7/16" dia. rods with locknuts. Assembly shall be hinged at top to permit folding. Oblique brace assembly shall be 1½" I.D. pipe and spacers hinged on both ends and near center. Cross bracing shall be ¼ x 1¼ mild steel straps.

No. 113T stationary self braced—Main oblique support assembly shall be 2" I.D. pipe, spaced to accommodate selected backboard by two 2" I.D. pipe spacers located near lower end and one 1½" adjustable spacer located in upper section of frame. Additional 1½" I.D. pipe stiffeners shall be attached midway between the backboard supports to the back of each 2" I.D. support pipe and extend upward two-thirds assembly length attaching at upper end to main supports. Vertical assembly shall be 1½" I.D. Pipe with spacer pipes and cross guyed with 7/16" dia. rods with locknuts.

No. 113W stationary wall braced—Vertical assembly shall be 2" I.D. pipe spaced to accommodate selected backboard by 2" I.D. pipe and cross guyed with 7/16" dia. rods with locknuts. Horizontal braces shall be 1½" I.D. pipe connected to wall and vertical assembly. Cross bracing shall be ¼ x 1¼ mild steel straps. Wall pad shall be fir with wall anchors.

No. 18T gate type—Vertical and Horizontal supports shall be 2" I.D. pipe spaced to accommodate selected backboard and to permit folding partition travel. Backboard attachments shall be hinged to permit backboard to be swung to one side. Wall pads shall be fir with wall anchors.

No. 18TF folding gate type—Vertical and oblique assemblies shall be as specified for Recreation Model 112B. Backboard supports shall connect across the two folding assemblies and hinged to permit backboard to be swung around and attached to one frame for hoisting. Provide winch for each folding section.

Wall mounted backstops

No. 15 wall mounted swing up—Four 1½" I.D. extension pipes shall extend backboard ...... ft. ...... in. (specify distance) from wall. Extension pipes shall have pipe spacers to accommodate selected backboard and cross bracing of ¼ x 1¼ mild steel straps. Provide fir wall pads and anchors. Safety chains shall support outer end of extension pipes and extend upwards at 45° to upper wall pad. Provide wall mounted winch and hoist cable.

No. 12 wall mounted stationary—Four 1½" I.D. extension pipes shall extend backboard ...... ft. ...... in. (specify distance) from wall and spaced to accommodate selected backboard. Lower horizontal extension pipes shall be cross braced with ¼ x 1¼ mild steel straps. Diagonal bracing shall be ⅜" dia. rods with turnbuckles. Provide fir wall mounting pads and wall anchors.

Other wall mounted, portable, and field house backstops

(See selector guide and respective catalog pages for description)

Winch and hoist cable—Winch shall be fully enclosed type, wormgear design, to permit backstop to be automatically held in place at any point during raising or lowering. Winch shall be furnished with removable roller type grip handle. Furnished complete with mounting board and wall bolts. Hoist cable shall be 5/16" diameter, 6 x 19 plow steel wire rope of sufficient length to permit locating the winch as directed.

Sheaves—All swing up backstops shall be equipped with sheaves and all fittings to permit easy hoisting of backstop. Sheaves shall be of sufficient diameter to prevent damage to hoist cable. Provide swivel type where required.

Finish—All backstops, except backboards, goals, cables, winches, bolts and nuts shall be given one (1) coat of aluminum paint at factory. If other finish is desired, specify final painting at job site by painting contractor.

Backboards and goals (See top of page for specifications)

RECREATION EQUIPMENT CORP. ANDERSON • INDIANA

DEPARTMENT SF

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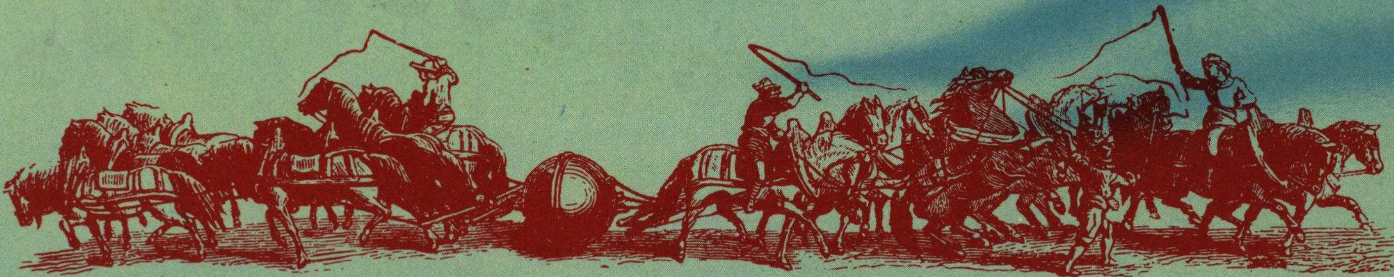


OVER 300 YEARS AGO Otto von Guericke, the German physicist, dramatically demonstrated with his "Magdeburg Hemispheres" the strength of a vacuum.

Vacumite

SWIMMING POOL *filters*

MAKES THE MOST OF NATURAL FORCES

LOW HORSE POWER REQUIREMENTS

LONG FILTER RUNS

EASY INSTALLATION

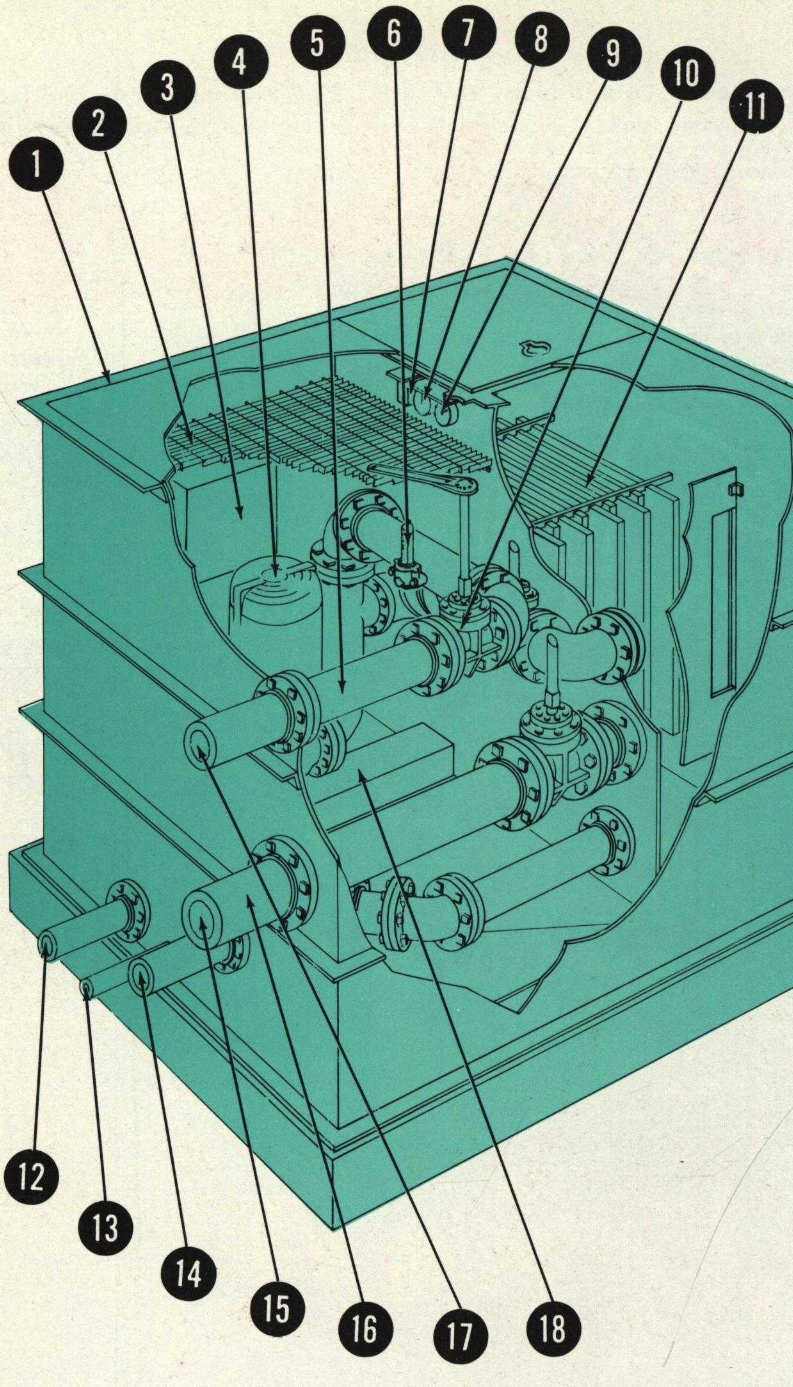
SELF HOUSED (REQUIRES NO FILTER BUILDING)

New Vacumite Filters

Excel in Performance and Economy

Vacumite swimming pool filters overcome the costly problems encountered with old-fashioned pressure systems, whether sand or diatomite. With no high pressure required to force water through filter elements, Vacumite eliminates the tendency to pack diatomite and dirt which so often clogs elements. Vacumite also eliminates the inconvenience of "blind" operation, being an "open" system with the filter cell always visible . . . simple to check, easy to clean.

Vacumite's most notable feature is its lower cost, from installation to operation. It requires no special-built housing and a minimum of space. Hydraulics for Vacumite need only a total of 35 ft. head, as against 50 ft. for sand pressure and 100 ft. for pressure diatomite filters. Vacumite pumps only filtered water, preventing excessive wear on the pump impeller from foreign matter. Actual comparisons prove that it requires 50% more power to operate a sand pressure filter and up to 300% more to operate a pressure diatomite filter. With less cost and less trouble, the swimming pool equipped with a Vacumite filter can be certain at all times of having water that is the clearest possible to attain.



1 ¼" STEEL HOUSING (BITUMASTIC COATED)
2 ALUMINUM GRATING OPERATING PLATFORM
3 ELECTRICAL PANEL
4 CLOSE COUPLED PUMP & MOTOR
5 CAST IRON FLANGE PIPING
6 RATE OF FLOW METER
7 PUSH BUTTON STATION
8 MERCOID LIMIT SWITCH
9 VACUUM GAUGE
10 LUBRICATED PLUG VALVES
11 NON-CORROSIVE FILTER ELEMENT
12 FILTER CELL DRAIN
13 PUMP ROOM DRAIN
14 SCUM GUTTER RETURN
15 FILTER SUPPLY (FROM POOL)
16 CAST IRON SOLID SLEEVES
17 FILTERED WATER (TO POOL)
18 CHANNEL SUCTION HEADER

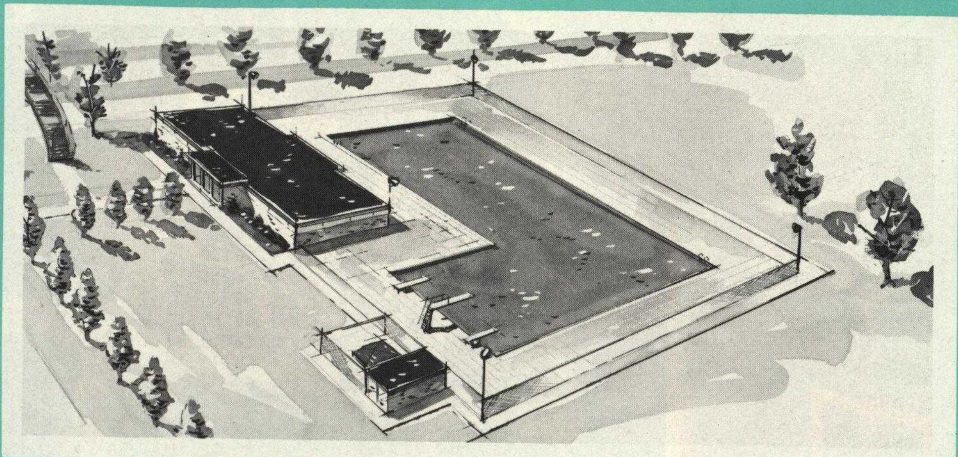
VIP's* Prefer Vacumite

Across the Nation . . .

* Very important pools from coast-to-coast are swinging to Vacumite filtration. Important savings in installation and maintenance, plus crystal clear water and trouble-free operation are deciding factors in Vacumite's favor. Its efficiency and economy appeal to designers and builders of new pools.

Where old pool rehabilitation has taken place, Vacumite cuts over-all costs as much as one-half. Entire rebuilding jobs have been done for substantially less than the original estimates which employed a conventional sand pressure type filter. Make this very important decision *now* for *your* Very Important Pool. Make the filter VACUMITE and have the best!

MUNICIPAL POOLS SELECT VACUMITE



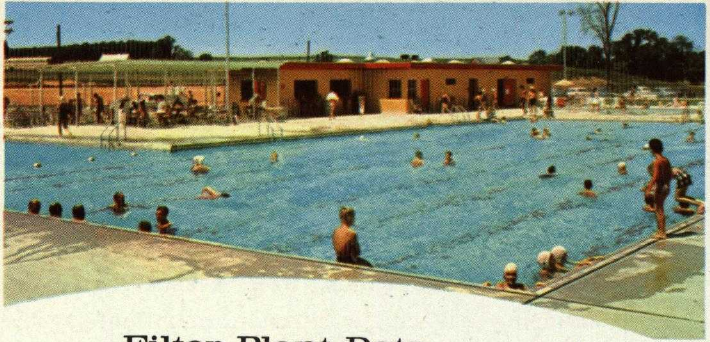
SINTO POOL, SPOKANE, WASHINGTON, 500,000 gal. volume; Vacumite RU-750 • Stanley Witter, Recreation Superintendent • J. J. McInerny, Colfax, Washington, Engineer

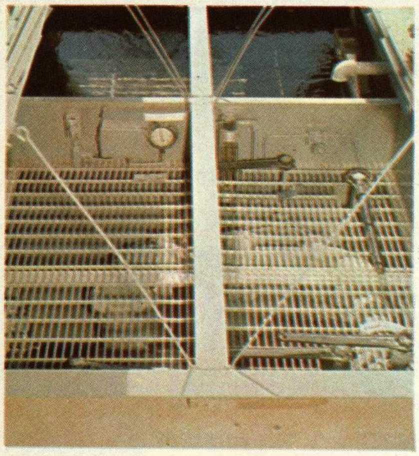
SAUCON PARK POOL, CITY OF BETHLEHEM, PA. • A. Newton Wiegner, City Engineer • 675,000 gal. vol.; Vacumite RU-720

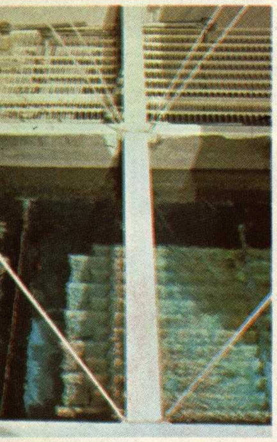
JUNIATA POOL, CITY OF ALTOONA, PA., 400,000 gal. volume, Vacumite CU-420 • Robert R. Smay, Director of Water, Parks and Public Property

A VACUMITE FILTER TO FIT ANY SIZE POOL from large municipal pools shown above to the following smaller recent Vacumite installations: a Vacumite RU-195 for **ROXBURY CLUB POOL** built by E. L. Wagner & Co., Darien, Conn. Vacumite CU-75 for **MAWINGO HOTEL POOL** built by Atlas Machinery Supplies Ltd., Nairobi, Kenya, Africa. Vacumite CU-135 for **WAYNESBORO COUNTRY CLUB,** Waynesboro, Virginia. Vacumite CU-150 for **NORTHERN VIRGINIA AQUATIC CLUB, LEE HIGHWAY,** Arlington, Virginia

RIGHT: Borough of Manheim, Pa.: Vacumite keeps the water sparkling in this large, modern community pool. **BELOW:** Lincoln Park, Reading, Pa.: Vacumite was chosen for this Public Pool, where the importance of pure water cannot be overemphasized.







ABOVE: Vacumite's "open system" filtration eliminates a major problem of maintenance. Just raise the hatches for observation of the operation at any time.

LEFT: Engineered to do a big job in a small area, Vacumite is a compact unit with easy access to all elements. Note the simplified arrangement of filter leaves and pump.

Filter Plant Data

COMMERCIAL, MUNICIPAL AND CLUB INSTALLATIONS BASED ON 8-HOUR TURNOVER, 2 GALLONS PER MINUTE PER SQUARE FEET OF FILTER AREA

Pool Volume	G.P.M.	Model Filter Area	Motor H.P.	Piping	
				Filtered Water	Main Drain
43,200	90	CU 45	2	3″	6″
51,800	108	CU 54	2	3″	6″
57,600	120	CU 60	2	3″	6″
60,480	126	CU 63	2	4″	6″
69,120	144	CU 72	2	4″	6″
72,000	150	CU 75	2	4″	6″
77,760	162	CU 81	3	4″	6″
86,400	180	CU 90	3	4″	6″
100,800	210	CU 105	3	4″	6″
115,200	240	CU 120	3	4″	6″
129,600	270	CU 135	5	6″	8″
144,000	300	CU 150	5	6″	8″
158,400	330	CU 165	5	6″	8″
172,800	360	CU 180	5	6″	8″
187,200	390	CU 195	5	6″	8″
201,600	420	CU 210	5	6″	8″
216,000	450	CU 225	7½	6″	8″
230,400	480	CU 240	7½	6″	10″
244,800	510	CU 255	7½	6″	10″
259,200	540	CU 270	7½	8″	10″
273,600	570	CU 285	7½	8″	10″
288,000	600	CU 300	7½	8″	10″
302,400	630	CU 315	7½	8″	10″
316,800	660	CU 330	10	8″	10″
331,200	690	CU 345	10	8″	10″
345,600	720	CU 360	10	8″	10″
360,000	750	CU 375	10	8″	12″
374,400	780	CU 390	10	8″	12″
388,800	810	CU 405	10	8″	12″
403,200	840	CU 420	10	8″	12″
417,600	870	CU 435	15	8″	12″
432,000	900	CU 450	15	8″	12″
446,000	930	CU 465	15	8″	12″
460,800	960	CU 480	15	8″	12″
475,200	990	CU 495	15	8″	12″
489,600	1020	CU 510	15	8″	12″

Filter Plants of Larger and Smaller Capacities Also Available—Details on Request

Patent No. 2,347,092

Vacumite, inc.

2311 N. Front Street, Harrisburg, Pa.

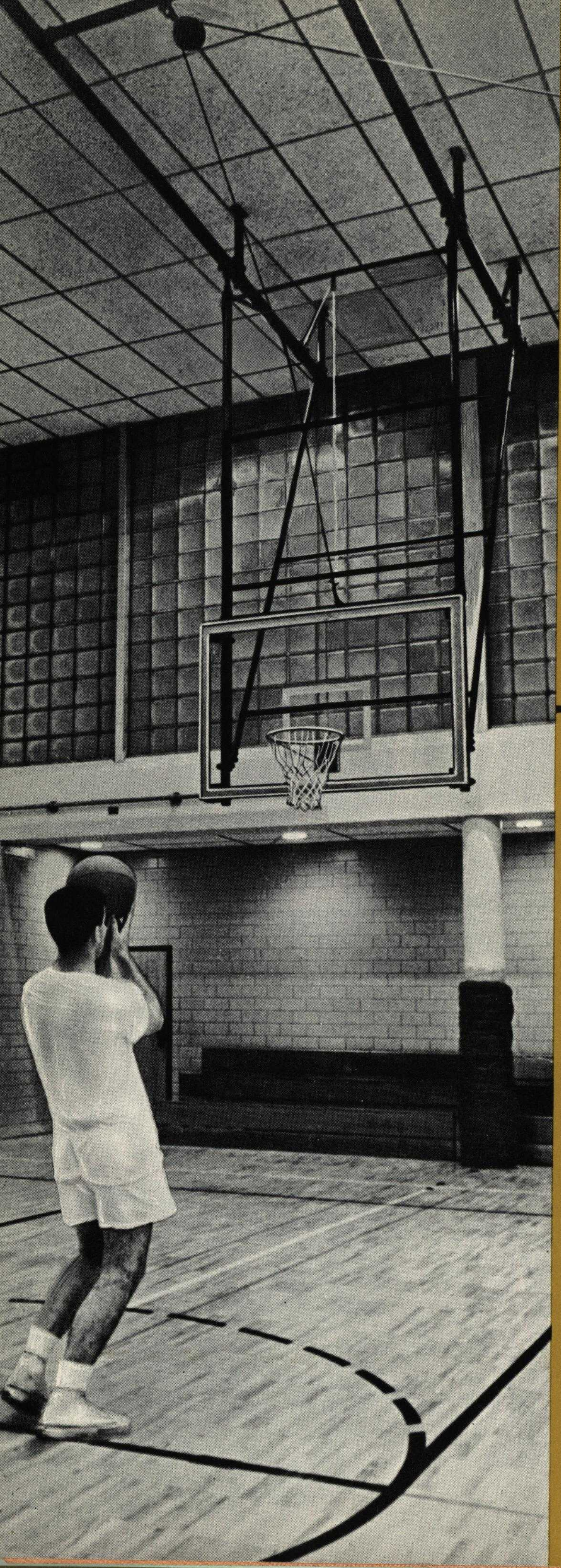
Telephones: CE 45011 - CE 45012

LEFT: Carlisle Swimming Club, Carlisle, Pa.: This attractive pool, built by a private swim club, uses Vacumite for economical and efficient filtration. **ABOVE:** Home of L. B. Paules, Hogestown, Pa.: Family pools demand compactness, and easy maintenance in a filter. Vacumite has both.

23k
Wa

WAYNE

BASKETBALL BACKSTOPS



WAYNE BASKETBALL BACKSTOPS

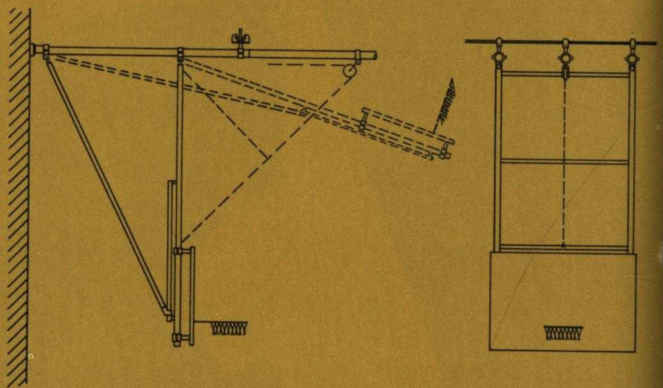
Wayne Basketball Backstops are highly efficient, strong, precision assemblies designed to conform fully to the high standards of the National Basketball Committee.

Units illustrated are representative of a broad quality line of basketball backstop types numbering in excess of 36 models adaptable to almost any structural condition likely to be encountered.

Although Wayne Basketball Backstops are essentially fabricated to basic design standards, each installation is, in effect, a custom application requiring individual engineering to meet specific structural variations.

COMPLETE ENGINEERING SERVICE

When Wayne Basketball Backstops are specified, automatically you are assured of a complete responsible service including every professional requisite—initial layout—comprehensive detailed approved drawings—precision fabrication and skilled installation coordinated with your building or remodeling schedule.



MODEL CF-40 FORWARD FOLD—CEILING MOUNTED

Recommended for conditions where the backstop must be moved out of the way to accommodate other activities. Unit includes worm-gear winch for raising the backstop to ceiling quickly with little effort.

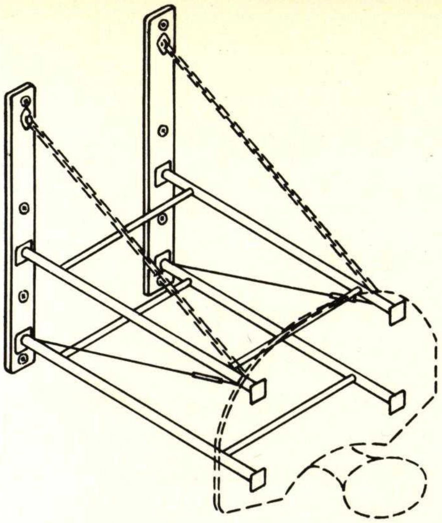
SPECIFICATIONS: Backstop shall be forward swing-up type complete with rigid superstructure and all hoisting appurtenances required for installation.

Superstructure shall be constructed with 3½″ O. D. pipe jointed with formed steel fittings securely bolted in place. Superstructure shall be further braced to provide a maximum unsupported span of 16′-0″ or less when bridging is not used.

Backstop frame shall consist of a drop frame constructed of 2⅜″ O. D. drop pipes with bracing of $1\frac{5}{16}$″ O. D. pipe spacers rigidly welded into one unit, and a brace section constructed of 1⅝″ O. D. pipe welded into one unit as above. Formed and welded fittings shall be used throughout to allow for final adjustment at installation. Bank extension fittings shall provide for 6″ extension from vertical supports as specified by "Official Basketball Rules".

Backstop shall operate with a slide rod arrangement which "weight locks" the backstop in playing position without the use of supplementary latches. The arrangement shall consist of a hinging collar operating on a $1\frac{1}{16}$″ O.D. slide rod which is further attached to the drop pipe frame.

Winch shall be worm-gear type, designed to hold unit at any position when raising or lowering backstop. Winch drum and gear shall be fully enclosed. Backstop shall be furnished complete with bank and goal specified herein.



MODEL WM-30 STATIONARY—WALL MOUNTED

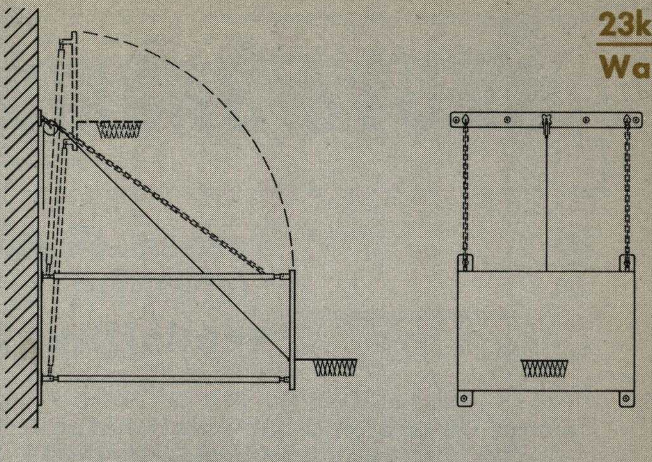
A rigid, permanent backstop simply designed for maximum performance. An ideal main-court backstop. Mounting is to an unobstructed vertical wall. May be installed flush or extended 12′ or less from the wall. Can be furnished with choice of banks.

SPECIFICATIONS: Backstop shall be wall braced type,______extended.

Frame shall be constructed of 1⅞″ O. D. extension pipes welded into rigid units with 1$\frac{5}{16}$″ O. D. spacer pipes in the horizontal sections, and with steel flanges welded on both ends. Vertical bracing shall consist of $\frac{3}{16}$″ proof coil diagonal chains to the wall and ⅜″ dia. steel tension rods internally bracing the structure.

Hardwood wall pads shall be provided to absorb shock of impact and prevent damage to walls. All edges shall be chamfered. Pads shall be finished with a sealer coat and two finish coats of natural gloss lacquer.

Backstop shall be furnished complete with bank and goal specified herein.



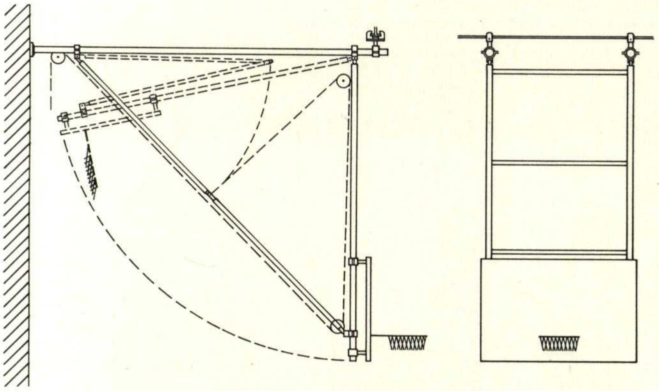
MODEL WM-33 FOLD-UP—WALL MOUNTED

Recommended for small gymnasiums where space is at a premium. Requires a high ceiling. Ceiling height must be the sum of the required extension of backstop plus 12′-10″. Can be furnished with choice of banks.

SPECIFICATIONS: Backstop shall be wall supported fold-up type with face of bank extended____________________from supporting wall. Extension frame shall be constructed of 1⅞″ O. D. extension pipes, welded into rigid units with 1$\frac{5}{16}$″ O. D. spacer pipes in the horizontal sections, and with hinge plugs welded in both ends.

Hardwood wall pads shall be provided at all wall attachment points. All edges shall be chamfered, and pads shall be finished with a sealer coat and two finish coats of natural gloss lacquer.

Winch shall be worm-gear type, designed to hold unit at any position when raising or lowering backstop. Handle shall be removable and shall provide sufficient leverage to facilitate easy raising of the backstop. Winch drum and gears shall be fully enclosed. Hoisting cable shall be ¼″ diameter plow steel improved wire rope. Backstop shall be furnished complete with bank and goal specified herein.



MODEL CF-41 BACKWARD FOLD—CEILING MOUNTED

Used when the forward fold is not practical due to positions of skylights, light fixtures or structural members. Enclosed worm-gear winch hoist lowers and locks the backstop in playing position. Can be furnished with choice of banks.

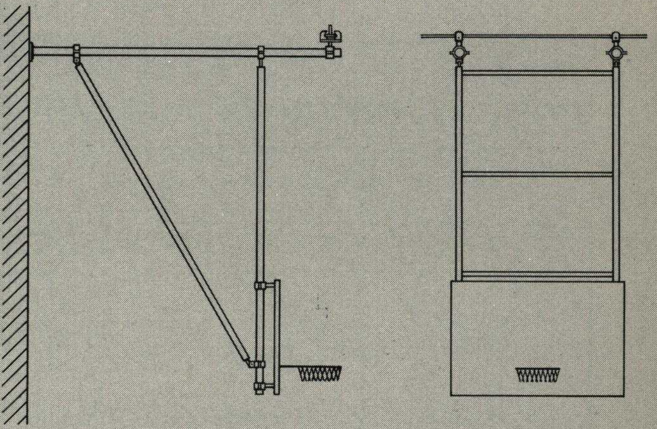
SPECIFICATIONS: Backstop shall be backward swing-up type complete with rigid superstructure and all hoisting appurtenances required for installation.

Superstructure shall be constructed with 3½″ O. D. pipe joined with formed steel fittings securely bolted in place. Superstructure shall be further braced to provide a maximum unsupported span of 16′-0″ or less when bridging is not used.

Backstop frame shall consist of a drop frame constructed of 2⅜″ O. D. drop pipes with bracing of 1⅝″ O. D. pipe spacers rigidly welded into one unit, and a brace section constructed of 1⅝″ O. D. pipe welded into one unit as above. Formed and welded fittings shall be used throughout to allow for final adjustment at installation. Bank extension fittings shall provide for 6″ extension from vertical supports as specified by "Official Basketball Rules".

Backstop shall operate by means of a knee joint in the rear frame. Knee joint shall be formed by a pair of welded hinges—factory assembled to assure ease of operation and stabilize the hinge action. Knee joint shall "weight lock" automatically when backstop is lowered, and no supplementary ropes or manual latches shall be required.

Winch shall be worm-gear type, designed to hold unit at any position when raising or lowering backstop. Backstop shall be furnished complete with bank and goal specified herein.



MODEL CS-51 STATIONARY—CEILING MOUNTED

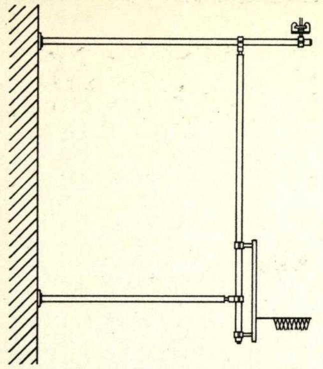
A rigid backstop installation recommended when hoisting of backstop is not necessary and where a wall is not sufficiently strong for the backstop to be wall supported. Can be furnished with rectangular or fan shaped bank.

SPECIFICATIONS: Backstop shall be ceiling suspended fixed-type complete with rigid superstructure, and all attachment hardware required for a complete installation.

Superstructure shall be constructed with 3½″ O. D. pipe joined with formed steel fittings securely bolted in place. Superstructure shall be further braced to provide a maximum unsupported span of 16′-0″ or less when bridging is not used. On spans of 3½″ O. D. pipe which exceed 16′-0″ the overhead pipe shall be bridged by a welded "truss-type" method to provide maximum rigidity.

Backstop frame shall consist of a drop frame constructed of 2⅜″ O. D. drop pipes with bracing of 1$\frac{5}{16}$″ O. D. pipe spacers rigidly welded into one unit, and a brace section constructed of 1⅝″ O. D. pipe welded into one unit as above. Formed and welded fittings shall be used throughout to allow for final adjustment at installation. Bank extension fittings shall provide for 6″ extension from vertical supports as specified by "Official Basketball Rules".

Backstop shall be furnished complete with bank and goal specified herein.



MODEL CS-50 STATIONARY—WALL BRACE—CEILING MOUNTED

A rigid backstop installation recommended when hoisting of backstop is not necessary and where a wall is not sufficiently strong for the backstop to be entirely wall supported. Can be furnished with rectangular or fan shaped bank.

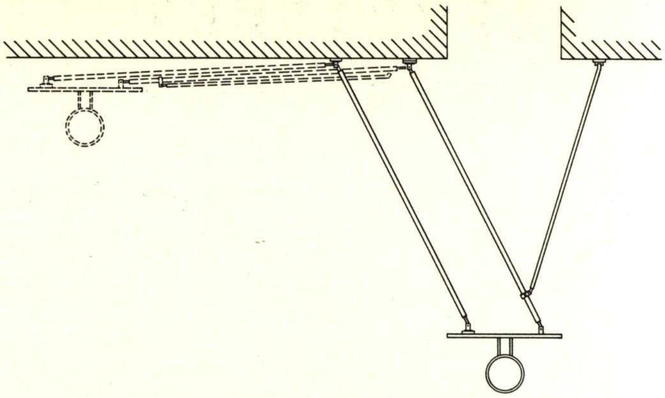
SPECIFICATIONS: Backstop shall be ceiling suspended and wall braced type complete with rigid superstructure, and all attachment hardware required for a complete installation.

Superstructure shall be constructed with 3½″ O. D. pipe joined with formed steel fittings securely bolted in place. Superstructure shall be further braced to provide a maximum unsupported span of 16′-0″ or less when bridging is not used.

Backstop frame shall consist of a drop frame constructed of 2⅜″ O. D. drop pipes with bracing of 1 5/16″ O. D. pipe spacers rigidly welded into one unit, and a brace section constructed of 1⅝″ O. D. pipe welded into one unit as above. Formed and welded fittings shall be used throughout to allow for final adjustment at installation. Bank extension fittings shall provide for 6″ extension from vertical supports as specified by "Official Basketball Rules".

Brace frame shall terminate at the wall into a hardwood wall pad, with all edges chamfered, and finished with a sealer coat and two finish coats of natural gloss lacquer.

Backstop shall be furnished complete with bank and goal specified herein.



MODEL GT-60 GATE TYPE SIDE FOLD

A wall supported backstop recommended for use where a backstop must span a wall recess without interfering with operation of a folding partition. Equipped with pivot hinge pipe extensions on either side of the partition. Operated from the gymnasium floor and easily swung into position.

SPECIFICATIONS: Backstop shall be wall-braced, gate type, designed to allow folding partition to pass through bank position.

Extension frames shall be fabricated of 1⅞″ O. D. pipes with 1⅞″ O. D. pipe spreaders welded into one unit. Frames shall terminate in hinge units securely attached to hardwood pads and to rear of bank. Diagonal brace pipes shall extend from the top extension pipes to the wall, and shall be 1⅝″ O. D. pipe.

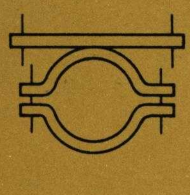
A one piece brace frame shall be fabricated of 1⅞″ O. D. pipe welded into a rigid unit, and secured to extension frame with hinge fittings. A latch arrangement shall be provided at the wall to allow brace section to be locked when in playing position and another latch shall be provided on one extension frame when backstop is folded flat against the wall.

All latching and folding shall be accomplished from the floors without the use of ladders.

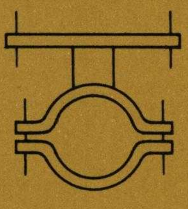
Backstop shall be furnished complete with bank and goal specified herein.

PLEASE NOTE—Wayne Iron Works pursues a continuous program of design and product improvement for better gymnasium equipment. When such improvements occur, or, when a condition exists over which we have no control, Wayne Iron Works reserves the right to supply equipment considered to be standard at the time of shipment.

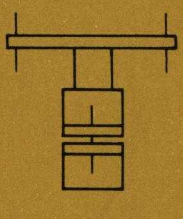
TYPICAL FITTINGS FOR WAYNE BASKETBALL SUPERSTRUCTURES



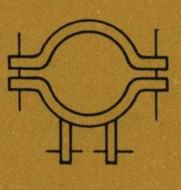
3″ PARALLEL COLLAR



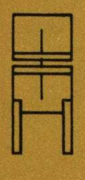
3″ PARALLEL HANGER



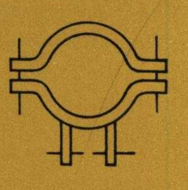
3″ RIGHT ANGLE HANGER



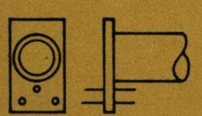
3″ PARALLEL HINGE



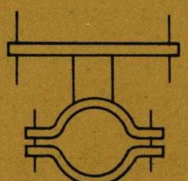
3″ RIGHT ANGLE HINGE



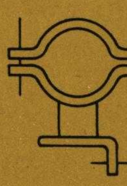
2″ PARALLEL HINGE



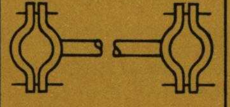
WALL BRACKET



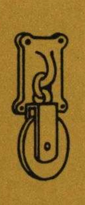
BANK CLAMP



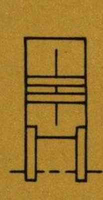
HERCULITE BANK CLAMP



HORIZONTAL SPREADER



PULLEY & SHACKLE



2″ RIGHT ANGLE HINGE

WAYNE IRON WORKS, WAYNE, PENNSYLVANIA

Rolling Gymstands • Folding Bleachers • Outdoor Seating • Folding Partitions • Basketball Backstops • Folding Stages

ALBERENE STONE

The Standard Material for the Permanent Equipment of Laboratories in Industrial, Educational and Research Institutions

ALBERENE Stone is the standard material for laboratory table tops, shelving, sinks, splash backs, drainboards, fume hoods and related equipment. It is the only permanently satisfactory material used for these purposes.

The stone is furnished in two varieties, "Regular" and "Grade 25." Regular stone is the standard type of material known to chemists for sixty years or more.

Both are natural quarried silicate stones highly resistant to chemical attack. Both have a dense fine uniform grain structure without cleavage planes (stratification) which permits accurate machining for any desired purpose with absence of splitting, chipping or spalling.

It is thus possible to make the liquid, gas and germproof joints essential to first class construction (see details).

Regular grade has an abrasive hardness factor of 6—Grade 25 runs from 15 to 30. Regular grade has an absorbency factor of .15%—Grade 25—0.075%. These low-absorbency factors make the material essentially non-staining. Discolorations which may appear are purely surface and may be readily removed by scouring.

There is no surface glaze or coating; the surface goes right through to the back.

Regular grade is a pleasing neutral bluish-grey which is non-reflective—Grade 25 is darker and has greater decorative value.

For ordinary laboratory use we recommend Regular Grade. Where the service is unusually severe, we suggest Grade 25. Wherever stone is exposed to the action of salts which expand when drying out of solution—Grade 25 should be used.

The Bureau of Standards has shown that Grade 25 is entirely unaffected by photographic chemicals after a two-year test. Under the same test laminated stones have split or spalled away.

In the design and furnishing of a Laboratory all items must be scientifically planned and built to fit particular needs.

It is obvious that strong and rigid supports are a prime factor. We are prepared to furnish and erect all stone work as well as any type of supports.

We regularly furnish our stone to the leading equipment manufacturers. It is recommended that only those reliable manufacturers having had experience in this type of work be considered.

Through the years we have accumulated a fund of specialized knowledge of laboratory design and construction. Our engineers are regularly invited to advise with technicians, architects and engineers with respect to the planning and layout of laboratory rooms. We are always glad to furnish general layout drawings, sketches of details and to collaborate with the planner in creating a laboratory best adapted to the particular purpose intended. This service is offered freely and without obligation.

We are in a position to engineer and contract for complete installations and to dismantle, move, re-condition, and re-install existing equipment.

MATERIAL SPECIFICATION

"How to Specify"—Regular grade Alberene should be called for as follows: Wherever Laboratory Stone, Stone, Soapstone or Alberene Stone is noted on Drawings and/or schedules or mentioned in the specifications, the material used shall be a natural impure talc rock of massive formation, i.e., without lamination, stratification, or cleavage planes. In structure it shall be homogeneous, except for possible veining. The presence in the veins of scattered crystals of carbonate is to be expected and is acceptable. The stone shall be finely granular in all directions and under abrasive use it shall wear to a surface similar to a fine sandpaper and shall not scale or spall off nor show exposed elongated crystals.

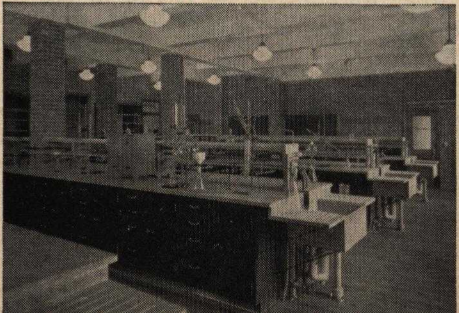
The stone shall have the following physical properties: Modulus of rupture in any direction—*Min.* 2,000 lbs. per square inch.

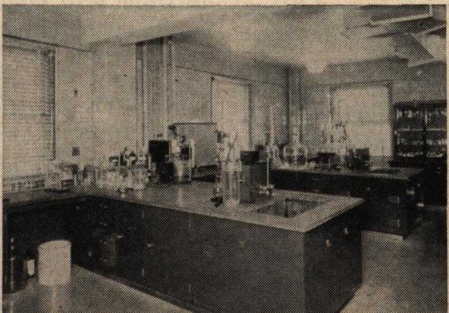
Abrasive hardness (Ha) Nat'l Bureau of Standards—*Min.* 4.50.

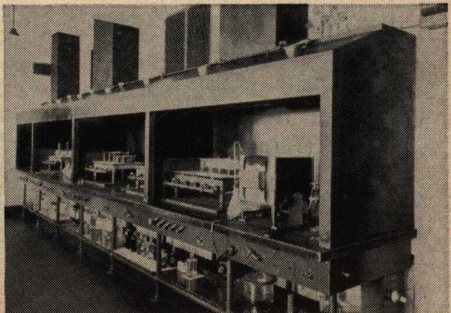
Absorption of water (48 hrs.) by weight—*Max.* 0.25%.

Grade 25—For this grade the same specification may be used with the following changes: (1) Substitute the word silicate for Talc. (2) Substitute a Hardness value of 15 for 4.50. (3) Substitute an absorption factor of 0.15 for 0.25.

In addition to the above the Public Building Service, Washington, D. C. includes in its specifications certain chemical resistance tests which must be met. Both grades of Alberene Stone easily meet this test.

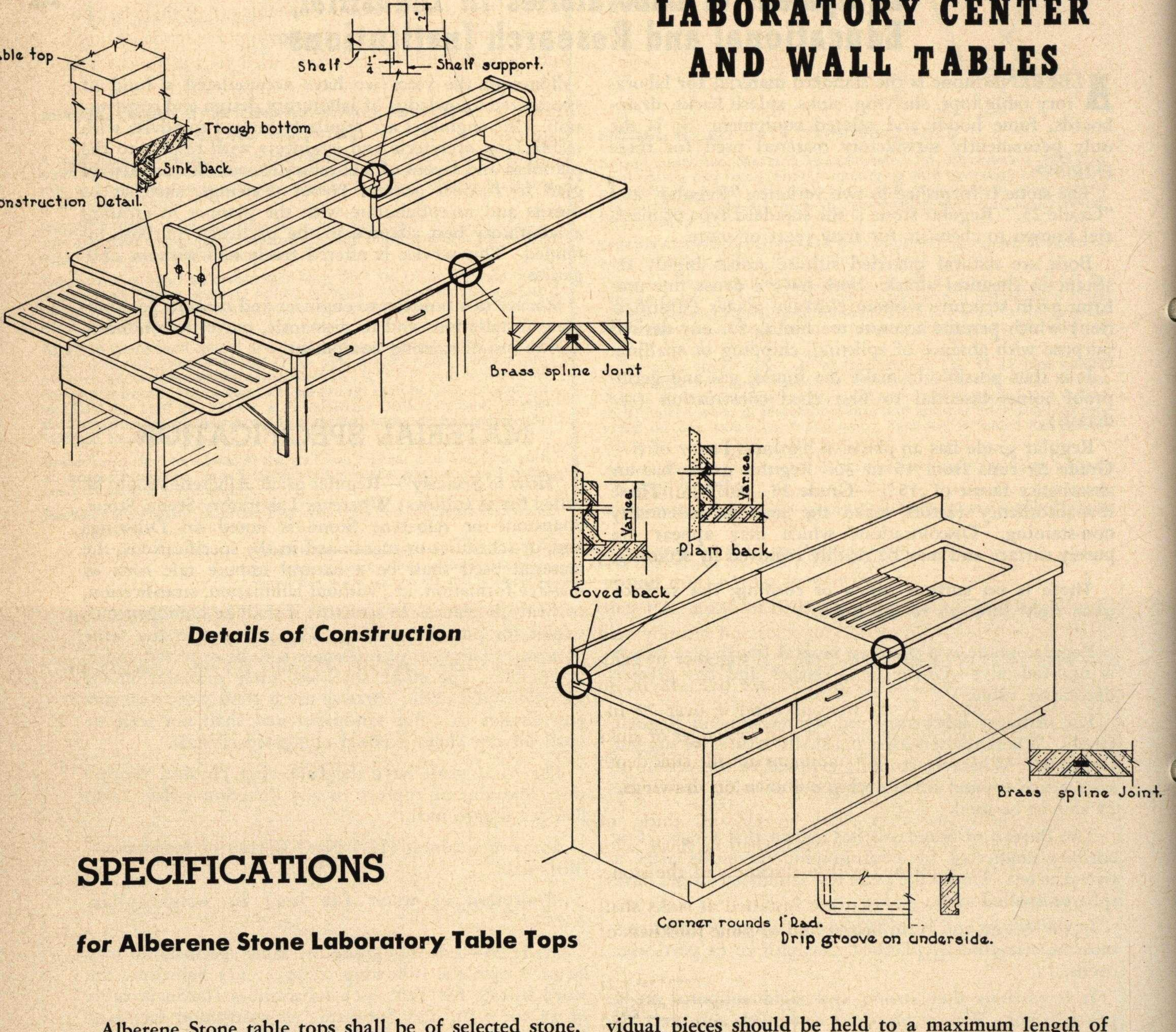






ALBERENE STONE — LABORATORY EQUIPMENT

LABORATORY CENTER AND WALL TABLES



ble top
Shelf
$\frac{1}{4}$"
Shelf support.
Trough bottom
Sink back
onstruction Detail.
Brass spline Joint
Varies.
Varies.
Plain back
Coved back
Brass spline Joint.
Corner rounds 1" Rad.
Drip groove on underside.

Details of Construction

SPECIFICATIONS

for Alberene Stone Laboratory Table Tops

Alberene Stone table tops shall be of selected stone, 1¼ in. in thickness, unless otherwise called for, and provided with a 3/16 in. deep drip groove on the under side, ¾ in. back from the front edge. All tops or working counters for fume hoods, as also for table tops on which heat work is carried on, shall be of 2 in. thickness. Joints in table tops shall be made flush and tight by means of metal slip-tongue construction in acid-proof cement. Stone shelves shall be 1 in. thick, with stone shelf supports 1¼ in. thick. All exposed faces of tops, high backs and curbs shall be honed. Edges to be carborundum finish with arris of top only to be removed by stone-setter at time of installation.* While it is possible to furnish sections of stone of greater length, individual pieces should be held to a maximum length of 54 in., if possible, for best selection of stock.

Where wall tables are installed across window openings there shall be provided a 3 in. high stone curb around openings above radiators. Provide high backs and high ends against building wall and partitions for all stone wall table tops; thickness to be 1¼ in. and a minimum height of 4 in. unless otherwise specified or shown.

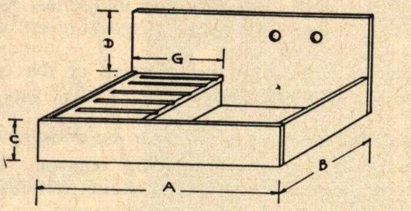
All stone subject to the action of photographic chemicals is to be of Grade 25.

*Edges of Grade 25 stone to be honed at the Mill.

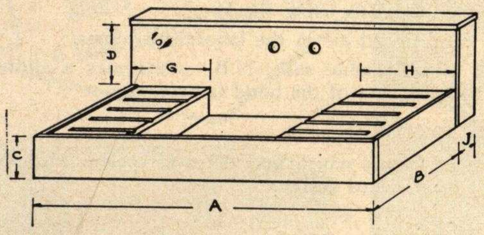
LABORATORY EQUIPMENT

ALBERENE STONE

SINKS AND DRAINBOARDS



TYPE 4.



TYPE 5.

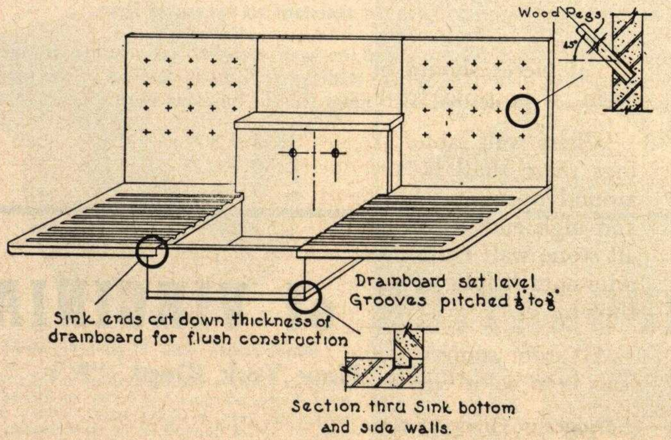
SPECIFICATIONS

for Alberene Stone Laboratory Sinks, Gutters, Drainboards and Pegboards

Alberene Stone sinks shall be constructed of selected stone. Sides to be 1¼ in. thickness with a flush bottom of 1¼ in. or 1½ in. thickness dished to drain. All slabs shall be tongued and grooved together and securely held by hidden bolts and nuts all cemented together by acid-proof cement. Sinks or tanks that are over 48 in. in length shall have 1½ in. bottoms, and if over 72 in., 2 in. bottoms. All inside surfaces and top edges of sinks shall be hone finished. The minimum outside sink depth shall be 10 in., unless otherwise shown on drawings.

Drainboards for sinks shall be 1¼ in. thick, of selected stone. Tops of drainboards shall be flush, with parallel grooving pitched within thickness of the stone.

Splash back and ends that are installed at sinks shall be not less than 8 in. in height and of same thickness of sink proper, unless otherwise shown on plans and to have exposed faces hone finished.


Wood Pegs
45°
Drainboard set level
Grooves pitched 1/8" to 3/8"
Sink ends cut down thickness of drainboard for flush construction
Section thru Sink bottom and side walls.

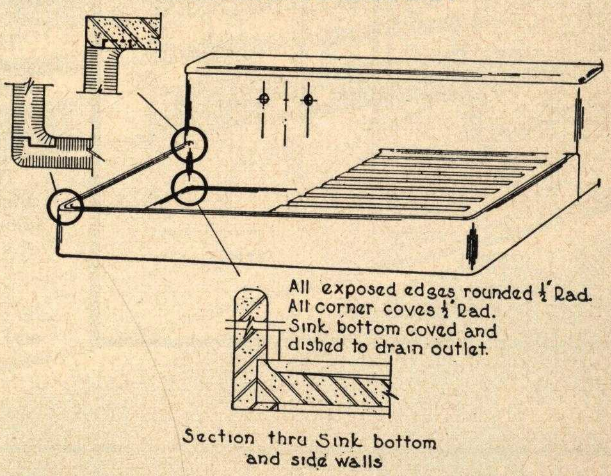
Where gutters are shown in tables they shall be constructed of 1¼ in. stone employing the rabbeted joint and bolt and nut construction used in the sinks. The dimension of a gutter shall be approximately 6 x 7 in. inside, gradually pitching from one end to a maximum depth of 6 in. at the outlet end. The amount of pitch shall be approximately 1 in. in 5 ft. The pitch in the gutters shall be accomplished by rabbeting the sides at an angle to accommodate the bottom, rather than pitching the entire gutter itself. We will not be responsible for leakage unless the gutter is adequately supported along its full length.

Where peg boards or racks are specified, these stone boards are to be used to hold peg supports on which glassware is suspended and dried. All exposed faces and edges of peg boards shall be hone finished. Unless otherwise shown on drawings, these stone peg boards shall be 36 in. in height and 1¼ in. thick, with holes bored at an angle of 45 degrees to the face of the stone for wooden pegs. Pegs can be furnished on request.

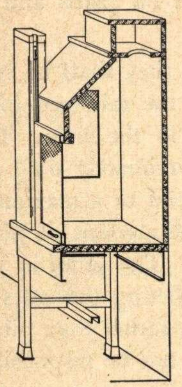
Sinks and drainboards used for photographic chemicals or for wash-up sinks shall be constructed of Grade 25 stone.

The details show only 2 type numbers. Additional types are illustrated in our complete Laboratory Bulletin, and also in a separate Sink Bulletin. Copies of both are available.

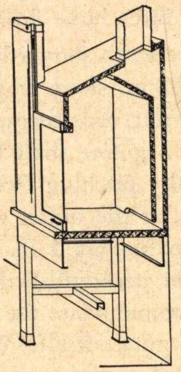
COVED CORNER CONSTRUCTION


All exposed edges rounded 1/2" Rad.
All corner coves 1/2" Rad.
Sink bottom coved and dished to drain outlet.
Section thru Sink bottom and side walls

The drawing above shows our special construction, with all inside corners of the sink coved, and with bottom coved and dished to drain. The detail drawing shows exposed edges rounded. Any of our sinks can be furnished with complete coving and complete rounding of edges, as shown.



TYPE-1



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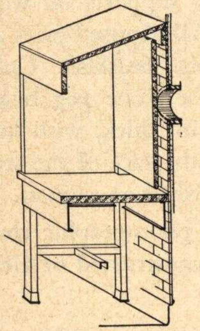
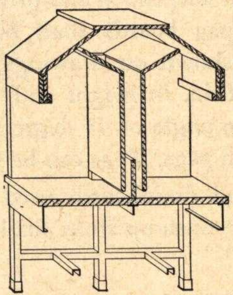
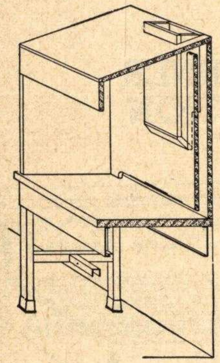


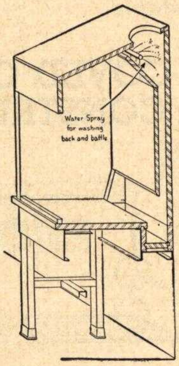
TYPE-2



TYPE-5



TYPE-3



TYPE-6

FUME HOODS

The Alberene Stone Corporation of Virginia maintains a staff of competent engineers who have had long and specialized experience in meeting the hood problems of many differing industries. We will be happy to have you make use of their experience in working out your hood problems.

Many factors enter into the selection of the type of fume hood used. Some of these factors are—

(1) Type and character of work to be done in the hood.

(2) Nature of the gases requiring removal. In the handling of perchloric acid, for example, certain precautions must be taken and specially designed hoods are necessary.

(3) Room space available and convenience of access.

(4) Number of students or chemists using the hood.

(5) Use or non-use of conditioned air in the laboratory rooms.

(6) Use or non-use of an adjustable sash, N.B.—sometimes a sliding sash effecting complete closure of the hood is necessary.

(7) Location of vent ducts.

In view of these and other factors which may enter in specific instances there can be no such thing as standard design.

PERCHLORIC HOODS

Our engineers pioneered the design of special-type hoods for handling perchloric acid. Alberene Stone is ideally suited to this type of work because it is practically non-absorbent. The Alberene construction is such that liquid-tight joints are easily made. Proper functioning of the special type hood for perchloric acid depends on adequate flushing and means to remove wash water.

If you have a problem that requires a special-purpose hood for its solution, our engineers welcome the chance to help you select or design the type of hood best-suited for the job.

The sections and photographs shown on these pages portray successfully operating hood installations. Any type may be furnished with or without sliding sash.

The first and principal advantage of an Alberene Hood lies in the value of the stone itself as a chemically resistant material. Secondly the nature of the stone, and the thicknesses used are such that the structure of the hood may be built with no exposed bolts, screws, nuts, etc., within the hood itself.

The stone superstructure is usually constructed of 1¼ in. thickness of stone. Baffles are generally made 1 in. thick. We recommend that the hood base or counter be constructed of 2 in. thick stone specially selected of a grade of stone found to be most resistant to excessive heat.

Where metal is used for sash and/or sash weights and chains, it must be of non-corrosive material. Where additional light is desired in the hood and glass windows are desired such glass should be clear wire glass.

ALBERENE STONE CORPORATION of VIRGINIA

General Sales Office—386 Park Avenue South, New York 16, New York (Dept. "F")

Quarries and Mills—Schuyler, Virginia

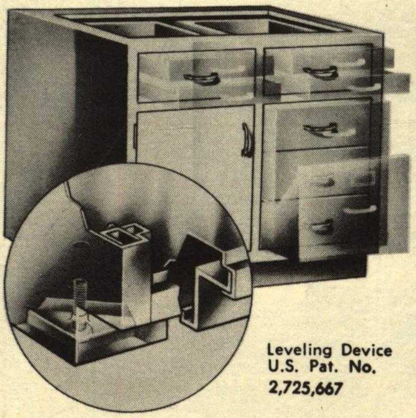
23L
Du

DURALAB SUPERIOR FEATURES GIVE GREATER VALUE and GREATER PERFORMANCE—

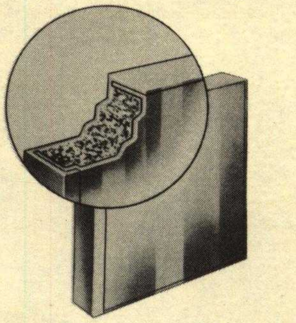
- Fireproof
- Waterproof
- Corrosion Resistant
- Rugged
- Precision Constructed

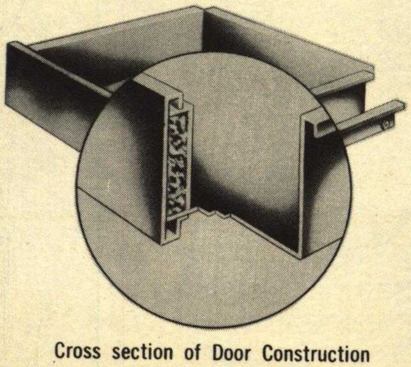
and feature:

- Baked-on Acid, Alkali and Solvent Resistant Finishes
- Dual Welded Interlocking Joints
- Lead Coated Sheet Steel


Leveling Device
U.S. Pat. No.
2,725,667

Cross section showing Corner Construction and patented leveling device.


Cross section of Drawer Construction


Cross section of Door Construction

Inner pans of both doors and drawers are made removable for quick and easy decontamination. Lead coated sheet steel is used throughout the construction of all Duralab units. All inner pans are painted with the same finish as the exterior of the units, affording double protection against corrosion. A sound-deadening mineral filler is used between all inner and outer pans.

Bulletin No. 7

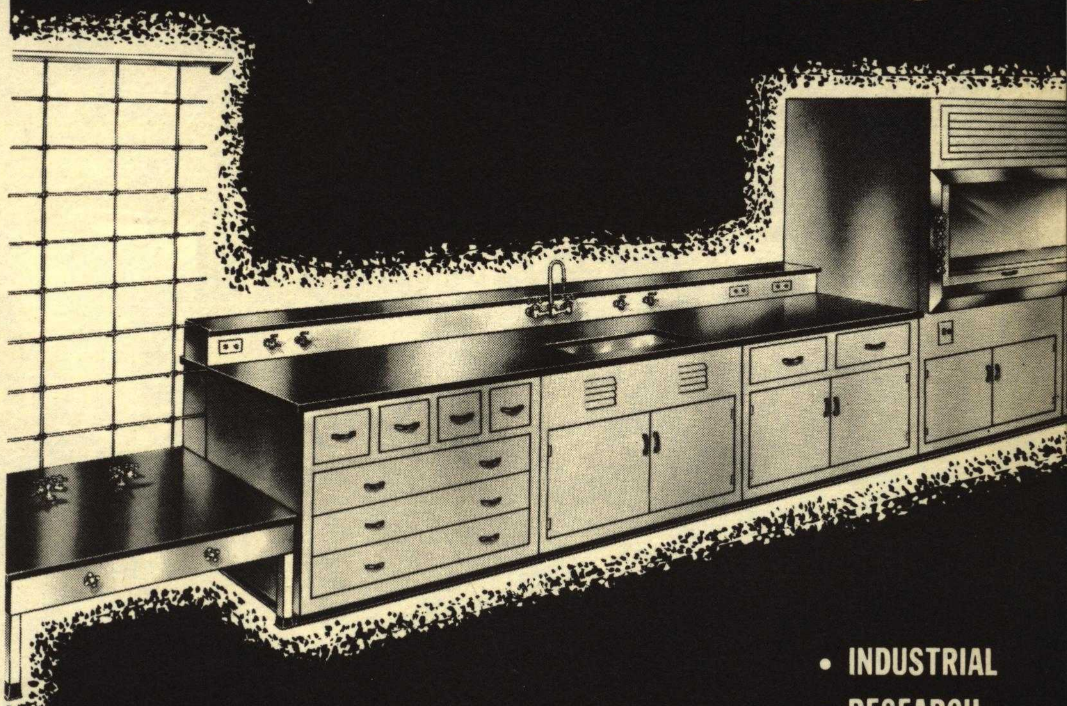
• SUPERIOR QUALITY

DURALAB

MANUFACTURERS AND DESIGNERS OF

Laboratory Furniture & Equipment

• LABS THAT LAST



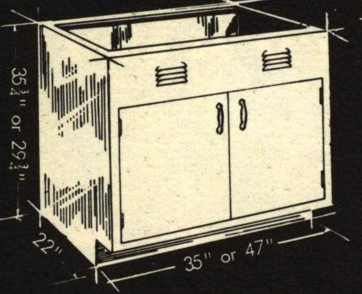
AIA File No. 35-E
AIA File No. 35-B

- INDUSTRIAL
- RESEARCH
- EDUCATIONAL
- HOSPITAL

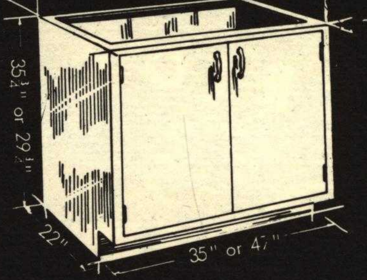
REPRESENTATIVES IN PRINCIPAL CITIES

DURALAB EQUIPMENT CORP.
993 Linwood Street, Brooklyn 8, N. Y.

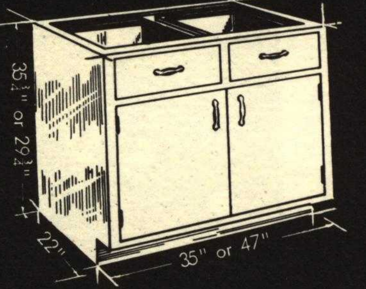
Industrial Sectional Units


35¾" or 29¾"
22"
35" or 47"

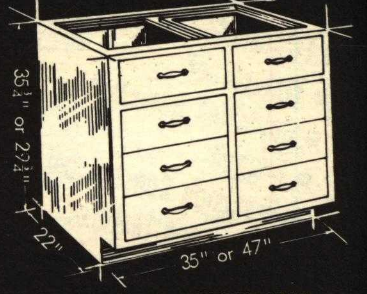
DA SINK UNIT


35¾" or 29¾"
22"
35" or 47"

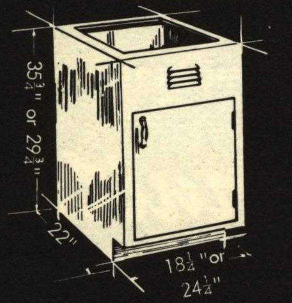
DB CUPBOARD UNIT


35¾" or 29¾"
22"
35" or 47"

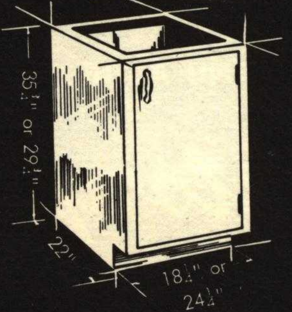
DC DRAWER-CUPBOARD UNIT


35¾" or 29¾"
22"
35" or 47"

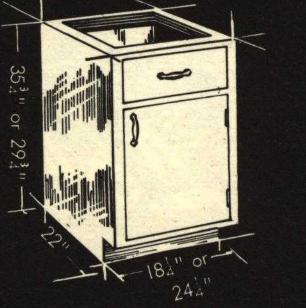
DL DRAWER UNIT


35¾" or 29¾"
22"
18¼" or 24¼"

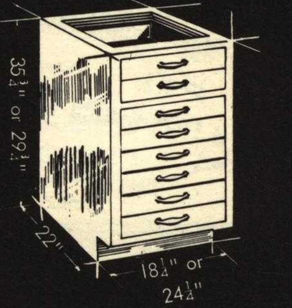
DR SINK UNIT


35¾" or 29¾"
22"
18¼" or 24¼"

DS CUPBOARD UNIT

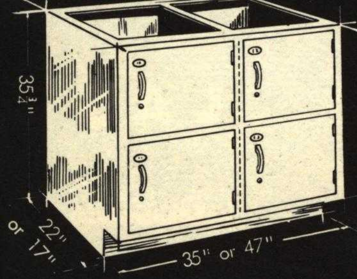

35¾" or 29¾"
22"
18¼" or 24¼"

DT DRAWER-CUPBOARD UNIT

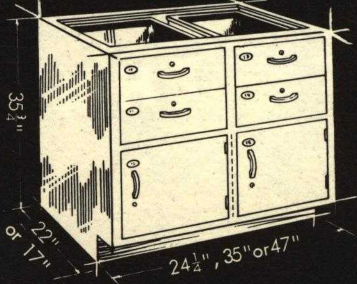

35¾" or 29¾"
22"
18¼" or 24¼"

DY DRAWER UNIT

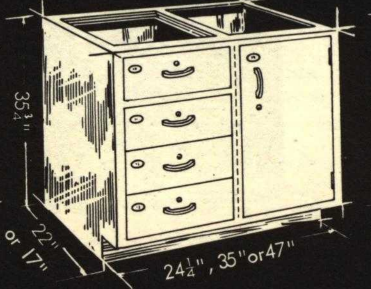
Educational Sectional Units


35¾"
22" or 17"
35" or 47"

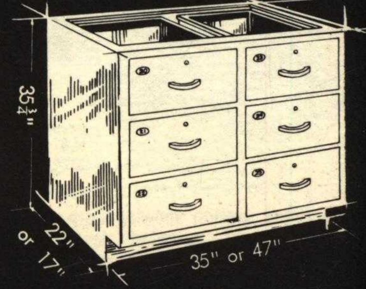
TYPE E1 UNIT


35¾"
22" or 17"
24¼", 35" or 47"

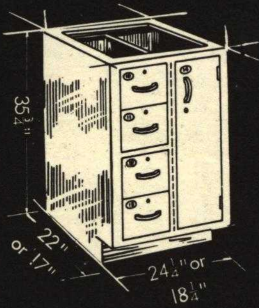
TYPE E2 UNIT


35¾"
22" or 17"
24¼", 35" or 47"

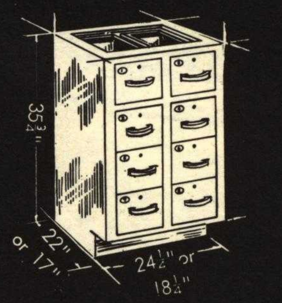
TYPE E3 UNIT


35¾"
22" or 17"
35" or 47"

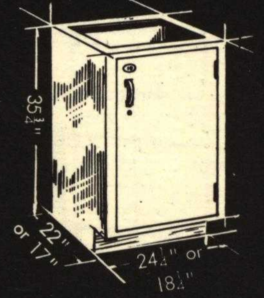
TYPE E9 UNIT


35¾"
22" or 17"
24¼" or 18¼"

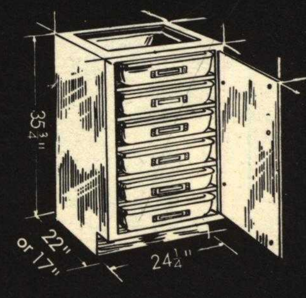
TYPE E11 UNIT


35¾"
22" or 17"
24¼" or 18¼"

TYPE E21 UNIT


35¾"
22" or 17"
24¼" or 18¼"

TYPE E22 UNIT

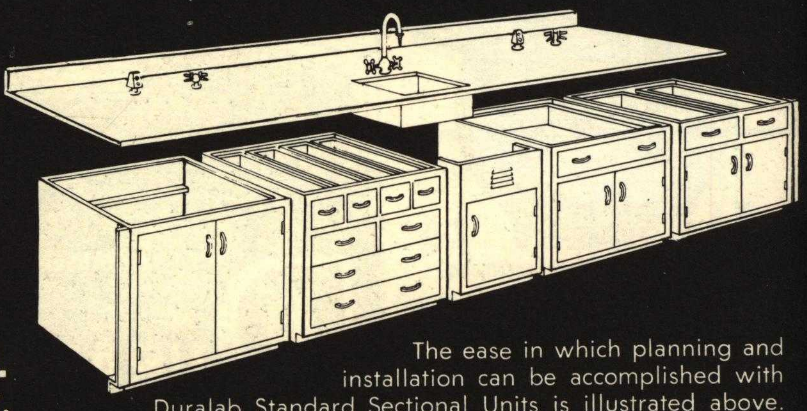

35¾"
22" or 17"
24¼"

TYPE E30 UNIT

DUR-A-FLEX SECTIONAL UNITS

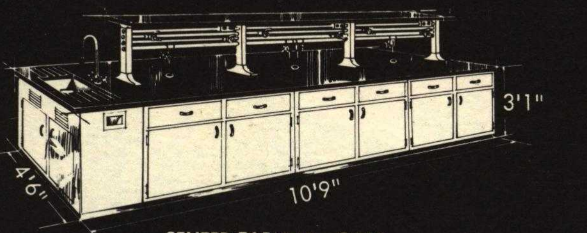
All sheet steel used in the construction of DURALAB Scientific Industrial and Science Room Furniture and Equipment is constructed of Lead Coated Sheet Steel. The lead coating and our baked-on acid, alkali and solvent resistant finishes afford double protection against corrosion. For complete specifications and illustrations send for our newest and most comprehensive catalog D5.

DURALAB EQUIPMENT CORP.
993 Linwood Street, Brooklyn 8, N. Y.

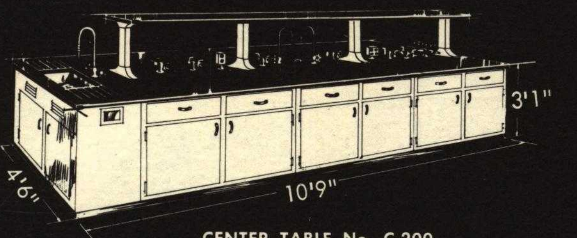


The ease in which planning and installation can be accomplished with Duralab Standard Sectional Units is illustrated above.

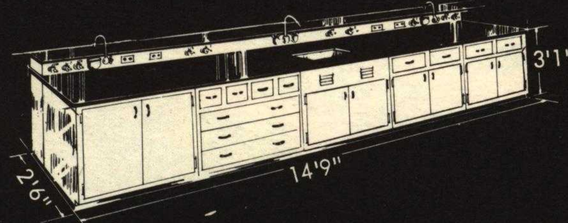
Industrial Assemblies



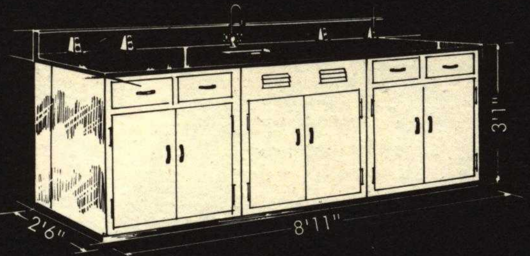
CENTER TABLE No. C-110



CENTER TABLE No. C-200

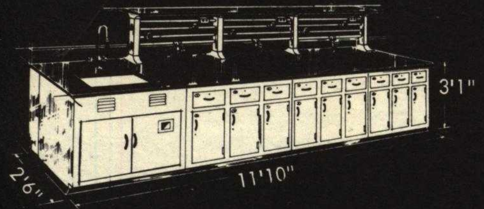


WALL TABLE No. W-300

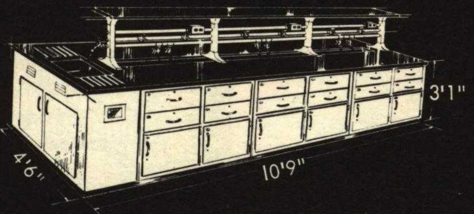


WALL TABLE No. W-420

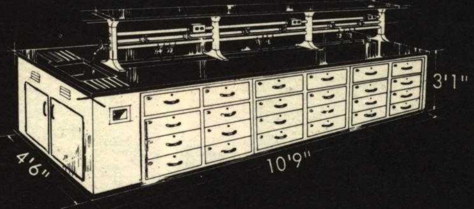
Educational Assemblies



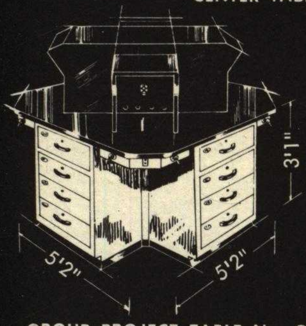
CENTER TABLE No. SCC-100



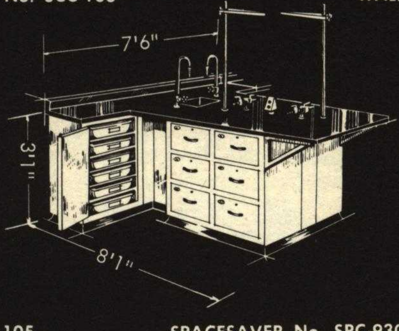
WALL TABLE No. SCW-110



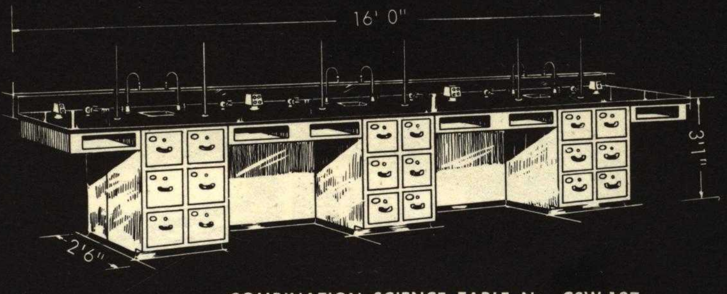
CENTER TABLE No. SCC-150



GROUP PROJECT TABLE No. GPI-105

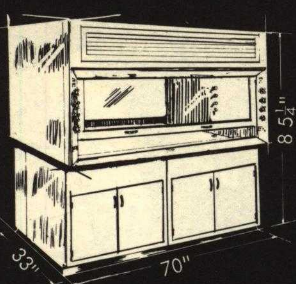


SPACESAVER No. SPC-930

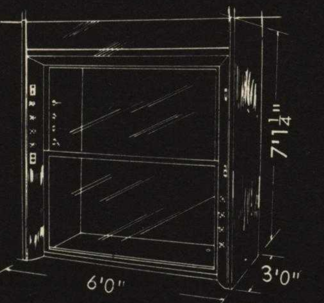


COMBINATION SCIENCE TABLE No. CSW-107

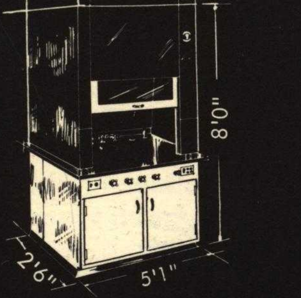
Fume Hood Assemblies



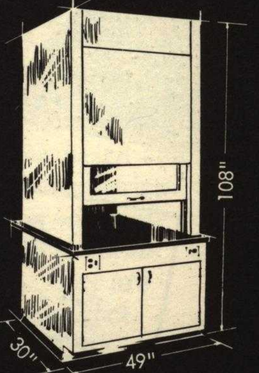
DOWN DRAFT FUME HOOD
No. HSVAEH-106S



AIRFLOW WALK IN HOOD
No. HWIAF-72C



AIR CONDITIONED FUME HOOD
No. DAIRCOL-105

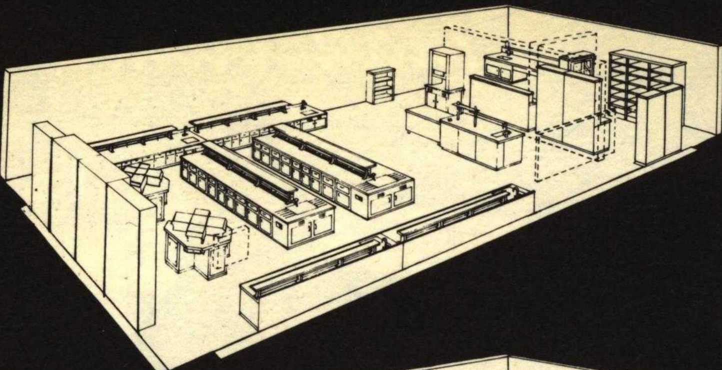


READY TO USE FUME HOOD
No. SCHC-49

For complete roughing-in details and additional sizes of above units send for new catalog D5.

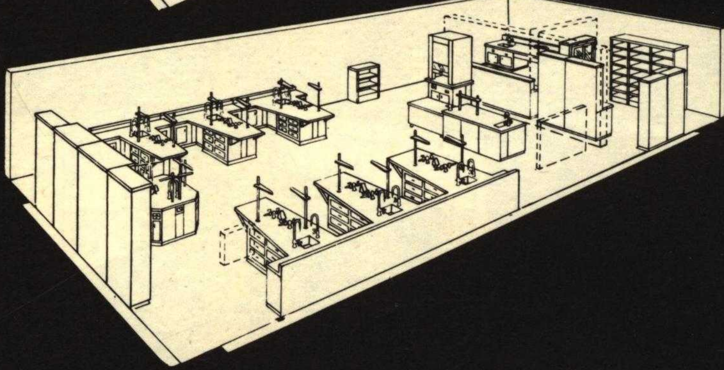
CHEMISTRY LABORATORY

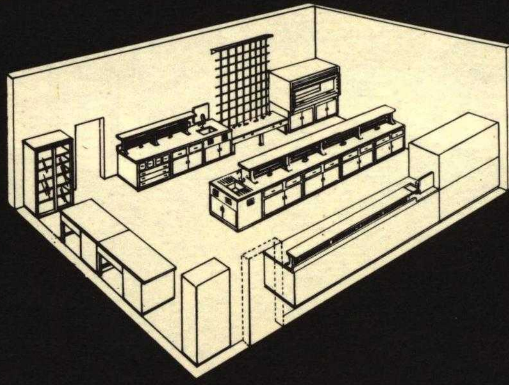
This illustration is for a 24 student Chemistry Laboratory having 3 class changes. The Center Tables are type SC-110 and the Wall Tables are type SW-110. Different arrangements for drawers, cupboards, student capacity and class changes can be selected from Catalog D5. The Group Project Tables are type GPT-105, and provides an excellent means for small groups of progressive students to work on advanced projects. The Fume Hood is located near the instructor for use during demonstration periods.



COMBINATION CHEMISTRY and PHYSICS LABORATORY

This illustration is for a 24 student Combination Chemistry and Physics Laboratory having 3 class changes. The Spacesaver type tables are type SPC-930 and the Fume Hood is type SCHC-49. The Spacesaver table utilizes the dead wall area and thus leaves the center of the room open for center tables where overcrowded conditions exist. Ample storage space is provided at the rear of the room, or additional Spacesaver tables can be provided if needed.





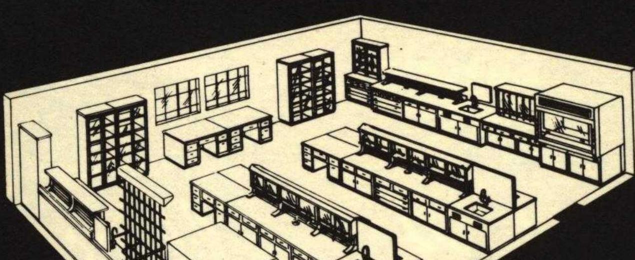
2-MAN LABORATORY

The 2-Man Laboratory illustrates a typical small laboratory planned on the modular theory. The adjacent offices are not needed in this type of layout as desk space is provided within the laboratory.

All piping, conduit and ductwork is supplied by the common service tunnels and service trenches. There are provisions for hooded areas and a rack for distillation purposes.

Full use of the natural light is taken into account by placing the desks adjacent to the windows. If a balance table is required this can also be placed near the natural light.

If other types of equipment are required consult our Engineering Department for their proper placement.



RESEARCH CHEMISTRY LABORATORY

This large Research Chemistry Laboratory is similar to the 2-Man Laboratory except it illustrates that the modular theory is applicable in large laboratories for six or more chemists.

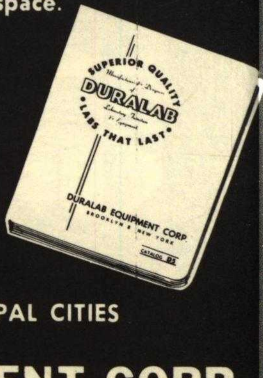
All piping, conduit and ductwork is supplied by the common service tunnels and service trenches. There are provisions for hooded areas, distillation rack, titration table, storage areas and desk space.

Invitation

There is a Duralab Sales Engineer in your area. Allow our factory trained men in conjunction with our Design and Engineering Departments to help prepare your layouts, plans and specifications. In this manner you will be availing yourself of the latest designs and practices in the Scientific Laboratory Furniture field, at no cost or obligation to you!

Write for NEW CATALOG D5

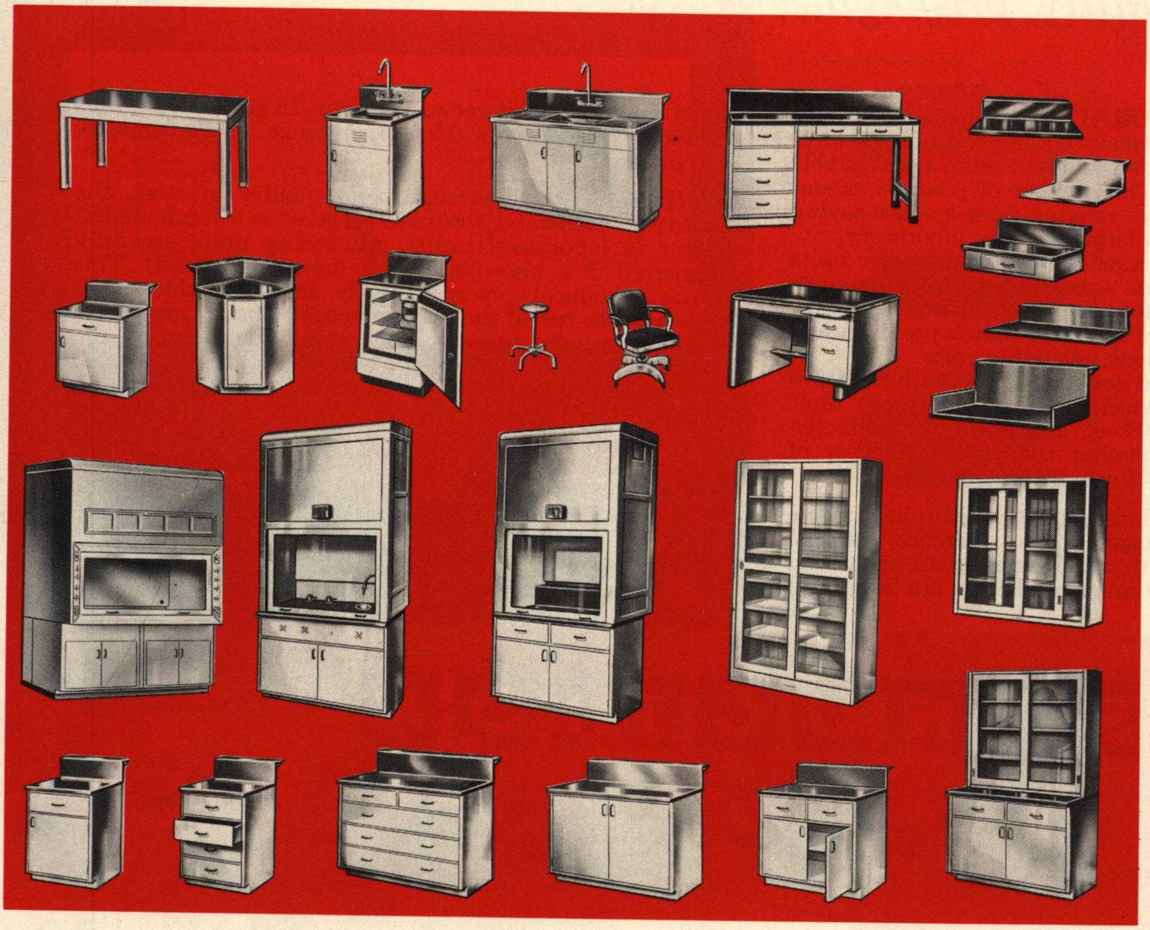
144 pages, fully illustrated with complete specifications and details.



REPRESENTATIVES IN PRINCIPAL CITIES

DURALAB EQUIPMENT CORP.

993 Linwood Street, Brooklyn 8, N. Y.



FISHER UNITIZED laboratory furniture

direct from stock

AS A PART of its complete service to laboratories, Fisher Scientific Company has designed and produced a full line of laboratory furniture. These versatile, interchangeable units, of durable steel construction, are entirely prefabricated (simply bolt them together for a complete installation). Fisher Unitized Furniture, pioneered by Fisher in 1945, "revolutionized laboratory installations"—according to the journal *Industrial Laboratories*—providing custom quality with the economy of standardized design and quantity manufacturing. Most important, these units eliminate costly delays. Over 28 different units are available—and they are all available *direct from stock.*

Fisher UNITIZED Furniture

. . . custom quality, pre-engineered convenience

FISHER UNITIZED FURNITURE is made in only one grade: workmanship, material and finish are always top quality. Over two dozen different units are available —all direct from stock. The number of possible assemblies is virtually unlimited, ranging from a space-saving two-foot-wide bench to a large complex laboratory.

All units are pre-engineered; once installed, the units are easily dismantled and reassembled—together with additional units if desired—to meet changing needs. Units added at any future time will match present units precisely in all specifications, including color.

The Unitized line should not be confused with furniture made from light-gauge steel, porous (soapstone) tops, "kitchen alloy" stainless steel, and units not protected by genuine Bonderizing under the proper number of coats of highly-resistant synthetic enamel.

STEEL—All units are heavy-gauge cold-rolled prime steel (free from scale, ragged edges, scratches, internal defects) and selected with a safe margin of structural strength. Cupboard bottoms and shelves are 20 gauge; body proper and drawer suspensions, 18 gauge; front rails and case suspensions, 16 gauge; hinge reinforcements, 14 gauge.

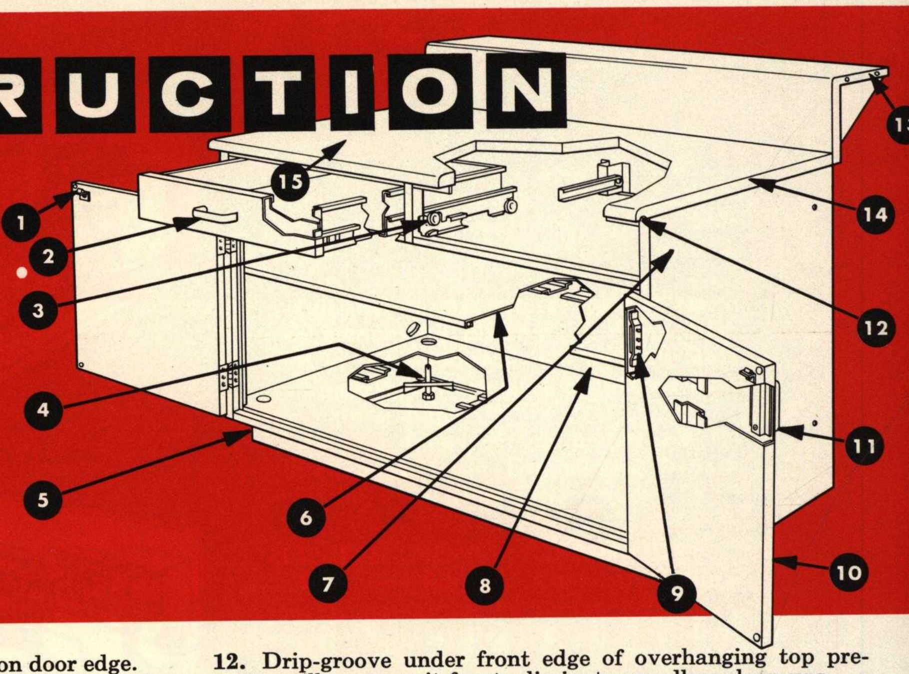
FINISH—Next to strength and quality of steel, the ability to withstand corrosive reagents is a fundamental factor in laboratory units. All Fisher units are fully immersed in a phosphate bath (i.e., Bonderized). This special chemical process greatly increases the steel's resistance to rust if the surface becomes badly scratched, and acts as a strong bond between metal and finish.

Fisher units then get a coat of high-bake enamel primer, baked out completely at 350°F; a gray finish coat (fortified enamel pigmented with inert materials plus an aluminum powder) at 350°F; and a clear unpigmented vinyl coat at 250°F. Color is an attractive medium metallic gray.

Panels finished as above withstand such tests as 15-minute exposure to glacial acetic, 50% nitric, 77% sulfuric and concentrated hydrochloric acids, and 10% sodium hydroxide.

CONSTRUCTION

features...



1. Roller catch holds door closed, avoids wear on door edge.
2. Door and drawer pulls are heavy die-castings, coated with a black plastic resin with resistance comparable to Kemrock.
3. Drawers roll on nylon ball-bearing rollers concealed in side channels; safety catches provided.
4. Leveling legs permit matching of table tops, are reached through capped holes in reinforced floor.
5. Recessed toe space for standing worker. Rubber cove molding protects unit from shoe marks, floor mopping; seals crack at floor to keep out water and dirt.
6. Full-size shelf is reinforced and can be adjusted over a 16-inch range in ½-inch steps.
7. Pre-drilled holes facilitate bolting adjacent units. Units can be bolted back-to-back to form center "island" with 14-inch reagent shelf.
8. Rear panel can readily be removed to check utilities without disturbing unit or unit assembly.
9. Hinge reinforcements are substantial 14-gauge steel.
10. Rigid doors and drawer heads are double-panel construction, ¾-inch thick, completely Bonderized and painted inside and out. Doors open full 180°. No center post to interfere with free access to cupboard.
11. Convenient pulls near cupboard top permit easy opening, without stooping or bending. Doors close by simple push.
12. Drip-groove under front edge of overhanging top prevents spillage on unit front, eliminates needless clean-ups.
13. Acid-proof reagent shelf and splashback, integral part of Stainless Steel tops, made of kiln-dried acid-proofed basswood for Kemrock and Formica tops. Shelf is 7 inches deep, can be removed to permit use of unit as base cabinet. Reagent shelf positions base 7 inches from wall for clearance of utility lines. Outlets provided for water, gas and electric connections (snap-out discs in Stainless Steel splashback; holes easily drilled in basswood splashback used with Kemrock and Formica tops). Dowel holes in rear edge and end of reagent shelf make alignment easy.
14. One-piece assembly—Kemrock and Formica top joints are sealed with cement; Stainless Steel tops bolt against neoprene strips to produce one-piece assembly. 29-sq-inch area provides good seal and continuous top across adjacent units.
15. Choice of 3 working tops—Kemrock, Formica or Stainless Steel. Tops on all but tables, desks and sitting-height (30-inch) units are 36 inches high.

All units are heavy-gauge steel with edges and corners interlocked and welded; entire unit is Bonderized before three-coat painting. Neutral gray finish resistant to moisture, chemicals, solvents, abrasion; reflects maximum light without glare; blends with modern floor and wall colors.

© 1959 by Fisher Scientific
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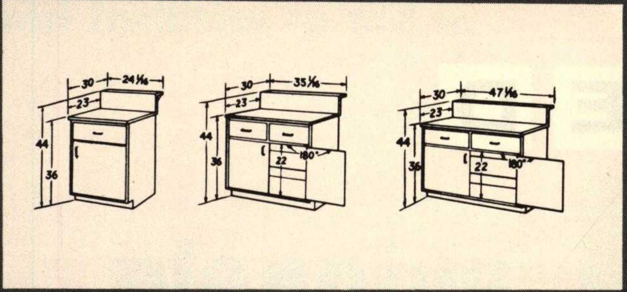
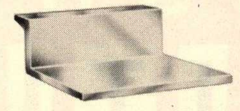
TYPICAL *dimensions...*

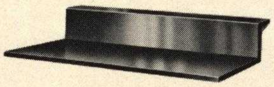


A 2-FT UNIT	A 3-FT UNIT	A 4-FT UNIT
Drawer: 4 1/16" deep, 20 5/8" wide, 18" front-to-back	Drawer: 4 1/16" deep, 14 5/8" wide, 18" front-to-back	Drawer: 4 1/16" deep, 20 5/8" wide, 18" front-to-back

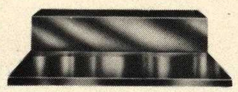
TYPICAL *working tops...*



STAINLESS STEEL for public health, food, and radioisotope labs

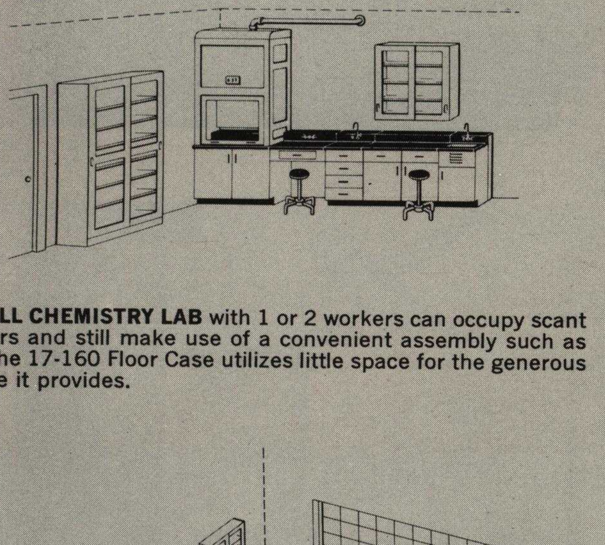


KEMROCK a general-purpose top for chemical labs

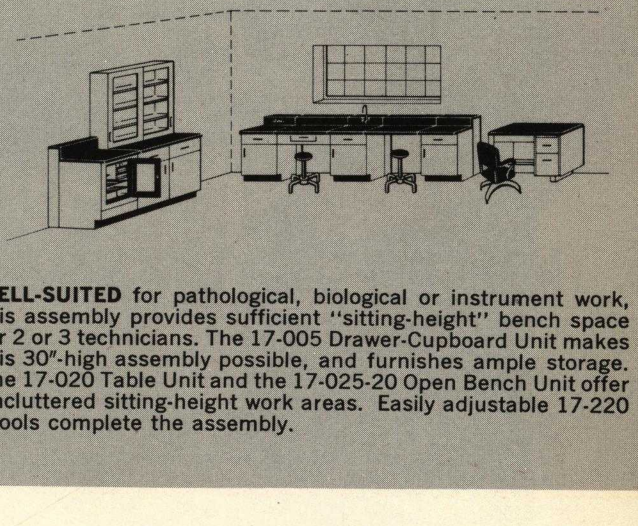


FORMICA for biological, electronic, physics and clinical labs

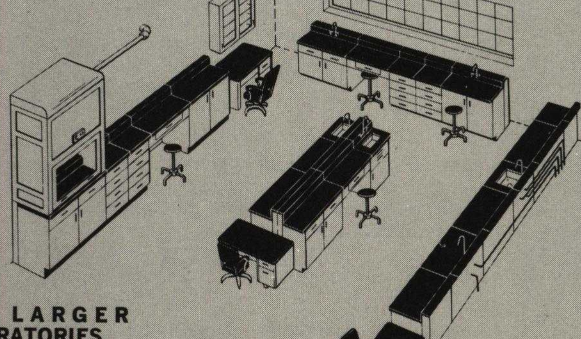
TYPICAL *assemblies...*



A SMALL CHEMISTRY LAB with 1 or 2 workers can occupy scant quarters and still make use of a convenient assembly such as this. The 17-160 Floor Case utilizes little space for the generous storage it provides.



WELL-SUITED for pathological, biological or instrument work, this assembly provides sufficient "sitting-height" bench space for 2 or 3 technicians. The 17-005 Drawer-Cupboard Unit makes this 30"-high assembly possible, and furnishes ample storage. The 17-020 Table Unit and the 17-025-20 Open Bench Unit offer uncluttered sitting-height work areas. Easily adjustable 17-220 Stools complete the assembly.



FOR LARGER LABORATORIES, here's a "back-to-back" assembly forming a center island. Three 17-200 Desks and 17-210 Chairs are included for convenience in studying references, writing reports.

SPECIAL *sewage-disposal assembly*

AMONG THE UNIQUE SERVICES of Fisher furniture experts is their complete, **ready-to-use** laboratory for sewage plants.

This assembly includes a new Fisher Furniture Unit 4 feet long, with 3 large compartmented drawers containing all the apparatus and chemicals required for the tests regularly conducted in such a laboratory. This Unit, combined with a standard Fisher Sink Unit plus one or two additional Units from the standard line (depending on size of room), adds up to a "packaged" laboratory exceptionally easy to specify and install. A newly hired technician can literally walk in and start running tests in minutes.

For details, write to FISHER SCIENTIFIC, 217 Fisher Building, Pittsburgh 19, Pennsylvania.

FISHER UNITIZED furniture

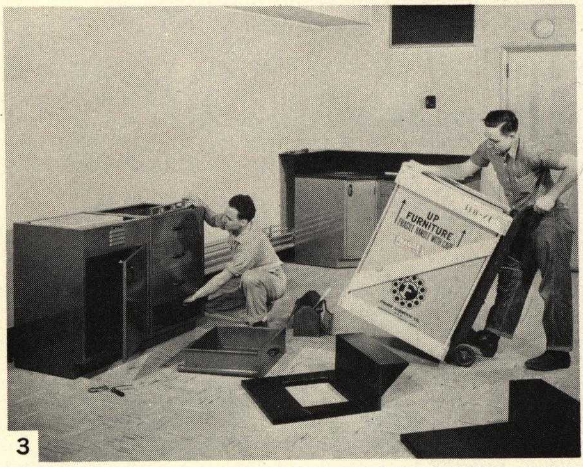
reduces planning, ordering and installing to a few simple steps

1

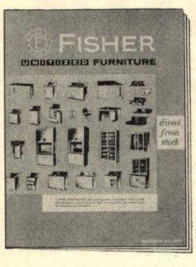
2

1. PLANNING is expedited by the Fisher Lab Planning Kit, free from all Fisher plants. It has scaled floor layouts, scaled punch-outs of the units, plus a 24-page furniture catalog.

2. YOUR ORDER is handled by experienced staffs, your units shipped from well-stocked Fisher furniture warehouses such as the one shown above, right. Each unit is pre-packaged for prompt shipment, has every piece of hardware, every bolt and screw needed for the installation.


3

3. TO INSTALL units merely uncrate; cement the tops; fasten the reagent shelves and utility accessories. Each unit has its own side walls and back, can be used anywhere in the assembly, added to later.



Send for 24-Page Catalog and Planning Kit—*You'll find the Fisher Unitized Furniture Catalog a gold mine of ideas for laboratory planning. Dimensions and photos of every unit. Catalog plus Planning Kit enables you to design your own installation. Write FISHER SCIENTIFIC, 217 Fisher Building, Pittsburgh 19, Pa.*

STOCKED AND DISTRIBUTED BY

FISHER SCIENTIFIC

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General Electric offers its vast x-ray experience and facilities to aid in

planning the hospital x-ray department

"Shirt sleeve session"...

Planning and blueprinting a modern x-ray department are certain to involve both the hospital administrator and the architect in a maze of unfamiliar complications. Logical starting point for any construction project involving x-ray facilities is your local General Electric x-ray consultant. Exploratory "shirt sleeve" sessions with all persons involved first determine specific needs. Planning can then be expertly guided by our Installation Planning Service.

With your requirements in mind, this full-time staff of specialists considers every possible operating advantage and convenience: How to arrange equipment and make space work more profitably . . . power, wiring and protective requirements . . . plumbing and other arrangements are carefully analyzed. Thus the layout offered the architect is based on the ultimate in service from the department's x-ray equipment.

Hospital architects rely on this General Electric service more and more because planning experience of more than 50 years helps G.E. provide hundreds of practical application advantages. Of course, there's no cost or obligation for this service.

Subsequent pages outline its operations step by step.

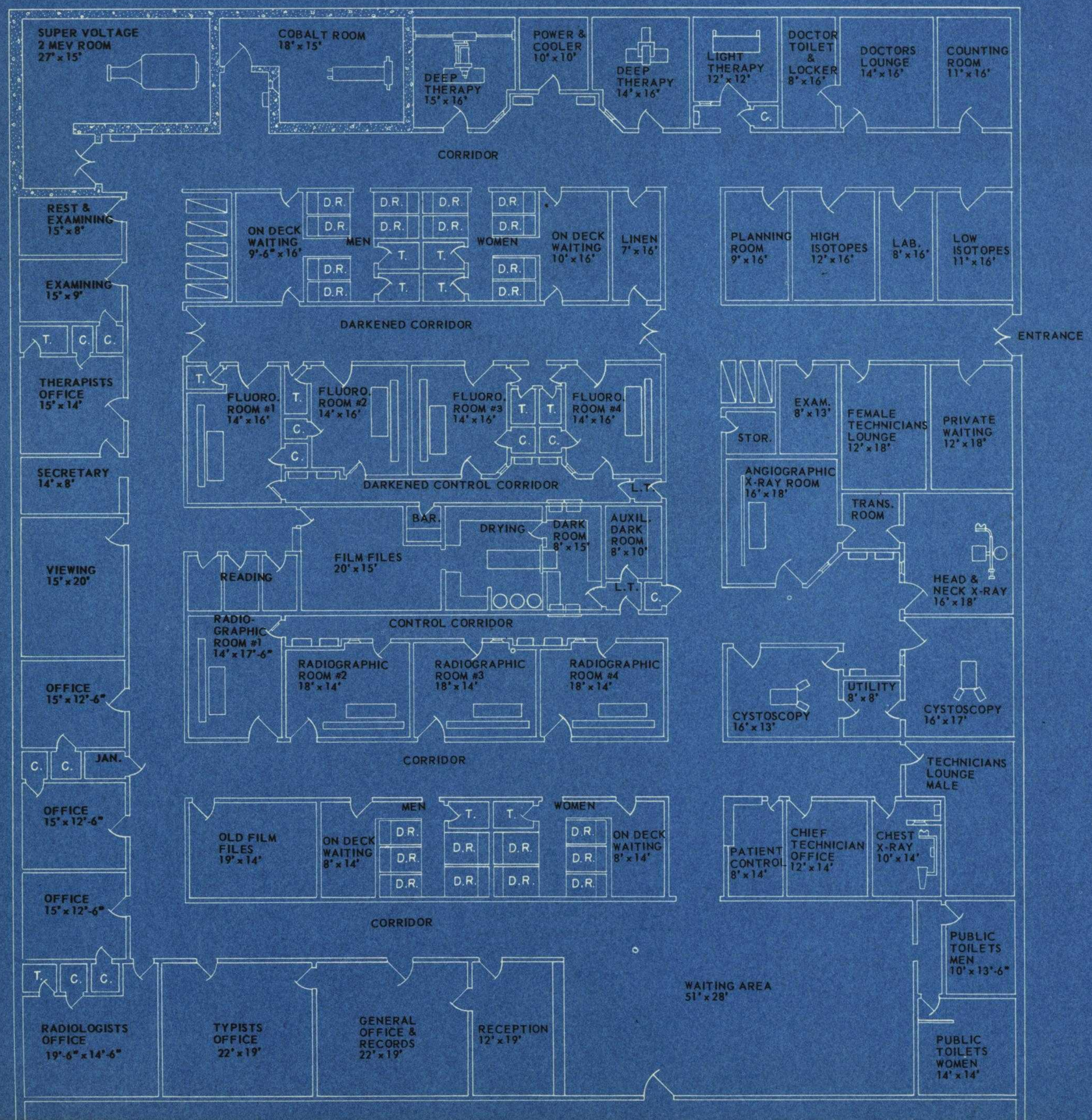
X-RAY DEPARTMENT

GENERAL ELECTRIC

MILWAUKEE 1, WISCONSIN

G-E experience helps you

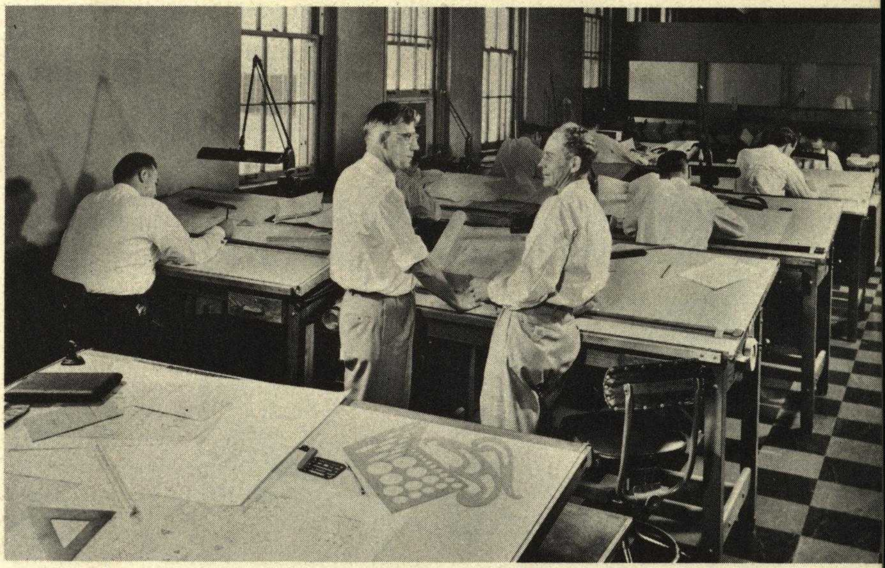
Preliminary plans factor in space, work load, traffic flow


SUPER VOLTAGE
2 MEV ROOM
27' x 15'
COBALT ROOM
18' x 15'
DEEP THERAPY
15' x 16'
POWER & COOLER
10' x 10'
DEEP THERAPY
14' x 16'
LIGHT THERAPY
12' x 12'
DOCTOR TOILET & LOCKER
8' x 16'
C.
DOCTORS LOUNGE
14' x 16'
COUNTING ROOM
11' x 16'
CORRIDOR
REST & EXAMINING
15' x 8'
ON DECK WAITING
9'-6" x 16'
D.R.
MEN
WOMEN
T.
ON DECK WAITING
10' x 16'
LINEN
7' x 16'
PLANNING ROOM
9' x 16'
HIGH ISOTOPES
12' x 16'
LAB.
8' x 16'
LOW ISOTOPES
11' x 16'
EXAMINING
15' x 9'
DARKENED CORRIDOR
ENTRANCE
T.
C.
C.
THERAPISTS OFFICE
15' x 14'
FLUORO. ROOM #1
14' x 16'
FLUORO. ROOM #2
14' x 16'
FLUORO. ROOM #3
14' x 16'
FLUORO. ROOM #4
14' x 16'
EXAM.
8' x 13'
STOR.
FEMALE TECHNICIANS LOUNGE
12' x 18'
PRIVATE WAITING
12' x 18'
SECRETARY
14' x 8'
DARKENED CONTROL CORRIDOR
L.T.
ANGIOGRAPHIC X-RAY ROOM
16' x 18'
TRANS. ROOM
BAR.
DRYING
DARK ROOM
8' x 15'
AUXIL. DARK ROOM
8' x 10'
VIEWING
15' x 20'
READING
FILM FILES
20' x 15'
HEAD & NECK X-RAY
16' x 18'
RADIOGRAPHIC ROOM #1
14' x 17'-6"
CONTROL CORRIDOR
RADIOGRAPHIC ROOM #2
18' x 14'
RADIOGRAPHIC ROOM #3
18' x 14'
RADIOGRAPHIC ROOM #4
18' x 14'
OFFICE
15' x 12'-6"
UTILITY
8' x 8'
CYSTOSCOPY
16' x 13'
CYSTOSCOPY
16' x 17'
JAN.
CORRIDOR
TECHNICIANS LOUNGE MALE
OFFICE
15' x 12'-6"
OLD FILM FILES
19' x 14'
ON DECK WAITING
8' x 14'
ON DECK WAITING
8' x 14'
PATIENT CONTROL
8' x 14'
CHIEF TECHNICIAN OFFICE
12' x 14'
CHEST X-RAY
10' x 14'
OFFICE
15' x 12'-6"
CORRIDOR
PUBLIC TOILETS MEN
10' x 13'-6"
WAITING AREA
51' x 28'
RADIOLOGISTS OFFICE
19'-6" x 14'-6"
TYPISTS OFFICE
22' x 19'
GENERAL OFFICE & RECORDS
22' x 19'
RECEPTION
12' x 19'
PUBLIC TOILETS WOMEN
14' x 14'

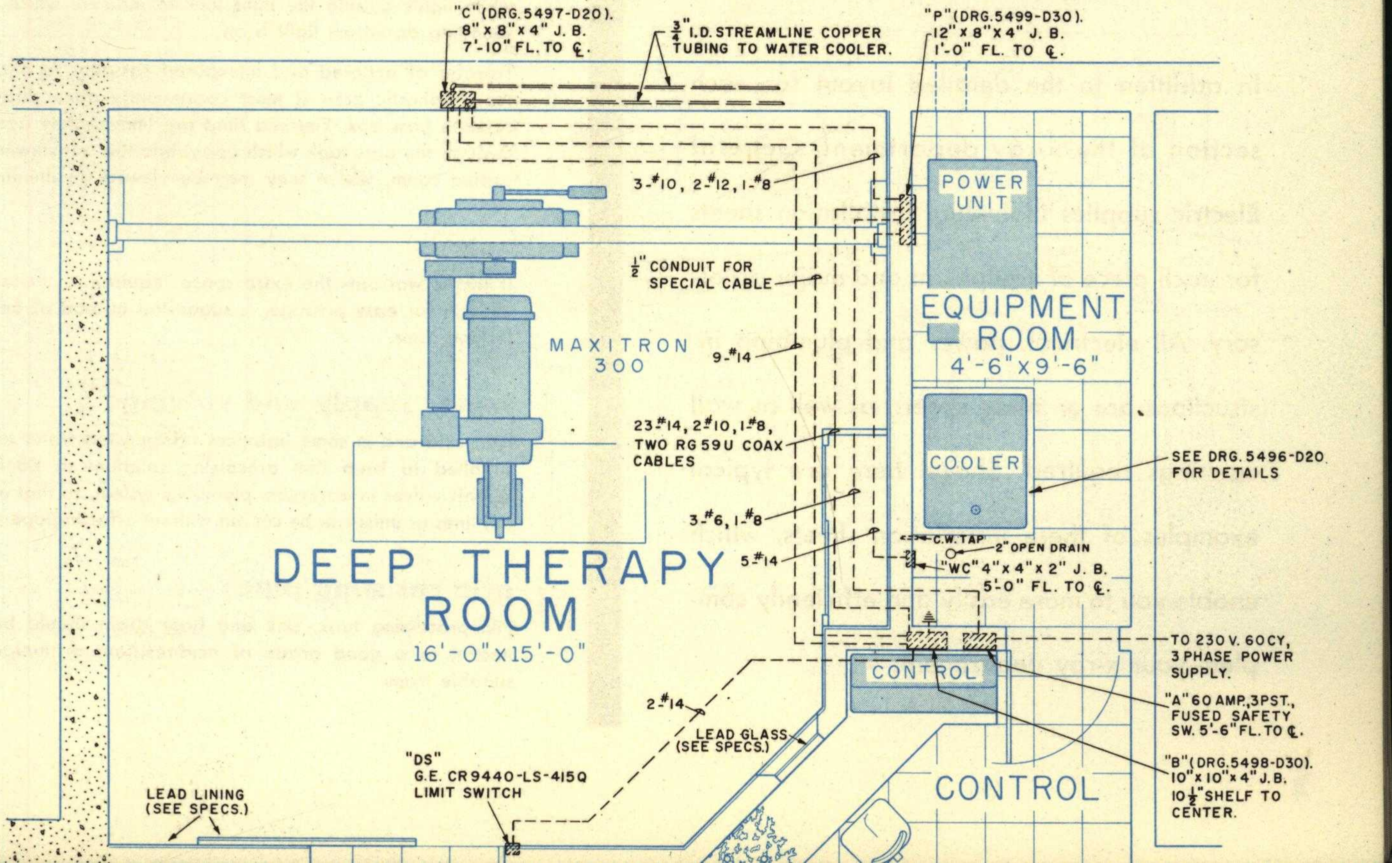
through every stage

...general layout of department...detailed plans for each section...precise installation sheets for each piece of equipment.

Size of a hospital is no indication of its x-ray needs. Requirements vary widely due to other significant factors. Thus, in lending aid for a proposed project, our representative first assembles information by careful preliminary survey and through personal discussions with the architect, radiologist, administrator and others. Data is forwarded to our headquarters *Installation Planning Service* in Milwaukee, where preliminary layouts are prepared combining to best advantage the ideas of all those working on the project. Based upon review and revision of these preliminary plans by all concerned, final detailed layouts of each section of the proposed department are prepared and supplied.

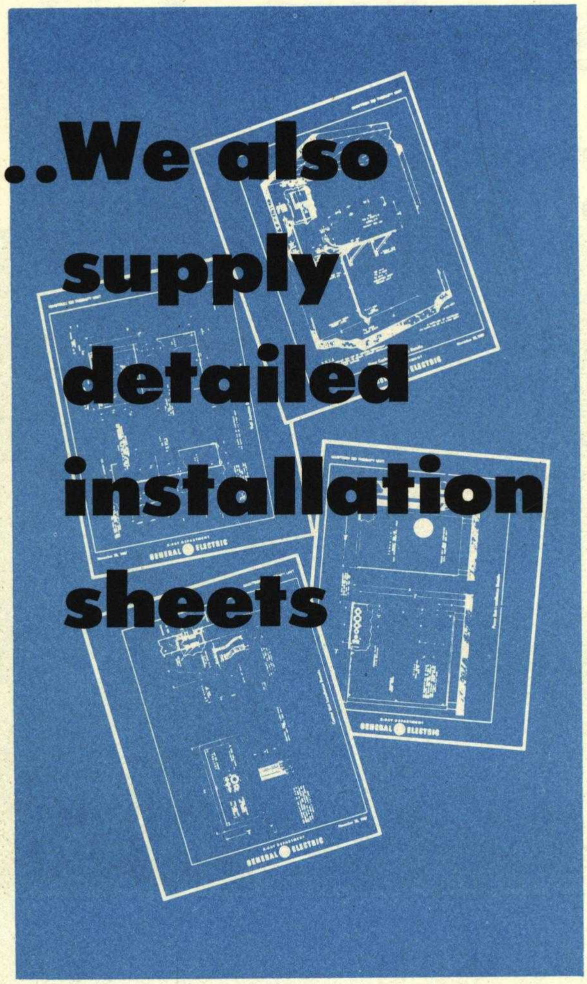


Final layouts of each area are complete and exact


"C" (DRG. 5497-D20).
8" x 8" x 4" J. B.
7'-10" FL. TO ℄.
$\frac{3}{4}$" I.D. STREAMLINE COPPER TUBING TO WATER COOLER.
"P" (DRG. 5499-D30).
12" x 8" x 4" J. B.
1'-0" FL. TO ℄.
3-#10, 2-#12, 1-#8
POWER UNIT
$\frac{1}{2}$" CONDUIT FOR SPECIAL CABLE
EQUIPMENT ROOM
4'-6" x 9'-6"
MAXITRON 300
9-#14
23-#14, 2-#10, 1-#8, TWO RG 59U COAX CABLES
COOLER
SEE DRG. 5496-D20 FOR DETAILS
3-#6, 1-#8
C.W. TAP
2" OPEN DRAIN
5-#14
"WC" 4" x 4" x 2" J. B.
5'-0" FL. TO ℄.
DEEP THERAPY ROOM
16'-0" x 15'-0"
TO 230 V. 60 CY, 3 PHASE POWER SUPPLY.
CONTROL
"A" 60 AMP, 3 PST., FUSED SAFETY SW. 5'-6" FL. TO ℄.
2-#14
LEAD GLASS (SEE SPECS.)
"B" (DRG. 5498-D30).
10" x 10" x 4" J.B.
10$\frac{1}{2}$" SHELF TO CENTER.
"DS"
G.E. CR 9440-LS-415Q LIMIT SWITCH
LEAD LINING (SEE SPECS.)
CONTROL

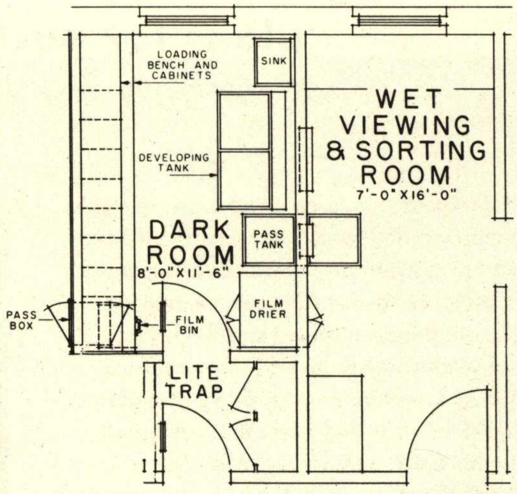
Layout service (cont.)

...We also supply detailed installation sheets



In addition to the detailed layout for each section of the x-ray department, General Electric supplies individual installation sheets for each piece of equipment and major accessory. All electrical, power and plumbing instructions are on these sheets, as well as wall openings required. Shown here are typical examples of these installation sheets, which enable you to more easily and efficiently complete your x-ray department.

Film processing



A typical darkroom plan provides ample space for complete processing of films at maximum efficiency. Providing separate wet and dry sides of the darkroom will eliminate congestion and help prevent spilling of film-processing solutions on cassettes and films at the loading bench.

In order to keep harmful light from accidentally entering the darkroom, either a maze or a door which can be interlocked should be provided. There should also be red and white lights outside the light lock to indicate which corresponding darkroom light is on.

Transfer of exposed and unexposed cassettes to and from the diagnostic area is most conveniently done through a cassette pass box. Finished films are immediately available through the pass tank which opens into the wet-viewing and sorting room, where they may be viewed on illuminators.

mazes

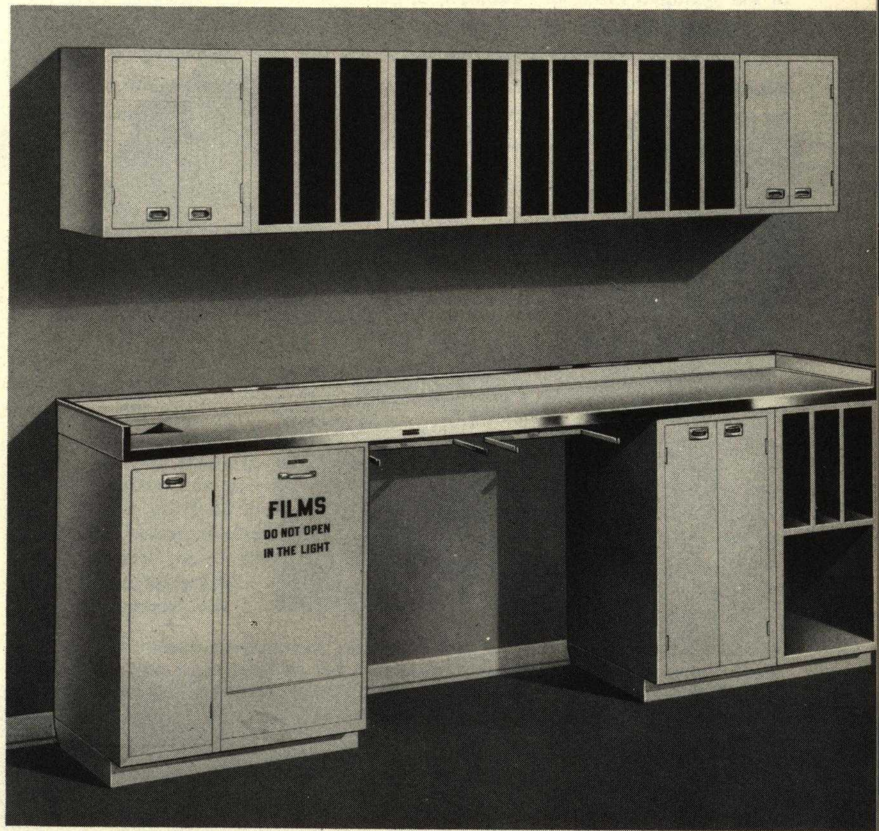
If traffic warrants the extra space required, a maze, wide enough for easy passage, is suggested instead of an interlocking door.

water supply and valving

Hot, cold and in some instances refrigerated water must be supplied to keep film processing solutions at 68°F. Use shutoff valves in darkroom plumbing system, so that individual lines or units can be cut out without affecting operations.

acid resisting pipe

Film-processing tank, sink and floor drain should be connected to a good grade of acid-resistant drainpipe with suitable traps.


FILMS
DO NOT OPEN
IN THE LIGHT

Sectional darkroom cabinets

Sectional Darkroom Cabinets offer a complete range of storage and work facilities, in whatever combination is best suited for the particular darkroom being designed. Cabinets for storage, cassettes, a waste bin and film identifier, as well as fillers, are all of gray metal. The benchtop, which is cut to specification, has a top of either gray Textolite or gray linoleum. Illustrations of each unit and exact dimensions are shown in Pub. 7E-3612, which is available upon request.

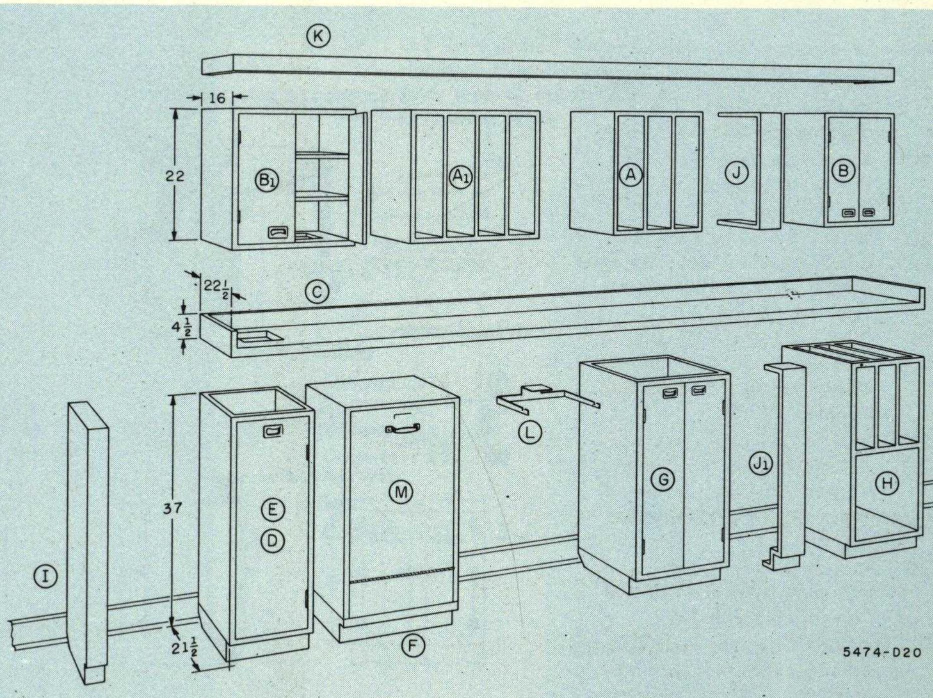
	CAT. NO.	WIDTH	NO.
A	E1168A	18	
A_1	E1168B	24	
B	E1168C	18	
B_1	E1168D	18	
C	E1168H	*	
D	E1168AD	12	
E	E1168AE	12	
F	E1168AF	18	
G	E1168AC	18	
H	E1168AB	18	
I	E1168AG	3	
J	E1168E	$1, 1\frac{1}{2}, 2, 3, 6$	
J_1	E1168AH	$1, 1\frac{1}{2}, 2, 3, 6$	
K	E1168F	**	
L	E1016D	$16\frac{1}{2}$	
M	E1056A	18	

NOTE:

B_1 WITH CUTOUT FOR SAFELIGHT.

** ANY DESIRED LENGTH, 2",3",4" OR 8" HIGH

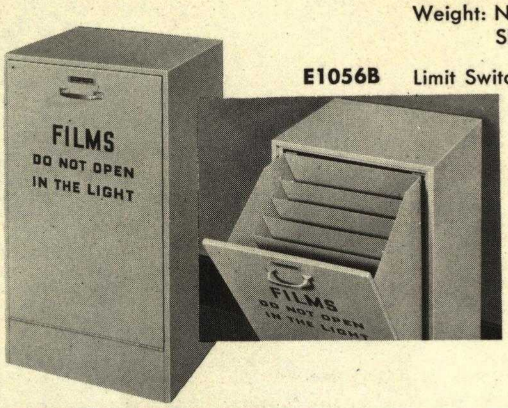
* ANY DESIRED LENGTH.


K
16
22
B_1
A_1
A
J
B
$22\frac{1}{2}$
C
$4\frac{1}{2}$
37
E
D
M
L
G
J_1
H
I
$21\frac{1}{2}$
F
5474-D20

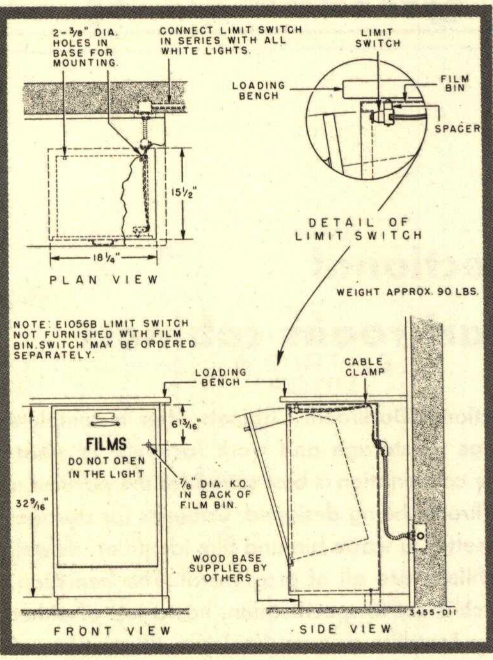
Adaptosize film-storage bin

The G-E Adaptosize Film-Storage Bin may be installed under the loading bench of the Sectional Darkroom Cabinets, or as a unit in itself. Adjustable adapters are furnished to allow boxes of film of various sizes to be stored upright with the upper edge on a level with the top of the bin. The film-storage bin has a dependable light trap construction and provision is made for the installation of an optional limit switch (E1056B) which automatically cuts off the white light in the room when the bin is opened.

Cat. No.	
E1056A	G-E Adaptosize Film-Storage Bin, supplied with adapters. Weight: Net—98# Shipping—110#
E1056B	Limit Switch


FILMS
DO NOT OPEN
IN THE LIGHT
FILMS
DO NOT OPEN
IN THE LIGHT

G-E Adaptosize Film Storage Bin

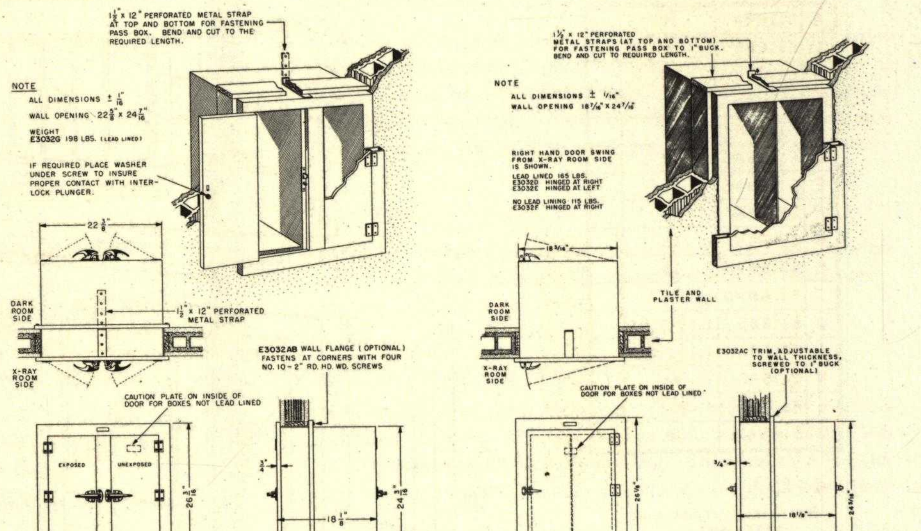

2-3/8" DIA. HOLES IN BASE FOR MOUNTING.
CONNECT LIMIT SWITCH IN SERIES WITH ALL WHITE LIGHTS.
LIMIT SWITCH
LOADING BENCH
FILM BIN
SPACER
15½"
18¼"
PLAN VIEW
DETAIL OF LIMIT SWITCH
WEIGHT APPROX. 90 LBS.
NOTE: E1056B LIMIT SWITCH NOT FURNISHED WITH FILM BIN. SWITCH MAY BE ORDERED SEPARATELY.
LOADING BENCH
CABLE CLAMP
6 13/16"
FILMS
DO NOT OPEN
IN THE LIGHT
32 9/16"
7/8" DIA. K.O. IN BACK OF FILM BIN.
WOOD BASE SUPPLIED BY OTHERS
3455-D11
FRONT VIEW
SIDE VIEW

film bin

Cassette pass boxes

The cassette pass box, constructed of heavy-gage steel and terne plate, and interlined with 1/16" sheet lead, permits safe, two-way transfer of cassettes between the darkroom and radiographic room. Choice includes automatic or manual door interlocks . . . 2- and 4-door models . . . and a double-capacity, 4-door, manual interlock model.

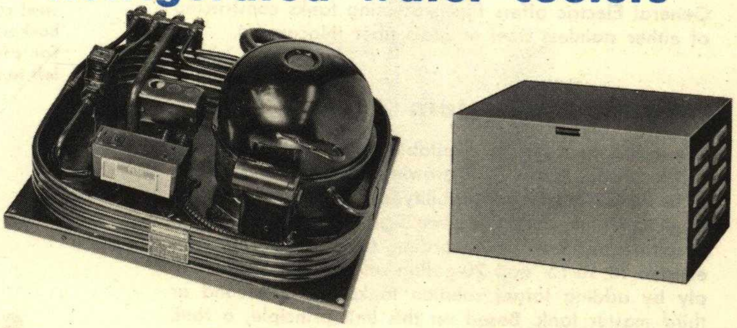
E3032A	4-Door Cassette Pass Box, manual interlock; net 200 lbs, shipping 235 lbs.
E3032C	4-Door Cassette Pass Box, manual interlock; net 175 lbs, shipping 220 lbs.
E3032D	2-Door Cassette Pass Box, automatic interlock, doors hinged on right; net 165 lbs, shipping 195 lbs.
E3032E	2-Door Cassette Pass Box, automatic interlock, doors hinged on left; net 165 lbs, shipping 195 lbs.
E3032F	2-Door Cassette Pass Box, automatic interlock, doors hinged on right, no lead liner; net 100 lbs, shipping 135 lbs.
E3032G	4-Door Cassette Pass Box, automatic interlock; net 200 lbs, shipping 235 lbs.
E3032H	4-Door Cassette Pass Box, double width, manual interlock; net 275 lbs, shipping 335 lbs.


1½" x 12" PERFORATED METAL STRAP AT TOP AND BOTTOM FOR FASTENING PASS BOX. BEND AND CUT TO THE REQUIRED LENGTH.
NOTE
ALL DIMENSIONS ± 1/16"
WALL OPENING 22 5/8" x 24 7/16"
WEIGHT
E3032G 198 LBS. (LEAD LINED)
IF REQUIRED PLACE WASHER UNDER SCREW TO INSURE PROPER CONTACT WITH INTERLOCK PLUNGER.
22 3/8"
DARK ROOM SIDE
1½" x 12" PERFORATED METAL STRAP
X-RAY ROOM SIDE
E3032AB WALL FLANGE (OPTIONAL) FASTENS AT CORNERS WITH FOUR NO. 10 - 2" RD. HD. WD. SCREWS
CAUTION PLATE ON INSIDE OF DOOR FOR BOXES NOT LEAD LINED
EXPOSED
UNEXPOSED
26 3/16"
3/4"
18 1/8"
24 3/16"
24 3/8"
42½" TO FLOOR
3559-D23
1½" x 12" PERFORATED METAL STRAPS (AT TOP AND BOTTOM) FOR FASTENING PASS BOX TO 1" BUCK. BEND AND CUT TO REQUIRED LENGTH.
NOTE
ALL DIMENSIONS ± 1/16"
WALL OPENING 18 7/16" X 24 7/16"
RIGHT HAND DOOR SWING FROM X-RAY ROOM SIDE IS SHOWN.
LEAD LINED 165 LBS.
E3032D HINGED AT RIGHT
E3032E HINGED AT LEFT
NO LEAD LINING 115 LBS.
E3032F HINGED AT RIGHT
18 3/16"
DARK ROOM SIDE
TILE AND PLASTER WALL
X-RAY ROOM SIDE
E3032AC TRIM, ADJUSTABLE TO WALL THICKNESS, SCREWED TO 1" BUCK (OPTIONAL)
CAUTION PLATE ON INSIDE OF DOOR FOR BOXES NOT LEAD LINED
EXPOSED UNEXPOSED
26 1/8"
3/4"
18 1/8"
24 3/16"
20 3/16"
BRACKET BY OTHERS
42½" TO FLOOR
3" WIDE REINFORCING STRIP ON INSIDE ALONG REAR EDGE OF BOTTOM. FASTEN BRACKET WITH ¼" SHEET METAL SCREWS IN HOLES PROVIDED. DO NOT PIERCE LEAD LINING ATTACHED TO INNER WALLS.

4-door pass boxes 2-door

Refrigerated water coolers

G-E Refrigerated Water Cooler with three cooling elements.



The one-tier cabinet contains one cooling unit.

The General Electric Refrigerated Water Cooler is built around a basic cartridge-type refrigeration element, capable of cooling 40 gallons of water an hour from 85F to 65F. This cooling element can be obtained in a single-tier cabinet less than 12" high, or, if water cooling demands are great, in a three tier cabinet which will accept one, two or three of these elements. If desired, one element can be purchased at a time, and the others added as water cooling needs increase.

A remote cold-control, placed in the rinse compartment of the developing tank monitors the continuously flowing water delivered by the cooler so that the tank water remains within ±2° of optimum processing temperature, and the solutions remain at ±1°. All electrical components of the cooler and cold controls are Underwriter's approved.

power service

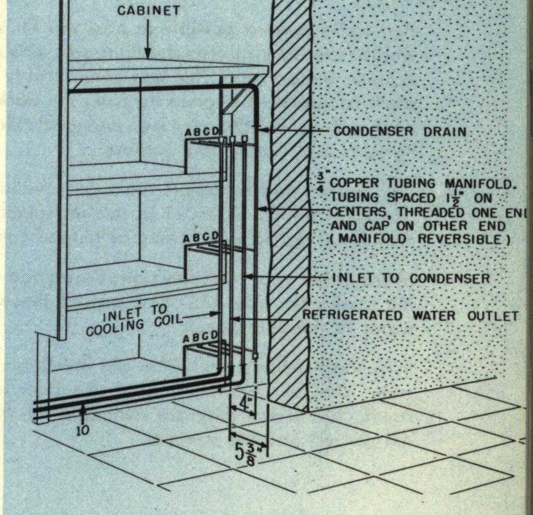
One basic G-E water cooler unit requires 15-amp-115-v outlet with provision for grounding.

Cat. No.

E1150	G-E Refrigerated Water Cooler; specify number of elements, single or three-tier cabinet, with or without plumbing manifold, type of remote cold control (state make and style of processing tank).

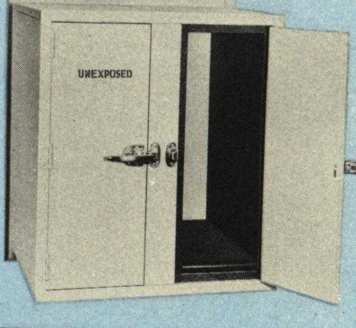
WEIGHTS (lbs)

	Net	Shipping
Cooling Element	110	150
Single-tier Cabinet	20	30
3-tier Cabinet	100	115

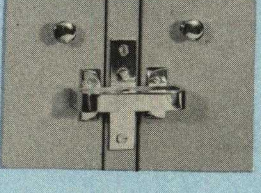

CABINET
ABCD
CONDENSER DRAIN
$\frac{3}{4}$" COPPER TUBING MANIFOLD. TUBING SPACED $1\frac{1}{2}$" ON CENTERS, THREADED ONE END AND CAP ON OTHER END (MANIFOLD REVERSIBLE)
ABCD
INLET TO CONDENSER
INLET TO COOLING COIL
REFRIGERATED WATER OUTLET
ABCD
4"
10
$5\frac{3}{8}$"

three-tier water coolers

2-door cassette pass box



4-door cassette pass box



Manual interlock

Film processing tanks

General Electric offers film-processing tanks constructed of either stainless steel or glass fiber (Nocorode).

master-tank system

The master-tank system, available in either stainless steel or Nocorode, is ideal for growing laboratories because of its flexibility and adaptability. Starting with one basic, or master tank, containing two 5-gallon solution tanks, a hospital can, without discarding a single master unit, expand to 10-15- and 20-gallon solution capacities simply by adding larger solution tanks and a second or third master tank. Based on this unit principle, a tank never becomes obsolete.

backgrounds

Backgrounds are available for single tanks or any combination of tanks. Each stainless-steel background contains a thermostatic mixing valve, dial thermometer, shutoff valves, vacuum breaker, mixing system, interconnecting plumbing and 8 x 10" safelight. Most sizes also include a 14 x 17" illuminator.

Nocorode tank backgrounds contain mixing valve assembly and dial thermometer.

insulation and refrigeration

All stainless-steel tanks have 1½" of spun-glass insulation built into all four sides and bottom. Refrigeration can be obtained in one of two ways: either by purchasing a "coldwall" type stainless-steel tank which has the cooling coils imbedded within the tank walls, or by having a refrigeration element (exactly as that found in the refrigerated water cooler, see page 7), installed in the base of the tank.

Nocorode tanks are available either insulated or non-insulated. The insulation is one-inch thick glass fiber between the inner and outer walls and the bottom of the tank.

pass tanks

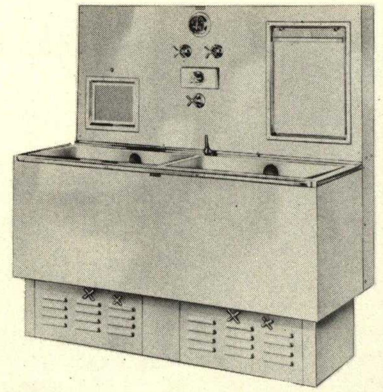
Pass tanks make it possible to pass wet films through the wall of the darkroom to the lightroom side of the radiographic department. This can considerably lessen darkroom congestion by removing from the darkroom operations such as wet film viewing, drying of films, unloading hangers and cutting film corners.

Both water- and fixer-pass tanks are available in standard 30" and 48" sizes, or in smaller special sizes. They may be obtained with sliding or hinged covers.

In the water-pass tank films are developed and fixed on the darkroom side and then passed through the wash water to the lightroom.

With the fixer-pass tank films are developed in the darkroom and then passed through the fixer into the lightroom. In this way they are available for wet viewing at the earliest possible moment.

Special 60" stainless-steel master tank, with background, arranged for processing from left to right.



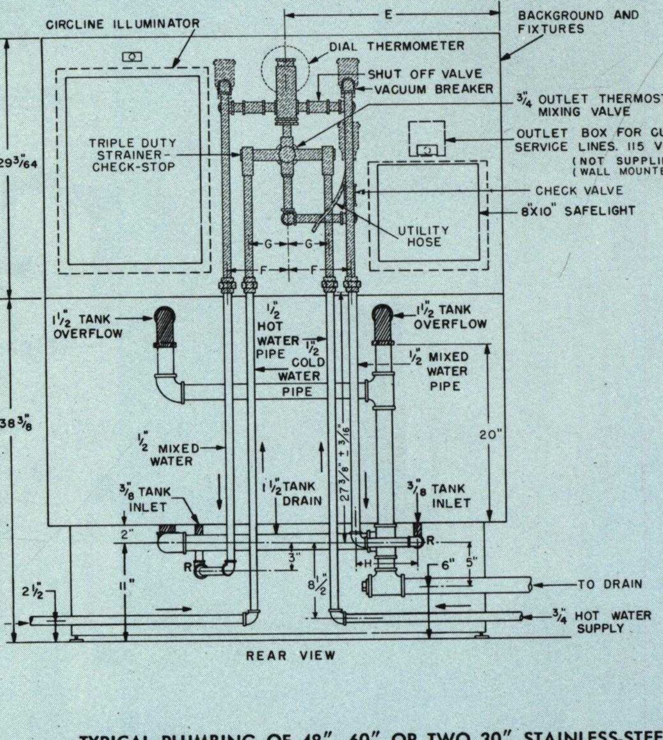
Stainless-steel master tanks

Master Tank Size*	Length	Width	Height
30"	33¼"	23⅛"	39½"
48"	51¼"	23⅛"	39½"
60"	63¼"	23⅛"	39½"

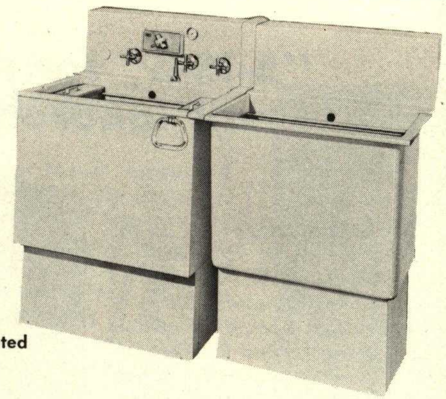
*Available without refrigeration, with refrigeration unit in base, or with cooling coils imbedded in tank walls.

Stainless-steel backgrounds

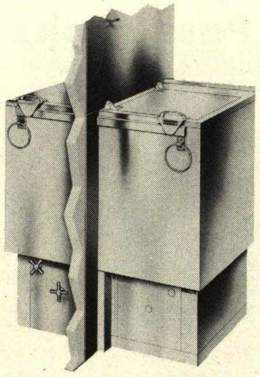
For Master Tank Size	Length	Width	Height
30"	33¼"	7½"	29"
48"	51¼"	7½"	29"
60"	63¼"	7½"	29"
Two 30"	67"	7½"	29"


CIRCLINE ILLUMINATOR
E
BACKGROUND AND FIXTURES
DIAL THERMOMETER
SHUT OFF VALVE
VACUUM BREAKER
¾" OUTLET THERMOSTATIC MIXING VALVE
OUTLET BOX FOR CUSTOMER'S SERVICE LINES. 115 VOLT 10 AMP. (NOT SUPPLIED) (WALL MOUNTED)
TRIPLE DUTY STRAINER-CHECK-STOP
29 3/64
CHECK VALVE
8"X10" SAFELIGHT
UTILITY HOSE
G
G
F
F
1½" TANK OVERFLOW
½" HOT WATER PIPE
½" COLD WATER PIPE
1½" TANK OVERFLOW
½" MIXED WATER PIPE
38 3/8"
20"
½" MIXED WATER
1½" TANK DRAIN
27 3/8" ± 3/16
3/8" TANK INLET
3/8" TANK INLET
2"
3"
R
R.
H
6"
5"
TO DRAIN
11"
8½"
2½"
¾" HOT WATER SUPPLY
REAR VIEW

TYPICAL PLUMBING OF 48", 60" OR TWO 30" STAINLESS-STEEL MASTER TANKS WITH MIXING VALVE ASSEMBLY



Nocorode glass-fiber tank installation combining insulated and noninsulated models.



30″ pass tank with sliding covers.

Nocorode master tanks

(without backgrounds)

OUTSIDE (OVERALL — NONINSULATED)

	Length	Front to Back	Height
Tank	33½″	20¾″	23¾″
Base	27⅜″	14½″	14½″

OUTSIDE (OVERALL — INSULATED)

	Length	Front to Back	Height
Tank	33½″	20¾″	24¾″
Base	32⅞″	17⅜″	14½″

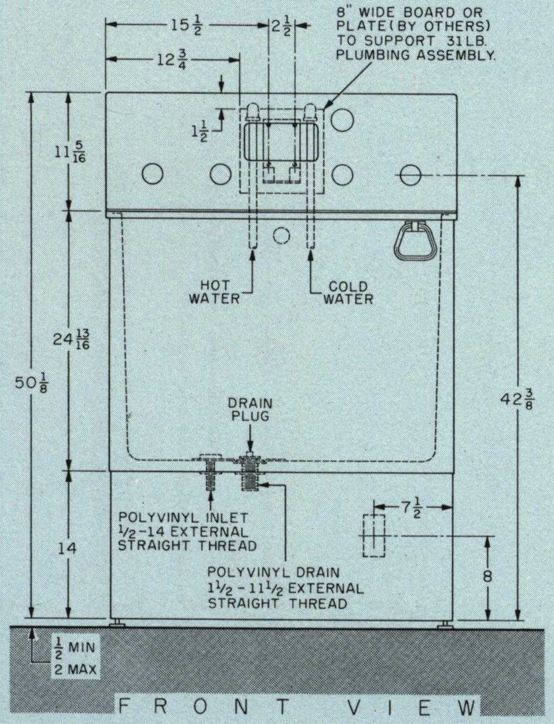
Backgrounds:
Overall size — 33½″ long; 10½″ front to back; 15⅜″ high.

Pass tanks

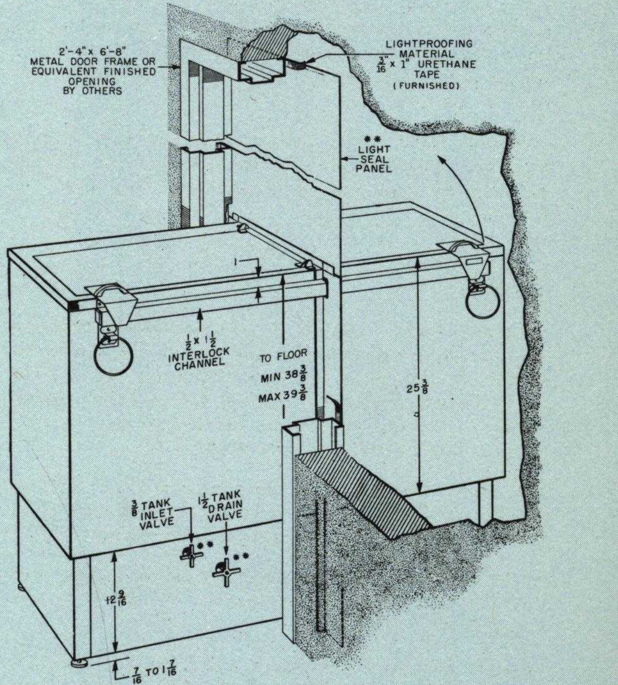
	Length	Width*	Height†
30″	33¼″	23¾″	flat — 39½″ hooded — 50¼″
48″	51¼″	23¾″	flat — 39½″ hooded — 50¼″

*without wall filler panel; add 7⅜″ for panel

†without wall filler panel; with panel — 81½″


15 1/2
2 1/2
12 3/4
8" WIDE BOARD OR PLATE (BY OTHERS) TO SUPPORT 31 LB. PLUMBING ASSEMBLY.
1 1/2
11 5/16
HOT WATER
COLD WATER
24 13/16
50 1/8
42 3/8
DRAIN PLUG
POLYVINYL INLET 1/2-14 EXTERNAL STRAIGHT THREAD
POLYVINYL DRAIN 1 1/2 - 11 1/2 EXTERNAL STRAIGHT THREAD
7 1/2
14
8
1/2 MIN
2 MAX
FRONT VIEW

INSULATED GLASS FIBER PROCESSING TANKS


2'-4" x 6'-8" METAL DOOR FRAME OR EQUIVALENT FINISHED OPENING BY OTHERS
LIGHTPROOFING MATERIAL 3/16" x 1" URETHANE TAPE (FURNISHED)
** LIGHT SEAL PANEL
1
1/2 x 1 1/2 INTERLOCK CHANNEL
TO FLOOR MIN 38 3/8 MAX 39 3/8
25 3/8
3/8 TANK INLET VALVE
1 1/2 TANK DRAIN VALVE
**
**
12 9/16
7/16 TO 1 7/16

NOTES

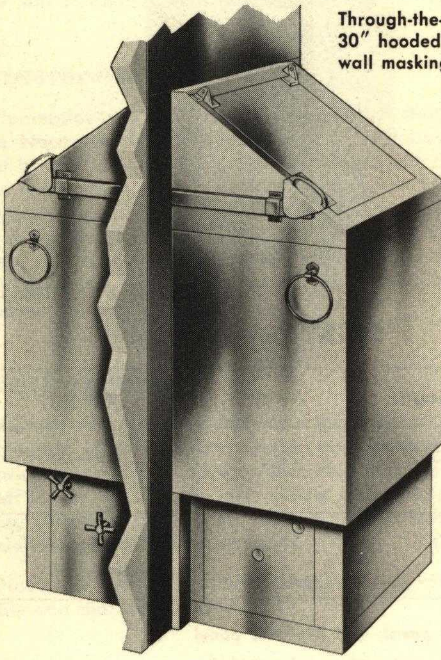
* LOCATION OF VALVES FOR RIGHT TO LEFT PROCESSING.

** SUPPLIED WITH TANK.

TANK INSTALLATION, CONNECTION AND ALL NECESSARY PIPES AND FITTINGS (SHOWN SHADED) BY OTHERS

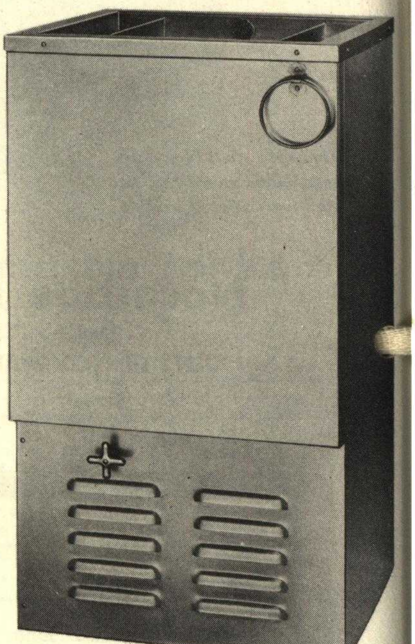
30″ or 48″ STAINLESS STEEL PASS TANK

Pass tanks



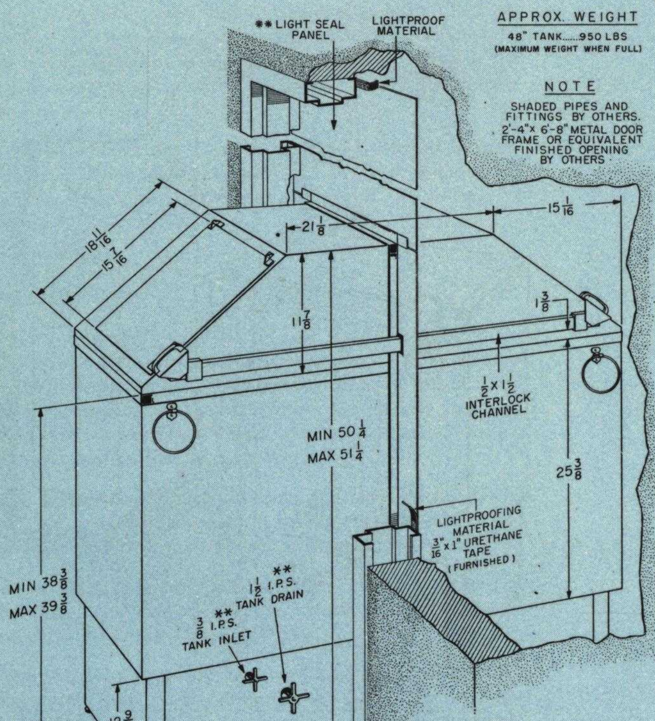
Through-the-wall installation of 30″ hooded pass tank, showing wall masking flange.

"5-15-5" for the small laboratory



Here is a tank with 25-gallon capacity (5 gallons of developer, 5 of fixer and 15 of wash water). Made of stainless steel, it is available in three styles: insulated, refrigerated; insulated, non-refrigerated; noninsulated, non-refrigerated.

E1162E	Insulated, refrigerated model
E1162F	Insulated, nonrefrigerated model
E1162AB	Noninsulated, nonrefrigerated model



** LIGHT SEAL PANEL
LIGHTPROOF MATERIAL
$15\frac{1}{16}$
$21\frac{1}{8}$
$18\frac{11}{16}$
$15\frac{7}{16}$
$11\frac{7}{8}$
$1\frac{3}{8}$
$\frac{1}{2} \times 1\frac{1}{2}$ INTERLOCK CHANNEL
MIN $50\frac{1}{4}$
MAX $51\frac{1}{4}$
$25\frac{3}{8}$
LIGHTPROOFING MATERIAL $\frac{3}{16}$" x 1" URETHANE TAPE (FURNISHED)
MIN $38\frac{3}{8}$
MAX $39\frac{3}{8}$
** $1\frac{1}{2}$ I.P.S. TANK DRAIN
** $\frac{3}{8}$ I.P.S. TANK INLET
$12\frac{9}{16}$
$\frac{7}{16}$ TO $1\frac{7}{16}$

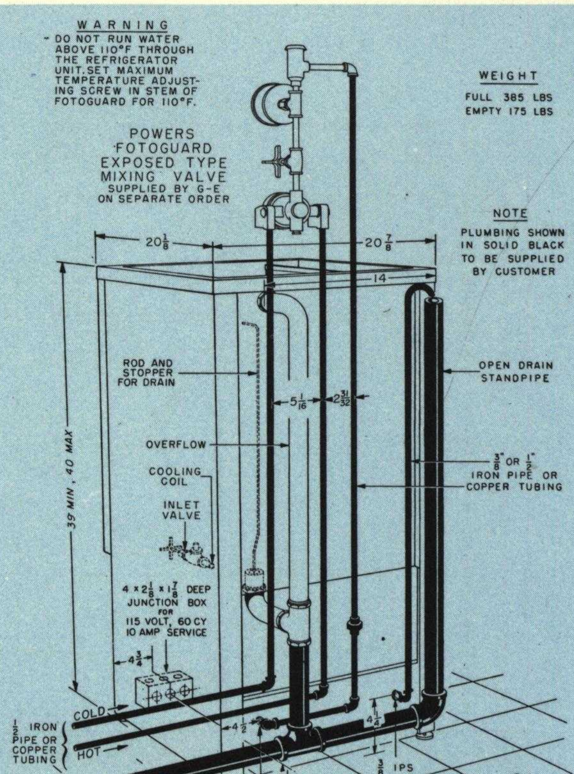
APPROX. WEIGHT

48" TANK......950 LBS
(MAXIMUM WEIGHT WHEN FULL)

NOTE

SHADED PIPES AND FITTINGS BY OTHERS. 2'-4"x 6'-8" METAL DOOR FRAME OR EQUIVALENT FINISHED OPENING BY OTHERS

48″ INSULATED HOODED PASS TANK



POWERS FOTOGUARD EXPOSED TYPE MIXING VALVE SUPPLIED BY G-E ON SEPARATE ORDER
$20\frac{1}{8}$
$20\frac{7}{8}$
14
ROD AND STOPPER FOR DRAIN
$5\frac{1}{16}$
$2\frac{31}{32}$
OPEN DRAIN STANDPIPE
OVERFLOW
COOLING COIL
INLET VALVE
$\frac{3}{8}$" OR $\frac{1}{2}$" IRON PIPE OR COPPER TUBING
39 MIN, 40 MAX
$4 \times 2\frac{1}{8} \times 1\frac{7}{8}$ DEEP JUNCTION BOX FOR 115 VOLT, 60 CY 10 AMP SERVICE
$4\frac{3}{4}$
COLD
HOT
$\frac{1}{2}$ IRON PIPE OR COPPER TUBING
$4\frac{1}{2}$
$4\frac{1}{4}$
$3\frac{1}{4}$
$1\frac{1}{4}$ OR $1\frac{1}{2}$ IRON PIPE
TO DRAIN AND TRAP
$\frac{3}{8}$ IPS INLET TO CONDENSER AND COOLING COIL
$\frac{3}{8}$ IPS CONDENSER DRAIN
5-15-5
ELECTRICAL SYMBOL SEE INSTALLATION PLANNING LAYOUT

WARNING

- DO NOT RUN WATER ABOVE 110°F THROUGH THE REFRIGERATOR UNIT. SET MAXIMUM TEMPERATURE ADJUSTING SCREW IN STEM OF FOTOGUARD FOR 110°F.

WEIGHT

FULL 385 LBS
EMPTY 175 LBS

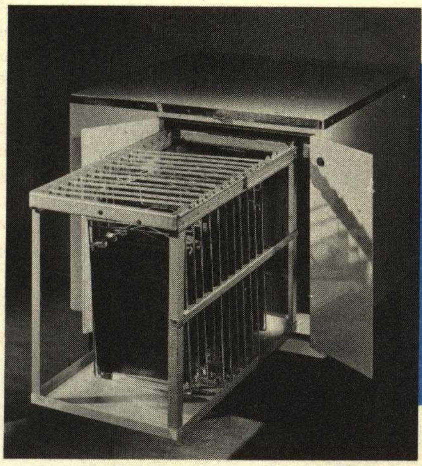
NOTE

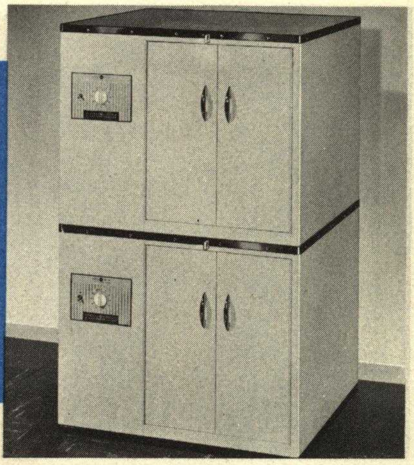
PLUMBING SHOWN IN SOLID BLACK TO BE SUPPLIED BY CUSTOMER

PLUMBING OF 5-15-5 REFRIGERATED STAINLESS STEEL FILM PROCESSING TANK WITH MIXING VALVE ASSEMBLY

Circlair driers

The G-E Circlair Drier has an unequalled output rate for a drier of its size and price. It will hold fifteen 14" x 17" films and dry from 240 to 270 films in an 8 hour day. It can be stacked to conserve space, and can be installed through a wall, as there are doors at front and back of the drier. The timer can be preset for any period up to 55 minutes or for continuous operation. The Circlair is constructed of welded bonderized steel and finished in gray baked enamel. Various types of bases and ornamental wall flanges are also available.





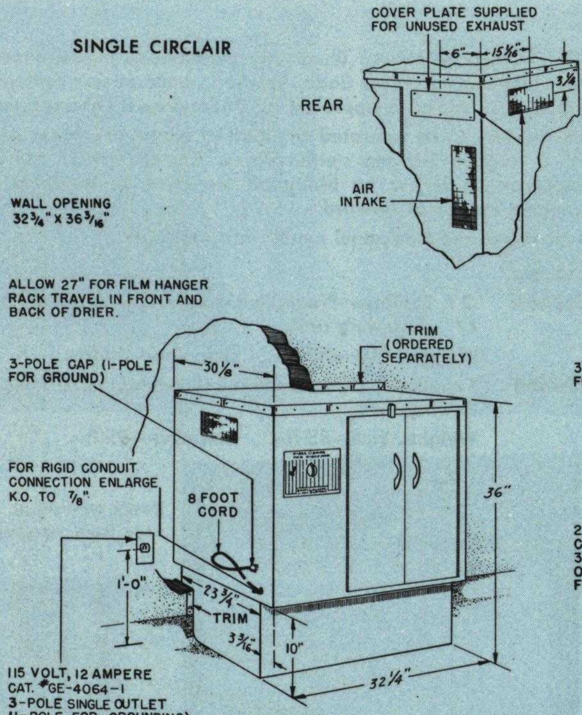
power service

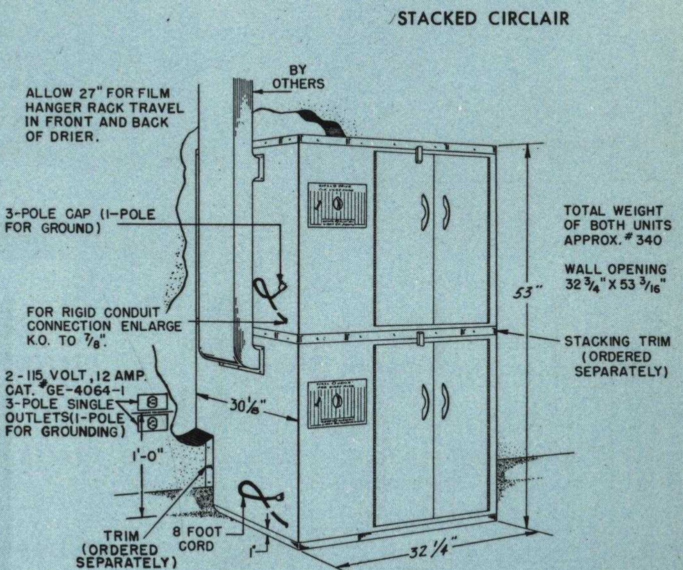
Supply 15-ampere 115-volt service for each drier to be installed. One or more convenience outlets will be adequate unless local codes require permanent installation with solid conduit.

venting

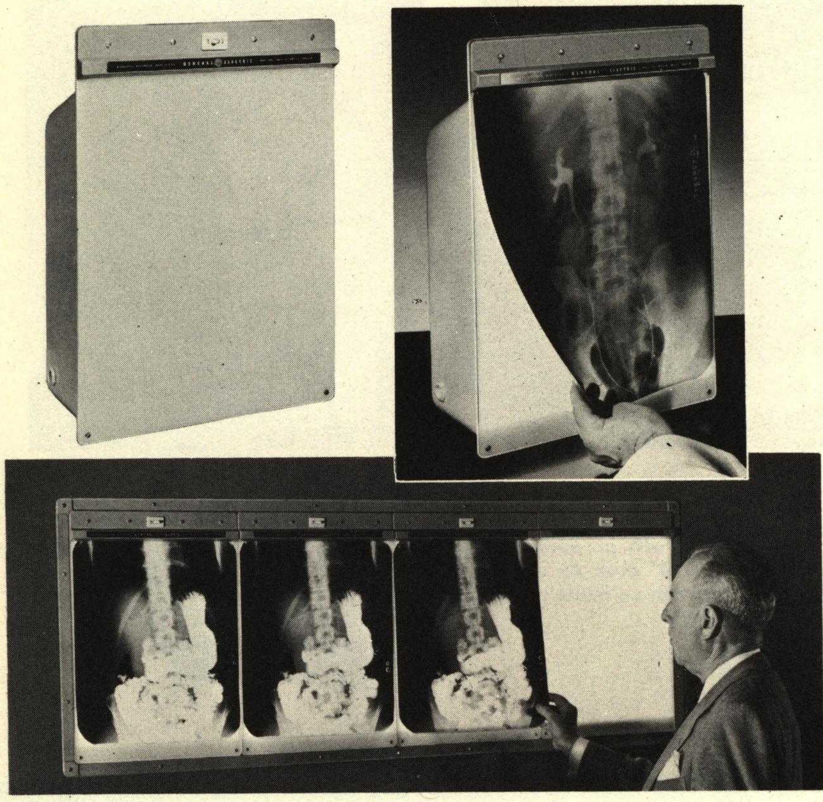
Film drier is equipped with an adapter to take standard 3¼" x 10" duct. Air circulation rate is 67½ cfm with an outlet velocity of 300 fpm at the vent.

Cat. No.	
E1077	Circlair Film Drier (state if high or low base is desired—low base is used when two driers are stacked; high base is used if only one drier is installed).


SINGLE CIRCLAIR
COVER PLATE SUPPLIED FOR UNUSED EXHAUST
6"
15⅙"
3¼
REAR
SIDE
AIR INTAKE
WALL OPENING 32¾" X 36³⁄₁₆"
ALLOW 27" FOR FILM HANGER RACK TRAVEL IN FRONT AND BACK OF DRIER.
TRIM (ORDERED SEPARATELY)
3-POLE CAP (I-POLE FOR GROUND)
30⅛"
FOR RIGID CONDUIT CONNECTION ENLARGE K.O. TO ⅞".
8 FOOT CORD
36"
1'-0"
23¾"
TRIM
3³⁄₁₆
10"
32¼"
115 VOLT, 12 AMPERE CAT. #GE-4064-1 3-POLE SINGLE OUTLET (I-POLE FOR GROUNDING)


STACKED CIRCLAIR
BY OTHERS
ALLOW 27" FOR FILM HANGER RACK TRAVEL IN FRONT AND BACK OF DRIER.
3-POLE CAP (I-POLE FOR GROUND)
TOTAL WEIGHT OF BOTH UNITS APPROX. # 340
WALL OPENING 32¾" X 53³⁄₁₆"
53"
FOR RIGID CONDUIT CONNECTION ENLARGE K.O. TO ⅞".
STACKING TRIM (ORDERED SEPARATELY)
2-115 VOLT, 12 AMP. CAT. #GE-4064-1 3-POLE SINGLE OUTLETS(I-POLE FOR GROUNDING)
30⅛"
1'-0"
TRIM (ORDERED SEPARATELY)
8 FOOT CORD
1"
32¼"

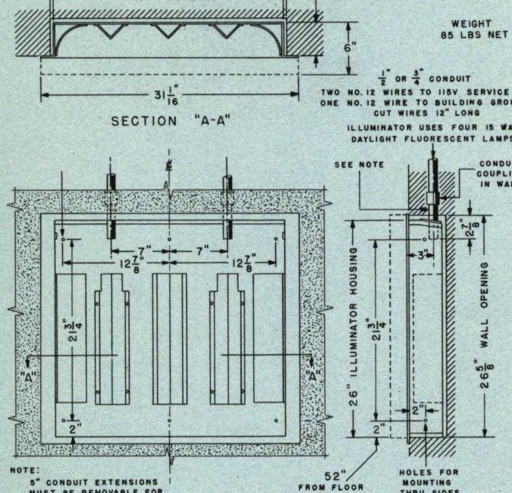
Truvision illuminator



Molded fiber glass construction makes this illuminator entirely corrosion-PROOF. In addition, the housing is much more shock-resistant than conventional metal shells. Brilliant, shadowless and evenly distributed lighting provides unparalleled radiographic illumination. Available in both single and multiple units, with toggle-switch, this illuminator can be recessed in a wall, or mounted on a desk or shelf, on a 45° angled wall bracket, or on a mobile stand. Underwriter's Laboratories approved. Ask for Pub. 7E-3803.

Cat. No.	
E5068	14" x 17" Truvision Illuminator; state whether illuminator will be wall-recessed.
E5070A	Kit for Multiple Mounting of E5068 Illuminators.
E5071A	Plastic trim strip, 72" long, for wall-recess mounting of E5068C and D illuminators.
E5071B	Plastic Trim Corners, set of four, for use with E5071A Trim Strip.
E5069A	Drip Tray Set.
E5075	Mobile Stand.
E5076	Wall Bracket.
E5078A	Roughing In Box.

Explosion-proof illuminators

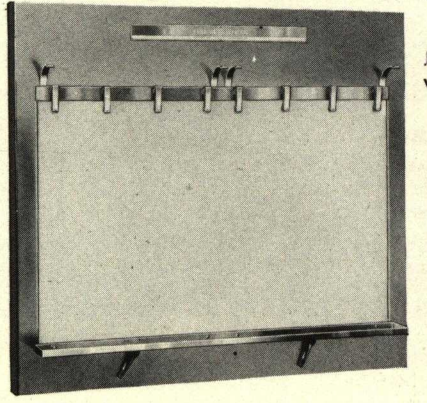

28 1/2" WALL OPENING
27 9/16" ILLUMINATOR HOUSING
4" ILLUMINATOR HOUSING
WEIGHT 85 LBS NET
6"
31 1/16"
SECTION "A-A"
1/2" OR 3/4" CONDUIT
TWO NO. 12 WIRES TO 115V SERVICE
ONE NO. 12 WIRE TO BUILDING GROUND
CUT WIRES 12" LONG
ILLUMINATOR USES FOUR 15 WATT DAYLIGHT FLUORESCENT LAMPS
SEE NOTE
CONDUIT COUPLING IN WALL
℄
7"
7"
12 7/8"
12 7/8"
21 3/4"
"A"
"A"
2"
26" ILLUMINATOR HOUSING
21 3/4"
2 7/8"
3"
WALL OPENING
26 5/8"
2"
2"
NOTE:
5" CONDUIT EXTENSIONS MUST BE REMOVABLE FOR INSTALLATION OF ILLUMINATOR HOUSING
52" FROM FLOOR (63" TO ℄ OF VIEWING SURFACE)
HOLES FOR MOUNTING THRU SIDES

The G-E Explosion-Proof Illuminator conforms to the requirements of Article 500, National Electrical Code, for use in atmospheres containing ethyl ether vapor, and has been approved by Underwriters' Laboratories.

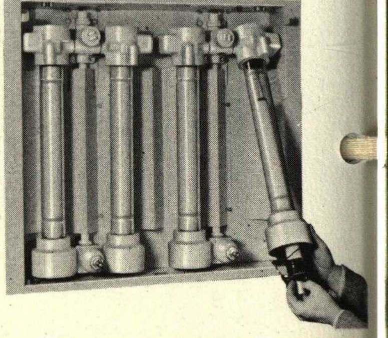
The switch can be operated by hand or elbow, the latter being convenient for a surgeon wearing sterile gloves. The illuminator can be opened for inspection or service by lifting off the front, un-snapping the catch and swinging the lamps forward.

Both single and twin-panel models are available.

Cat. No.	
E5046A	G-E Explosion-Proof Illuminator, 118-v., 60-cy., providing 14" x 17" of viewing area. Weights: Net—50 lbs. Shipping—60 lbs.
E5046B	Twin-Panel Explosion-Proof Illuminator, providing 28" x 17" of viewing area. Weights: Net—85 lbs. Shipping—95 lbs.



Easily serviced or inspected through wide front opening.



INSTALLATION OF ROUGHING-IN-BOX FOR ONE, TWO OR FOUR TRUVISION ILLUMINATORS

ROUGHING-IN-BOX (SERVES AS BUCK, NOT AN ELECTRICAL JUNCTION BOX)

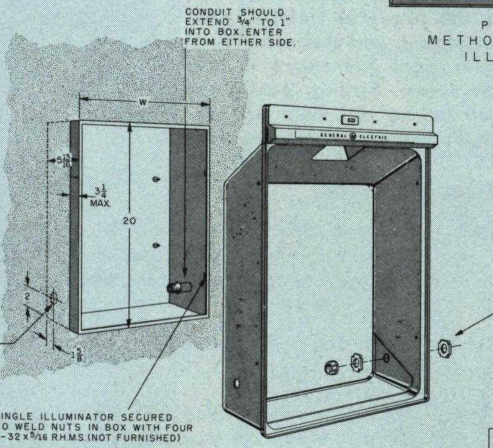
MUST BE FASTENED TO WALL: DRILL HOLES AS REQUIRED

MAY BE BUTTED TOGETHER FOR SIDE BY SIDE OR STACKED MOUNTING: ALIGN KNOCKOUT HOLES. DRILL TWO HOLES IN EACH SIDE, 3" FROM CORNERS AND 3" FROM BACK OF BOX. FASTEN WITH 1/4-20-3/8 RHMS, LOCKWASHERS AND NUTS.

BOX TO BE INSTALLED IN WALL TO OBTAIN MINIMUM PROJECTION FROM WALL. 3 1/4" MAXIMUM ALLOWABLE PROJECTION OF BOX FROM WALL.

ELECTRICAL RATING OF EACH ILLUMINATOR: 1 AMP, 115 V, 60 CY.

○— MI ELECTRICAL SYMBOL FOR TRUVISION ILLUMINATOR AS USED ON INSTALLATION PLANNING LAYOUT DRAWING.

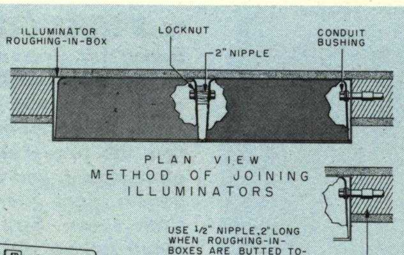


CONDUIT SHOULD EXTEND 3/4" TO 1" INTO BOX. ENTER FROM EITHER SIDE.

7/8" DIA. KNOCKOUTS ON BOTH SIDES FOR 1/2" CONDUIT.

SINGLE ILLUMINATOR SECURED TO WELD NUTS IN BOX WITH FOUR 6-32 x 5/16 R.H.M.S. (NOT FURNISHED)

BANK OF TWO OR FOUR, FASTEN ILLUMINATORS TO WELD SCREWS ON BACK OF BOX USING 6-32 NUTS. (NOT FURNISHED)



PLAN VIEW
METHOD OF JOINING ILLUMINATORS

USE 1/2" NIPPLE, 2" LONG WHEN ROUGHING-IN-BOXES ARE BUTTED TOGETHER. THE BOXES ARE NOT SECURED WITH LOCKNUTS, NIPPLE "FLOATS" THROUGH HOLES IN BOXES.

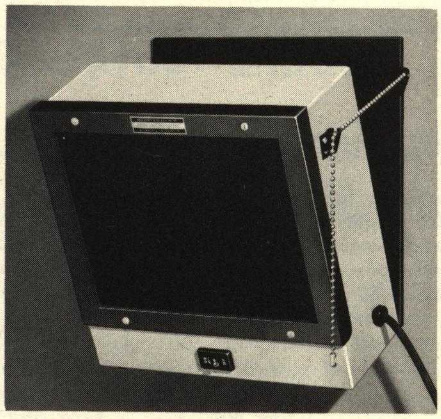
REMOVABLE CONDUIT COUPLING AND EXTENSION REQUIRED.

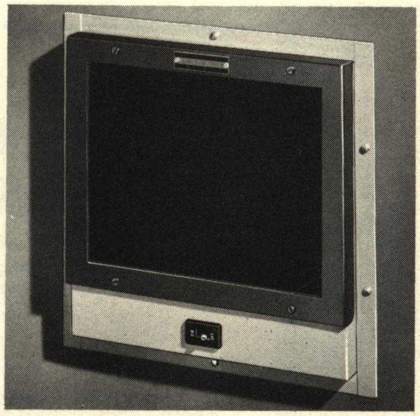
LOCKNUTS ON INSIDE AND OUTSIDE OF ILLUMINATOR CASE MUST BE TIGHT AGAINST GROUNDING PLATE AND CASE TO INSURE A GOOD GROUND.

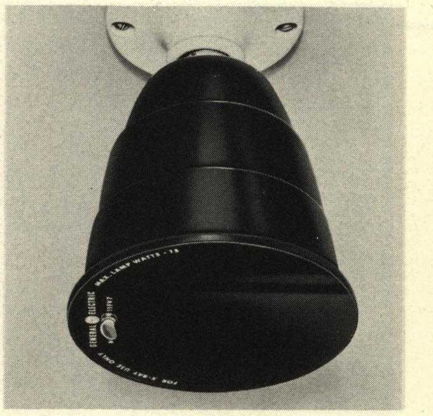
ILLUMINATOR ARRANGEMENT	OUTSIDE DIMENSIONS	
	WIDTH	HEIGHT
SINGLE	$14\frac{1}{4}$	20
BANK OF 2	$28\frac{1}{2}$	20
BANK OF 4	57	20
1 OVER 1	$14\frac{1}{4}$	40
2 OVER 2	$28\frac{1}{2}$	40
4 OVER 4	57	40

		HEIGHT OF RECESSED WALL OPENING ABOVE THE FLOOR	
		TO LOWER EDGE OF OPENING	TO CENTERLINE OF OPENING
SINGLE BANK	SEATED VIEWING	34	44
	STANDING VIEWING	54	64
DOUBLE BANK	SEATED OR STANDING VIEWING	34	54

5542-D32





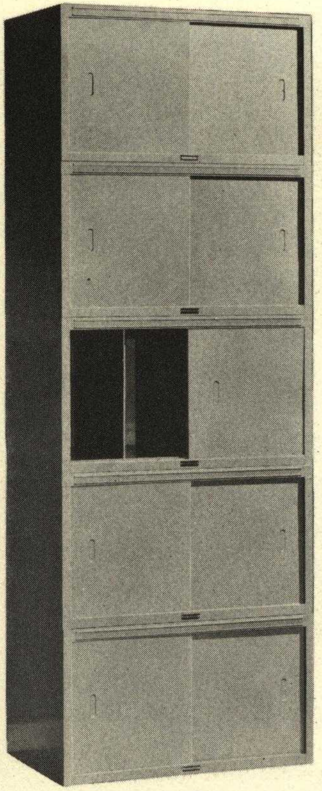


Safelights

General Electric provides a complete line of safelights for the processing room: a 5″ x 7″ adjustable safelight for wall or shelf-mounting; a 5″ x 7″, wall-mounted model, with a fixed-angle filter; an 8″ x 10″ safelight with an adjustable angle; an 8″ x 10″ combination safelight and viewer with adjustable angle. There is also a ceiling safelight which provides safe general illumination.

Cat. No.	
E1160A	5″ x 7″ Safelight, with bracket for wall or shelf mounting, 118-v., 7-watt lamp. Weights: Net—4½ lbs. Shipping—5 lbs.
E1160B	5″ x 7″ Safelight, wall-mounted, permanently angled filter, 118-v., 7-watt lamp. Weights: Net—4 lbs. Shipping—6 lbs.
E1161A	8″ x 10″ Safelight, adjustable, 118-v., two 7-watt lamps. Weights: Net—7½ lbs. Shipping—9½ lbs.
E1161B	8″ x 10″ Safelight, combination safelight and illuminator, adjustable; 118-v., three 7-watt lamps. Weights: Net—9 lbs. Shipping—11 lbs.
E1161C	8″ x 10″ Safelight, with flange for in-the-wall mounting; 118-v., two 7-watt lamps. Weights: Net—7 lbs. Shipping—9 lbs.
E1160C	Ceiling Safelight, for fluoroscopic or processing room; 118-v., 15-watt lamp. Weights: Net—½ lb. Shipping—1 lb.

Sectional space-savers



These unitized cabinets permit buying for present needs only, with the possibility of adding matching cabinets as filing needs increase. The modular construction also provides flexibility of arrangement, and shelf-type filing permits more file space in less floor space. Strong, easily inserted locking pins keep cabinets from slipping or sliding, when stacked.

Cat. No.	
E2025	Sectional Space-Saver X-Ray Film Filing Cabinet (state number desired and if gray or olive green finish is desired).
Weights:	Single unit—Net—46 lbs. Shipping—60 lbs. Single unit when filled with 800 films in negative preservers—190 lbs.

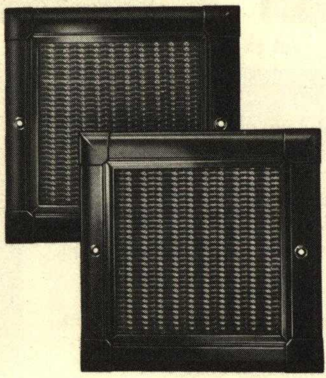
Dimensions:

17⅞″ high
31⅜″ wide
14⅜″ deep

Various arrangements made possible by locking units together.

Lightproof speaking grille

Communication between rooms is facilitated by this small, lightproof, black metal, two-piece grille. It eliminates many trips into the darkroom and thereby cuts down work interruptions. Where pass boxes, pass tanks or wet film hanger pass boxes are used it is of particular value for conveying information concerning films to be passed back and forth.

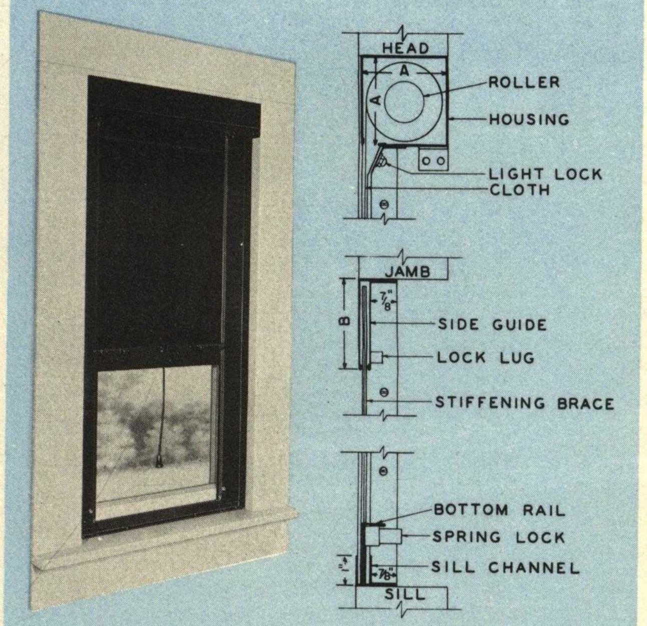


Cat. No.	
E1167A	Lightproof Speaking Grille
Weight:	Net—3 lbs. Shipping—4 lbs.

Dimensions:

7⅞″ square

RECESS-MOUNTED SHADE



"A" HOUSING DIMENSIONS		
HOUSING	WIDTH	HEIGHT
2½	UP TO 72	UP TO 60
3	96	60
3	60	96
3½	96	96
4	60	144
4½	96	144

"B" GUIDE DEPTH	
DEPTH	WIDTH
3	UP TO 48
4	66
5	OVER 66

NOTE: ALL DIMENSIONS SHOWN ARE IN INCHES

Lightproof shades

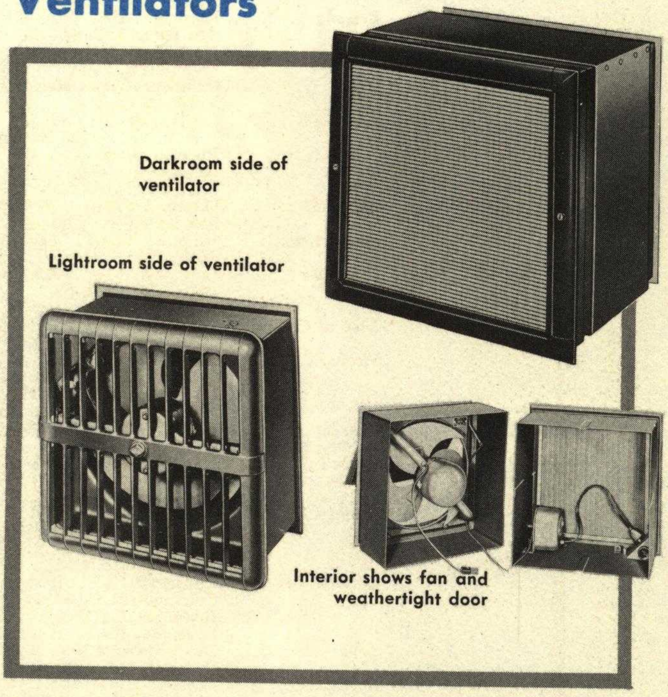
Lightproof shades are ideal for shutting out all outside light. They can be used in a fluoroscopic room, in an operating room or lecture halls to maintain controlled, identical lighting conditions at all times.

The shades are double-coated vinyl leatherette, with a flameproof coating on both sides which is permanent, water-repellent, crack-proof and pliable. The standard shades are black on both sides, but shades having one side black and the other with an aluminum-like coating are available at slightly higher cost. This coating, which would face the outside of the building, reflects light and sun and diminishes the heat build-up in the rooms being light-proofed.

The shades are mounted on an all-metal frame which fits *into* or over your present window frame. Its roller housing is steel, and there are roller bearings at each end. Music-wire coil springs control the heavy shade and retain their tension far better than other types of springs.

Available recess-mounted or face-mounted, in standard widths from 30" to 120"; lengths from 36" to 144" and in special sizes.

Ventilators


Darkroom side of ventilator

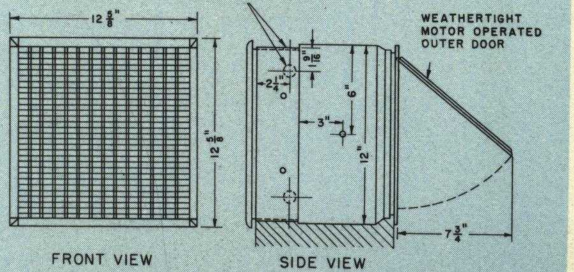
Lightroom side of ventilator

Interior shows fan and weathertight door

Capable of changing the air in a 10 x 10 x 10 foot room every four minutes, the two models of this fan both feature adjustable housings. The model for installation in an outside wall has a motor-operated, weather-tight door on the outside, operated simultaneously with the ventilator's motor. This unit can be adjusted to wall thicknesses of from 9½" to 14". The ventilator designed for installation in an inside partition or ceiling has a grille on the lightroom side, and the housing is adjustable from 6¼" to 8½". Both models have a lightproof grille on the darkroom side.

Cat. No.	
E1145A	260 CFM Electric Lightproof Ventilator, 115-v., 60 cy.; for outside wall installation. Weights: Net—57 lbs. Shipping—62 lbs.
E1145B	260 CFM Electric Lightproof Ventilator, 115-v., 60-cy.; for inside wall or partition installation, or ceiling installation. Weights: Net—50 lbs. Shipping—55 lbs.

4-$\frac{7}{8}$" DIA. K.O.'S, ONE K.O. TOP & BOTTOM, 2 K.O.'S ON LEFT SIDE. BRING A $\frac{1}{2}$" CONDUIT FROM SUITABLY LOCATED S.P.S.T. SW. TO ONE OF THESE K.O.'S.



lightproof ventilator

- General Electric services for planning the ideal x-ray department are conveniently available through all local offices throughout the United States and Canada.

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General Office and Factory, 4855 Electric Ave., Milwaukee 1, Wis.

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Alabama	Birmingham 5, Ala.	707-21 St. So.
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	Oklahoma City, Okla.	4030 N.W. 10th St.
	Tulsa 19, Okla.	1101 So. Main St.
California	Los Angeles 29, Calif.	1225 North Vermont Ave.
	Phoenix, Ariz.	821 W. Adams St.
	San Diego 1, Calif.	521 Grape St.
	San Francisco 3, Calif.	1269 Howard St.
Colorado	Denver 5, Colo.	3031 E. 40th Avenue
	Salt Lake City, Utah	215 South 4th East
Connecticut	Hartford, Conn.	528 Farmington Ave.
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Delaware	Baltimore, Md.	3012 Greenmount Ave.
	Philadelphia 32, Pa.	Hunting Park Avenue at Ridge
Dist. of Columbia	Washington, D.C.	8710 Georgia Ave., N.W., Silver Spring, Md.
Florida	Birmingham 5, Ala.	707-21 St. So.
	Jacksonville, Fla.	210 West 8th St.
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	Tampa, Fla.	1009 W. Platt St.
Georgia	Atlanta 9, Ga.	1383 Spring St., N.W.
	Jacksonville, Fla.	210 West 8th St.
Hawaii	Honolulu, Hawaii	Fort and Queen Sts.
Idaho	Salt Lake City, Utah	215 South 4th East
	Spokane, Wash.	N. 1112 Washington St.
Illinois	Chicago 7, Ill.	1061 W. Jackson Blvd.
	Des Moines 12, Iowa	2211 W. Grand Ave.
	Springfield, Ill.	917 E. Adams St.
	St. Louis, Mo.	2010 Olive Street
Indiana	Chicago 7, Ill.	1061 W. Jackson Blvd.
	Cincinnati 25, O.	3056 W. McMicken Ave.
	Indianapolis 7, Ind.	1845 W. 18th St.
	Louisville, Ky.	501 W. Oak St.
Iowa	Des Moines 12, Iowa	2211 W. Grand Ave.
	Omaha 2, Neb.	1617 Dodge St.
Kansas	Kansas City 11, Mo.	706 Westport Rd.
Kentucky	Cincinnati 25, O.	3056 W. McMicken Ave.
	Louisville, Ky.	501 W. Oak St.
Louisiana	New Orleans 25, La.	7715 Edinburgh St.
	Shreveport, La.	1511-13 Line Ave.
Maine	Boston 35, Mass.	1256 Soldiers Field Rd.
Maryland	Baltimore, Md.	3012 Greenmount Ave.
	Philadelphia 32, Pa.	Hunting Park Avenue at Ridge
	Pittsburgh 6, Pa.	231 S. Euclid Ave.
	Washington, D.C.	8710 Georgia Ave., N.W., Silver Spring, Md.
Massachusetts	Boston 35, Mass.	1256 Soldiers Field Rd.
	Worcester, Mass.	163 Mechanic St.
Michigan	Detroit 19, Mich.	18801 West 7 Mile Rd.
	Duluth 1, Minn.	928 East 2nd St.
	Milwaukee 3, Wis.	547 N. 16th St.
Minnesota	Duluth 1, Minn.	928 East 2nd St.
	Minneapolis 2, Minn.	808 Nicollet Ave.
Mississippi	Memphis 3, Tenn.	778 Madison Ave.
	New Orleans 25, La.	7715 Edinburgh St.
Missouri	Kansas City 11, Mo.	706 Westport Rd.
	Memphis 3, Tenn.	778 Madison Ave.
	St. Louis, Mo.	2010 Olive Street
Montana	Butte, Mont.	103 No. Wyoming St.
	Spokane, Wash.	N. 1112 Washington St.
Nebraska	Denver 5, Colo.	3031 E. 40th Avenue
	Des Moines 12, Iowa	2211 W. Grand Ave.
	Omaha 2, Neb.	1617 Dodge St.
Nevada	Los Angeles 29, Calif.	1225 North Vermont Ave.
	Salt Lake City, Utah	215 South 4th East
	San Francisco 3, Calif.	1269 Howard St.
New Hampshire	Boston 35, Mass.	1256 Soldiers Field Rd.
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	New York 17, N. Y.	205 E. 42nd St.
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	East Syracuse, N. Y.	1937 Teall Ave.
North Carolina	Charlotte 4, N. C.	1140 Elizabeth Ave.
	Norfolk, Va.	218 Flatiron Bldg.
	Richmond 30, Va.	3425 West Leigh St.
North Dakota	Minneapolis 2, Minn.	808 Nicollet Ave.
Ohio	Cincinnati 25, O.	3056 W. McMicken Ave.
	Cleveland, Ohio	3829 Carnegie Ave.
	Columbus 12, Ohio	1373 Grandview Ave.
	Indianapolis 7, Ind.	1845 W. 18th St.
	Pittsburgh 6, Pa.	231 S. Euclid Ave.
	Toledo 4, Ohio	520 Broadway
Oklahoma	Oklahoma City 7, Okla.,	4030 N.W. 10th St.
	Tulsa, Okla.	1101 So. Main St.
Oregon	Portland 10, Ore.	522 N.W. 23rd Ave.
	Salt Lake City, Utah	215 South 4th East
Pennsylvania	Buffalo 13, N. Y.	960 Busti Ave.
	Philadelphia 32, Pa.	Hunting Park Avenue at Ridge
	Pittsburgh 6, Pa.	231 S. Euclid Ave.
	Rochester 7, N. Y.	75 College Ave.
Rhode Island	Providence 9, R. I.	241 Harris Avenue
South Carolina	Charlotte 4, N. C.	1140 Elizabeth Ave.
South Dakota	Des Moines 12, Iowa	2211 W. Grand Ave.
	Minneapolis 2, Minn.	808 Nicollet Ave.
Tennessee	Chattanooga 3, Tenn.	507 E. 8th Street
	Memphis 3, Tenn.	778 Madison Ave.
Texas	Dallas, Texas	1616 Oak Lawn Ave.
	Houston 1, Texas	1830 Westheimer Rd.
	Memphis 3, Tenn.	778 Madison Ave.
	San Antonio 12, Texas	101 N. McCullough Ave.
Utah	Salt Lake City, Utah	215 South 4th East
Vermont	Boston 35, Mass.	1256 Soldiers Field Rd.
	Springfield 3, Mass.	365 Belmont Ave.
Virginia	Baltimore, Md.	3012 Greenmount Ave.
	Norfolk, Va.	218 Flatiron Bldg.
	Richmond 30, Va.	3425 West Leigh St.
	Roanoke, Va.	515 Norfolk Ave., S.W.
	Washington, D.C.	8710 Georgia Ave., N.W., Silver Spring, Md.
Washington	Portland 10, Ore.	522 N.W. 23rd Ave.
	Seattle 9, Wash.	217-8th Ave., N.
	Spokane, Wash.	N. 1112 Washington St.
West Virginia	Baltimore 18, Md.	3012 Greenmount Ave.
	Charleston, W. Va.	5616 MacCorkle Ave., S.E.
	Pittsburgh 6, Pa.	231 S. Euclid Ave.
	Richmond 30, Va.	3425 West Leigh St.
Wisconsin	Duluth 1, Minn.	928 East Second St.
	Milwaukee 3, Wis.	547 N. 16th St.
	Minneapolis 2, Minn.	808 Nicollet Ave.
Wyoming	Denver 5, Colo.	3031 E. 40th Avenue
	Salt Lake City, Utah	215 South 4th East
Alaska	Seattle 9, Wash.	217-8th Ave., N.

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Pub. 13-3801B
Printed in U. S. A.

GENEVA STEEL CASEWORK FOR HOSPITALS

Geneva...

outstanding for quality construction, appearance, flexibility of materials and installation.

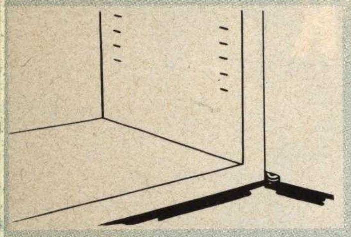
Geneva

HOSPITAL CASEWORK

Division of Acme Steel Co.
GENEVA, ILLINOIS

GENEVA BUILDS IN QUALITY

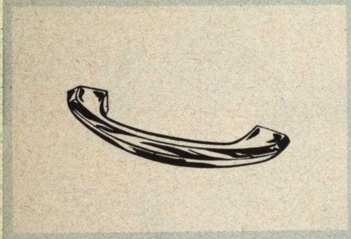
Quality is more than just a word at Geneva. Through the years, Geneva has built its reputation in the steel casework field on unexcelled quality. Only the finest materials are used in manufacture and close inspection and quality control are a fetish at Geneva. The Geneva name on institutional casework is a mark of quality that s respected by architects and administrators alike.



1—FLUSH INTERIOR

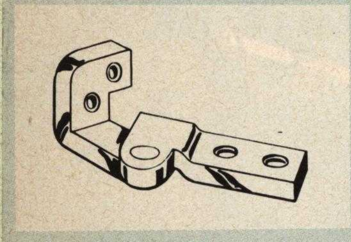
Geneva introduces a whole new concept in steel hospital casework with its new "flush interior" cabinets. Look at these advantages flush interiors have over standard hospital casework.

1. Ease of cleaning
2. Far more sanitary
3. Reduced maintenance
4. Better visibility
5. Easier accessibility
6. Facilitates sanitary inspection



2—HANDLES

Attractive pulls are made of die cast metal, have satin chrome finish. Handles have ample room for finger space and are of clean, simple design so they cannot collect dirt or grime.

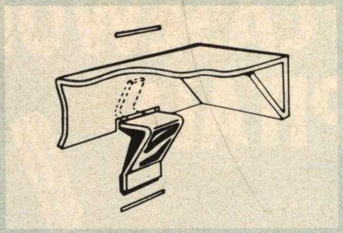


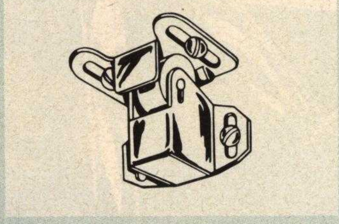
3—HINGE

Strong hinges are semi-concealed, two knuckle, heavy duty institutional type. They are made of .140 steel and have durable satin chrome finish. Hinges are located at top and bottom corners of doors for neater appearance and maximum strength. Doors over 36" high are fitted with center stiffening hinge of same type.

4—ADJUSTABLE SHELVES

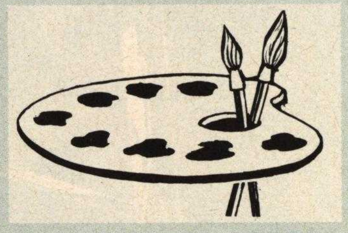
All Geneva shelves are adjustable on 1" centers. This gives flexibility where it is needed, allows storage of any size item. Shelves are formed of 18 gauge mild steel or stainless steel as specified. A 45° return flange on front and back gives extra strengh and rigidity, supports extremely heavy loads. Shelf is designed for sanitation and easy sterilization.





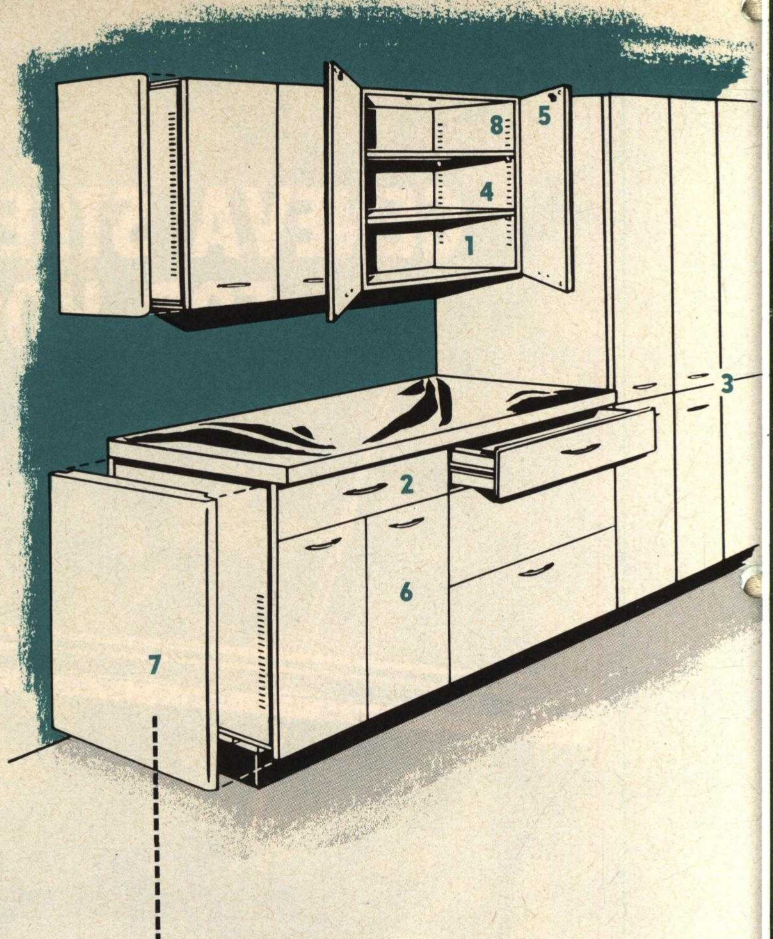
5—ROLLER CATCH

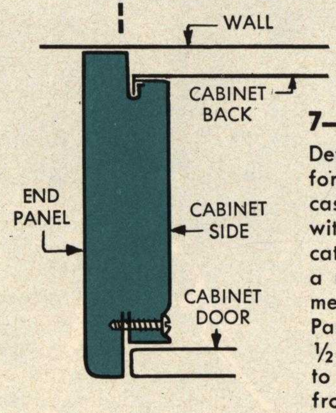
Spring loaded nylon roller type catch assures positive closure of all doors. Nylon rollers engage metal strike, operate quietly, efficiently. Tests prove they will last indefinitely, give years of trouble-free service. Catch is adjustable so that proper tension can always be maintained.



6—CHOICE OF COLOR

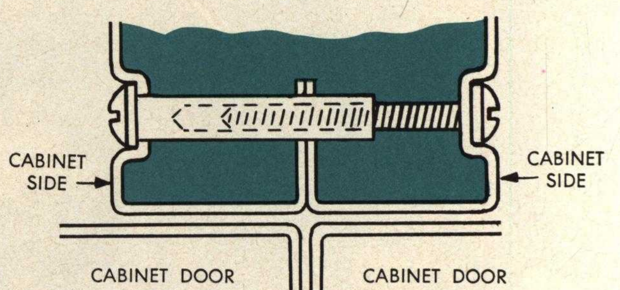
Modern hospitals no longer adhere to the old theory that all casework should be finished in sterile white. Just as in today's laboratories and schools, hospitals are using color to add comfort and eye appeal, particularly in patient rooms, nurse stations, diet kitchens, snack bars, etc. Geneva offers a wide selection of easy-to-live-with colors that will blend beautifully with most any decorating scheme. Colors are soft, muted pastel shades that can be used in combination if desired. Colors available include gray, white, green, blue, pink, yellow, turquoise, and sandalwood.





7—RADIUS END PANELS

Detachable end panels are provided for finishing off all exposed sides of casework. The panels are furnished with radius front edge and are fabricated for rigid attachment to produce a neat and attractive end to compliment the appearance of the fronts. Panels are fully sound deadened with ½" thick insulating material similar to that used on door and drawer fronts.



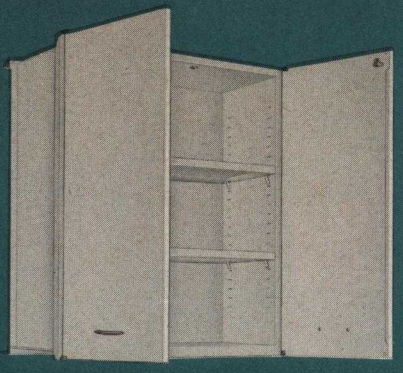
8—RECESSED BODY BOLTS

Sketch above shows Geneva's unique method of bolting cabinets together. Flush interior construction allows elimination of standard method of tying units together with nuts and bolts. Instead, binding screw heads are fully recessed into cabinet sides to maintain flush side free of protruding nuts and screws. This makes cleaning safe and easy.

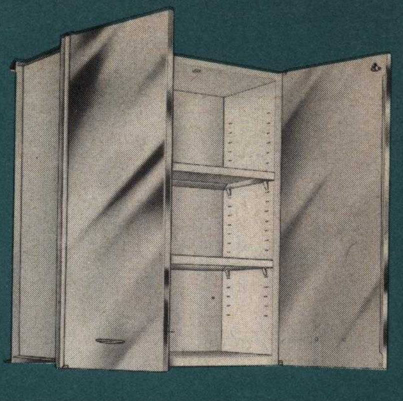
GENEVA'S FLEXIBILITY OF MATERIALS

Geneva's advanced style of cabinet construction adds great flexibility to use of materials as well as cabinet arrangements. The recessed mullion construction makes it practical to combine stainless steel with mild painted steel in any way desired. For example, casework can have the advantage of stainless steel on all exposed parts and still use the economy of mild steel for cabinet bodies. Geneva's versatility of tooling and fabrication allows further economy in the combination of stainless steel door and drawer fronts with mild steel liners. Advanced styling permits Geneva to produce complete casework in stainless steel for those who require it. All welding is done outside of the visible cabinet areas so no pitting, discoloration or welding marks are ever seen.

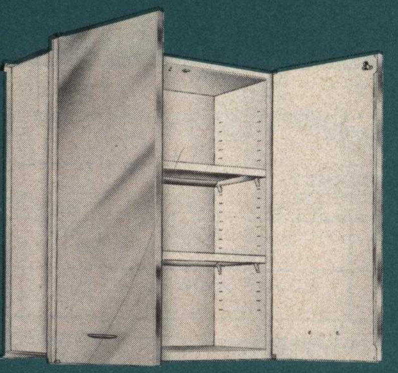
Advantage of this flexibility in materials is readily apparent because of the great savings involved.



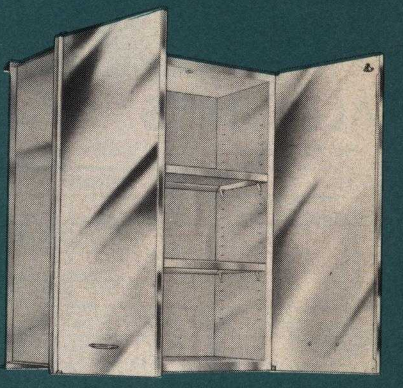
ALL MILD STEEL



STAINLESS DOOR FACE AND LINING



STAINLESS DOOR FACE



ALL STAINLESS STEEL

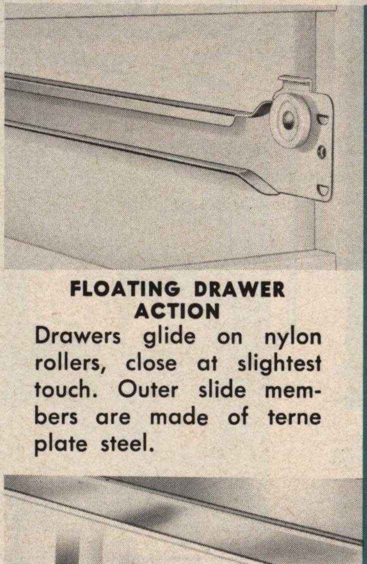
Geneva CASEWORK CONSTRUCTION FEATURES

Geneva's team of hospital casework engineers have designed the line shown in this booklet to meet the exacting needs of the modern hospital. Latest construction methods have been incorporated, many are exclusive with Geneva. Convenience, versatility, and complete sanitation have been foremost in the designer's minds.

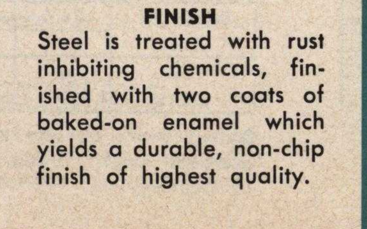
Precision engineering is the byword. Take the Geneva drawer action for example. Rust proof terne plate steel is formed into an interlocking type slide. Drawers operate on four suspended nylon rollers, close at a touch even when loaded to capacity. Drawers of same size are interchangeable.

Geneva's method of door construction is unique in the industry. Only Geneva paints doors and drawers inside and out. Full thickness sound deadener is then inserted and actually laminated to door front and liner. Result is a completely sound deadened door that is a dense integral unit that cannot be racked or bent.

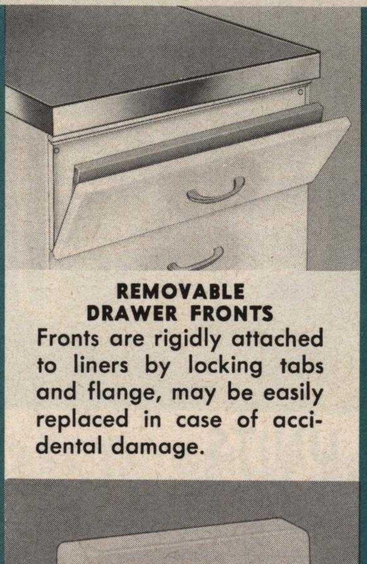
Much attention has been given the finish of these units. Steel is first cleansed and etched with chemicals to allow perfect grip for the prime coat of rust inhibiting enamel. After this is baked on, the final gloss coat of synthetic enamel is applied and baked on. This type finish withstands the most rugged tests. Stainless steel cabinets have a #4 ground finish.



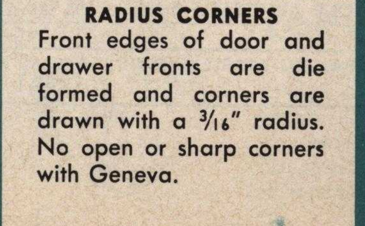
FLOATING DRAWER ACTION
Drawers glide on nylon rollers, close at slightest touch. Outer slide members are made of terne plate steel.



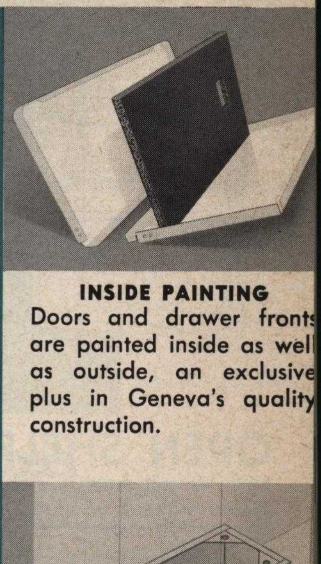
FINISH
Steel is treated with rust inhibiting chemicals, finished with two coats of baked-on enamel which yields a durable, non-chip finish of highest quality.



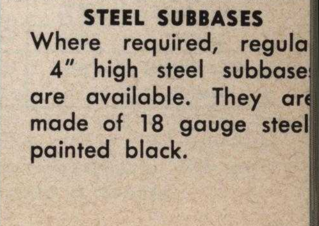
REMOVABLE DRAWER FRONTS
Fronts are rigidly attached to liners by locking tabs and flange, may be easily replaced in case of accidental damage.



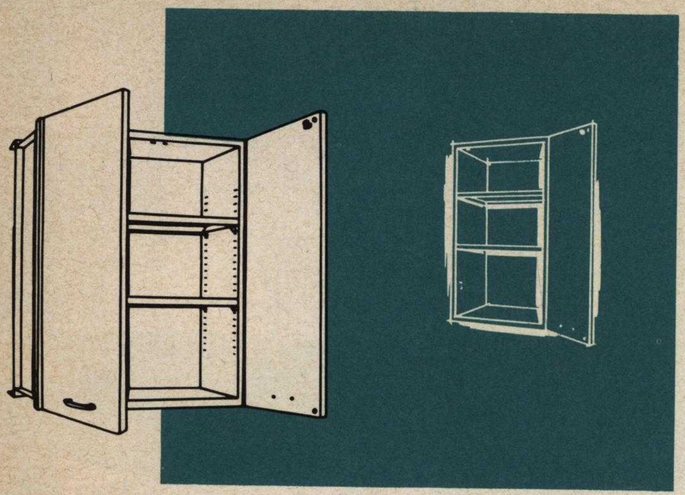
RADIUS CORNERS
Front edges of door and drawer fronts are die formed and corners are drawn with a 3/16" radius. No open or sharp corners with Geneva.



INSIDE PAINTING
Doors and drawer fronts are painted inside as wel as outside, an exclusive plus in Geneva's quality construction.



STEEL SUBBASES
Where required, regula 4" high steel subbase are available. They ar made of 18 gauge steel painted black.

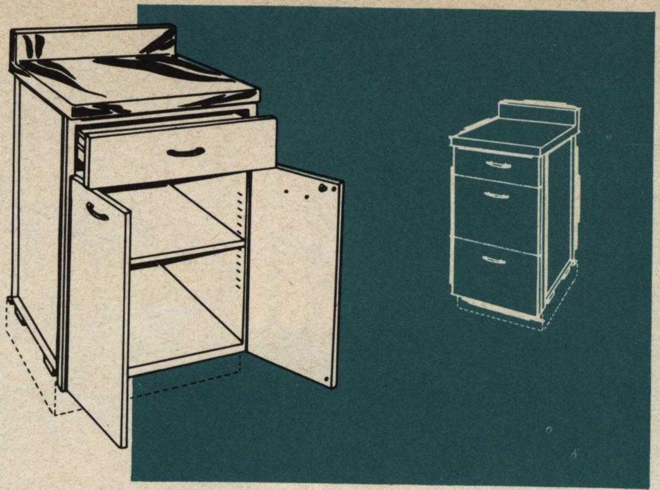


WALL UNITS

—Are available in various sizes and styles as shown in chart below.

WIDTH	HEIGHT						DEPTH
	18	24	30	36	42	48	13-18
15		SINGLE DOOR UNITS					13-18
18			"	"	"		13-18
24			"	"	"		13-18
30	DOUBLE DOOR & SLIDING DOOR UNITS						13-18
36	"	"		"	"	"	13-18
42	"	"		"	"	"	13-18
48	"	"		"	"	"	13-18
No. of Shelves*	1	1	2	3	3	3	

*Adjustable steel shelves—(Glass shelves optional). Single door units available as R. or L. hand. All units above available with glass doors.

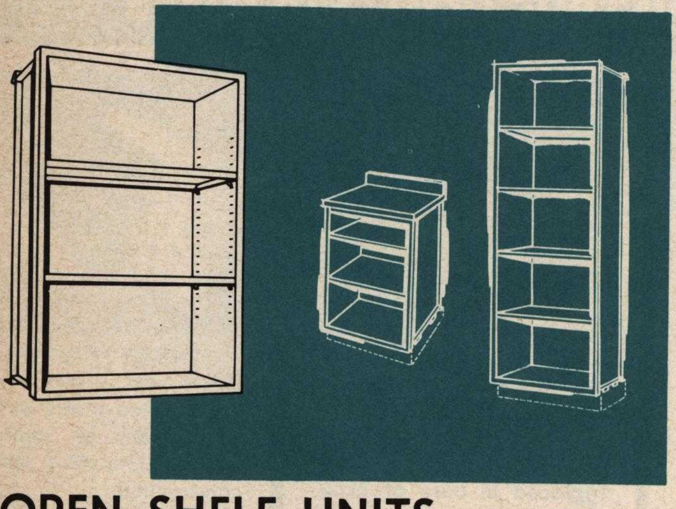


BASE UNITS

—Counter tops or subbases not included on models listed below.

	WIDTHS								
	15	18	24	30	36‡	42‡	48‡	**DEPTH**	**HEIGHT**
CUPBOARD* AND DRAWER	SINGLE DOOR UNITS			DOUBLE DOOR UNITS				24½	30½
ALL* CUPBOARD	SINGLE DOOR UNITS			DOUBLE DOOR UNITS				24½	30½-24½
ALL DRAWER	3, 4 OR 5 DRAWER UNITS							24½	30½
ALL DRAWER	2, 3, OR 4 DRAWER UNITS							24½	24½

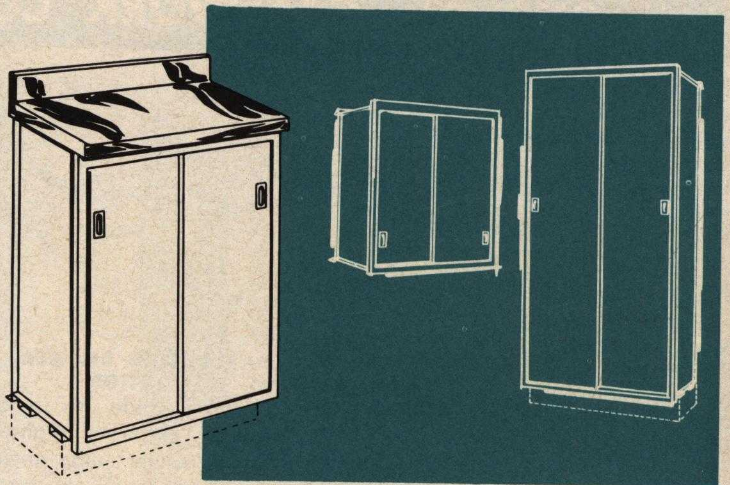
*One adjustable steel shelf. ‡Side by side double drawer units. Example: A 42″ wide cabinet would have two 21″ wide drawers side by side.



OPEN SHELF UNITS

—Available in wall, base, or tall units in sizes listed below. Base and tall units furnished without subbases.

		WIDTH							
	HEIGHT	15	18	24	30	36	42	48	**DEPTH**
WALL TYPE UNITS	18	ONE ADJUSTABLE SHELF							13-18
	24		"		"		"		13-18
	30	TWO ADJUSTABLE SHELVES							13-18
	36	THREE ADJUSTABLE SHELVES							13-18
	42		"		"		"		13-18
	48		"		"		"		13-18
BASE TYPE UNITS	24½	ONE ADJUSTABLE SHELF							24½
	30½		"		"		"		24½
FULL HEIGHT UNITS	80	FIVE ADJUSTABLE SHELVES							13-18 24½

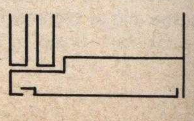


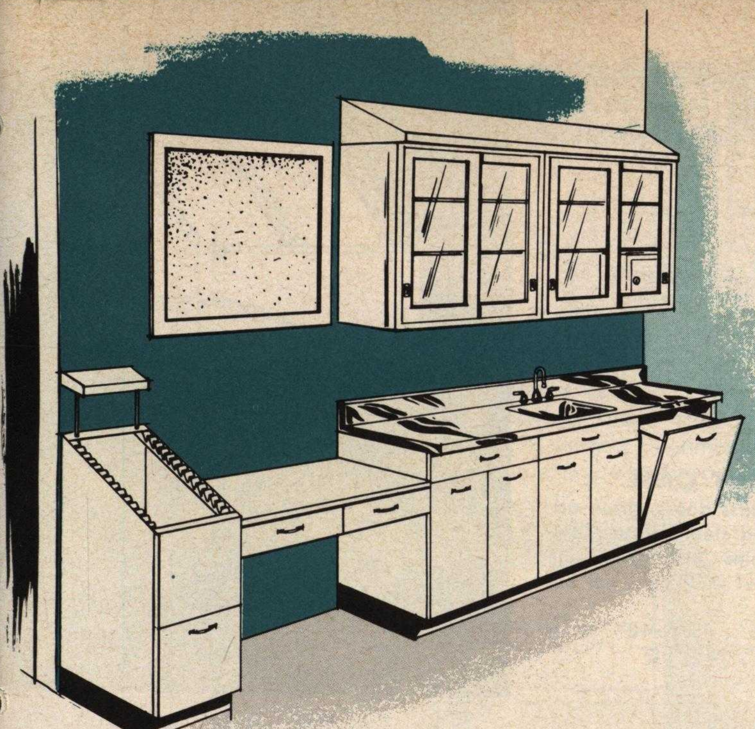
SLIDING DOOR UNITS

—Available in wall, base or tall units in sizes listed below. Base and tall units furnished without subbases, counter tops not included.

		WIDTH				
	HEIGHT	30	36	42	48	**DEPTH**
WALL TYPE UNITS	18	ONE ADJUSTABLE SHELF				13-18
	24	"	"		"	13-18
	30	TWO ADJUSTABLE SHELVES				13-18
	36	THREE ADJUSTABLE SHELVES				13-18
	42	"	"		"	13-18
	48	"	"		"	13-18
BASE TYPE UNITS	24½	ONE ADJUSTABLE SHELF				24½
	30½	"	"		"	24½
TALL UNITS	80	FIVE ADJUSTABLE SHELVES				13-18 24½

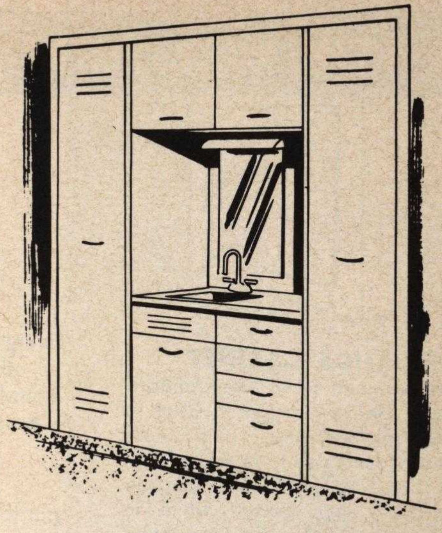
Sliding doors operate on nylon rollers from overhead track, leaving bottom clear for ease of cleaning.



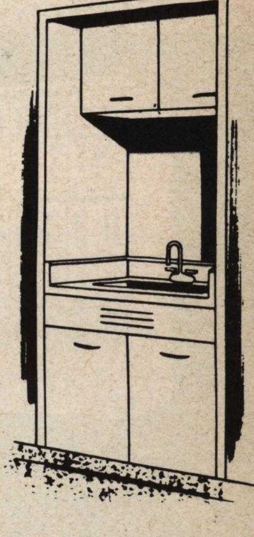


NURSES STATIONS

Great flexibility of the Geneva line allows any type of nurses station—large or small. Various types of arrangements can be planned to fit any budget. Illustration above shows a typical nurses station utilizing Geneva hospital casework to produce a compact work and nursing service area. It includes medicine sink in a stainless steel counter, gooseneck faucet, locked wall cabinet with inner locked narcotics case which is provided with door operated switch and warning light. Base section has stainless steel insulated ice bin, nurses desk with drawers, storage cabinets and chart rack. Bulletin board is handy to desk.



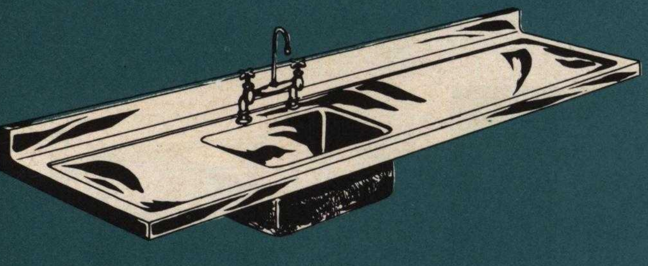
PATIENT ROOM WARDROBES



A great variety of wardrobe and dresser drawer units can be used in combination to produce any type of patient wardrobe necessary. Lavatories and mirrors are available as desired.

Units may be adapted to any room design. They may be built-in or used as free standing units. Installation is quick, easy.

SINK MATERIALS



STAINLESS STEEL

Sink tops will be furnished as specified. Entire deck surface and splashes are formed of one sheet with bowls welded in. Underside of sinks are reinforced with steel channels and are fully sound deadened.

SOAPSTONE, COLORLITH

Laboratory grades of chemically resistant soapstone or asbestos cement tops are furnished in 1 1/4" thickness. Bowls of like material to be fabricated and installed to top in acceptable manner as produced by a recognized fabricator.

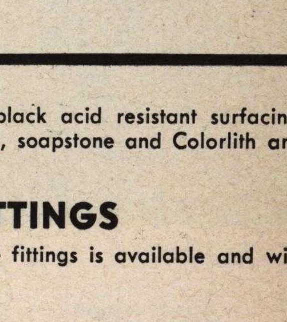
COUNTER TOP MATERIALS

Tops of high-pressure laminated plastic material on exterior grade plywood core with stainless steel edging or self edging are 1 1/2" thick. May be furnished with bowls as specified. Tempered pressed wood laminations are furnished with black acid resistant surfacing on all exposed surfaces. Stainless steel, soapstone and Colorlith are also available for counters.

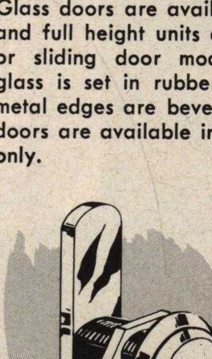
SERVICE FITTINGS

A complete line of high quality service fittings is available and will be furnished as specified.

GLASS OR GRILLE DOORS

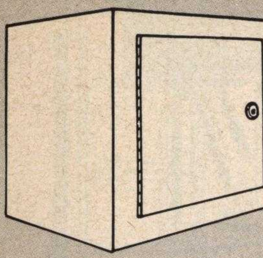


Glass doors are available on all wall and full height units either on hinged or sliding door models. 1/4" plate glass is set in rubber glazing strips, metal edges are beveled. Metal grille doors are available in enameled steel only.



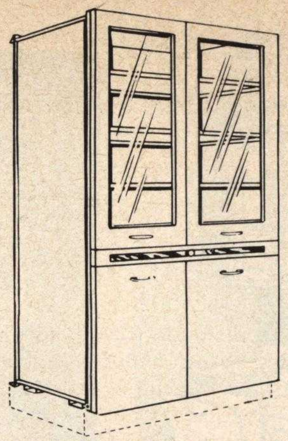
LOCKS

Lock shown is used for drawers and hinged doors. Special locks for sliding doors. Knob locks are available for two point door latching. All locks may be keyed interchangeably, differently or master keyed as directed.



NARCOTICS CABINET

This unit is designed to fit into standard wall cabinet. Heavy, laminated door is set flush into cabinet frame and is mounted with continuous hinge to minimize possibility of breaking in. Key cannot be withdrawn from lock except while in locked position. Warning light actuating switch and locking device furnished as specified.
15" W x 12" H x 11" D



INSTRUMENT CASE

Upper section has glass doors, three adjustable shelves, fixed steel bottom. Lower cupboard contains one adjustable shelf. A stainless steel shelf pulls out between sections.
18", 24", 30", 36", 42", 48" W x 80" H x 13", 18", 24½" D

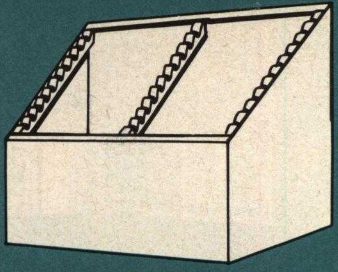
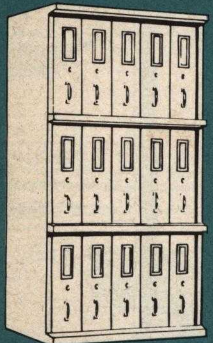


CHART RACK UNIT

Cast aluminum chart holders are designed to fit into cutout in counter for easy accessibility. Furnished in sizes shown.

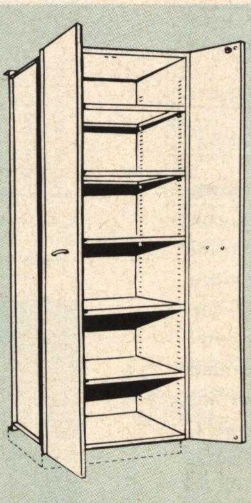
Capacity	Width	Height	Depth
10	11"	26½"	13"
20	21½"	26½"	13"
30	32"	26½"	13"



PHARMACY UNITS

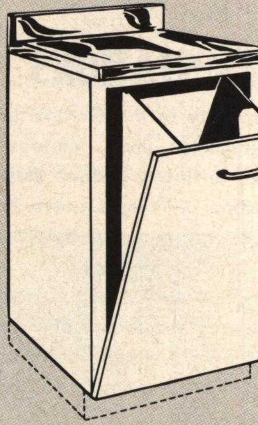
Typical Schwartz sectionalized pharmacy units are furnished in natural birch or white enamel.

No. Drawers	Width	Height	Depth
5	24"	15¾"	18"
10	24"	30½"	18"
15	24"	45¼"	18"



TALL STORAGE UNITS

Heavily sound deadened full height doors open to large cupboard which contains five adjustable solid steel shelves. Suitable for any type of general storage.
18", 24", 30", 36", 42", 48" W x 80" H x 13", 18", 24½" D



ICE BINS

Undercounter type tilting bins have stainless steel exposed parts, galvanized interiors. Center drain. Bins are fully insulated. 18" width has 100 lb. capacity, 24" width 150 lb. capacity.

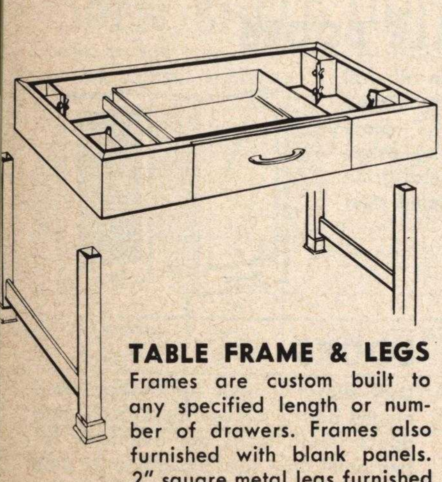
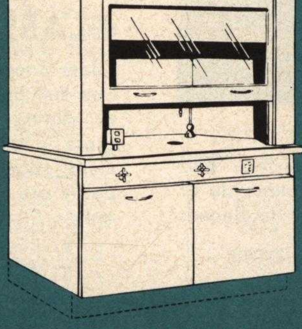


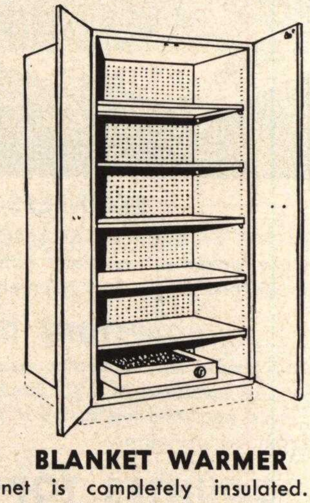
TABLE FRAME & LEGS

Frames are custom built to any specified length or number of drawers. Frames also furnished with blank panels. 2" square metal legs furnished where leg supports are required. Legs have adjusting screws, neoprene feet.



FUME HOODS

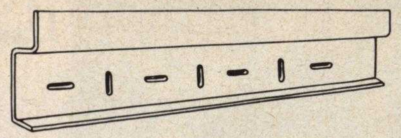
Hood is completely lined with transite, has opening for exhaust as specified. Top section has counterbalanced sash with ¼" safety plate glass, vaporproof light, services furnished as required. Two door lower section has one adjustable shelf. Entire base section is optional.
30", 36", 42", 48" W x 60" H



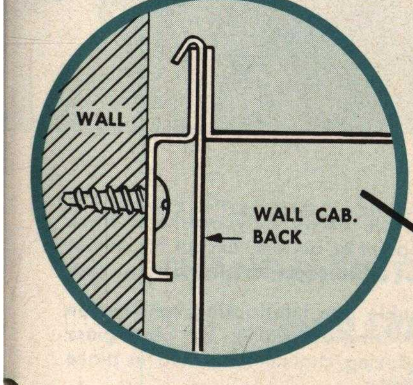
BLANKET WARMER

Cabinet is completely insulated. Perforated back panel allows free circulation of air warmed electrically or by steam heat. Five solid steel shelves are adjustable.
24", 30", 36" W x 80" H x 24½" D

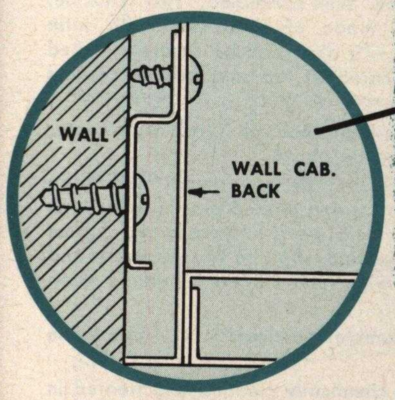
SECTION DETAIL AND INSTALLATION METHODS



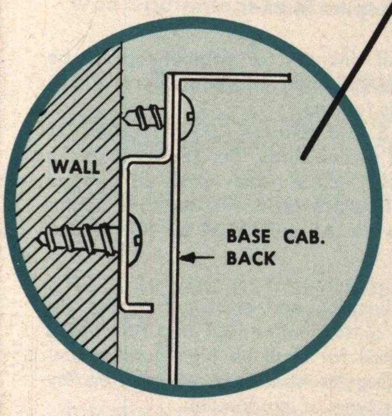
With Geneva's methods, installation is fast, accurate and neat. Continuous mounting strips of 14 gauge steel are securely fastened to wall, insure perfect alignment of casework. Installation problems are cut to a minimum with this method.


WALL
WALL CAB. BACK

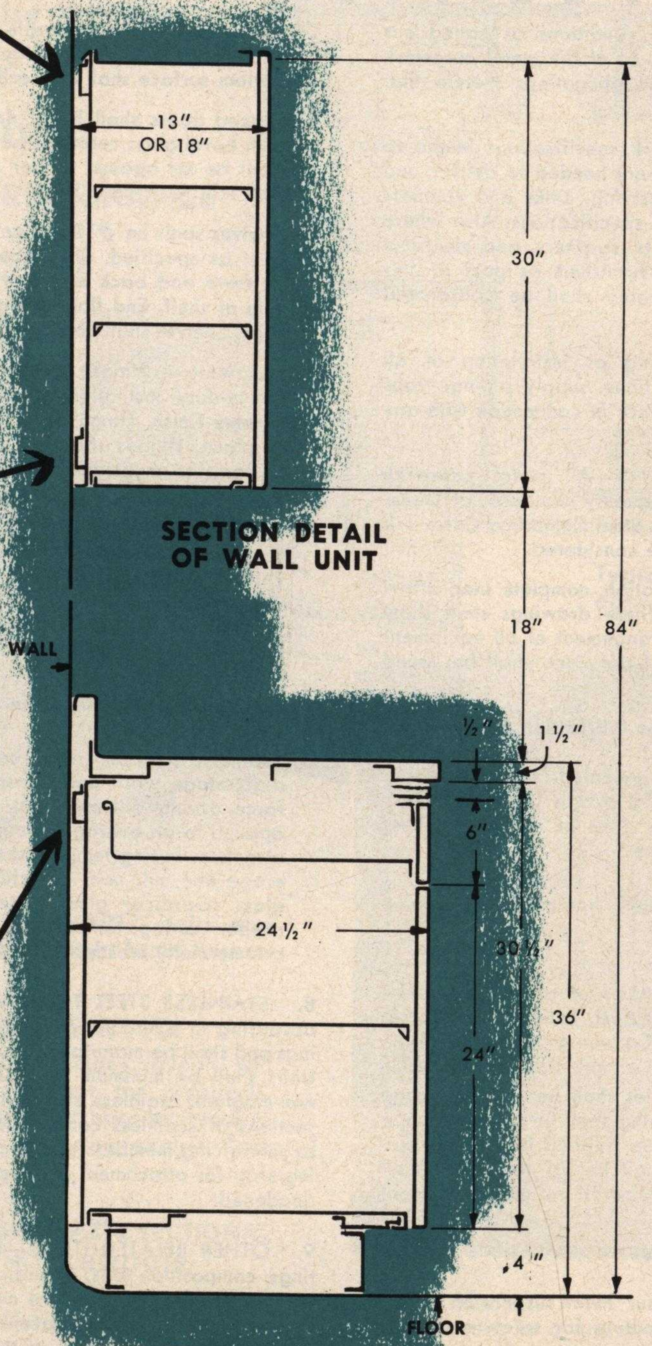
Top flange of cabinet back is formed to lock over metal mounting strip as shown in sketch above. This eliminates mounting screws on cabinet interior.


WALL
WALL CAB. BACK

Mounting strip is used along bottom edge of wall cabinet back. Cabinet is securely locked to this strip with metal screws.

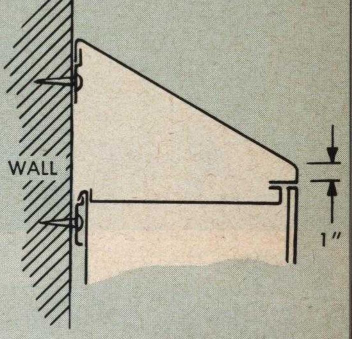

WALL
BASE CAB. BACK

Same type mounting strip is used for installing base casework. Cabinet fastens to strip near top as illustrated at right.


13″ OR 18″
30″
18″
84″
WALL
½″
1 ½″
6″
24 ½″
30 ½″
36″
24″
4″
FLOOR

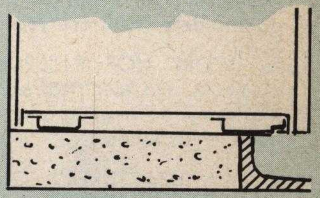
SECTION DETAIL OF WALL UNIT

SECTION DETAIL OF BASE UNIT



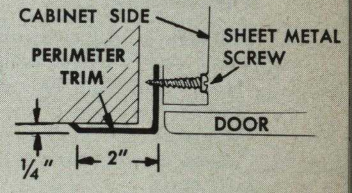
DUST HOOD

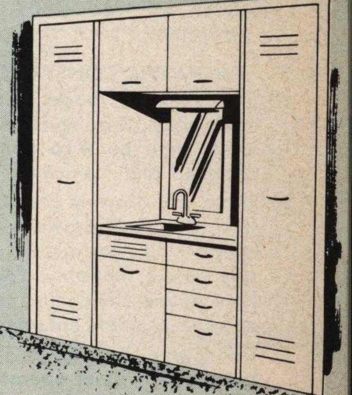
To maintain sanitary conditions where soffits are not used, an angled dust hood may be installed above casework. Hood has 1″ front vertical face, returns to wall at 30° angle.



OPTIONAL BASE

Two reinforcing channels are welded to bottom of each cabinet. These allow units to be set on concrete, wood or metal subbases.


CABINET SIDE
PERIMETER TRIM
SHEET METAL SCREW
DOOR
¼″
2″

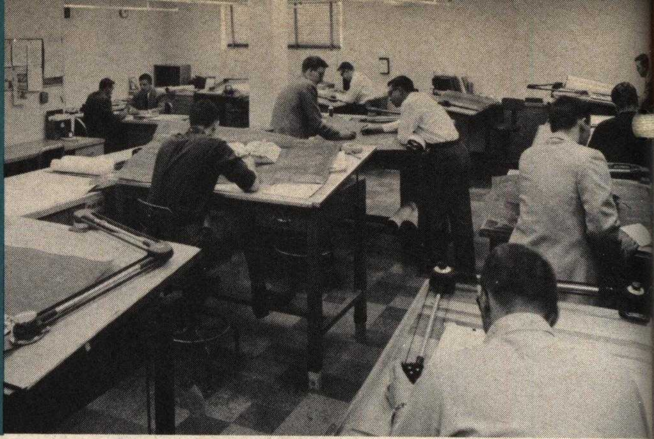


RECESSED UNITS

Units may be recessed into the wall where specified. A special 2″ wide perimeter trim of matching steel assures a flush, finished appearance.

Geneva Hospital Engineering Service

Geneva maintains a staff of engineers who are specialists in planning casework layouts for any hospital room. They detail every job for the production department, work with architects on any special cabinetry that may be required. There is no charge for the service performed by this staff of experts.



SPECIFICATIONS

1. GENERAL CONDITIONS—General conditions as called out in the specifications are hereby made part of the metal casework section and contractor shall assume all obligations therein that affect this work.

2. SCOPE OF WORK—Metal casework specifications intend to include all labor, materials, and equipment needed to deliver and install all metal casework, cabinets, shelving, sinks and counters as shown on drawings and indicated in specifications. Also where indicated as part of this contract faucets, strainers, and electrical outlets attached to casework will be furnished as part of this equipment. All materials and workmanship shall be guaranteed against defects for one year.

3. WORK NOT INCLUDED—Furnishing or installation of all plumbing and electrical service connections, supply piping, traps and stops. All heating and ventilating work in connection with any items in this section.

4. MANUFACTURER'S QUALIFICATIONS—All metal casework cabinets and shelving shall be equal to quality standards of Geneva Hospital Casework Division of Acme Steel Company. Casework of equal quality and construction shall be considered.

5. SHOP DRAWINGS—Prior to fabrication, complete shop drawings shall be submitted for approval. These drawings shall show construction detail and the size and arrangement of all equipment specified herein. Upon approval, sets of drawings shall be issued as required.

6. MATERIAL—All materials used in the fabrication of this equipment shall be of the best quality steel:

—Sheet Steel shall be cold rolled, annealed, furniture stock, stretcher levelled at the mill of #18 gauge U.S. Std. unless otherwise specified, and shall be free of rust, scratches, waves, or other serious imperfections.

Stainless Steel:

—Shall be type #302, #18 gauge, non-magnetic with a #4 finish.

7. CASEWORK CONSTRUCTION—

A. Bodies—Sides, backs, tops and bottoms of all units shall be made of #18 gauge steel cross members, rails and reinforcements shall be #16 gauge steel. Casework bodies shall be designed and fabricated to provide smooth flush interiors.

B. Doors and drawers and drawer bodies shall be of #18 gauge steel. Door and drawer front and lining shall be of double pan interlocking construction and shall be finished inside and outside before assembly. Face parts shall be 5/8" thick and shall have sound deadening material laminated to inside of front and lining under heat and pressure.

C. Doors and drawers shall close against stain proof rubber bumpers for quiet operation.

D. Drawers shall operate freely on four nylon suspension rollers and shall incorporate self closing feature for safety and ease of operation.

E. Sliding doors shall operate from heavy duty overhead track with concealed center guide point at bottom. Except for guide, bottom surface shall be free of obstruction for ease of cleaning.

F. Glazed doors shall be of double pan interlocking construction with bevel glass cutout in both front and lining. 1/4" plate glass shall be set against rubber glazing channel and held in place with retainer strip.

G. Shelves shall be #18 gauge mild steel or #18 gauge stainless steel as specified. Shelf shall be formed to provide 3/4" face at front and back edges with closed return flange to underside of shelf. End flanges shall be notched to nest over support clips. Shelves shall be adjustable on 1" centers.

H. Hardware — Hinges shall be semi-concealed, two knuckle, heavy-duty institutional type made of .140 steel with satin chrome finish. Hinge pin of .170 dia. shall be securely locked in place. Hinges shall be located at top and bottom corners of door for maximum strength.

Tall cabinet doors over 36" high shall be fitted with center stiffening hinges of same type as above.

Door and drawer pulls shall be die cast metal with satin chrome finish. Catches shall be spring loaded plastic roller type and shall engage a steel stop. Metal parts to have heavy chrome finish. Latching bars, when specified, shall be two point top and bottom type, spring loaded, with satin chrome actuating knob type handle.

Locks specified shall be pin tumbler paracentric key type to be keyed as directed.

Enameled steel units shall be chemically cleaned and treated in a six stage wash and phosphate spray coating process. After force drying a bond coat of rust inhibiting primer shall be applied to an average one mil. thickness and separately baked at proper curing temperature. This shall be followed by an average one mil. coat of acid resisting enamel with a maximum gloss (Gardiner gloss meter) rating of 90° and baked at proper curing temperature. Finish shall withstand all tests commercially prescribed for Hospital finishes.

8. STAINLESS STEEL TOPS—All sink and/or cabinet tops to be according to sizes and details as indicated on architectural drawings and shall be manufactured as follows:
Units shall be minimum #18 U.S. Std. Gauge (.050) type #302 non-magnetic stainless steel with drainboards, flanges, and splash sections of seamless construction. Deck surfaces shall be bonded to reinforcing members and shall be provided with suitable mounting strip for attachment to casework. All units shall be fully sound deadened.

9. OTHER RELATED ITEMS—Plumbing and electrical service fittings, composition tops, alberene or serpentine tops and sink bowls or treated wood tops where called for shall be high quality construction and produced according to specifications set up by recognized manufacturers of this type of equipment.

Geneva
HOSPITAL CASEWORK

Division of Acme Steel Co., **GENEVA, ILLINOIS**

Form H-5901
Printed in U.S.A.

In Pharmacies Where The Best Is Customary

Schwartz
SECTIONAL SYSTEM

23L
Gr

The genuine time-proven
SCHWARTZ SECTIONAL SYSTEM
saves time, space and money.
Be sure you get the genuine . . . accept no substitute.

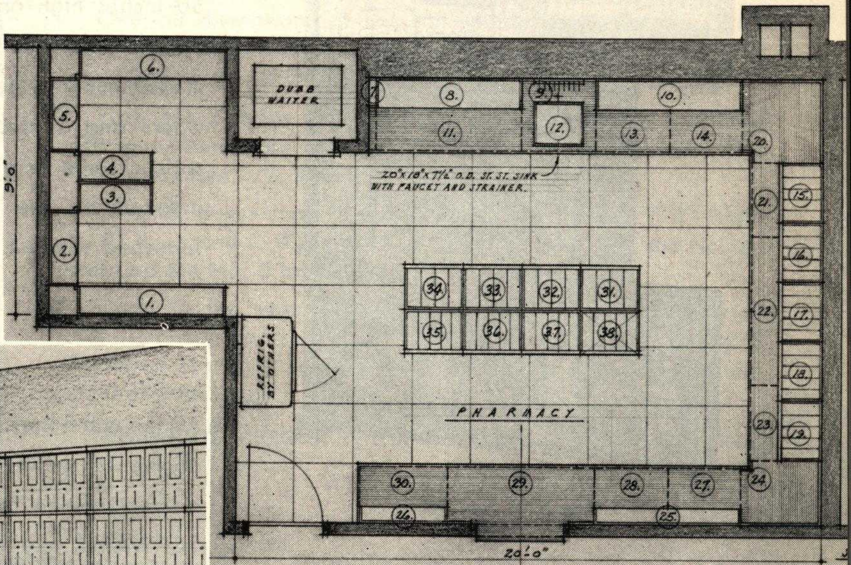
Expert Planning Service provides

CHANGEABILITY

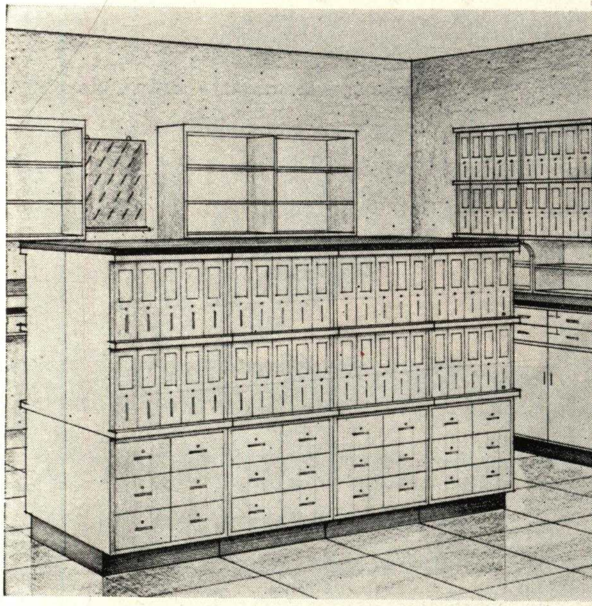
DURABILITY

PERFORMANCE

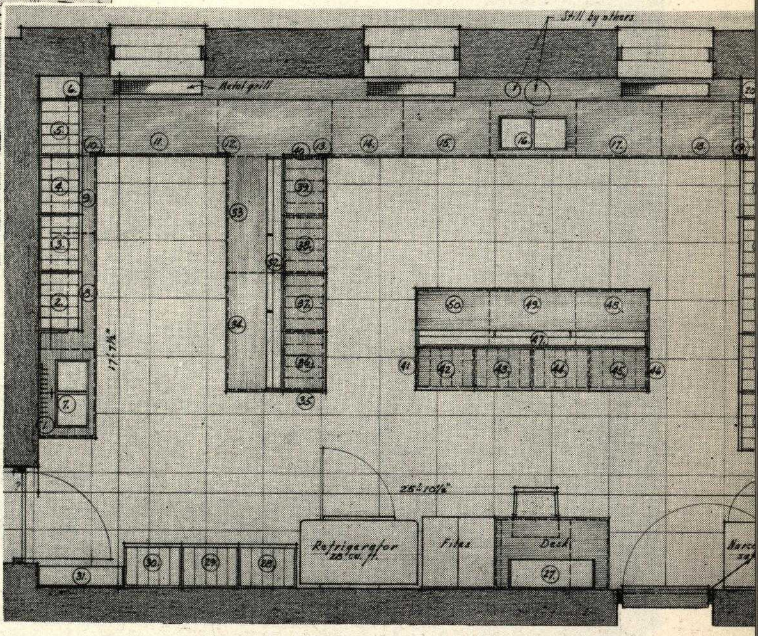
For The Hospital Pharmacy


DUMB WAITER
20"x18"x7½" O.D. ST. ST. SINK WITH FAUCET AND STRAINER
REFRIG. BY OTHERS
PHARMACY
9'-0"
20'-0"

Typical floor plans for pharmacies approximately 26′ x 18′ in size.



Sketch showing the center SCHWARTZ units and wall equipment in plan in upper right hand corner.


Still by others
Metal grill
Refrigerator 20 cu. ft.
Files
Desk
25'-10½"
17'-7½"

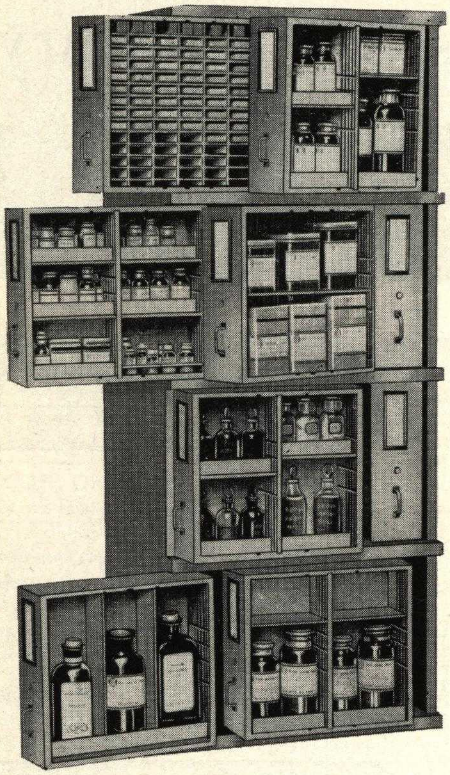
EXPERT PLANNING SERVICE

Modern, correctly engineered pharmacy layouts will be prepared promptly upon request for architects, administrators and pharmacists to fit hospital requirements. All that is needed is a correct scaled floor plan of the room.

BE SURE YOU GET GENUINE SCHWARTZ SECTIONAL SYSTEM UNITS . . . ACCEPT NO SUBSTITUTE.

Ask one of our Authorized Distributors or write us for more information regarding our Planning Service for architects and hospitals.

The pharmacy is a major element of your hospital . . . the best pharmacy equipment is the original and genuine Schwartz Sectional System.



Top Unit No. 20

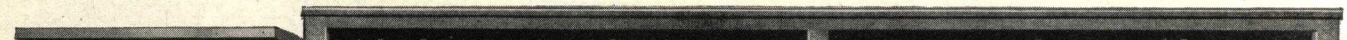
Be sure you get the original and genuine SCHWARTZ UNITS
Accept no substitute

The illustration at the left shows the space saving, convenient way in which pharmaceuticals are carried in unit No. 20 of the SCHWARTZ Sectional System. The drawers swing to the left and at a 90° angle after they are pulled entirely out.

SCHWARTZ top unit No. 20 contains 20 drawers, is 24 inches wide, 60 inches high and 18 inches deep; outside measurements. Drawers are 12¾ inches high, 4 inches wide and 14⅝ inches deep; inside measurements. Movable and adjustable divisions can easily be placed where and as desired. Card holders, drawer pulls and numerals are satin chrome finish. Every item in each drawer can be alphabetically indexed by the pharmacist in loose-leaf leather binder which is furnished with all orders for two or more units.

• • •

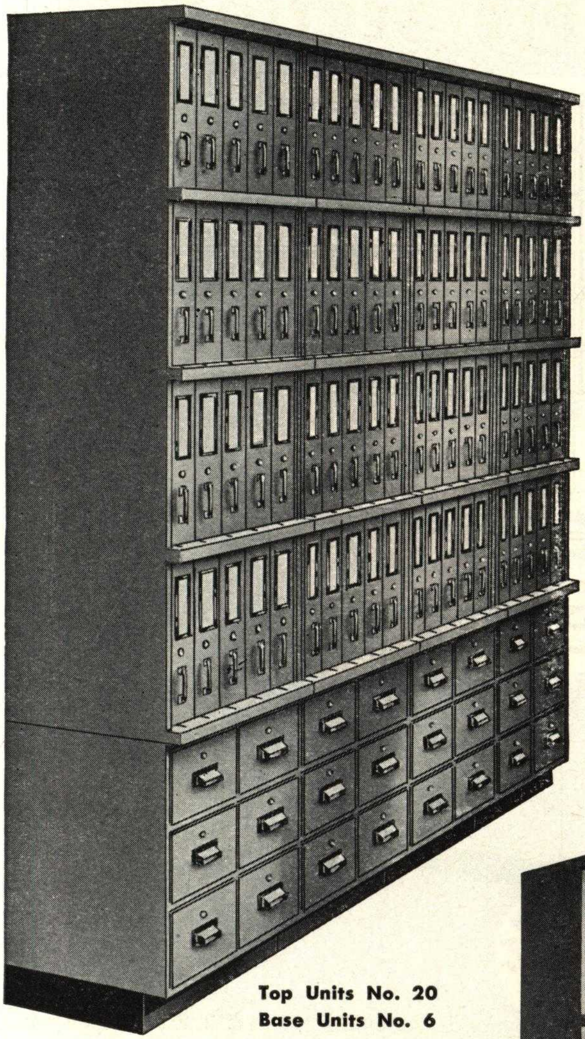
All the containers, ranging in sizes from one dram to one quart, shown on the 16 shelves of the 8-foot long shelf unit below as well as those in front on the floor, are easily contained in the 2-foot wide No. 20 SCHWARTZ unit shown at the left, 405 containers in all. This is a typical example of the large capacity and easy accessibility of each SCHWARTZ unit.



Top Unit No. 20

Manufactured Solely and exclusively by

GRAND RAPIDS SECTIONAL EQUIPMENT COMPANY
General Offices: 200 Fuller Bldg., 11 Fuller Ave., S.E. Grand Rapids 6, Michigan Phone GL-1-3335



Top Units No. 20
Base Units No. 6

The illustration at the left shows four standard No. 20 units of the Grand Rapids SCHWARTZ Sectional System used with four standard No. 6 drawer base units.

One No. 20 standard unit contains four rows of five pull-out and swing-around drawers, which are open on the right-hand side. Sufficient dividers, both horizontal and vertical, are provided to make the different necessary drawer arrangements.

Over-all dimensions of the No. 20 standard unit are 5′ 0″ high, 1′ 6″ deep and 2′ 0″ long. The inside drawer dimensions are 12 ¾″ high, 14 ⅝″ deep and 4″ wide.

Each No. 6 base unit contains six drawers which are fitted with one removable divider in length and one in width. This makes possible 1, 2, 3, or 4 compartments.

Over-all dimensions of the No. 6 base unit are 2′ 0″ high, 1′ 6″ deep and 2′ 0″ long. The combined height of the No. 20 unit and the No. 6 base unit is 7′ 0″.

Made in the usual Grand Rapids manner as to quality of materials and workmanship. The Grand Rapids SCHWARTZ Sectional System is superior in every way to any similar equipment offered today.

Standard finishes: Natural Maple or White Enamel.

←

Illustrated at the right are standard No. 20 units of the Grand Rapids SCHWARTZ Sectional System used with standard No. 1 cupboard bases.

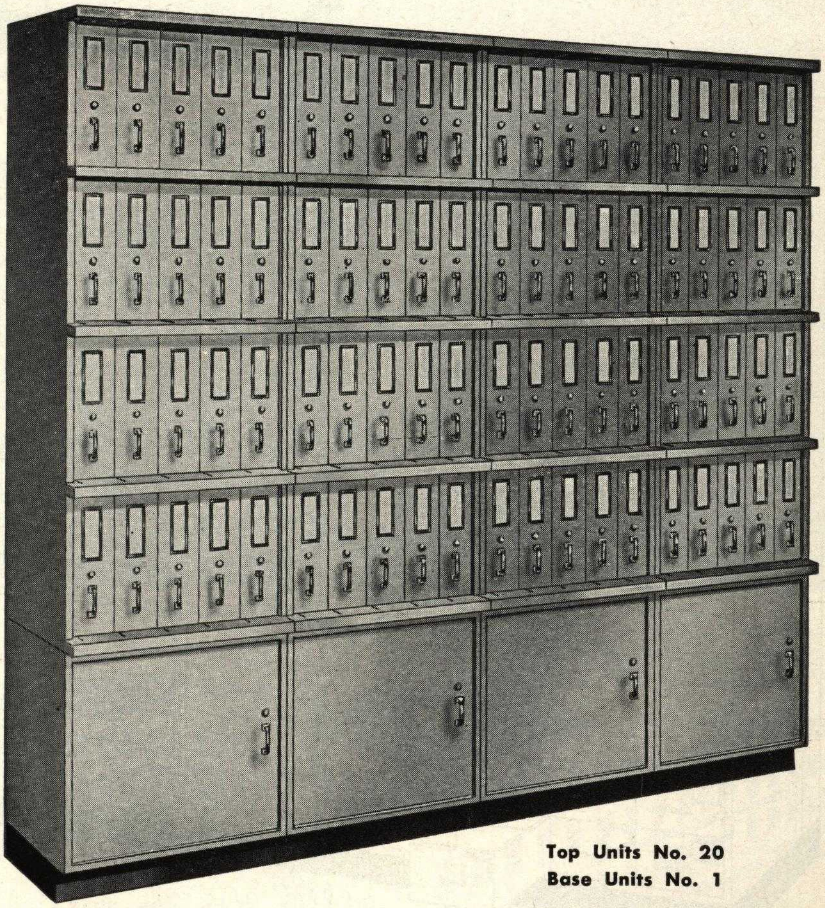
These cupboard bases are for gallon bottles. Each has 3 pull-out slides, accommodating 2 one-gallon containers, and one wood shelf. The rear bottles are accessible without moving the front ones.

The No. 1 Cupboard base units are 2′ 0″ high, 1′ 6″ deep and 2′ 0″ long.

Thus, the combined height of the No. 20 standard unit and No. 1 base unit is also 7′ 0″.

No. 1 and No. 6 base units can be used together in any lineup, with either No. 16 standard units or No. 20 standard units shown here.

→



Top Units No. 20
Base Units No. 1

Manufactured Solely and exclusively by

MULTIPLE SECTIONS

grand rapids
Sectional
equipment

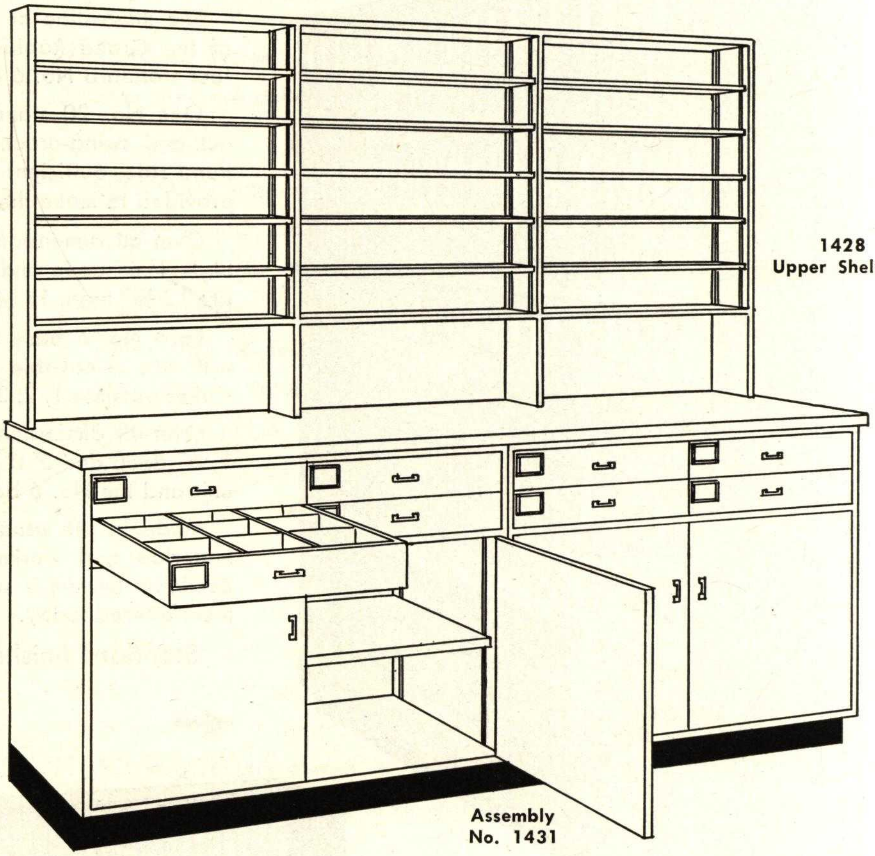
Assembly No. 1431 Prescription workboard and Upper shelving shown, can be furnished in lengths of 3, 4, 5, 6, 7, 8 feet, up to any length required.

Upper shelving "1428" has stationary top and bottom shelves and adjustable intermediate shelves. Shelves are 6 inches wide. Height 45 inches.

Workboard Assembly consists of two 43-C-48 Cupboard units giving a combined length of 8 feet. Hinged doors and one shelf below; drawers above as shown. →

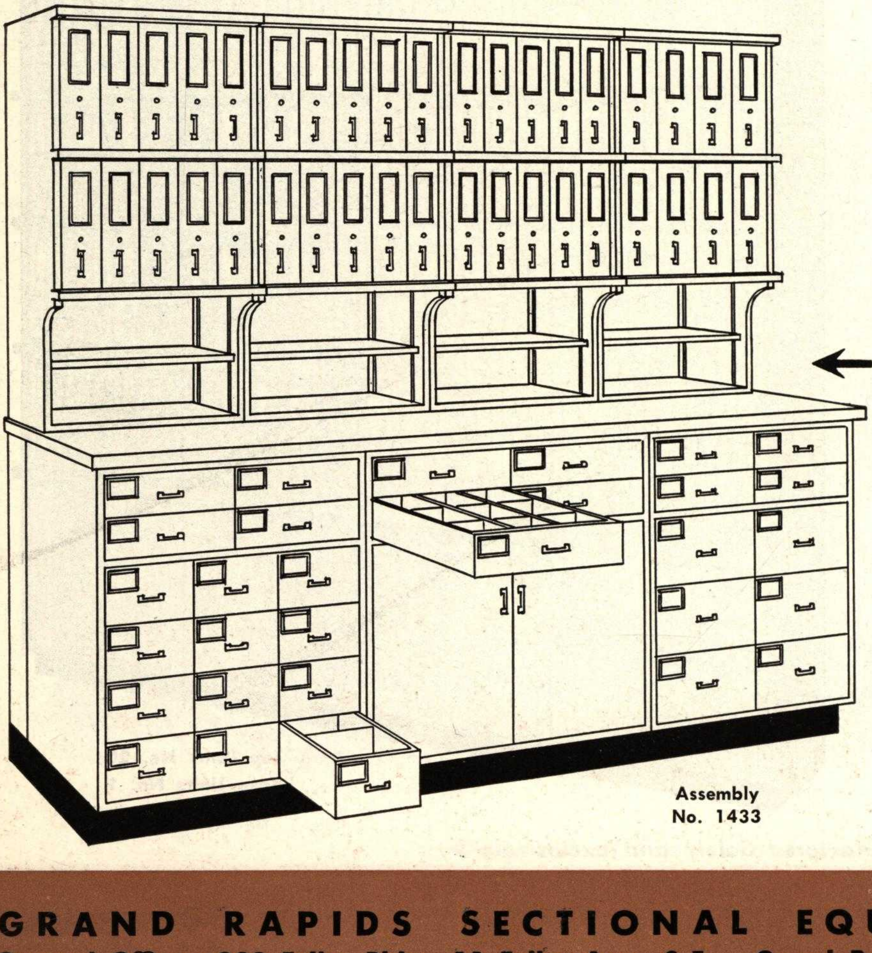
Workboard height is 39 inches; width of top 24 or 30 inches as required. Workboard top available in natural finished hard maple, B.A.R. (Black Acid Resistant) Cafolite or Formica, at varying prices.

Finished same as SCHWARTZ Sectional System units.



1428
Upper Shelving

Assembly
No. 1431



← Assembly No. 1433 Prescription workboard with SCHWARTZ Sectional System units can be furnished in lengths of 4, 6, 8 feet and longer as required.

Three No. 10-A and one No. 8-A Sectional top units are shown. Any arrangement can be furnished.

Workboard Assembly consists of one No. 43-B-30 drawer unit, one No. 43-C-36 Cupboard unit and one 43-A-30 drawer unit, totaling 8 feet in over-all length.

Workboard height is 39 inches; width of top 30 inches which is required to properly accommodate SCHWARTZ top units. Top is 24 inches wide if "1428" Upper shelving is used. Workboard top available in natural finished hard maple, B.A.R. (Black Acid Resistant) Cafolite or Formica.

Finished same as SCHWARTZ Sectional System units.

Standard finishes: Natural Maple or White Enamel.

Assembly
No. 1433

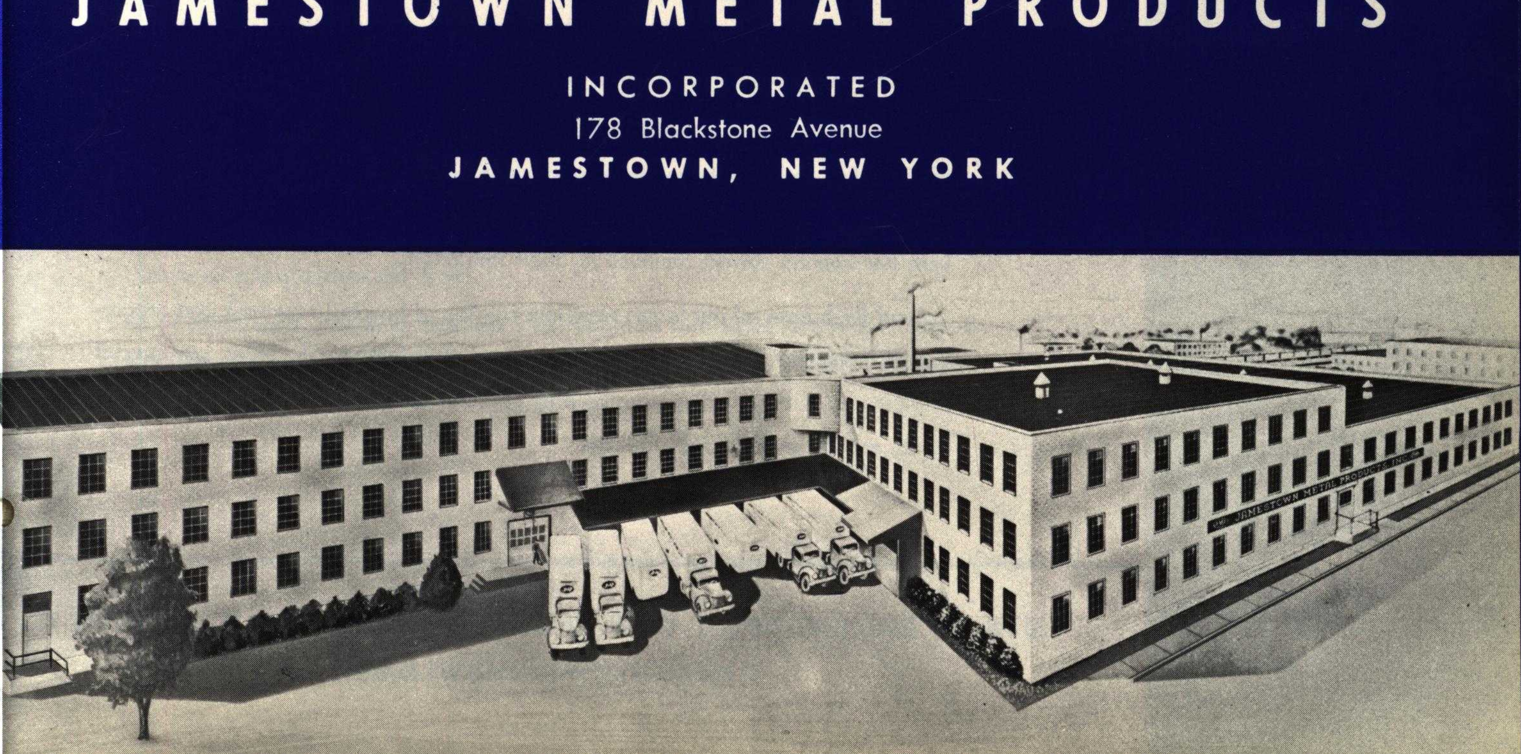
23L
Ja

Metal CASE WORK for Hospitals

JAMESTOWN METAL PRODUCTS, INC.

JMP

JAMESTOWN METAL PRODUCTS
INCORPORATED
178 Blackstone Avenue
JAMESTOWN, NEW YORK


JAMESTOWN METAL PRODUCTS INC.

For Metal Casework It's Jamestown

WHEN fine metal casework is mentioned architects and contractors all over the U.S.A. usually think of Jamestown, New York.

Jamestown Metal Products Inc. has specialized from the start in custom-built casework for hospitals. Our plant has over 180,000 square feet of floor space devoted entirely to this type of work. Our engineering department, with its long and intensive experience in this field, can be of inestimable aid to you.

All engineering and other details and negotiations are executed at the home office in Jamestown. This practice results in prompt decisions and answers to questions, and makes for efficient controls on planning, manufacture, delivery and installations.

To facilitate delivery of our products in perfect condition and at properly scheduled times to coincide with installation plans, we ship all units from our factory to building sites in our own trailer trucks by our own responsible drivers. We have seven big transportation units for this purpose, and this service alone has been of inestimable value to many planners and contractors.

The products shown in this catalog are examples of some of the equipment built and installed by Jamestown Metal Products in hospitals and other institutions from coast to coast. They represent a few ideas that have been used by others to provide functionally correct facilities for their institutions.

Send for a copy of our large, complete catalog of hospital casework and laboratory equipment. It describes in more detail our manufacturing facilities, our special services and the products we customarily manufacture for hospitals, clinics, laboratories, schools and other institutions.

Custom-Built Casework for Hospitals

All of our cabinets are tailor-made to the architect's layout. They fit the available space **exactly**—no stock sizes to squeeze or stretch—no space-wasting fillers. Being one of the largest manufacturers of hospital casework in the country, we are equipped and staffed to handle properly the largest as well as the smallest contracts. We specialize in three types of construction, each of which has its particular advantages:

Wall and Base Cabinets

The most popular type, which can be installed anywhere along the wall, and built to any desired dimensions with no lost space.

Recessed Cabinets

Designed for recessing into the wall, or between walls, these cabinets too are built to utilize all the available space, without wastage or filler panels.

Coved Corner Cabinets

Furnished in both recessed and wall types, these are truly deluxe cases, with all interior corners coved to an ample radius for easy cleaning, and all exposed ends built with double walls. Our method of construction produces cabinets of the highest quality on the market.

High Grade Furniture Steel

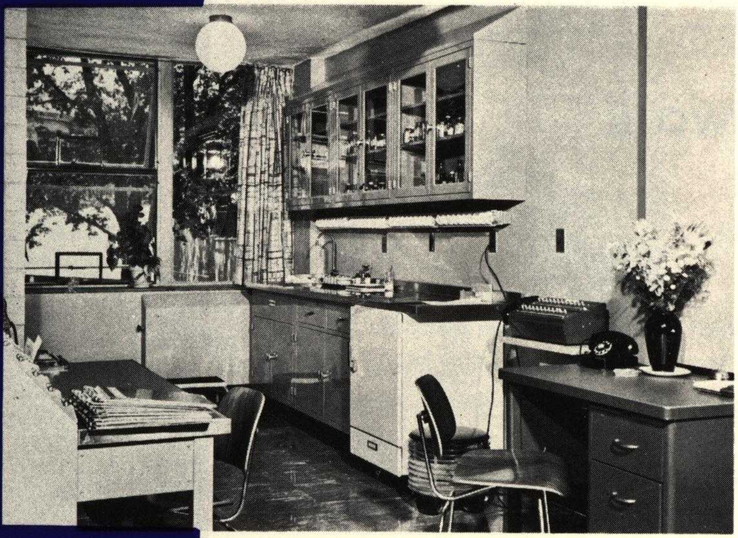
Full 18-gauge cold rolled, with baked enamel finish.

Stainless Steel

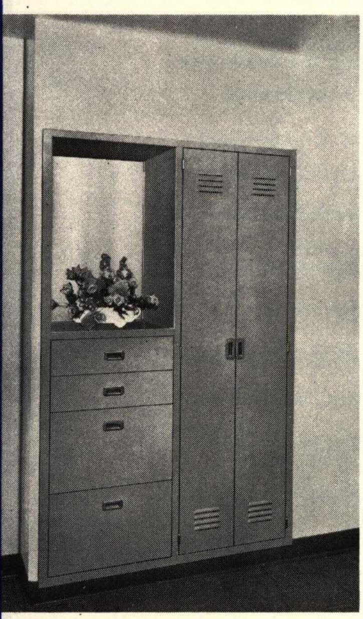
Made to our own specifications and highly polished; coved corners as smooth as a seamless drawn sink bowl.

All of these units, including stainless steel cabinets and sinks, are manufactured complete, right in our own large plant, and stored until you are ready for delivery.

METAL CASEWORK FOR HOSPITALS

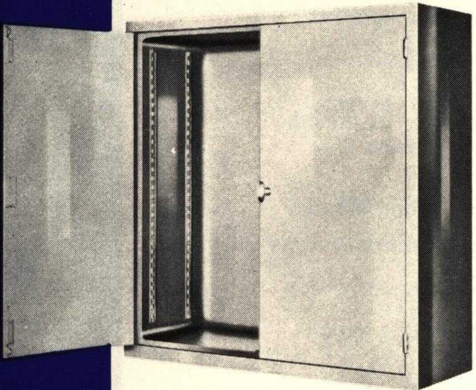


Typical JMP hospital installation, showing stainless steel sink, counter, base and wall cabinets and enameled and stainless steel chart rack and desk. The wall cabinets have sanitary slope top.



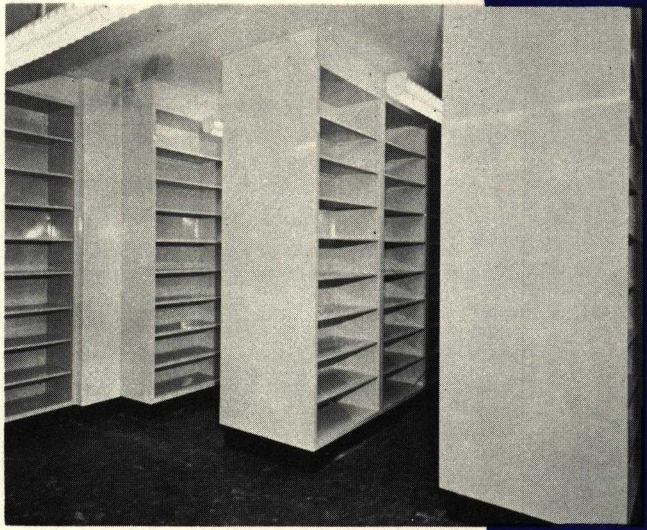
Combination Wardrobe - Dresser Unit provides hanging space for garments, and ample drawer space. Recessed sections with mirror back offers dresser feature. Furnished with or without light fixture.

These can be manufactured to your desired size and various cabinet arrangements.



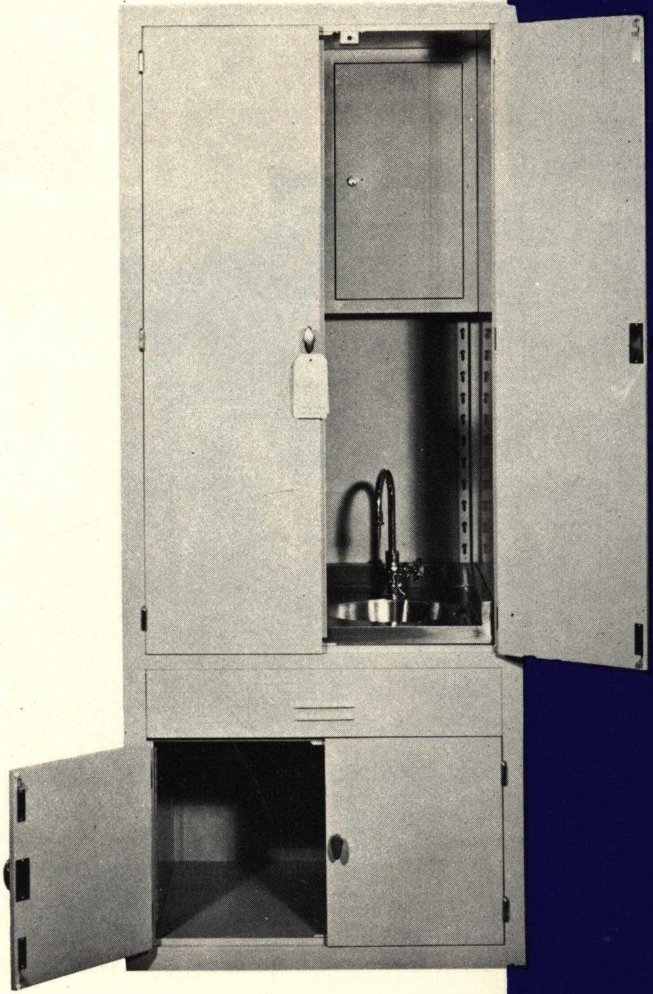
Coved Corner Cabinets of the finest construction obtainable. Interior corners are neatly coved to an ample radius for easy cleaning.

Available in stainless and enameled steel, and built only to architects' specifications.



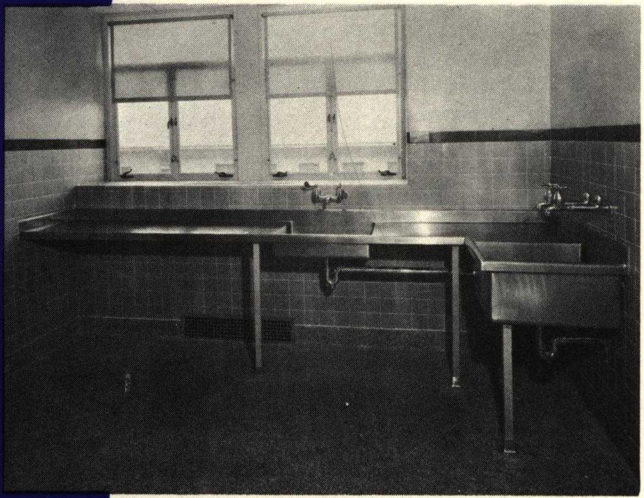
Open Storage Cabinets by JMP are unexcelled in quality. Made of 18-gauge furniture steel, with all corners gas welded and ground smooth so there are no visible joints. The cabinets arrive at the building site as complete units built to fit exactly into specified spaces without filler panels. Shelves are easily adjustable on sturdy clips—no screws or bolts.

Available in baked enamel finish to match color specifications.

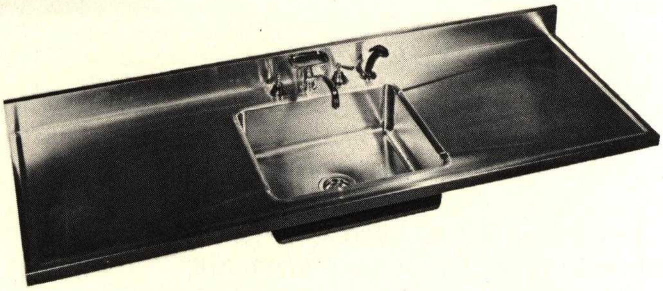


Typical Nurse's Station Unit by JMP. A popular and practical combination medicine sink and cabinet, with narcotics locker. Lock on narcotics closet operates warning signal when opened.

The cabinet can be built completely enclosed as shown, or with glass doors and exposed sink, and in enameled or stainless steel.

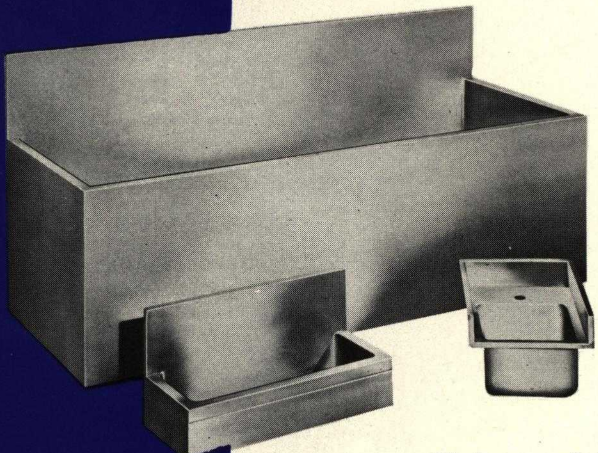


Typical JMP installation, showing welded one-piece sink and drainboard unit of stainless steel. We can fabricate such units to the most rigid specifications.



JMP offers added quality and delivery and installation control by operating its own complete manufacturing facilities for stainless steel sinks, work tops and cabinets.

Here is shown a typical unit of our own manufacture.



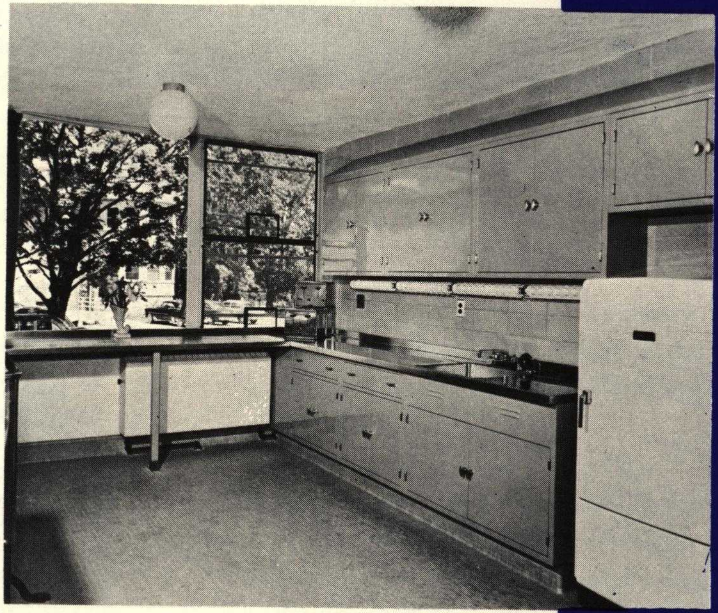
Sinks and Drainboards

Our Stainless Steel Sinks are built to your specifications in any size or proportion you desire. Made up from flat sheets with neatly rounded corners; all joints gas welded and ground to a uniform, smooth surface, leaving no visible seams or hairline cracks.

Drainboards are similarly fabricated, backed with sound-deadening insulating board. Built to your specifications, they will fit exactly into space desired, even where complicated corners are involved (as shown on opposite and preceding pages). Bowls can be located at any point desired and are welded in place with smooth rounded corners. The finished unit is all one piece, without visible seams.

This is the most sanitary and durable type of sink and drainboard available at any price.

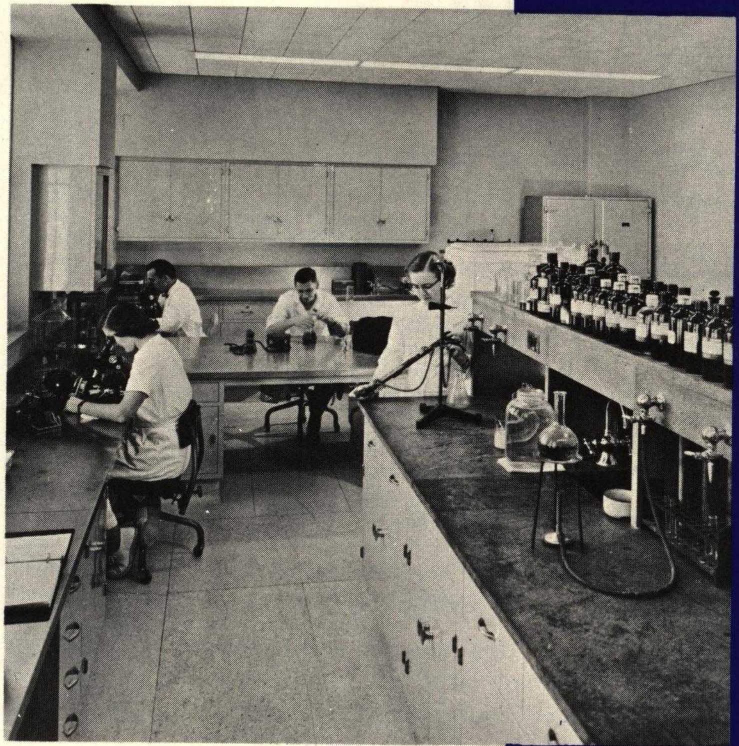
JMP installation in a hospital food preparation center. Base and wall cabinets of enameled steel, and sink and work tops of stainless steel. Cabinet hardware is of cast bronze, precision machined, plated and polished — designed for perpetual service without necessity for replacement.

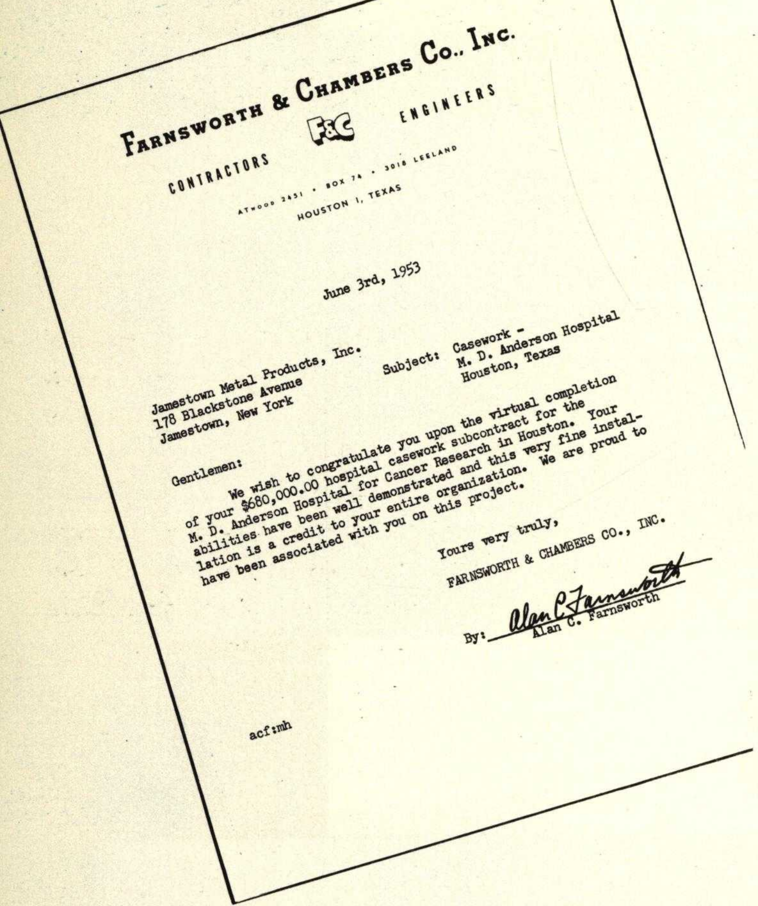


Typical JMP hospital laboratory installation. Enameled base and wall cabinets; stainless steel tops on wall tables; stone tops on center table and reagent rack.

Our cabinets and other equipment can be built to most rigid specifications for efficiency, cleanliness, heavy duty and long life.

Other JMP laboratory equipment includes sinks and fume hoods of stainless steel, Alberene stone, Chemstone and carbonized wood; also pharmacy cabinets, peg boards, etc.





FARNSWORTH & CHAMBERS CO., INC.
CONTRACTORS F&C ENGINEERS
ATwood 2451 • BOX 74 • 3018 LEELAND
HOUSTON 1, TEXAS

June 3rd, 1953

Jamestown Metal Products, Inc.
178 Blackstone Avenue
Jamestown, New York

Subject: Casework -
M. D. Anderson Hospital
Houston, Texas

Gentlemen:

We wish to congratulate you upon the virtual completion of your $680,000.00 hospital casework subcontract for the M. D. Anderson Hospital for Cancer Research in Houston. Your abilities have been well demonstrated and this very fine installation is a credit to your entire organization. We are proud to have been associated with you on this project.

Yours very truly,

FARNSWORTH & CHAMBERS CO., INC.

By: Alan C. Farnsworth
Alan C. Farnsworth

acf:mh

This letter, like scores of others in our files, attests to our knowledge of requirements in the field of metal casework; to our engineering skills in designing and manufacturing; to our efficient handling of contract negotiations; to our precision scheduling of manufacture, delivery and installation of equipment and to our satisfactory practice of sincere and honest service to our clients.

We are proud of our relationships with architects, contractors, hospital boards, government agencies, school boards and other institutional planners.

Following is a greatly condensed list of institutions for which we have performed important contracts. Many creditable references are omitted for lack of space, though they were equally important in building our reputation.

Because of its national significance we are particularly proud of the important part we played in the recent renovation program at the White House in Washington.

We should be happy to furnish names of architects and contractors connected with our installations in the following or other institutions:

Note: We are happy to furnish any institutional planner or contractor with our complete catalog showing manufactured products, construction details, specifications and other planning helps.

EAST

- Presbyterian Hospital
  New York, New York
- Kenmore Mercy Hospital
  Kenmore, New York
- Our Lady of Victory
  Lackawanna, New York
- Meadowbrook Hospital
  New York, New York
- Providence Hospital
  Sandusky, Ohio
- Jameson Memorial Hospital
  New Castle, Pennsylvania
- Stella Maria Hospital
  Baltimore, Maryland
- St. Joseph Hospital
  Lancaster, Pennsylvania
- Greater Hamot Hospital
  Erie, Pennsylvania
- Levindale Hebrew Home
  Baltimore, Maryland
- White House
  Washington, D. C.
- Bryn Mawr Hospital
  Bryn Mawr, Pennsylvania
- Brockton Hospital
  Brockton, Massachusetts
- Chronic Diseases Hospital
  Boston, Massachusetts

SOUTH

- Hall County Hospital
  Ganesville, Georgia
- Touro Infirmary
  New Orleans, Louisiana
- Providence Hospital
  Waco, Texas
- St. Francis Cabrini
  Alexandria, Louisiana
- St. Patricks Hospital
  Lake Charles, Louisiana
- Confederate Memorial Medical Center
  Shreveport, Louisiana
- Kilgore Memorial Hospital
  Kilgore, Texas
- Hotel Dieu
  Beaumont, Texas
- St. Francis Hospital
  Columbus, Georgia
- Polly Ryon Hospital
  Richmond, Tennessee
- San Antonio State Hospital
  San Antonio, Texas
- Tri-County Hospital
  Ft. Oglethorpe, Georgia
- St. Johns Hospital
  Tulsa, Oklahoma
- Wesley Maternity Hospital
  Wichita, Kansas
- St. Lukes Episcopal Hospital
  Houston, Texas
- M. D. Anderson Hospital
  Houston, Texas
- St. Joseph Hospital
  Augusta, Georgia
- Galveston County Hospital
  LaMarque, Texas

WEST

- St. Alexis Hospital
  Bismarck, North Dakota
- Provident Hospital
  Kansas City, Kansas
- Veterans Hospital
  Fargo, North Dakota
- Mercy Hospital
  Valley City, North Dakota
- St. Joseph's Hospital
  Grafton, N. D.
- Primary Children's Hospital
  Salt Lake City, Utah
- St. Ansgars Hospital
  Park River, N. D.
- University of Kansas
  Kansas City, Kansas

MIDWEST

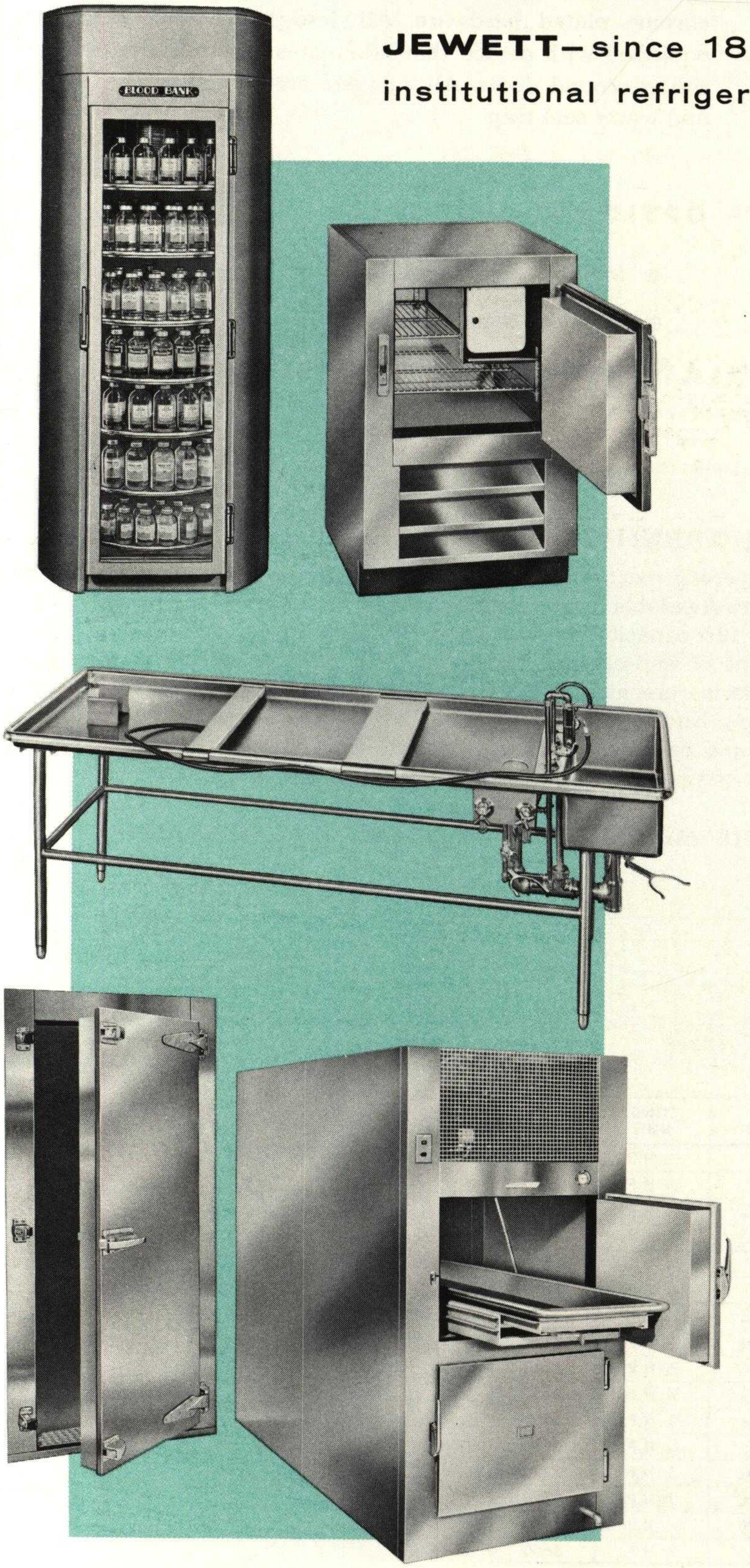
- Provident Hospital
  Chicago, Illinois
- Veterans Administration Hospital
  Madison, Wisconsin
- Ravenwood Hospital
  Chicago, Illinois
- Evanston Hospital
  Evanston, Illinois
- Sheboygan Memorial Hospital
  Sheboygan, Wisconsin
- St. Luke's Hospital
  Saginaw, Michigan
- Michael Reese Hospital
  Chicago, Illinois
- Veterans Hospital
  Dearborn, Michigan
- Mercy Hospital
  Janesville, Wisconsin
- Oak Park Hospital
  Oak Park, Illinois
- Wisconsin General Hospital
  Madison, Wisconsin
- Irene Byron Sanitorium
  Fort Wayne, Indiana
- Illinois Masonic Hospital
  Chicago, Illinois
- St. Luke's Hospital
  Milwaukee, Wisconsin
- St. Luke's Hospital
  Racine, Wisconsin
- St. Luke's Hospital
  Davenport, Iowa
- Argonne Cancer Research
  Chicago, Illinois

JAMESTOWN METAL PRODUCTS, INC.
178 Blackstone Avenue
JAMESTOWN, NEW YORK
Representatives in Principal Cities

KELLER K BUFFALO
LITHO IN U.S.A.

THE JEWETT REFRIGERATOR COMPANY, INC. BUFFALO 13, N.Y.

FOR HOSPITALS, SCHOOLS AND INSTITUTIONS



JEWETT—since 1849 America's foremost name in institutional refrigeration equipment.

- **Each piece of standard equipment is precisely engineered and designed to meet the most exacting specifications of America's leading hospital technicians.**
- **Our custom department will modify standard equipment to suit your requirements; or will build entirely new equipment carefully engineered and dimensioned to meet your precise needs.**

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THE JEWETT REFRIGERATOR CO., INC.
2 LETCHWORTH STREET BUFFALO 13, N. Y.

MORTUARY EQUIPMENT

REFRIGERATORS

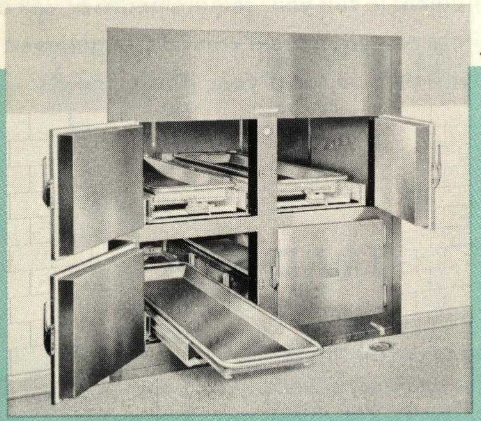
Over 40 years ago Jewett built the first mortuary refrigerator. Today Jewett, the acknowledged leader in its field, offers both standard and custom mortuaries designed to meet your specific requirements. Recessed or free-standing models are available with end opening, side opening, or pass through units.

Jewett mortuary refrigerators are likewise available in any capacity and arrangement of body space desired. Cabinets are of sectional construction, insuring facility of installation in any area. The sections are easily carried thru standard size doors.

Fronts are finished in 18/8 polished stainless steel, with interiors of white vitreous porcelain enamel. All mortuaries are insulated with 4″ Styrofoam #33. Doors are finished to match exteriors and mounted on heavy duty chrome plated hardware. All Jewett mortuary doors are equipped with device that eliminates sweating and condensation around doors. All cabinets are furnished with drains and water seal trap.

OPTIONAL FEATURES:

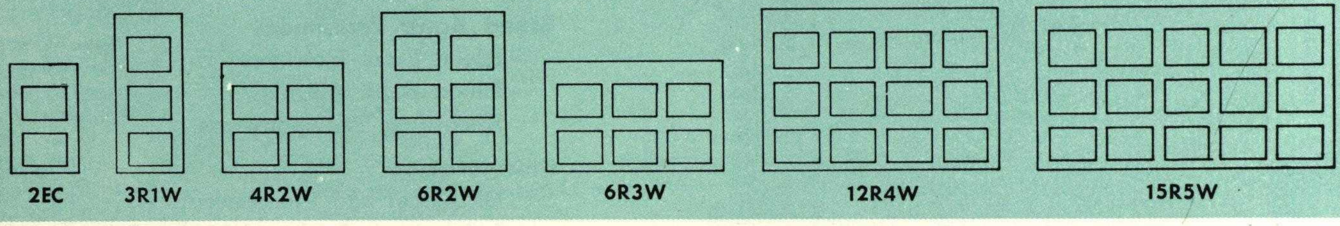
- **Interior vaporproof light**
- **Stainless steel interior**
- **Stainless steel floor pan, and interior door pans**


4R2W

END OPENING

End-opening mortuaries are for multiple installations or where space permits. Available in any arrangement in multiples of 1, 2 or 3 cadavers up to 126 capacity. It is desirable to have at least 15 feet of space in front of end-opening mortuaries for most satisfactory operation. Mortuaries are available with either remote or self-contained compressors. End-opening mortuaries have a four piece cadmium plated telescopic carriage operating on ball bearing rollers. The assembly comes complete with stainless steel tray.

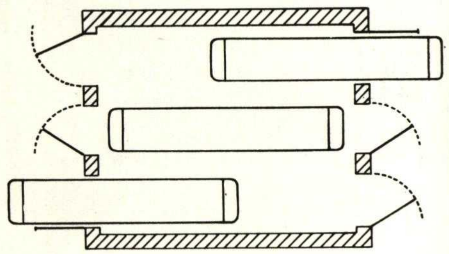
SHOWN ARE A FEW OF THE POSSIBLE MULTIPLE INSTALLATION ARRANGEMENTS



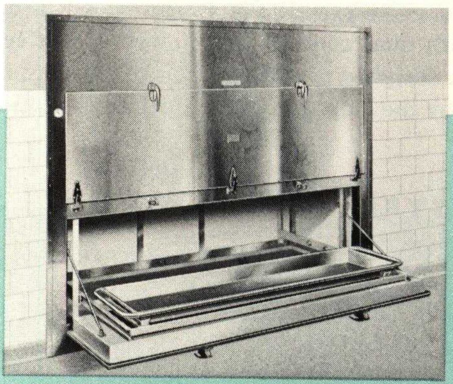
MODEL	BODY CAP.	TYPE	WIDE	DEEP	HIGH	COND. UNIT	BTU/HR
1ER	1	END	3′-3″	7′-11½″	4′-1″	⅓ H.P.	2550
1EC	1	END	3′-3″	7′-11½″	4′-1″	⅓ H.P.	2550
2ER	2	END	3′-3″	7′-11½″	6′-3¼″	½ H.P.	4250
2EC	2	END	3′-3″	7′-11½″	6′-3¼″	½ H.P.	4250
1SR	1	SIDE	7′-11½″	3′-3″	4′-1″	⅓ H.P.	2550
1SC	1	SIDE	7′-11½″	3′-3″	4′-1″	⅓ H.P.	2550
2SR	2	SIDE	7′-11½″	3′-3″	6′-3¼″	½ H.P.	4250
2SC	2	SIDE	3′-3″	7′-11½″	6′-3¼″	½ H.P.	4250
3R1W	3	END	3′-3″	7′-11½″	8′-5½″	½ H.P.	4250
4R2W	4	END	6′-1″	7′-11½″	6′-3¼″	¾ H.P.	6650
6R2W	6	END	6′-1″	7′-11½″	8′-5½″	¾ H.P.	6650
6R3W	6	END	8′-11″	7′-11½″	6′-3¼″	¾ H.P.	6650
8R4W	8	END	11′-9″	7′-11½″	6′-3¼″	1 H.P.	9290
9R3W	9	END	8′-11″	7′-11½″	8′-5½″	1 H.P.	9290
2SP	2	END	3′-3″	7′-11½″	8′-5½″	½ H.P.	4250
4SP2W	4	END	6′-1″	7′-11½″	8′-5½″	¾ H.P.	6650

PASS-THROUGH MODELS

All end-opening mortuaries can be provided with doors at both ends for loading in one room and unloading in another as shown in this drawing.



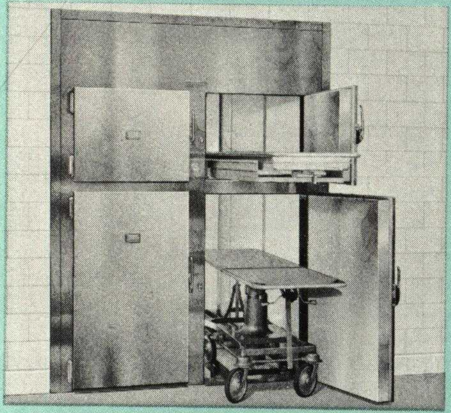
Design or specifications subject to change without notice



SIDE OPENING

2SR

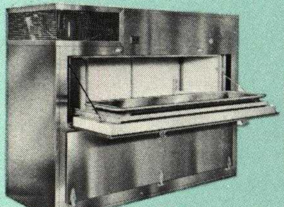
This type is useful where floor space is limited. Door projects 2'4" when opened. It is desirable to allow at least 5' of work area. Side acting mortuaries have a three piece cadmium plated telescopic carriage operating on ball bearing rollers. The assembly comes complete with stainless steel tray. Available with either remote or self-contained compressors.



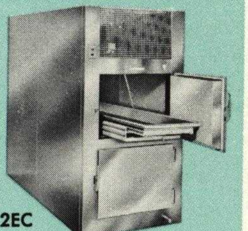
FOUR-BODY SPECIAL

4SP2W

Illustrated models show roll-in type mortuary with standard Jewett mortuary telescopic carriage assembly in the upper compartments. Bottom compartments designed to handle stretcher carts. As with all Jewett products modifications of this construction are readily available to meet your specific needs.



2SC

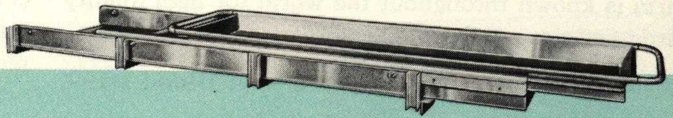


2EC

FREE-STANDING SELF-CONTAINED

These free-standing self-contained mortuaries are especially desirable for use in existing rooms where new construction is not planned. They can be shipped in one piece with all mechanical equipment ready for operation or in sections to pass through standard door openings. Available in one and two body models.

RACKS and TRAYS



All Jewett mortuary carriages and frames are constructed of heavy gauge steel, cadmium plated after fabrication. Rack assemblies are equipped with telescopic carriages which support the 20 gauge stainless steel tray for its entire extended length. Carriage frame assemblies can be furnished for special installations for use in walk-in type refrigerators complete with special supports.

Assembly complete:	Tray only:
2' 3⅝" wide	1' 10" wide
7' 3¼" deep	7' 1⅜" deep
7¾" high	3½" high

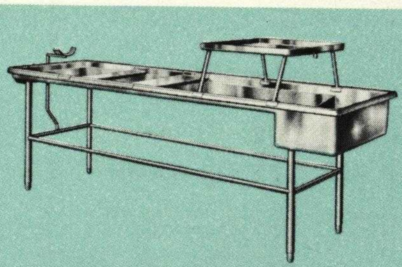
STAINLESS STEEL AUTOPSY TABLES

Both the Standard and Deluxe model Autopsy Tables are masterpieces of design . . . the result of consultations with leading pathologists throughout the country.

DISTINCTIVE FEATURES

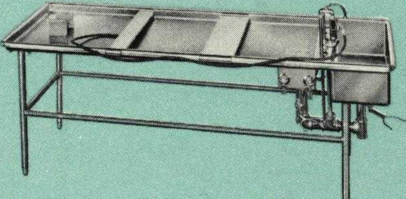
- Polished surface free from pit marks, weld seams and scale
- Seamless, smooth welded construction
- All radius corners
- No crevices for bacteria
- Adjustable removable body supports
- 1⅝" stainless steel tubular legs
- Adjustable sanitary bullet-type feet
- Length 8' 3¾"; width 30¼"; height 36"

Special models built to specification



MODEL "S"—STANDARD AUTOPSY TABLE

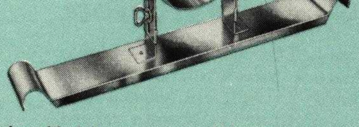
Additional features include a stainless steel adjustable head rest and stainless steel specimen and instrument tray.



MODEL "D" DE LUXE AUTOPSY TABLE

Additional features include a solid rubber head rest and Hydroaspirator with built-in automatic Vacuum Breaker and plumbing fittings illustrated.

ACCESSORIES



Available as an added feature, stainless steel adjustable head rest slides on rim of table for exact positioning.

Available as an added feature on the deluxe model, stainless steel specimen and instrument tray.

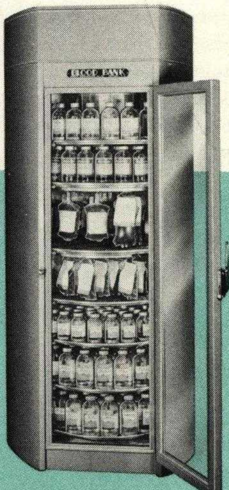
BLOOD BANK EQUIPMENT

Over a century of experience and constant research has made Jewett the leader in the field of blood refrigeration. This firm is known throughout the world for high quality standards and superior workmanship.

Jewett has developed a complete line of Blood Bank Refrigerators to fill the specific need of all blood banking institutions, both large and small. All Jewett Blood Banks come equipped with dual controls and Jewett alarm system and have been designed to meet the minimum requirements established by the Department of Health, Education and Welfare.

CYLINDRICAL

MODEL 2

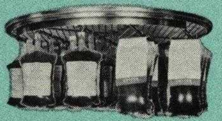


MODEL 1

The unique design of the Jewett Cylindrical Blood Bank saves floor space; and the full view, triple-pane door of cloud-proof plate glass makes blood selection easier. Additional important features include neon-illuminated interior, and revolving shelves that insure convenience of storage, selection and inventory. Each unit is provided with the Jewett alarm system as well as the automatic controls that are factory-set to produce and maintain a cabinet temperature of 39.2°F. to 42.8°F. (4°C. to 6°C.). The Jewett Cylindrical Blood Bank is precision-built to give years of trouble-free service.

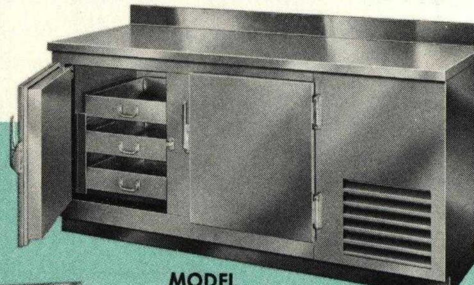
ADJUSTABLE REVOLVING SHELVES FOR BOTTLES OR BAGS

Revolving shelves put every bottle in front . . . in sight . . . in easy reach.

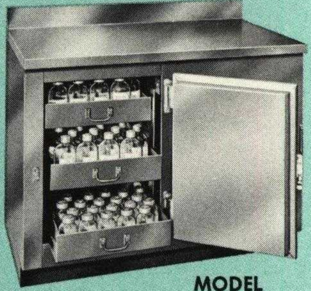


If various blood types are stored on one shelf, they can be kept separate and each bottle is readily available with a turn of the shelf. A protective ridge prevents bottles from slipping off. Now optionally available in the Jewett Blood Bank are shelves equipped to hold the new plastic blood bags. A stainless steel attachment fastened underneath the shelves holds the bags safely and securely, and still allows the shelf to revolve for ease of selection.

COUNTER TYPE


MODEL CT4

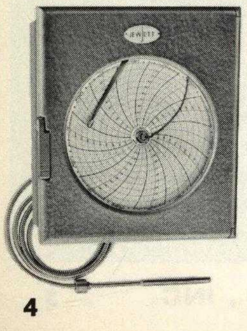
MODEL CT1


MODEL CT2

Jewett has developed these Counter Top Blood Banks to answer the need of the small hospital and clinic for ample blood storage capacity, together with a flat counter surface providing the most economical use of laboratory space. These models are also available without counter tops for undercounter application. Each unit is provided with the Jewett alarm system as well as with automatic controls that are factory-set to produce and maintain a cabinet temperature of 39.2° F. to 42.8° F. (4° C. to 6° C.)

SPECIFICATIONS	MODEL 1	MODEL 2	CT-1	CT-2	CT-4
Height	87″	72″	36″	36″	36″
Width	37″ dia.	33″ dia.	24″	48″	75″
Depth	34″	29″	25″	29″	29″
Capacity 250cc. bottles	476	253	58	120	240
650cc. bottles	333	179	40	80	160
Condensing Unit	1/3 H.P.	1/4 H.P.	1/8 H.P.	1/8 H.P.	1/4 H.P.

FINISHES: Models #1 and #2 Standard, grey ripple exterior, white interior. Also available in stainless steel. Models CT-1, CT-2, CT-4, stainless steel interior and exterior.



BLOOD TEMPERATURE RECORDER

Jewett's Recording Thermometer, available as an added feature on all models, is the ultimate safeguard for efficient economical blood storage. A continuous accurate record of stored blood temperature is graphed and, in the event of power failure, a complete record of the rise and fall of the temperature is recorded. A supply of 100 eight-inch easily read charts is provided for recording blood temperatures exactly in either Fahrenheit or Centigrade.

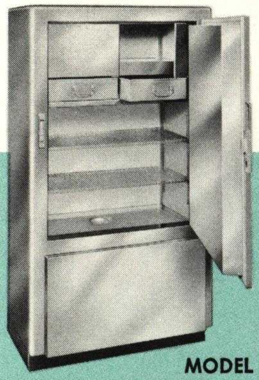
JEWETT
BLOOD BANK ALARM
TYPE:
ON
OFF

THE JEWETT ALARM SYSTEM

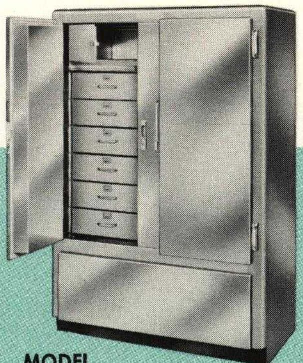
Standard equipment on all Jewett Blood Banks, this alarm system gives both audible and visual warning to hospital personnel should there be a dangerous fluctuation of temperature. Only the changes in temperature of the bottle's contents are signaled, while minor, temporary changes in circulating air temperatures do not actuate this unique alarm system.

Variations in size, shape and components on any Jewett Refrigerator can be arranged and designed to your specifications.

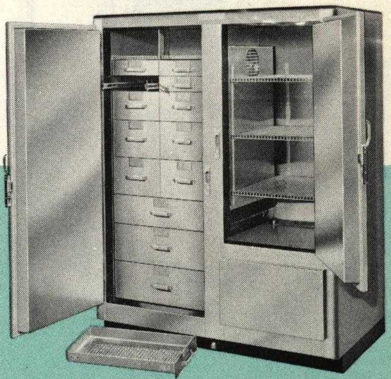
STAINLESS STEEL BIOLOGICAL and PHARMACEUTICAL REFRIGERATORS



MODEL
BR 150



MODEL
PH 149



MODEL BR 148

FREEZER AND REFRIGERATOR COMBINATIONS

BR 150 — Freezer: 2.3 cu. ft. with hot gas defrost. Normal temperature section: 11 cu. ft. of cold wall construction provides perfect climatic conditions for the storage of biologicals. Interior fitted with two stainless steel drawers and two stainless steel adjustable shelves.

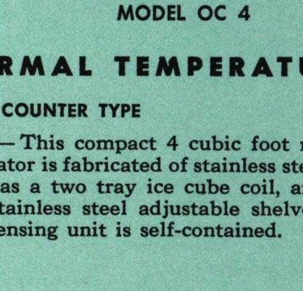
PH 149 — Freezer: 4.3 cu. ft. Normal temperature section: 22 cu. ft. Mullion type blower coil and automatic defrost. Six stainless steel drawers and three stainless steel adjustable shelves.

NORMAL TEMPERATURE STORAGE

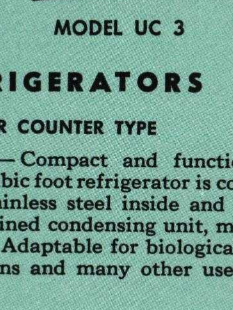
BR 148 — 40 cubic foot capacity, stainless steel interior and exterior. Fitted with mullion-type blower coil, adjustable shelving and various size perforated drawers for efficient storage and circulation.

Model	Norm. Temp. Cap.	Freez. Cap	Height	Width	Depth	Con. Unit
BR-150	11 Cu. Ft.	2.3 Cu. Ft.	69″	36″	24″	⅓ H.P.
PH-149	22 Cu. Ft.	4.3 Cu. Ft.	72″	48″	30″	⅓ H.P.
BR-148	40 Cu. Ft.		72″	57″	32″	⅓ H.P.

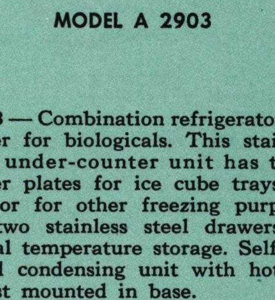
STAINLESS STEEL LAB REFRIGERATORS



MODEL OC 4



MODEL UC 3



MODEL A 2903

NORMAL TEMPERATURE REFRIGERATORS

OVER COUNTER TYPE

OC 4 — This compact 4 cubic foot refrigerator is fabricated of stainless steel and has a two tray ice cube coil, and two stainless steel adjustable shelves. Condensing unit is self-contained.

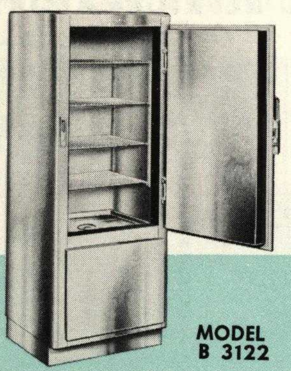
UNDER COUNTER TYPE

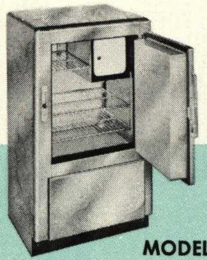
UC 3 — Compact and functional, this 3.8 cubic foot refrigerator is constructed of stainless steel inside and out. Self-contained condensing unit, mounted in base. Adaptable for biologicals, nurses' stations and many other uses.

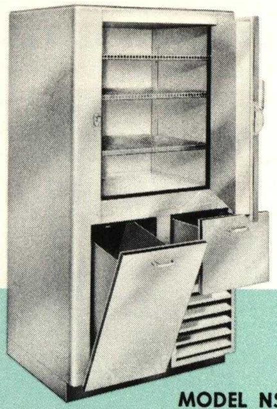
A 2903 — Combination refrigerator and freezer for biologicals. This stainless steel under-counter unit has three freezer plates for ice cube trays, ice caps or for other freezing purposes, and two stainless steel drawers for normal temperature storage. Self-contained condensing unit with hot gas defrost mounted in base.

Model	Capacity	Height	Width	Depth	Con. Unit
OC-4	4.4 Cu. Ft.	34½″	30″	24″	⅛ H.P.
UC-3	3.8 Cu. Ft.	34½″	24″	24″	⅛ H.P.
A-2903	3 Cold Plates and 2 storage drawers	34½″	30″	24″	⅛ H.P.

STAINLESS STEEL NURSES' STATIONS and/or UTILITY ROOM REFRIGERATORS


MODEL B 3122


MODEL NS 4


MODEL NS 13

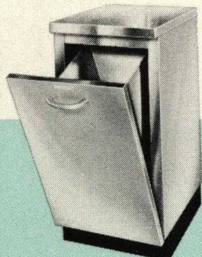
B 3122 — Available in two sizes, 8 and 10 cubic feet capacity. This self defrosting diet kitchen or utility room refrigerator has cold wall construction providing additional storage space, and four stainless steel adjustable shelves.

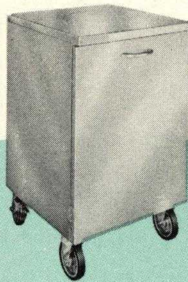
NS 4 — This 4 cubic foot refrigerator is designed for use in nurses stations and floor kitchens. It has 2-tray ice cube coil, and three adjustable stainless steel shelves.

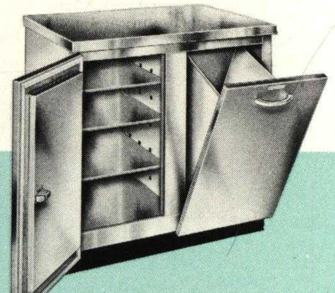
NS 13 — This 13 cubic foot cold wall refrigerator, one hundred lb. ice storage bin and large capacity utility drawer is combined in one unit to form a complete and efficient nurses' station unit.

Model	Capacity	Height	Width	Depth	Con. Unit
B-3122-8	9.6 Cu. Ft.	69"	28"	22"	⅛ H.P.
B-3122-10	11.7 Cu. Ft.	69"	30"	24"	⅛ H.P.
NS-4	4 Cu. Ft.	42"	24"	23"	⅛ H.P.
NS-13	100 lb. & 13 Cu. Ft.	72"	36"	30"	⅛ H.P.

STAINLESS STEEL CRACKED ICE BINS


MODEL R 100


MODEL R 150P


MODEL R 200

R 100 and R 150 — Stainless steel top, front, ends and counterbalanced tilting ice bin. Fully insulated complete with drain. Special sizes on request. Optionally available for under counter installation.

R 100P and R 150P — the same design and construction as stationary models with 4" casters, 2 stationary and 2 swivel with brakes. Efficient, economical and functional, this model is easily portable and is available as shown with 150 lb. capacity or with 100 lb. capacity.

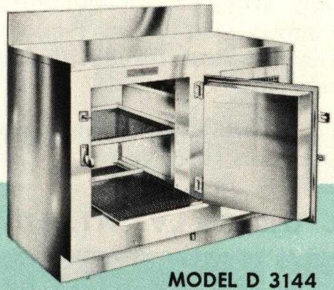
R 200 — 4.5 cu. ft. storage space combined with 100 lb. crushed ice bin. Engineered to conduct cold air from ice bin to stainless steel shelved storage compartment thus keeping stored products cool. Optionally available for under counter installation.

Model	Capacity	Height with Base	Height w/o Base	Width	Depth
R-100	100 lbs.	36"	32"	18"	25"
R-150	150 lbs.	36"	32"	24"	25"
R-200	100 lbs. & 4.5 cu. ft.	36"	32"	36"	25"

R-100P and R-150P are 37¼" high. All other specifications are the same.

STAINLESS STEEL MILK FORMULA REFRIGERATORS

MODEL MF 28



MODEL D 3144

MODEL D 3127

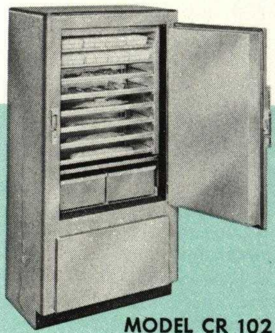
MF 28 — 8 adjustable stainless steel shelves have a capacity of 76 baskets holding 6 bottles or 456 bottles. Three inches of styrofoam insulation, automatic defrosting, wedge type blower coil and heavy-duty air cooled condensing unit create continuous temperature control.

D 3144 — This 36″ high counter top model is fitted with two stainless steel pull-out shelves which have a 72 bottle capacity. It is equipped with mullion-type self-defrosting blower coil and a heavy-duty air-cooled condensing unit.

D 3127 — Counter top model 36″ high, has a 144 bottle capacity on its four pull-out stainless steel shelves. Equipped with mullion-type self-defrosting blower coil, it has a heavy-duty air-cooled condensing unit.

Model	Bottle Cap.	Capacity	Height	Width	Depth	Con. Unit
MF-28	456	28 Cu. Ft.	72″	48″	30″	½ H.P.
D-3144	72	5.7 Cu. Ft.	36″	48″	29″	⅛ H.P.
D-3127	144	16 Cu. Ft.	36″	75″	29″	¼ H.P.

STAINLESS STEEL COLD PACK and/or ICE CUBE FREEZERS



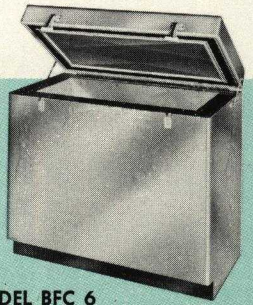
MODEL CR 102

MODEL A 2714

CR 102 (illus.) has a capacity of 64 lbs. of ice cubes, CR 103 a 96 lb. capacity. Cold-pack and/or ice-cube freezers for installation at central supply or nurses stations they are designed to store both freezer bags and ice cubes. Stainless steel fabricated inside and out, they come equipped with hot gas defrosting unit which defrosts in 5 minutes.

A 2714 — Cold-pack and/or ice cube freezer combined with 13 cubic feet of normal temperature storage, for installation at central supply or nurses stations. Stainless steel fabrication inside and out including adjustable stainless steel shelving. Freezer is equipped with hot gas defrosting unit which operates in 5 minutes.

STAINLESS STEEL BONE FREEZER



MODEL BFC 6

BFC 6 — 6 cubic foot freezer chest for use where low temperatures (−10° F.) are needed for freezing bones and specimens. Interior and exterior fabricated of stainless steel, it has a spring balanced lid, self-contained condensing unit.

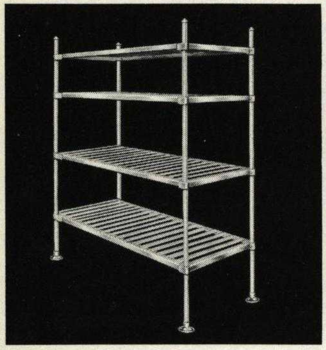
Model	Capacity	Height	Width	Depth	Con. Unit
CR-102	512 Cubes 64 lbs.	57″	28″	22″	¼ H.P.
CR-103	768 Cubes 96 lbs.	69″	28″	22″	⅓ H.P.
A-2714	384 Cubes & 13 Cu. Ft.	69″	54″	24″	⅓ H.P.
BFC-6	5.6 Cu. Ft.	36″	42″	24″	⅓ H.P.

JEWETT STATIONARY AND MOBILE SHELVING UNITS

GENERAL FEATURES:

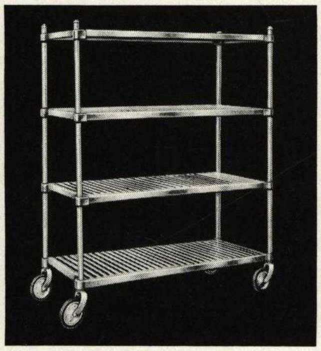
- Tubular post construction provides completely exposed, easily cleaned surface, sturdy support and allows for easy adjustment, addition or removal of shelves.
- All posts furnished with stainless steel caps.
- Multiple sections are easily formed in any arrangement or shape, by the simple addition of sections to the existing posts fitted with double brackets.
- All shelves are removable, no bolting or tools required.

DIE-FORMED STAINLESS STEEL OR GALVANIZED



MODEL R-122S — Self-supporting, die-formed stainless steel shelving. Fabricated from #16 gauge, type #302 stainless steel, these units are supported on stainless steel tubular posts equipped with wedge fit adjustable brackets and self-leveling feet.

MODEL R-122G — Self-supporting, die-formed galvanized shelving. Die-formed from #16 gauge steel sheets, supported on high carbon tubular steel posts equipped with vertically adjustable wedge fit brackets and self-leveling feet, hot dipped galvanized after fabrication.



MODEL R-115S — Stainless Steel Medium Duty Mobile Unit. Same specifications as R-122S, with posts on 4 stem-type swivel casters, two of which are equipped with brakes.

MODEL R-115G — Galvanized Medium Duty Mobile Unit. Same specifications as R-122G shelving, with posts mounted on 4 stem-type swivel casters, two of which are equipped with brakes.

MODEL R-117S — Stainless Steel Heavy Duty Mobile Unit. Same specifications as R-122S shelving, mounted on 4 stem-type swivel casters, two of which are equipped with brakes. Solid lower deck insures rigidity and provides additional shelf space.

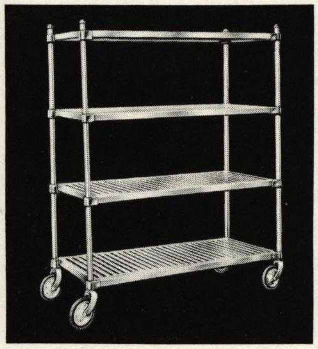
MODEL R-117G—Galvanized Heavy Duty Mobile Units. Same specifications as R-122G shelving, mounted on 4 stem-type swivel casters, two of which are equipped with brakes. Solid lower deck insures rigidity and provides additional shelf space.

Optional — back ledges for shelving.

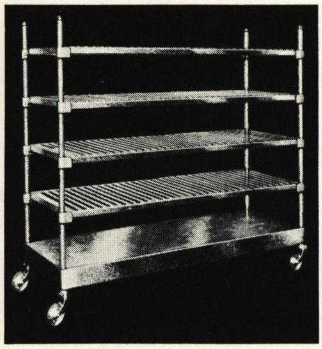
Optional — Back and/or side ledges to prevent falling. Bumper wheels to prevent marking or scuffing of walls.

SLATTED GALVANIZED

MODEL R-120 — Galvanized self-supporting unit Shelving is fabricated of #12 gauge steel with 1" wide slats flush riveted 1" apart. Posts are equipped with stainless steel adjustable, self-leveling feet.



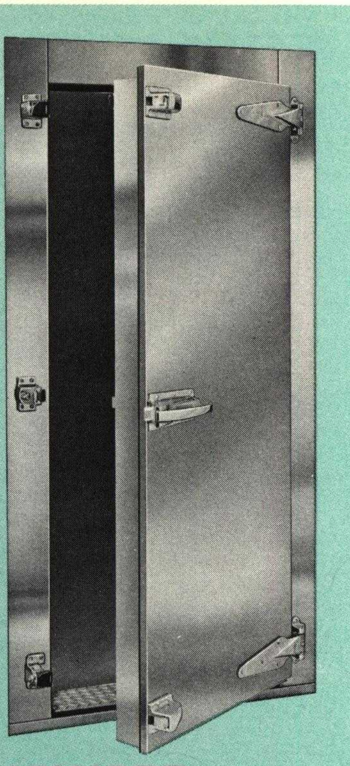
MODEL R-114 — Slatted Galvanized Medium Duty Mobile Unit. This maneuverable unit has posts mounted on 4 stem-type swivel casters, two of which are equipped with brakes and insure maximum ease of maintenance in refrigerated areas.



MODEL R-116 — Slatted Galvanized Heavy Duty Mobile Unit. The heavy duty chassis is equipped with 4 stem-type swivel casters, two of which are equipped with brakes. Solid lower deck insures rigidity and provides additional shelf space.

Optional — Back ledges for shelving.

Optional — Back and/or side ledges to prevent materials from falling; Bumper wheels to prevent marking or scuffing of walls.



JEWETT DE LUXE ALL STAINLESS STEEL WALK-IN REFRIGERATOR DOORS

The exterior of the door and door frame is covered with 18 gauge stainless steel (#4 finish) carried around the overlap of the door with all corners welded and ground smooth. The door sill is 12 gauge stainless steel. The interior frame jambs are 18 gauge stainless steel (#4 finish). The interior door pan is 20 gauge stainless steel with corners welded and ground smooth. Door pan is protected by a 14" high 14 gauge stainless steel kick plate. The breaker strip is of rigid, high gloss, heat-insulating composition approximately 1/8" thick. The insulation includes 2 or more courses of 2" thick styrofoam #33. The approved sponge-type gasket, fastened with concealed stainless steel fasteners, is impervious to grease.

Each door is fitted with heavy-duty, forged bronze, chrome plated hardware, including self-closing fastener, adjustable strike and 2-point latch. The inside door has release mechanism which operates even when exterior door is locked. The ball-bearing action door is fitted with 3 hinges, butt-strap type, 16" long. Heater cables are installed in door frames for freezer room doors for the prevention of frost build-up. We will furnish complete specifications and drawings for your requirements without obligation.

Design or specifications subject to change without notice

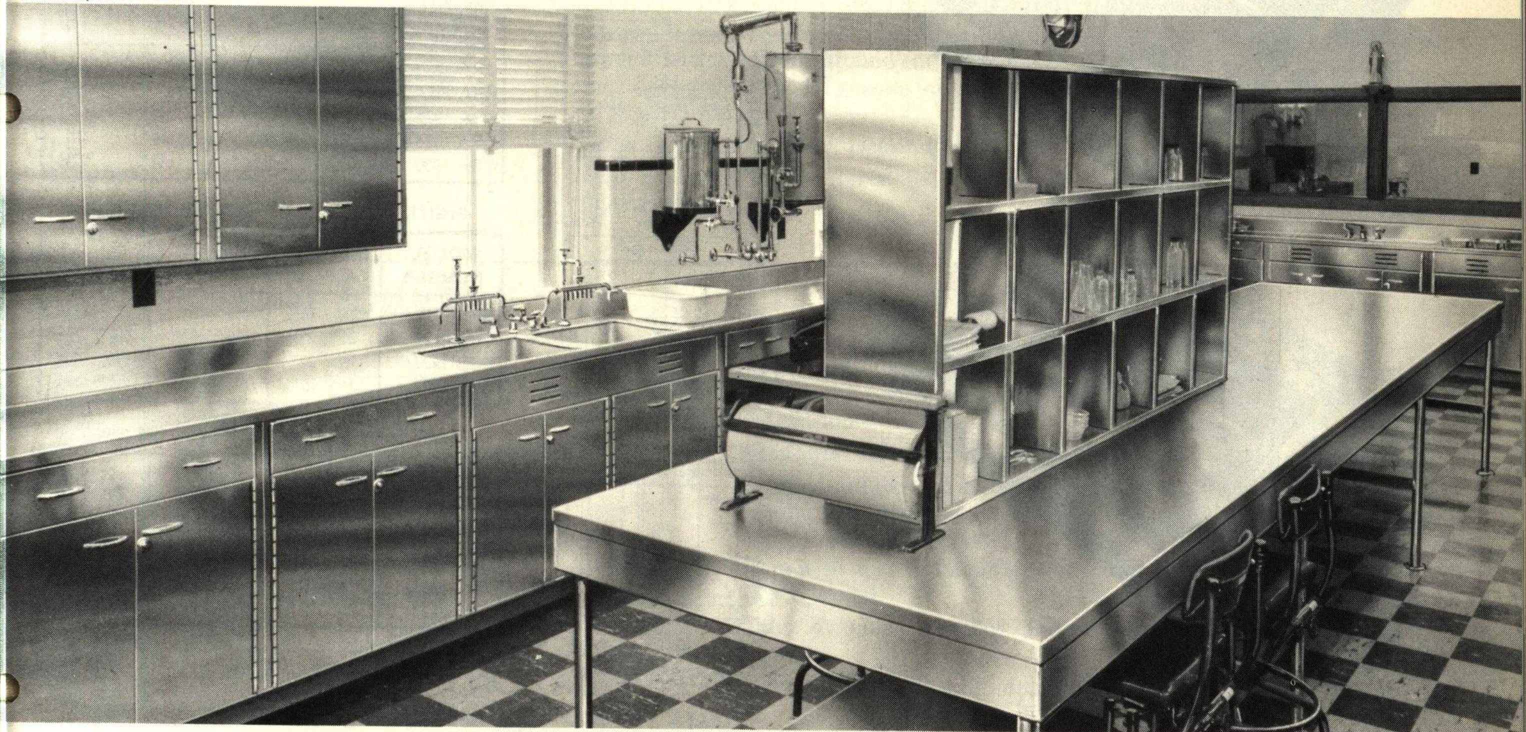
THE JEWETT REFRIGERATOR CO., INC. 2 Letchworth St., Buffalo 13, N.Y.

FORM No. 1059 LITHO in U.S.A.

A.I.A. FILE NO. 29-H-6

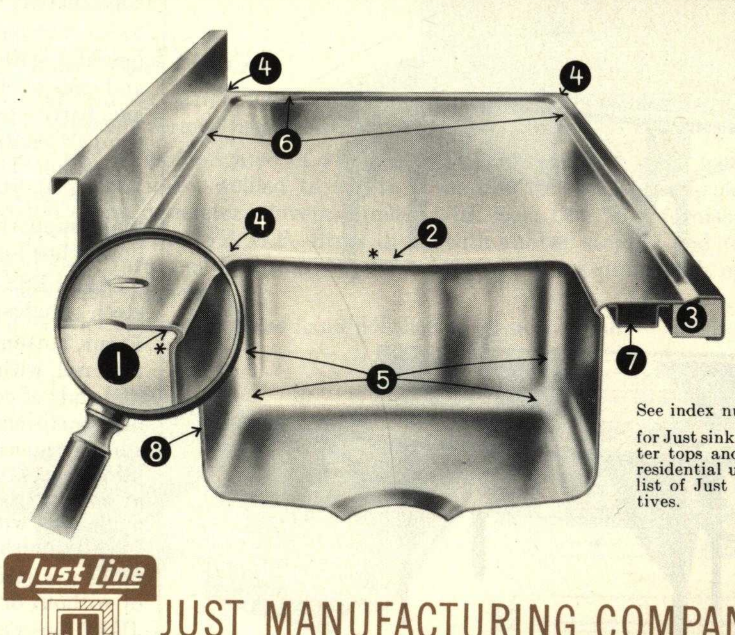
Just

STAINLESS STEEL EQUIPMENT FOR HOSPITALS, SCHOOLS & LABORATORIES



ONLY JUST RADIILUXE GIVES YOU ALL THESE FEATURES IN STAINLESS STEEL SINKS AND COUNTERS.

*1) *Patented Anti-Splash Rim around the entire perimeter of the bowl.*
*2) *Patented Double Pitched Drainboards gradually sloping lengthwise to the bowl and sidewise to center of drainboards, without grooves or creases.*
3) *Wood or steel frame around the front and ends, facilitates fastening to the cabinets.*
4) *Seamless construction, all joints electrically welded and polished.*
5) *Radius corners in bowls . . . vertical and horizontal.*
6) *Raised edges are die-drawn without seams or crevices.*
7) *U-type structural channels extending the full length of drainboards and counter tops for utmost rigidity and reinforcement.*
8) *Complete and effective sound deadening of the entire underside of drainboards, counter tops and bowls.*



See index number $\frac{25b}{JU}$ for Just sink tops, counter tops and bowls for residential use, and for list of Just representatives.

A.I.A. FILE NO. 29-H-6

Just Line

JL

JUST MANUFACTURING COMPANY
9233 KING AVENUE, FRANKLIN PARK, ILLINOIS

THE JUST LINE QUALITY STAINLESS STEEL EQUIPMENT

CLASSROOM SINKS

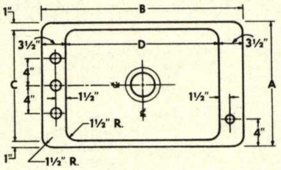
SPECIFICATIONS

Fabricated of #18 gauge type 302 stainless steel. Satin finish on interior and top of flange. Underside thoroughly sound deadened. 2″ wide partition between compartments of double bowls.

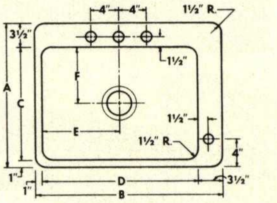
Order by model number.

Standard Classroom Sinks are furnished with either stainless steel Crumb Cup Strainers or chrome plated brass flat strainers (1½″ tailpiece) as desired.

Special sink sizes and special drain and faucet punchings available on request.

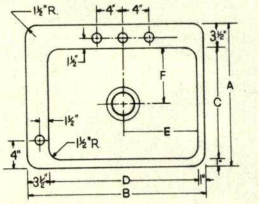


MODEL NUMBER	Size O.D. A	Size O.D. B	Size I.D. C	Size I.D. D
CRA-1624	16″	23½″	14″	16½″
CRA-2124	21″	23½″	19″	16½″
CRA-1921	18½″	21″	16½″	14″
CRA-1926	18½″	26″	16½″	19″
CRA-1930	18½″	29½″	16½″	22½″



RIGHT HAND LEDGE CLASSROOM SINK

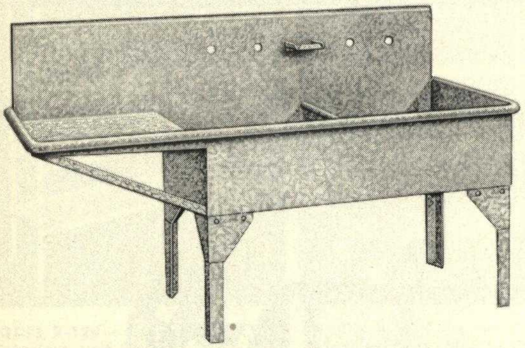
MODEL NUMBER	Size O.D. A	Size O.D. B	Size I.D. C	Size I.D. D	E	F
CRB-2119	21″	18½″	16½″	14″	7″	8¼″
CRB-2124	21″	23½″	16½″	19″	9½″	8¼″
CRB-1927	19″	27″	14½″	22½″	11¼″	7¼″
CRB-2127	21″	27″	16½″	22½″	11¼″	8¼″

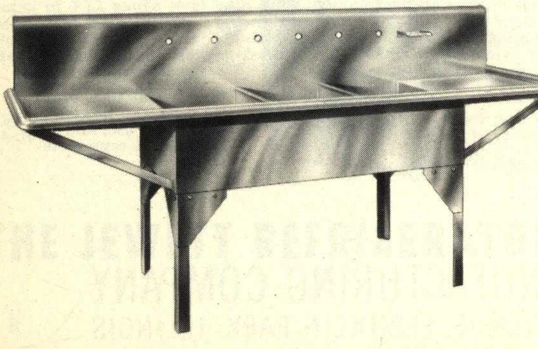


LEFT HAND LEDGE CLASSROOM SINK

MODEL NUMBER	Size O.D. A	Size O.D. B	Size I.D. C	Size I.D. D	E	F
CRC-2119	21″	18½″	16½″	14″	7″	8¼″
CRC-2124	21″	23½″	16½″	19″	9½″	8¼″
CRC-1927	19″	27″	14½″	22½″	11¼″	7¼″
CRC-2127	21″	27″	16½″	22½″	11¼″	8¼″

SCULLERY SINKS





SPECIFICATIONS

GALVANIZED: Fabricated of #12 gauge steel, seamless welded construction, and entire unit hot-dip galvanized after fabrication.

Front, bottom and back of compartments formed of one sheet of material, with integral 1½″ roll rim extending full length at front and ends of compartments and drainboards. Compartment ends and partitions electrically welded in place. Partitions between compartments bordered with tubing for extra reinforcement and protection. Drainboards pitched from 2″ below top of roll rim at ends, to 2½″ below rim at compartments.

Sinks supported on detachable galvanized angle legs with hold-down clips for bolting sink to floor.

STAINLESS STEEL: Fabricated of #14 gauge 18-8 stainless steel, seamless welded construction.

Front, bottom and back of compartments formed of one sheet of material, with integral 1½″ roll rim extending full length at front and ends of compartments and drainboards. Compartment ends and partitions electrically welded in place. Partitions between compartments bordered with stainless tubing. Drainboards pitched from 2″ below top of roll rim at ends, to 2½″ below rim at compartment. Sinks supported on detachable stainless steel angle legs with hold-down clips. All exposed surfaces polished to satin finish.

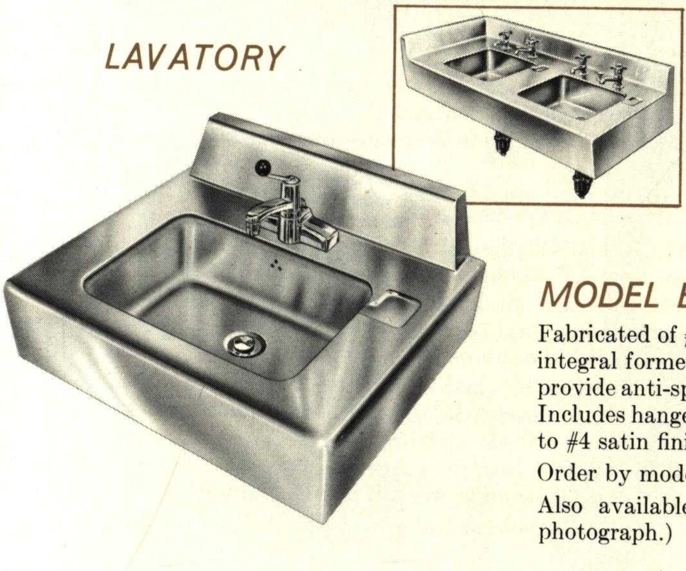
Sinks available in single, double and triple compartments with or without drainboards.

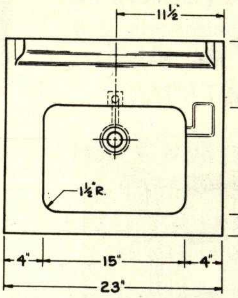
JUST Line Galvanized and Stainless Steel Scullery Sinks are also available with cove corner compartments when specified.

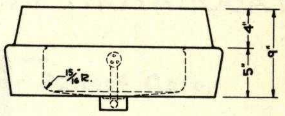
THE
JUST
LINE

QUALITY STAINLESS STEEL EQUIPMENT

LAVATORY







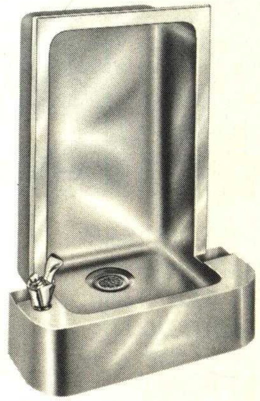
MODEL B-21429 SPECIFICATIONS

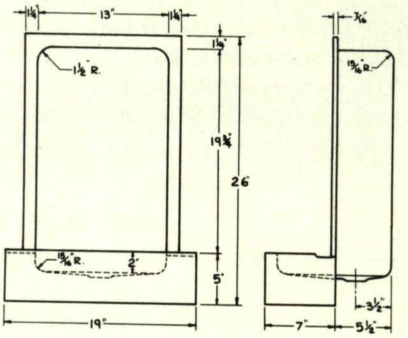
Fabricated of #18 gauge type 302 stainless steel, fully welded construction, with integral formed backsplash. Bowl seamless electrically welded in place so as to provide anti-splash rim around entire perimeter. Die-formed depressed soap dish. Includes hanger clip and gussets for wall mounting. All exposed surfaces polished to #4 satin finish.

Order by model number. Detail drawings will be sent upon request.

Also available in one piece batteries of two or more bowls. (See insert photograph.)

DRINKING FOUNTAIN





MODEL C-21399 SPECIFICATIONS

Fabricated of #18 gauge type 302 stainless steel, fully welded construction, with formed flanges for close fitting, semi-recessed installation.

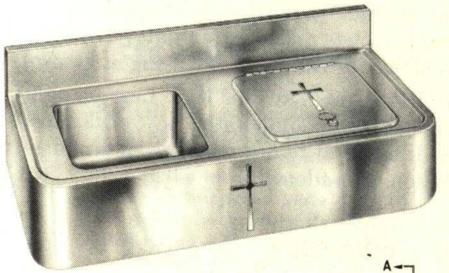
All interior corners of body and receptor coved for easy cleaning.

Exposed surfaces polished to #4 satin finish. Furnished with push button, self closing bubbler, mounted on ledge, either left or right, above spill line of receptor. Also with chrome plated brass drain with open flat strainer and 1½″ tailpiece connection. Glass filler optional.

Order by model number. Detail drawings will be sent upon request.

Fully recessed and wall hung models also available.

SACRARIUM SINKS



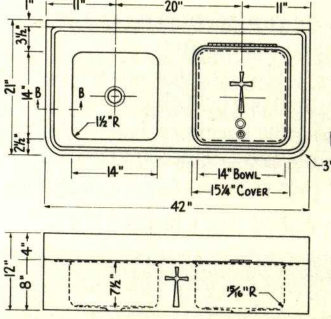
SPECIFICATIONS

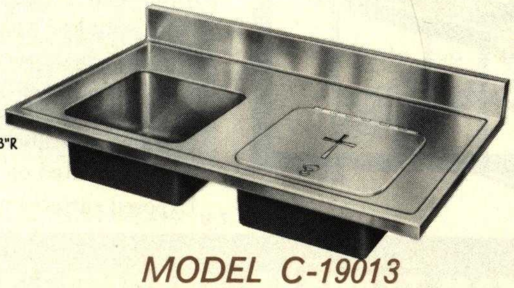
Top fabricated of #16 gauge type 302 stainless steel, fully welded construction, with integrally formed backsplash.

Bowls and cover fabricated of #18 gauge type 302 stainless steel, with bowls seamless electrically welded to top in a manner to provide anti-splash rim around entire perimeter. Covers supplied with lock. One bowl furnished with JUST LINE #15-1 ½″ C.P. Brass drain with rubber stopper and tailpiece, other bowl furnished with our #15 FS-1 ½″ C.P. Brass drain with open flat strainer and tailpiece.

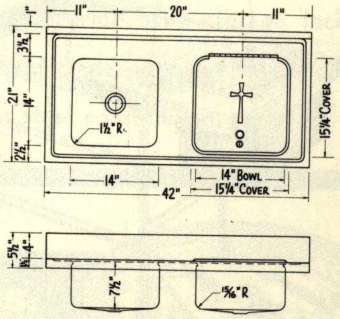
All exterior exposed surfaces hand polished to #4 satin finish.

MODEL C-19014





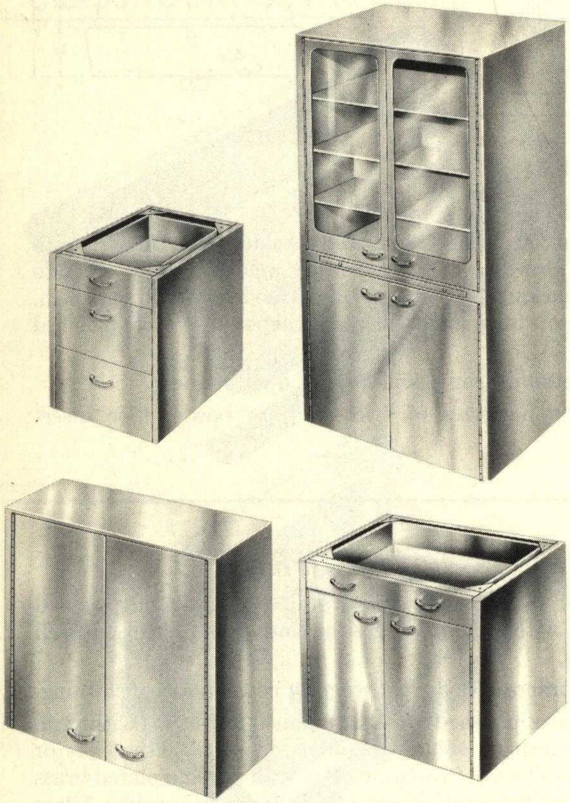
MODEL C-19013



JUST MANUFACTURING COMPANY, 9233 KING AVENUE, FRANKLIN PARK, ILLINOIS

THE JUST LINE QUALITY STAINLESS STEEL EQUIPMENT

CABINETS FOR HOSPITAL AND LABORATORY INSTALLATIONS



The New Just Line stainless steel cabinets conform to the highest standards of construction and the durability of type 302 18-8 stainless steel combine to assure installations suitable for lifetime service.

SPECIFICATIONS

WALL CABINETS shall be of flush type construction. Sizes range from 15″ through 48″ in length, from 24″ through 48″ in height, and 12¾″ in depth. Material shall be not less than 18 gauge stainless steel. Front face of cabinet shall be seamless welded, polished appearance.

BASE CABINETS shall be of flush type construction. Sizes range from 15″ through 48″ in length, 30½″ standard height (36″ overall with sub base and top) and 24¾″ in depth. Material shall be not less than 18 gauge stainless steel. Front face of cabinet shall be seamless welded, polished appearance.

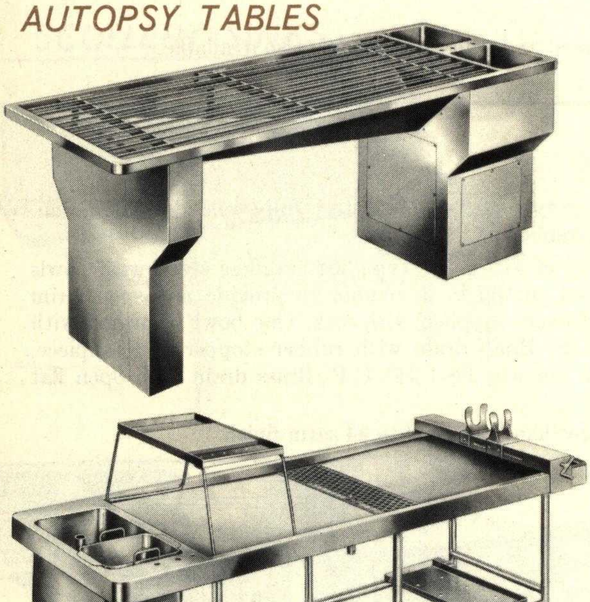
FINISH—All exposed exterior surfaces shall be polished to #4 satin finish.

All interior surfaces, including interiors of glazed door units and open shelving units shall be #2B finish, cleaned but not polished.

ACCESSORIES AND SPECIAL UNITS—The Just Line of stainless cabinets includes accessories and special features such as slope tops, sub bases, sliding shelves, special drawers, narcotic lockers, ice and plaster bins, recessed cabinets, open shelving, and many items not illustrated here.

A brochure and specifications will be mailed on request.

AUTOPSY TABLES

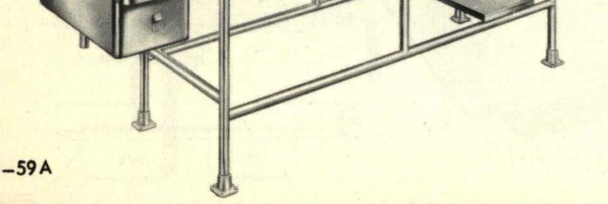


MODEL C-15178 SPECIFICATIONS

Table and basins fabricated of #16 gauge type 302 stainless steel, seamless welded construction, with interior radius corners for easy cleaning.

Rack consists of ⅝″ O.D. stainless tubular rods seated in stainless bar supports, allowing complete drainage of fluids from work level. Entire rack disassembles for complete cleansing after use.

Table supported on 1¼″ I.P.S. painted pipe legs. Legs, supply and drain connections concealed by stainless steel base enclosures fitted with access panels. Interior of base enclosures and underside of basins thoroughly sound deadened.



MODEL C-13867 SPECIFICATIONS

Table and Basins fabricated of #16 gauge type 302 stainless steel, seamless welded construction.

Table pitched to center drain with removable perforated stainless steel grating. Furnished with sliding instrument tray with cork cutting board, removable specimen basin, sliding tray for specimen bottle, adjustable head clamp (optional).

Table mounted on 1⅝″ O.D. stainless tubular leg frame.

Exposed surfaces polished to #4 finish.

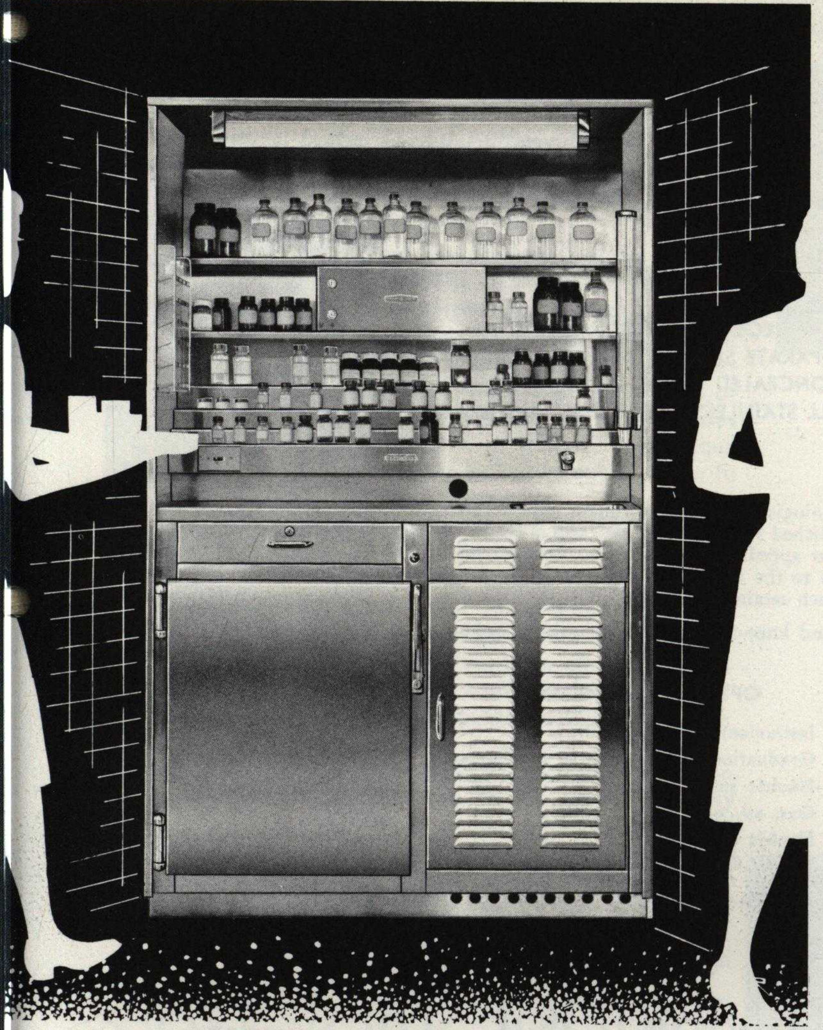
PRINTED IN U.S.A.

JUST MANUFACTURING COMPANY, 9233 KING AVENUE, FRANKLIN PARK, ILLINOIS

MARKET FORGE CO.

MEDI-PREP®

MEDICINE STATION



All necessary components for medicine storage, preparation and dispensing combined in **one** scientifically designed packaged unit.

SAVES NURSES' TIME —
allows more hours for **Patient Care.**

REDUCES ERROR —
all medicines easily seen and reached without distraction.

SAVES SPACE —
combines many units into one self-contained installation.

ELIMINATES DESIGN PROBLEMS —
no need to plan special units.

COSTS LESS TO INSTALL —
only one water, drain and electric connection.

CUTS CONSTRUCTION COSTS —
eliminates separate plumbing and room lighting.

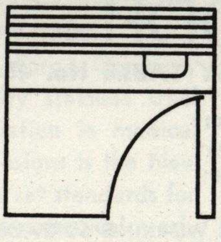
COSTS LESS THAN SEPARATE UNITS —
much less than custom units.

EASY TO CLEAN AND MAINTAIN —
all stainless steel; condensing unit guaranteed 5 years.

The MEDI-PREP MEDICINE STATION is the result of extensive time and motion studies taken in collaboration with hospital consultants and architects.

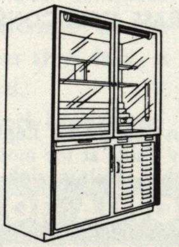
Send for illustrated folder H-129 and detailed spec. sheet H-6950 or call our nearest representative as listed on page 4.

MARKET FORGE MEDI-PREP MEDICINE STATION MAY BE INSTALLED IN *EXPOSED* LOCATION OR IN A *SEPARATE* ROOM



SEPARATE ROOM

In planning new construction, the most popular arrangement is the unit without doors, enclosed in a small room.



SECURITY DOORS

(OPTIONAL)

For existing installations where it is not practical to have a separate room, the upper portion of the Medi-Prep is available with tempered plate glass doors in a heavy duty stainless steel frame with separate lock.

ELEVEN TIME AND SPACE SAVING FEATURES . . .

- Tiered medicine shelves for convenient, efficient arrangement.
- Double locking narcotics cabinet complete with automatic warning light.
- 4 cu. ft. refrigerator with 1/8 horsepower, 115 volt compressor.
- Stainless steel rectangular sink with radius corners.
- Push button cold water faucet.
- Cup dispenser handy to faucet.
- Medicine card rack for safe, accurate time control.
- Full width, no glare fluorescent light.
- Two large shelves provide extra storage facilities.
- Waste cup disposal chute with removable container.
- Lifetime stainless steel construction.

SUGGESTED SPECIFICATIONS

One (1) only Market Forge MEDI-PREP Medicine Station Model No. 45-6000. All stainless steel construction. Overall dimensions
__________ wide, 20" deep and 80" high. Shall be as manu-
(48" or 60")
factured by the Market Forge Company, Everett, Massachusetts.

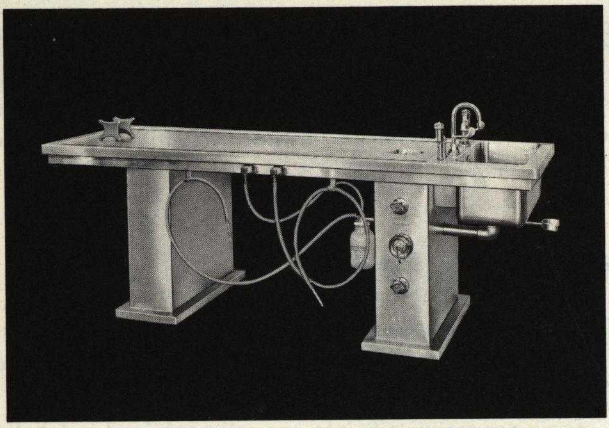
TRADEMARK MEDI-PREP REG. U.S. PAT. OFF.

MARKET FORGE COMPANY, EVERETT MASS.

EST. 1897

in U.S.A.   © MARKET FORGE CO. 1959

MARKET FORGE AUTOPSY TABLES



MIAMI MODEL

AUTOPSY TABLE No. 45-5200

- LENGTH 101''
- WIDTH 32½''
- HEIGHT 34''

- ONE-PIECE WORKING SURFACE.
- SEPARATE SINK.
- CONCEALED PIPING.
- ALL STAINLESS STEEL CONSTRUCTION.

MIAMI MODEL AUTOPSY TABLE NO. 45-5200

The Miami Model Autopsy Table meets the requirements of those pathologists who prefer a plain unperforated table top with a separate integral sink. The unbroken surface of the polished stainless steel table top is mounted on pedestals which conceal and enclose all piping, resulting in a neat appearing, durable, and easy to clean installation. A raised rim around the entire surface of the top pitches to the drain, assuring positive removal of all liquids to the waste line through a large removable strainer which retains small parts.

The built-in sink is provided with a wrist-controlled water supply and knee-controlled drain valve allowing convenient facilities for washing of parts or rinsing of sponges.

STANDARD EQUIPMENT

- Flexible rubber hose and nozzle for irrigation.
- Tempered water through lever controlled mixing valve.
- Water powered aspirator with hose, nozzle and graduated bottle for suction purposes.
- Removable rubber headrest.
- All stainless steel construction.

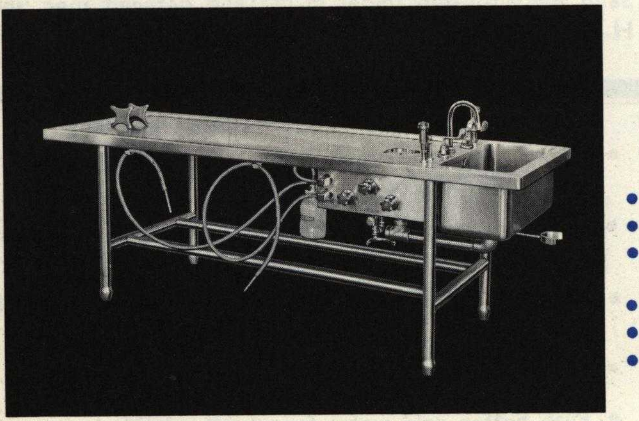
OPTIONAL EQUIPMENT

- Instrument and cutting tray.
- Graduation of top edge in centimeters.
- Electric suction pump.
- Gas, air, or electrical outlets.
- Electric disposer unit.
- Trough Flushing System.

Specification Sheet Number B-6902 providing complete detailed information on the Miami Model Autopsy Table will be sent promptly upon request.

MIAMI MODEL SUGGESTED SPECIFICATIONS

One (1) only, Miami Model No. 45-5200 Market Forge Autopsy Table. To be all stainless steel construction. Provide one (1) rubber headrest, stainless steel removable instrument tray, and graduation of top edge in centimeters. Overall dimensions shall be 101'' long, 32½'' wide, and 34'' high. To be as manufactured by Market Forge Company, Everett, Massachusetts.



CAMBRIDGE MODEL

AUTOPSY TABLE No. 45-5300

- LENGTH 101''
- WIDTH 32½''
- HEIGHT 34''

- SMOOTH WORKING SURFACE.
- BUILT-IN SINK.
- ALL STAINLESS STEEL CONSTRUCTION.

CAMBRIDGE MODEL AUTOPSY TABLE NO. 45-5300

The Cambridge Table was designed by Doctor H. E. MacMahon, Pathologist-in-Chief, New England Medical Center, Boston, Mass., and was built to provide a completely equipped Autopsy Table at the most economical price. The smooth working surface is one-piece, polished stainless steel, with a built-in sink at one end, supported by a tubular frame mounted on adjustable sanitary feet.

The top slopes to the drain at one end and the edge of the table is raised to assure positive removal of all liquids to the waste line. A perforated removable strainer is provided to prevent the loss of small parts. The sink is equipped with a wrist-controlled water supply and knee-controlled drain valve for ease of operation. The entire table is fabricated of stainless steel for durability, appearance, and ease of cleaning.

STANDARD EQUIPMENT

- Flexible rubber hose and nozzle for irrigation.
- Water powered aspirator with hose, nozzle and graduated bottle for suction purposes.
- Rubber headrest.
- All stainless steel construction.

OPTIONAL EQUIPMENT

- Instrument and cutting tray.
- Graduation of top edge in centimeters.
- Electric suction pump.
- Gas, air, or electrical outlets.
- Electric disposer unit.
- Trough Flushing System.

Specification Sheet Number H-6903 providing complete detailed information on the Cambridge Model Autopsy Table will be sent promptly upon request.

CAMBRIDGE MODEL SUGGESTED SPECIFICATIONS

One (1) only Cambridge Model No. 45-5300 Market Forge Autopsy Table. All stainless steel construction. Provide one (1) rubber headrest, stainless steel instrument tray, and graduation of top edge in centimeters. Overall dimensions shall be 101'' long, 32½'' wide, 34'' high. To be as manufactured by Market Forge Company, Everett, Massachusetts.

BOSTON MODEL

AUTOPSY TABLE No. 45-5150

with Rota-Lift adjustment

• LENGTH 84½" • WIDTH 30⅝" • HEIGHT 32½" to 37"

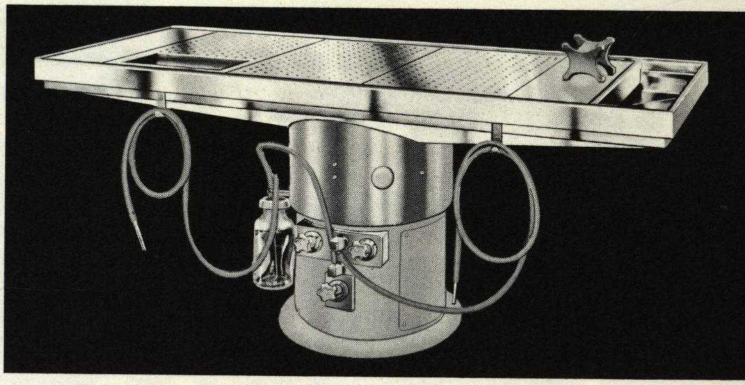
The original Boston Model Autopsy Tables were installed in the Boston City Hospital in 1931. Continued development has refined this table into the most modern piece of equipment for the pathologist.

The Rota-Lift top provides adjustment of the working height to the most comfortable operating position and may also be used during a lengthy autopsy to provide a welcome change in procedure to relieve fatigue and strain. The top is easily raised or lowered by a foot operated hydraulic pump. The top, which rotates in an arc of 90°, is especially desirable in installations where autopsies are observed or in which space is limited. The unique Rota-Lift top may be positively locked in any position to provide maximum operating convenience.

The drainage of the Boston Model provides for the complete elimination of fluids through its deep trough construction and perforated top panels while retaining small parts and instruments. The top perforated panels are removable for easy cleaning of both panels and trough.

The central pedestal which contains all piping, provides a sturdy sanitary base. The control valves, hose connection and suction bottle are mounted within easy reach on the pedestal.

The optional equipment listed at the right should also be considered for use with the Boston Model Autopsy Table to add to its utility and convenience.



STANDARD EQUIPMENT:

- Flexible rubber hose and nozzle for irrigation.
- Water-powered aspirator with hose, nozzle and graduated bottle for suction purposes.
- Removable rubber headrest.
- Vertical adjustment mechanism.
- All stainless steel construction.

SPECIFY OPTIONAL EQUIPMENT (for detailed information on the following refer to bulletin No. H-6904)

- Instrument and cutting tray.
- Stainless steel sponge bowl.
- Graduation of top edge in centimeters.
- Electric suction pump.
- Stainless steel base.
- Trough flushing system.
- Gas, air, or electrical outlets.
- Electric disposer unit.
- Ventilation system to exhaust room air through table.

BOSTON MODEL AUTOPSY TABLE No. 45-5100

Same as above except without hydraulic vertical adjustment mechanism.

Write for specification sheet No. H-6900 or General Autopsy Table Bulletin No. H-665.

BOSTON MODEL SUGGESTED SPECIFICATION

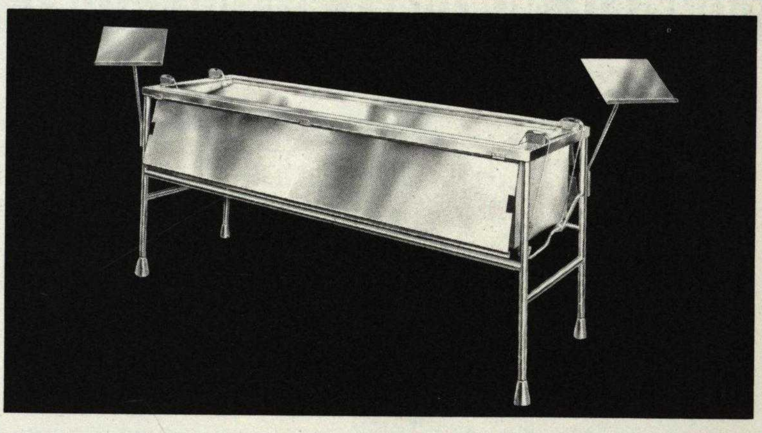
One (1) only Boston Model No. 45-5150 Market Forge Autopsy Table. All parts including pedestal shall be stainless steel with chrome plated base ring. Top shall rotate in an arc of 90° and be vertically adjustable. One top panel shall be provided with stainless steel sponge bowl. Also provide one (1) rubber headrest, stainless steel removable instrument tray, and graduation of top edge in centimeters. Overall dimensions shall be 84½" long, 30⅝" wide, 32½" lowered height and 37" raised height. To be as manufactured by Market Forge Company, Everett, Massachusetts.

NEW YORK MODEL

DISSECTING TABLE No. 45-5500

For more than 30 years, Market Forge Company has designed and manufactured quality stainless steel Dissecting Tables, primarily for installation in medical schools. One of the widely accepted designs is the New York Model Table (illustrated), which has set standards for maximum efficiency and exactness in anatomical work, instruction and study. This Model provides complete facilities for dissection as well as for storage of the cadaver. Subject, which rests on a stainless steel tray, is easily lowered into the table and covered.

Additional information on the New York Model and other designs is available on request.



PARTIAL LIST OF AUTOPSY TABLE INSTALLATIONS

FOR MORE COMPLETE LISTING ASK FOR FORM NO. H-37

St. Margaret's Hosp., Montgomery, Ala. (BW)
Maricopa Cty. Hosp., Phoenix, Ariz. (BW)
Univ. of Arkansas, Little Rock, Ark. (M)
Fresno General Hospital, Fresno, Calif. (C)
Peninsula Hosp., Burlingame, Calif. (C)
Morningside Hospital, Los Angeles (BW)
Univ. of Cal., Medical Sciences Bldg.,San Fran., Calif. (M)
Walter Reed Army Med. Center, Washington, D.C. (C)
Univ. of Florida, Gainesville, Florida (C)
Children's Mem. Hosp., Chicago, Ill. (BW)
Mt. Sinai Hosp., Chicago, Ill. (B)
University Hospital, Chicago, Ill. (BW)
Mercy Hospital, Des Moines, Iowa (C)
Providence Hosp., Kansas City, Kansas (C)
St. Joseph Hosp., Lexington, Kentucky (C)
Mercy Hosp., New Orleans, La. (BW)
Maine Medical Center, Portland, Maine (B)
Jewish Medical Center, Baltimore (C)
Beth Israel Hosp., Boston, Mass. (B)
Mass. Gen. Hosp., Boston, Mass. (B)
New England Medical Center, Boston, Mass. (C)
Butterworth Hosp., Grand Rapids, Mich. (BW)
New St. Francis Hosp., Breckenridge, Minn. (BW)
Memorial Hosp. of Gulfport, Miss. (M)
Columbus Hospital, Great Falls, Montana (B)
Faith Hosp., St. Louis (BW)
Newark Beth Israel Hosp., Newark, N. J. (C)
Princeton Hosp., Princeton, N. J. (B)
St. Elizabeth Hosp., Elizabeth, N. J. (BW)
Buffalo State Hosp., Buffalo, N. Y. (C)
Beth David Hosp., New York City (B)
Hospital for Joint Diseases, N. Y. (B)
Ellis Hospital, Schenectady, N. Y. (B)
Oak Ridge Hospital, Inc., Oak Ridge, N. Carolina (C)
Trinity Hospital, Minot, N. Dakota (M)
Children's Hospital, Columbus, Ohio (B)
New County Morgue, Cleveland, Ohio (C&B)
Central State Hosp., Norman, Oklahoma (BW)
Germantown Dispensary & Hosp., Germantown, Pa. (B)
Children's Hospital of Philadelphia, Phila. (C)
Jefferson Hospital, Philadelphia (B)
McKeesport Hospital, McKeesport, Pa. (B)
Montifiore Hosp., Pittsburgh, Pa. (B)
St. Joseph's Hospital, Reading, Pa. (BW)
Woonsocket Hosp., Woonsocket, R. I. (B)
Baptist Mem. Hosp., Memphis, Tenn. (C)
Methodist Hospital, Dallas, Texas (B)
Springfield Hospital, Springfield, Vt. (C)
Virginia Baptist Hosp., Lynchburg, Va. (C)
St. Francis Cabrini Hospital, Seattle, Wash. (M)
Mt. Sinai Hosp., Milwaukee, Wis. (B)

B—Boston Model with Vertical Adjust. BW—Boston Model Without Adjustment M—Miami Model C—Cambridge Model

MARKET FORGE COMPANY EVERETT 49, MASS

MARKET FORGE MORTUARY EQUIPMENT

MORGUE PLANNING SERVICE

Market Forge Company now has available a complete MORGUE PLANNING SERVICE to aid architects and hospital personnel in laying out new or renovated morgue areas.

Simply send us a sketch of the area available, with room dimensions and location of doors and windows. At no obligation, we will prepare a scale layout of the morgue and include recommendations for required equipment.

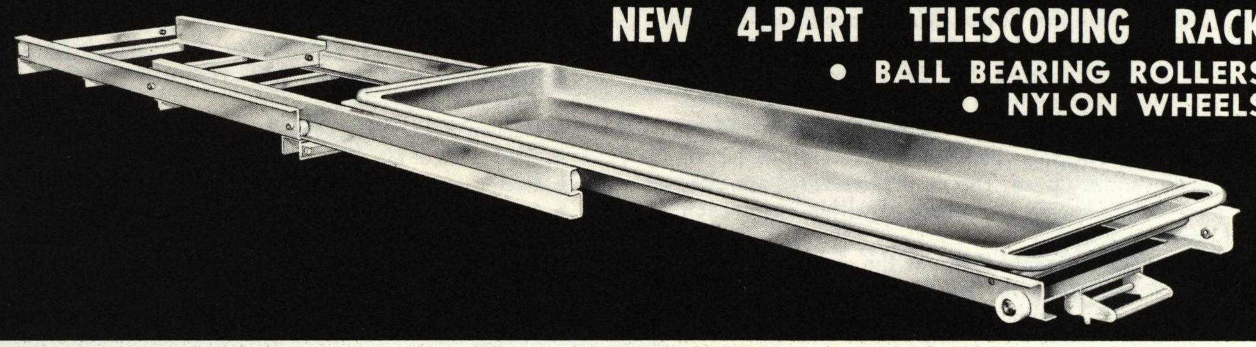
Market Forge manufactures a complete line of morgue equipment, designed in cooperation with pathologists to meet specific autopsy room requirements.

Write for new brochure describing our Morgue Planning Service. Form No. H-550.

Your inquiry is invited on the following:

Mortuary Refrigerators
Mortuary Sinks
Work Counters and Tables
Instrument Cabinets
Specimen Cabinets
Portable Observation Stands
Autopsy Tables
Dissecting Tables
Instrument Tables
Cadaver Handling Equipment

MORTUARY RACKS



NEW 4-PART TELESCOPING RACK

- BALL BEARING ROLLERS
- NYLON WHEELS

Market Forge four part mortuary racks incorporate a construction and design planned to provide for the most efficient storage and handling of cadavers.

Available in end opening, side operated and double end pass-through models in sizes to meet all requirements, these racks feature the automatic trip handle for locking carriage and tray in place . . . flared trays for ease of cleaning . . . sealed-in ball bearing rollers, nylon wheels, and rugged construction for maintenance-free performance. Write for descriptive folder No. R-343.

COMPLETE MORTUARY REFRIGERATORS

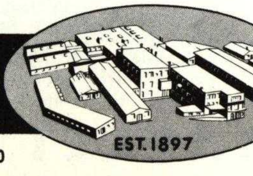
Market Forge mortuary refrigerators provide efficient facilities for the storage of cadavers. Available up to nine body capacity as standard and in larger sizes on request, the Market Forge mortuary refrigerator features all metal construction with heavy gauge polished stainless steel front.

Complete with easy-to-operate, ball-bearing telescoping racks, the refrigerator is completely insulated with odorless, vermin-proof and fireproof insulation. All metal construction provides an extremely attractive and easy-to-clean installation. All refrigerators are equipped with dial thermometer, inside light and switch, floor drains, heavy duty blower coils and air cooled condensing unit. Write for specification sheet No. H-669.

EXPERIENCED FACTORY REPRESENTATIVES from coast to coast and in Canada

ATLANTA	J. W. Parker & Associates, 133 Luckie St. NW	JAckson 4-3643
BALTIMORE	Robert M. Woodside, 12 East 21st St.	BElmont 5-5840
BOSTON	Edward Dana, c/o Market Forge Co., Everett	DUnkirk 7-4100
CHICAGO	A. G. Hester, 666 Lake Shore Drive	SUperior 7-8478
CINCINNATI	A. F. Dreyer, PO Box 34, Lockland Station	VAlley 1-2071
CLEVELAND	The Fielding-Wales Co., 1836 Euclid Ave.	CHerry 1-4895
DENVER (Boulder)	John J. Wilson, 1900 Bluebell	HIllcrest 2-0931
DETROIT (Royal Oak)	Elmer C. Zibell, 4308 Sheffield	LIberty 9-4186
HOUSTON	Allison Leonard Co., 3002 Albans Road	MAdison 3-7445
KANSAS CITY, MO.	Alvis Horn, 401 West 61st Terrace	DElmar 3-0700
LOS ANGELES	Bernard B. Greene Co., 847 Traction Ave.	MAdison 4-3878
MINNEAPOLIS	Wm. M. Ryan, 120 W. 49th St.	TAylor 2-8265
NEW YORK CITY	Herk Limperis, 527 Lexington Ave.	PLaza 3-5133
Upper New York	Tom Crawford, 24 Third Ave., Auburn	AUburn 3-6651
OKLAHOMA CITY	R. L. Williams & Co., 2200 N. W. 56th St.	VIctor 2-2636
PHILADELPHIA	E. F. Johnson Co., 5921 No. Broad St.	LIvingston 8-5806
PITTSBURGH	Frank Mathias. 293 Orchard Spring Rd.	BRowning 9-4500
PORTLAND	Verne Baxter, 8048 S. W. 54th St.	
SAN FRANCISCO	Hughdon Equipment Co.. 178 Townsend St.	YUkon 2-0888
ST. LOUIS	Golterman & Sabo Inc., 5731 Manchester Ave.	STerling 1-1422
SEATTLE	Max E. Baxter, 13000 Aurora, No. 23	EMerson 4-3605
TORONTO	The Stevens Co., 145 Wellington St. West	

MARKET FORGE COMPANY, EVERETT MASS.



litho in U.S.A.
HOSPITAL EQUIPMENT DIVISION
FORM NO. H-680

"Hospital Designed"

CASEWORK and PATIENT ROOM WARDROBES

by Maysteel

Today's Most Complete Line — Offering Truly Functional Advantages Demanded for Modern Hospital Work and Storage Areas.

Only Maysteel "Hospital Designed" Casework can provide benefits like these:

- * Ease work load of nurses, orderlies —
- * Speed work flow for increased employee efficiency —
- * Simplify inventory with improved storage facilities —
- * Provide maintenance free operation —
- * Minimize noise, clatter, banging — through "Hospital Hush" construction —
- * Facilitate Asepsis through hard, non-porous porcelain like surfaces —
- * Reduce building and remodeling costs—
- * Provide truly modern facilities —

— AS NEW TOMORROW AS THEY ARE TODAY!

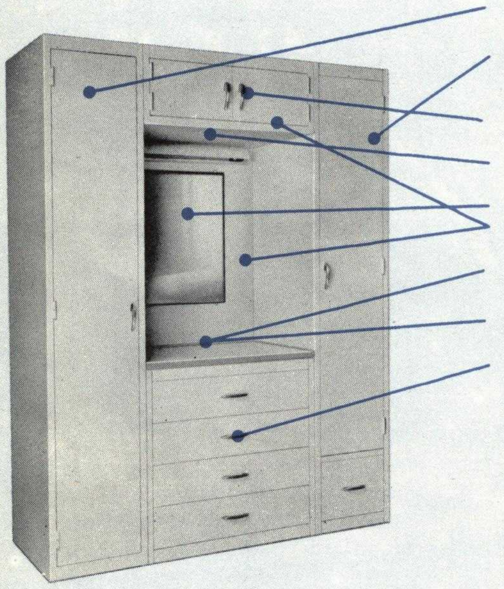
"Hospital Designed"

Maysteel

PATIENT ROOM WARDROBES

YOU BUILD YOUR OWN DESIGN ASSEMBLY FROM UNITS OF YOUR CHOICE

This Maysteel Patient Room Wardrobe Assembly is typical for a Semi-private Patient Room. Available as a Built-in or Free-standing Assembly, Provides Maximum Space Storage on Minimum Floor Area.



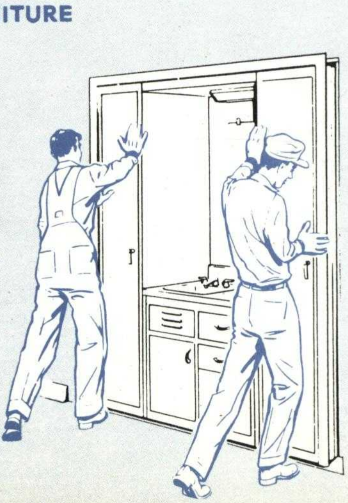
Consists of:
WR—101 Left Hand Wardrobe—
WR—110 Right Hand Wardrobe with Shoe Drawer—
WR—500 Upper Storage Cabinet—
WR—Fluorescent Light Fixture—
WR—700 Mirror-
WR—300 Back and Ceiling Liner—
WR—400 Enamel Steel Top—
WR—710 Plate Glass Top—
WR—210 Vanity With 4 Drawers—

Maysteel Wardrobes provides greater "Flexible Storage" Capacity for Patients' Belongings: Full 22" Depth Free-Hanging Area — with Hat Shelf, Clothes Rod 54" Above Floor for Dresses, Suits, Overcoats, Skirts, Coats. Clothes hang straight, not askew. Provisions for Overnight Bag, Shoes, Rubbers, Boots.

Colorful, homelike, thoughtfully styled for patient cheer and comfort, Maysteel Patient Room Wardrobes permit endless variety in attractive storage arrangements that lend individuality to every room, make easier the care of the patient. No furniture to move or disturb when bringing patients into or out of the room. Artistically finished in your choice of rugged "Hospital Designed" baked-on colors. Maysteel Wardrobes feature reinforced, insulated, rubber cushioned flush doors and drawers for quiet operation — and all the storage areas in Maysteel Wardrobes are within easy reach from the floor. These are some of the "Hospital Designed" features that reflect the quality you will be proud to own through the years.

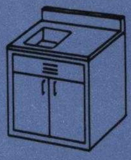
ASSEMBLE LIKE BUILDING BLOCKS . . . MOVE IN LIKE FURNITURE

Because Maysteel Patient Room Wardrobes require no floor, wall or ceiling preparation, the units are completely assembled on the site in their planned combinations. Each unit or section is moved into place like a piece of furniture. The complete Wardrobe is assembled in minutes with no additional framing or finishing details needed.

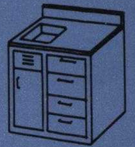


LAVATORY UNITS

With Stainless Steel, Ceramic, or Cast Iron Enameled Sinks.



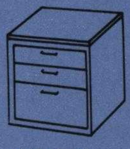
WR-220
Doors Only



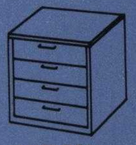
WR-230
1 Door and 4 Drawers

VANITY UNITS

With Plastic or Steel Counters



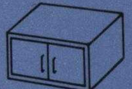
WR-200
3 Drawer



WR-210
4 Drawer

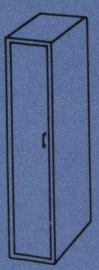
UPPER STORAGE UNIT

Easily reached from floor

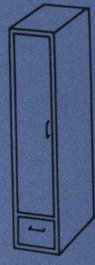


WR-500

SINGLE WARDROBES

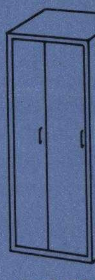


WR-101

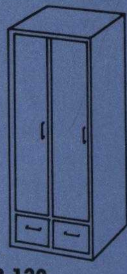


WR-110
With Drawer

DOUBLE WARDROBES



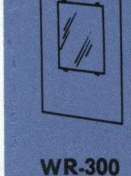
WR-120



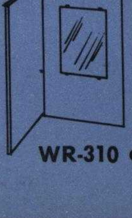
WR-130
With Drawers

WALL AND CEILING LINERS

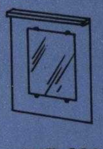
With Optional Fluorescent Light and Mirror



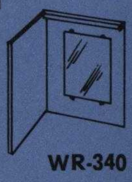
WR-300



WR-310 or 320



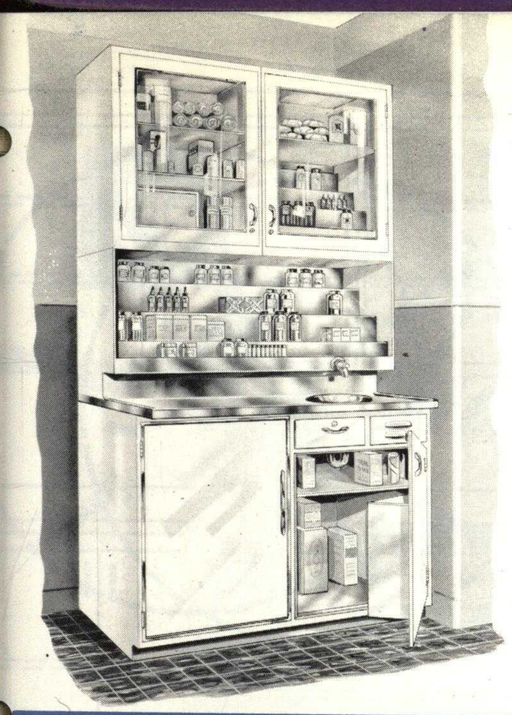
WR-330



WR-340
or 350

"Hospital Designed"

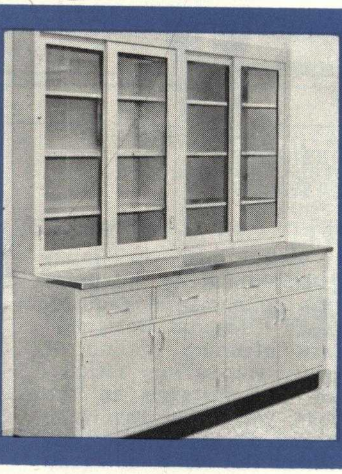
Maysteel
CASEWORK



MEDICATION PREPARATION CENTER—The ultimate in studied storage for nursing areas and utility rooms — expansible and flexible. Provides Visible Tiered Medication Storage, Double-locked Narcotic Locker, Locked Medication Area, Refrigerated Storage, Sink with Full Depth Working Surface. Needle Storage, Spacious Under Counter Bulk Storage.

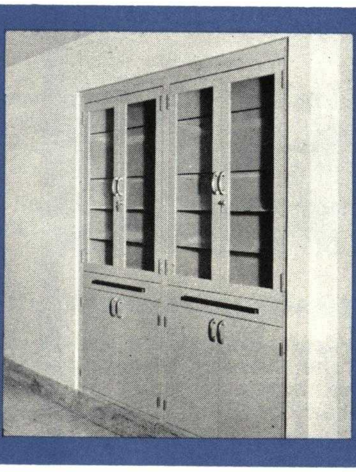
Every detail is planned for improved work-flow efficiency, time-saving, step-saving convenience that assists your hardworking nursing staff — helps make patient care easier, and working conditions a source of continuing satisfaction.

Casework that reflects careful planning for today's needs and tomorrow's expansion — confirming, years from now, the worth of Maysteel's "Hospital-Designed" advantages.

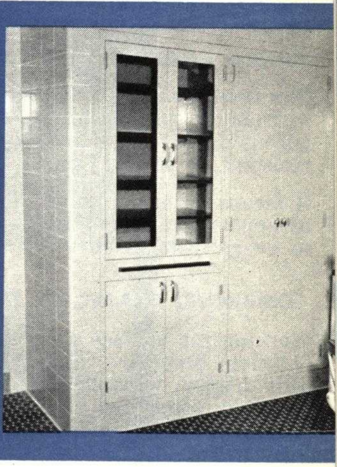


Wall Storage—Sliding doors, counter cabinet, with stainless steel or formica ledge, undercounter base cabinet.

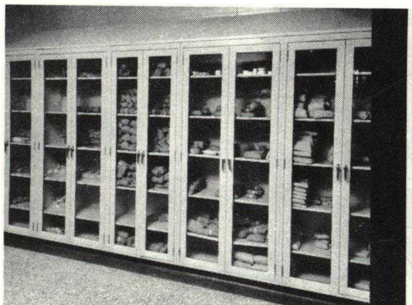
Wall and Base Cabinet — With double locked Narcotic Locker, base cabinets with drawers and or adjustable shelves.



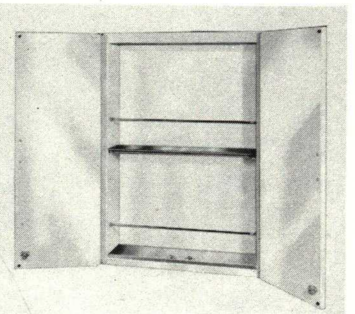
Instrument Storage Cabinets — Visible storage with pull-out shelves and adjustable stainless steel, glass, or baked enamel storage shelves.



All Purpose Storage Cabinets — Combining visual and concealed storage with glass, stainless steel, or baked enamel shelves.



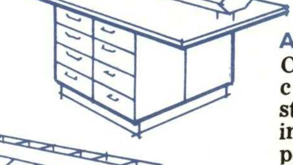
Full Height Storage Cabinets — Provide visual inventory, have silent-action glass doors, five adjustable shelves of stainless steel or baked enamel. Duplicate with solid steel doors for non-visual storage. Sloping top eases cleaning and sanitation.



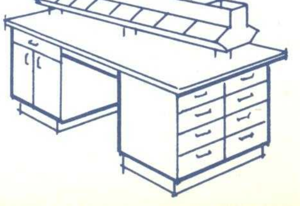
Bed Pan Storage Cabinet — Unit holds bed pans and urinals. Available in several designs, to accommodate the practices followed in your hospital.

SORTING WORK COUNTER
Versatile island type unit stainless steel sorting bins and working surface, adaptable to many areas. Choice of base units with drawers, open or closed shelves — 48" wide, in varying lengths.

ILLUSTRATING 3 OF THE VERSATILE ARRANGEMENTS OF THE SORTING WORK COUNTER.



Above — Sorting Counter with center drawer storage and working space for four people.



Left — Sorting counter with 2 4-drawer cabinets at one end and 2 double door cabinets at other end.

WHY Maysteel "Hospital Designed" CASEWORK ?

Casework, a major equipment investment, falls into the category of "the best is none too good." Used 24 hours a day, every day, good casework must be engineered with an understanding of specialized hospital requirements.

For example — superior strength — cabinets designed for loads up to 250 lbs. per square foot, without rack or twist — smooth, quiet-operating drawers and doors, handles and pulls prelocated for easy reach — hollow back provides ventilation around cabinet at wallside, as well as tight bearing to wall — drawers full size for maximum storage — these and many others are basic reasons why Maysteel Casework, "Hospital Designed," provides your best investment for years and years of trouble-free use.

STAINLESS STEEL CASEWORK

Stainless steel casework by Maysteel, interchangeable with similar unit in baked enamel, offers a lifetime installation with gleaming satin finish, ideal for economical, long-range hospital operation. Maintenance requirements are at the absolute minimum.

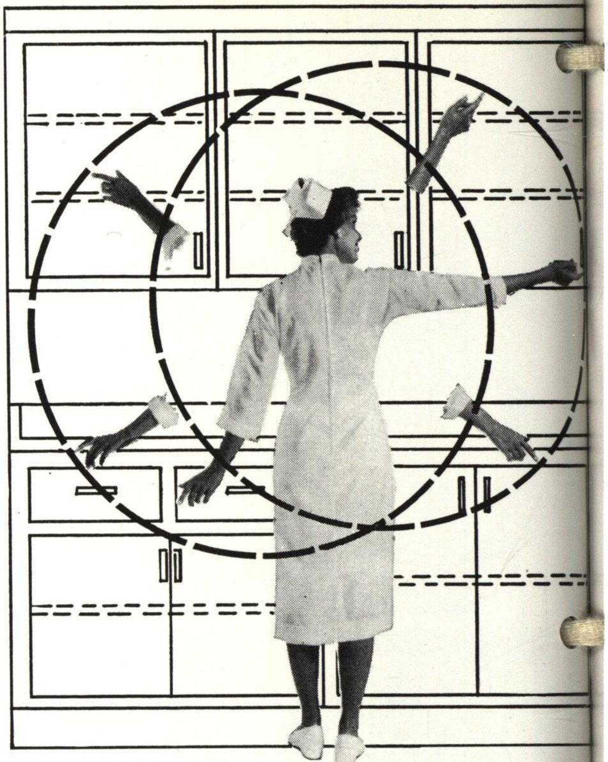
BAKED ENAMEL CASEWORK

The final protection of "Hospital Designed" Casework involves the all important wearability, plus color — Maysteel 6H finish, "Hospital Designed" and tested, porous free "porcelain like" appearance — extreme surface hardness, highly resistant to impact, high humidity, detergents, and chemical solutions.

It means an easier surface to maintain for todays asepsis and lifelong freshness of appearance. Actually Maysteel 6H Finish, is added insurance for longer life to every installation.

COMBINING STAINLESS STEEL AND BAKED ENAMEL CASEWORK

Working top surface as well as doors, drawers and shelves can be furnished in Stainless Steel, — the rest of the Casework in gay, Baked-on Enamel colors. This highly versatile, attractive and worthwhile combination, pioneered by Maysteel, offers the extra durability of Stainless Steel and the functional color harmonies of Baked-On Enamel.



"HOSPITAL DESIGNED" MAYSTEEL CASEWORK

'REACH-PLANNED' FOR CONVENIENCE

Keeping the work load in mind and designing equipment to minimize it is one of the fundamental requirements of Maysteel "Hospital Designed" Casework. **Reach planning** is one of these work-saving, step-saving, fatigue-saving features. For instance, in the illustration above, you notice that cabinet door pulls and drawer handles can be reached without the effort of squatting, bending, stretching or turning. Counter and working surfaces are built to average-height, minimum fatigue convenience. The highest shelves are brought down to easy reach from floor level with no loss of storage area.

MFM

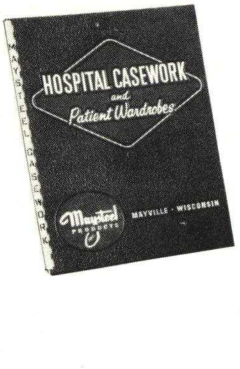
THE "MAN FROM MAYSTEEL"

Your Consultant in Hospital Design

Your nearby "Man from Maysteel" brings to you a wealth of detailed information that can help administrators, consultants, architects and staff in developing work area modernization programs.

Maysteel Products, Inc., also maintains an Engineering Department, to assist in preparing plans and in designing special equipment, without cost or obligation. Call in the "Man from Maysteel" on your new building or remodeling plans, for this service.

REPRESENTED BY



MAYSTEEL CATALOG & PLANNING GUIDE

Designed for the use of hospital administrators, architects and consultants, this helpful, book completely illustrates Maysteel casework, wardrobes, components and accessories. In addition, it covers full specifications, dimensional drawings and details, installation pictures, room plans and architectural elevations for most working areas. Be sure to write for your personal copy.

MAYSTEEL PRODUCTS, INC.
740 N. Plankinton Ave.
Milwaukee 3, Wisconsin
PLANTS — Mayville, Wisconsin
Representatives in Principal Cities

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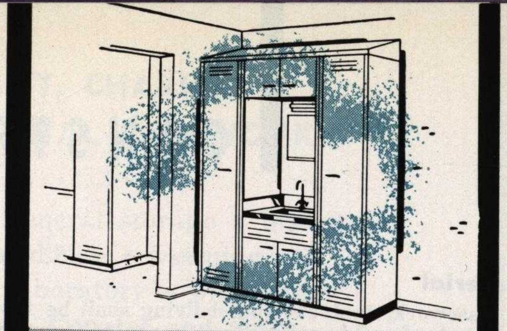
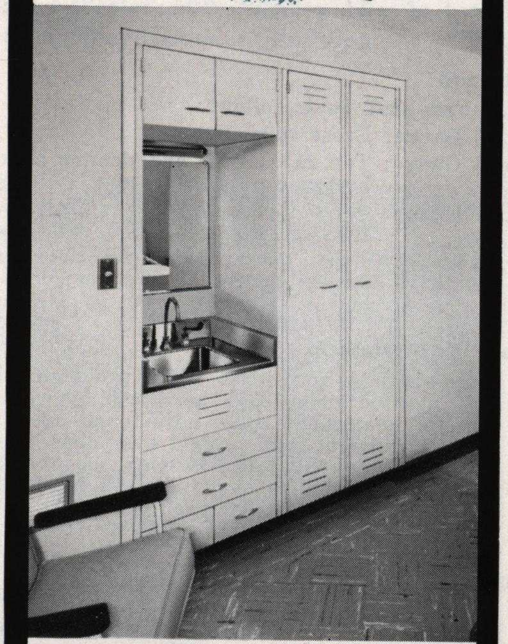
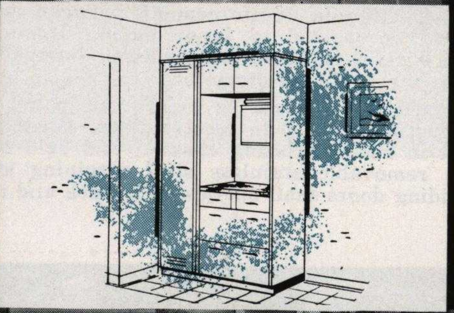
St. Charles

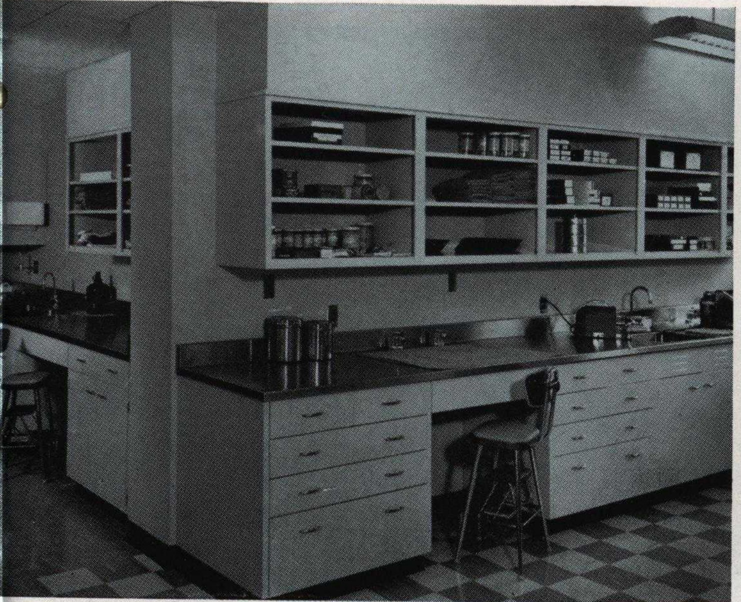
hospital casework

In its approach to the hospital field St. Charles has not been limited by tradition but has applied its technical and productive resources in developing casework capable of meeting today's requirements. These include **(1) maximum use of space; (2) complete flexibility; (3) extra strength to meet hospital usage; and (4) economy.**









CONSTRUCTION FEATURES

Material

Casework, cabinets and shelving shall be fabricated of mild, cold-rolled, annealed furniture steel.

Gauges

Gauges shall be as follows:

14 Gauge: Cross rails.
16 Gauge: Top rails; case and drawer slides; bottom reinforcements.
18 Gauge: Sides; bottoms; door and drawer fronts; shelves; gussets; sub bases.
20 Gauge: Tops; backs; liners for door and drawer fronts; shelf strips; drawer bodies.

Case Construction

Sides shall be formed to make rabbeted stile 1⅛ in. wide which shall be closed by welded channel containing shelf adjustment louvers. Top of wall unit shall project over door, when closed, forming cap to resist entrance of dust. Bottom of wall unit shall be flush of double panel construction. Top rails and cross rails of base units shall be U-shaped channels.

Doors and Drawers

Doors and drawer fronts shall be of double panel construction, ⅝ in. thick, sound-deadened. Handle reinforcement between panels shall be welded to inner panel. Doors and drawers shall have soft rubber bumpers no less than 1 in. in diameter.

Glazed doors shall be reinforced panel construction cut out to receive glass. Glass to be set in rubber glazing channel and held firmly by removable stainless steel retaining strips. Sliding doors shall operate in a track and roller assembly at top of unit and with a guide at bottom. Shall have recessed door pull. Drawer bodies shall be formed of one sheet and welded to front and back through flanges. Tops of side shall be rolled to eliminate sharp edges.

Drawer slide shall be a formed channel with roller at rear; case slide shall be a formed channel with roller at front. Shall have positive stop to prevent accidental removal.

Shelves

Front and rear shelf edges are formed into a 30° triangular truss with extended lip. This truss edge rests in cadmium plated shelf clips. Adjustable on 1½″ centers. Glass shelf clips have rubber bumpers.

Hardware

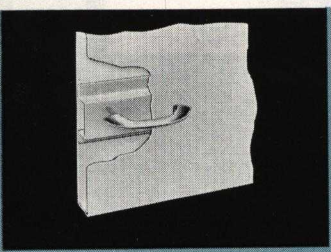
Catch housing in door shall have two vertically-mounted, full-floating springs. Strike of hardened steel shall be attached to unit. Where called for, up and down spring actuated bolts shall have knobs finished to match other hardware.

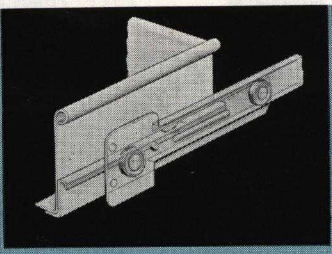
Hinges shall be brass, five-jointed institutional type, 2 in. long. Doors over 36″ high shall have an additional hinge in center. Hinge pin shall be locked in place.

Handle shall be cast zinc finished in brushed chrome.

Finish

Following a five-stage wash and phosphate coating spray process, prime coat of film thickness of 1 mil plus or minus 10 per cent shall be sprayed on and baked. Finish coat of equal film thickness shall be sprayed on and baked, resulting in a finish having a film thickness of 2 mils plus or minus 10 per cent. Colors as selected.


DOOR HANDLE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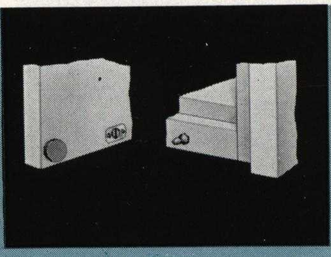
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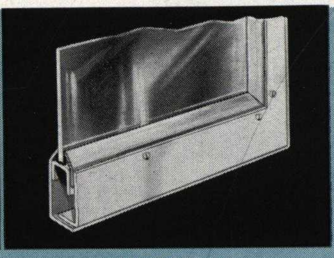
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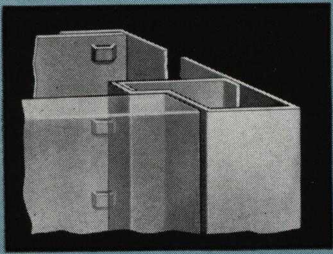
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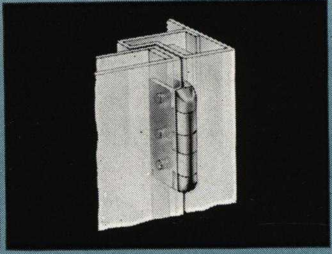
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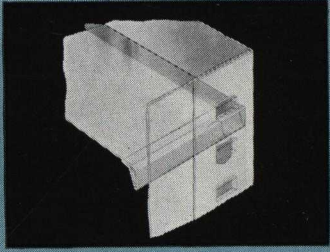
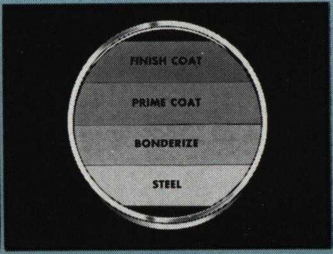

SHELF



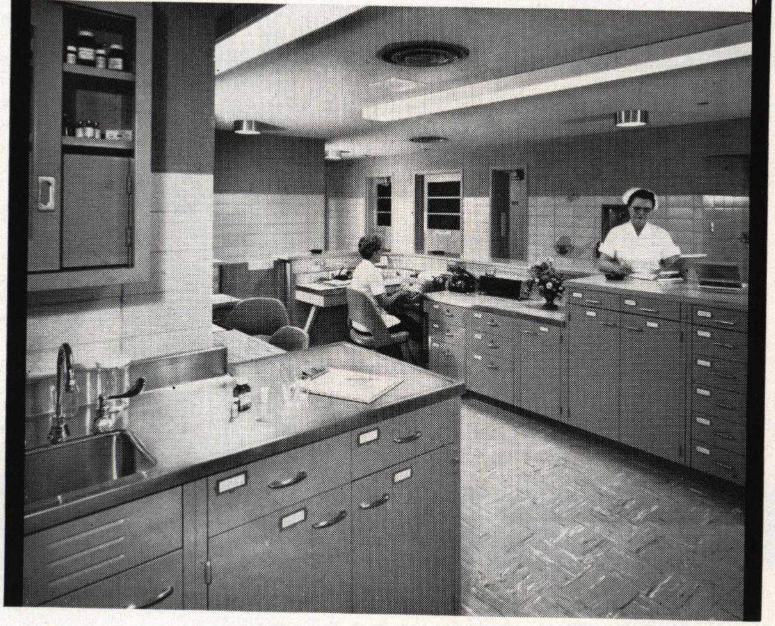
FINISHES

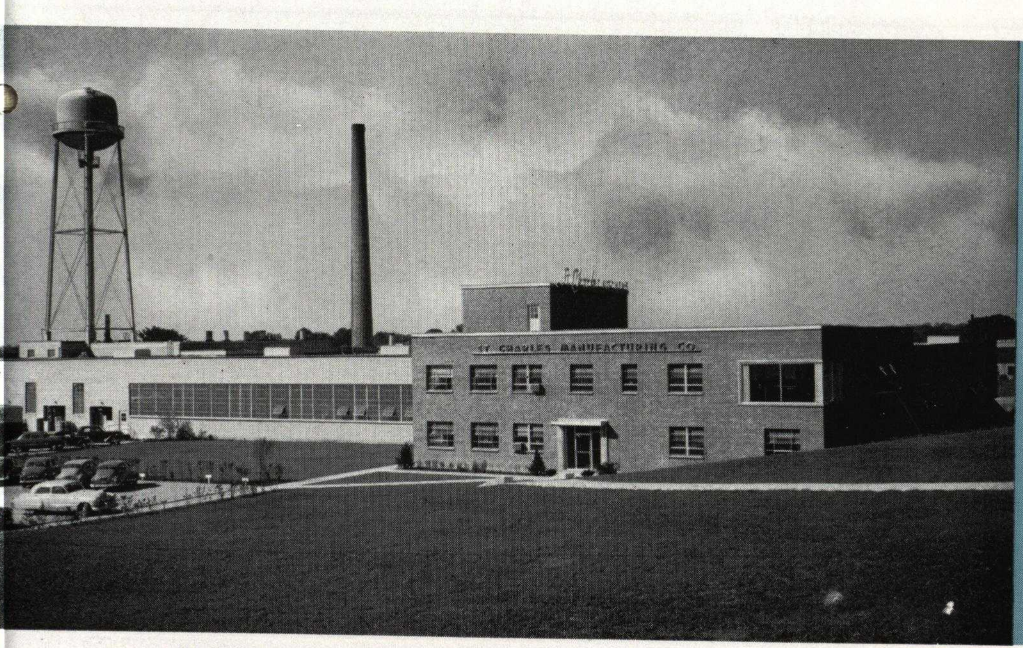
ST. CHARLES HOSPITAL CASEWORK

Cabinets • general storage • instrument
narcotic • medicine • warming
specimen • laboratory • pharmacy
Chart Desks • Counter and Sinks
Diet Kitchens • Wardrobes • Shelving

FLEXIBILITY

St. Charles units are available in a wide variety of standard dimensions not normally found in hospital casework. This enables economical production, yet permits great flexibility in layout to meet the precise needs. All units are made to order so that units of special dimensions can be furnished where desired.




ST. CHARLES MANUFACTURING CO.

Modern St. Charles factory designed for fabrication of casework

PLANNING SERVICE

When planning a new hospital or an addition to an existing institution, the architect or administrator will find it helpful to call in a St. Charles representative. Working with him from the planning stage will prove beneficial in obtaining the best results from the use of St. Charles equipment.

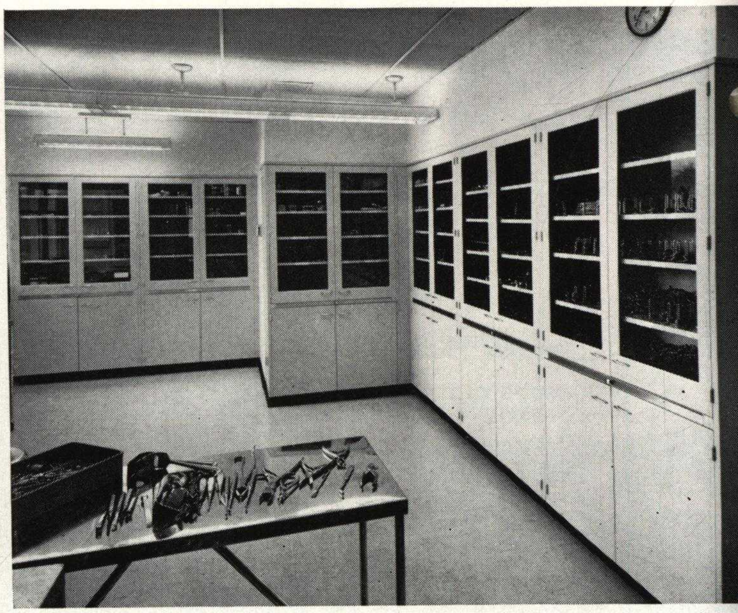
Mail this post card for complete information on St. Charles hospital casework.

ST. CHARLES MANUFACTURING COMPANY

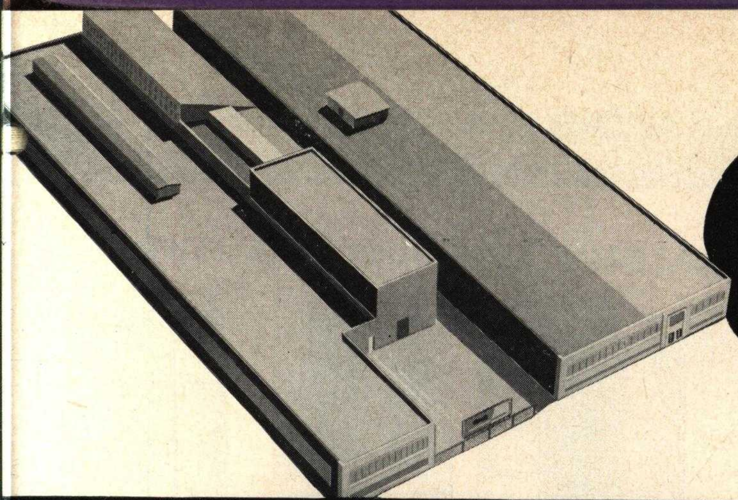
FOR DEPENDABILITY, ACCURACY, QUALITY . . . SPECIFY ST. CHARLES CASEWORK

More and more hospitals every day are being equipped with St. Charles Casework. Here are a few typical installations by St. Charles.

Sharon General Hospital
  Sharon, Pennsylvania Arch. Walter H. Mallorie
Lakeside Methodist Hospital
  Rice Lake, Wisconsin Arch. Thorshov & Cerny
Moline Public Hospital
  Moline, Illinois Arch. Wm. F. Bernbrock & Associates
Jackson Memorial Hospital
  Miami, Florida Arch. Steward-Skinner Associates
Latter Day Saints Hospital
  Salt Lake City, Utah Arch. Peter M. A. Moyes
Union Hospital of Cecil County
Elkton, Maryland Arch. Dollar, Bonner, Blake & Manning
Mercy Hospital
  Cedar Rapids, Iowa Arch. John J. Flad & Associates
Mercy Hospital
  Jackson, Michigan Arch. Forrest A. Gildersleeve
General Hospital
  San Luis Obispo, California Arch. John R. Ross
Wichita Falls State Hospital
  Wichita Falls, Texas Arch. Preston M. Geren
Presbyterian Hospital
  Denver, Colorado Arch. Fisher, Fisher & Davis
Muskogee General Hospital
  Muskogee, Oklahoma Arch. Horstman & Mott
St. Joseph's Hospital
  Kokomo, Indiana Arch. Walter Scholer & Associates
Presbyterian - St. Luke's Hospital
  Chicago, Illinois Arch. Burnham & Hammond
Hot Springs County Hospital
  Thermopolis, Wyoming Arch. Fisher, Fisher & Davis
Norfolk General Hospital
  Norfolk, Virginia Arch. Vernon A. Moore
St. Joseph Hospital
  Memphis, Tennessee Arch. Mahan & Shappley
Delaware County Hospital
  Drexel Hill, Penna. Arch. Geo. M. Ewing Co.
St. Mary's Hospital
  Kankakee, Illinois Arch. Fugard, Burt, Wilkinson & Orth
St. Clare Hospital
  Fort Benton, Montana Arch. Bordeleau, Pannell & Amundson
St. Joseph Hospital
  Hartford, Wisconsin Arch. Foeller, Schober, Berners, Safford & Jahn
Medical Center Hospital
  Odessa, Texas Arch. Leonard F. Crockett & Assoc.
Mountainside Hospital
  Glen Ridge, New Jersey Arch. Voorhees, Walker, Smith & Smith
Parkview Hospital
  Fort Wayne, Indiana Arch. A. M. Strauss & Assoc.
Veterans Administration Hospital
  Cheyenne, Wyoming Arch. Porter & Porter
Munroe Memorial Hospital
  Ocala, Florida Arch. E. Bryan Duncan
Toledo State Hospital
  Toledo, Ohio Arch. Britsch, MacElwane & Assoc.
Paul Kimball Hospital
  Lakewood, New Jersey Arch. Ferrenz & Taylor
Auburn Memorial Hospital
  Auburn, New York Arch. Beardsley & Beardsley
Claiborne County Hospital
  Tazewell, Tennessee Arch. Lindsay & Maples
Proctor Community Hospital
  Peoria, Illinois Arch. Lankton, Ziegele & Terry
Eveleth Community Hospital
  Eveleth, Minnesota Arch. S. C. Smiley & Assoc.
Central Michigan Hospital
  Mt. Pleasant, Michigan Arch. Clark R. Ackley
Sandwich Community Hospital
  Sandwich, Illinois Arch. Consoer & Morgan
Allen Memorial Hospital
  Waterloo, Iowa Arch. Thorson & Brom
University Hospital
  Columbus, Ohio Arch. Garfield, Harris, Schafer, Flynn & Williams



ST. CHARLES MANUFACTURING COMPANY • ST. CHARLES, ILLINOIS
Hospital Casework Division 66 Tyler Road



Shampaine
COMPANY

HOSPITAL AND LABORATORY CASEWORK

Knowledge gained over more than 25 years of exclusive manufacture of surgical equipment for hospitals and physicians is utilized to lead the way in the designing and producing of quality casework, basic to any modern, scientific hospital or laboratory.

There's a special Shampaine casework unit or combination of units for every hospital or laboratory construction or remodeling project. Roomy and sturdy, attractive Shampaine metal casework keeps its like-new appearance with a minimum of maintenance.

Shampaine representatives, conveniently located throughout the country, or the Shampaine Casework Planning Department, will be glad to discuss your planning needs and give you the benefit of the many economies that can be effected with proper planning. A phone call or letter will bring the Shampaine man into action.

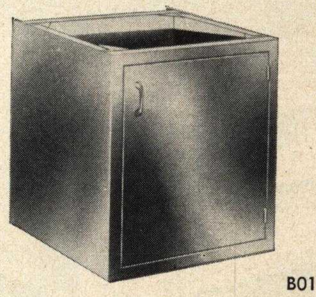
MATERIALS AND FINISHES

All steel is of prime grade, all gauges U.S. Standard. Stainless steel is AISI type free of buckles or imperfections with No. 4 satin finish on surfaces. Carbon steel is finished in baked enamel with high lustre and the depth and appearance of accepted appliance standards. Special acid resistant finish is available where required.

OTHER SHAMPAINE PRODUCTS

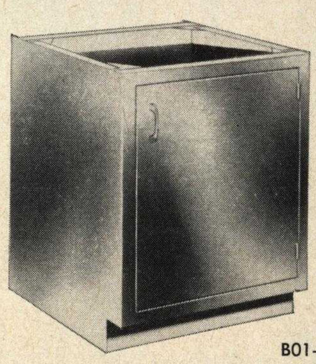
Operating and Obstetrical Tables . . . Stainless Steel Hospital Equipment . . . Nursery Equipment . . . Food Conveyors . . . Surgical Lights . . . Sterilizers . . . Physicians Examining Room Furniture . . . Patient Room, Dormitory, Hotel, Motel Bedroom Furniture.

SHAMPAINE COMPANY
1920 South Jefferson Ave.
St. Louis, Mo.



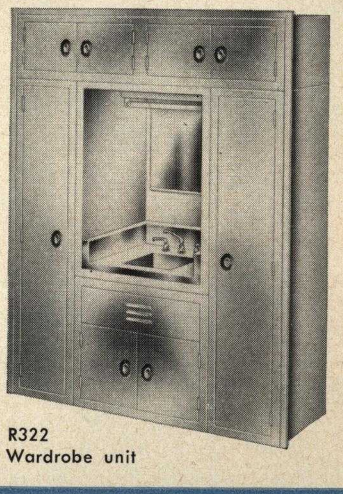
B01

HOSPITAL UNITS offer flexible storage arrangement with ample work area.



B01-L

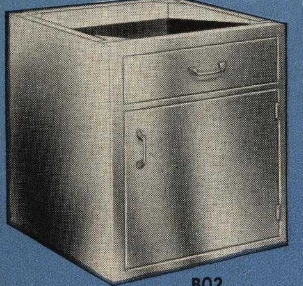
LABORATORY UNITS incorporate every desired feature for Hospital, Institutional, Industrial Laboratories.



R322
Wardrobe unit

WARDROBE UNITS in combinations to meet every patient or dormitory room need.

HOSPITAL AND LABORATORY * BASE CABINETS



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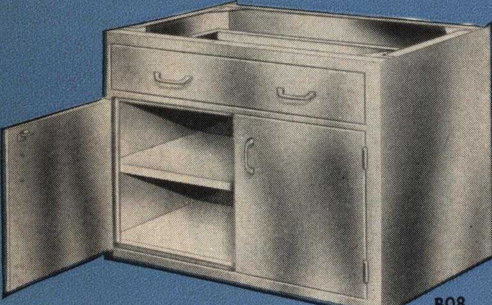

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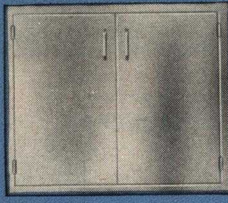

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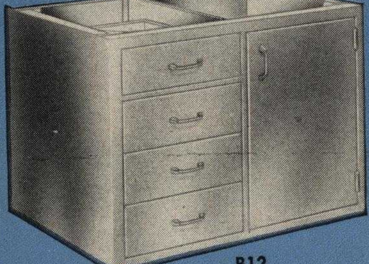

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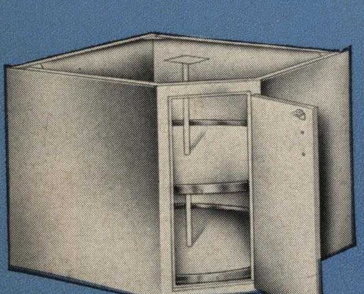
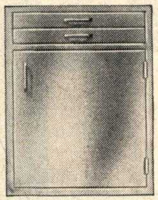


B19 with Lazy Susan



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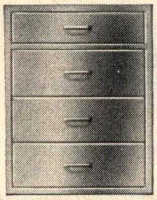

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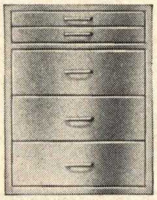

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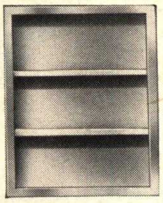

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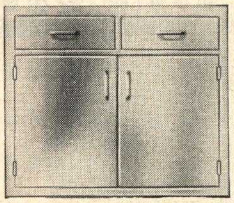

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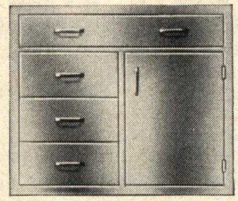

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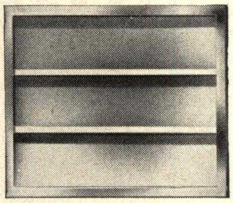

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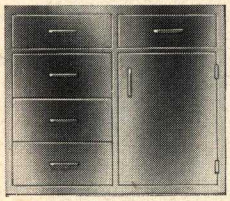

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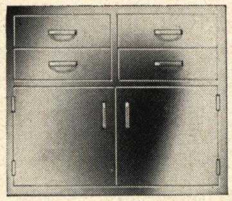

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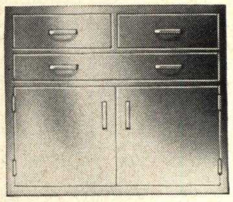

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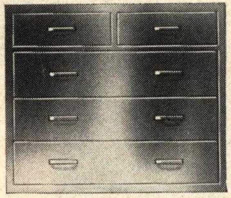

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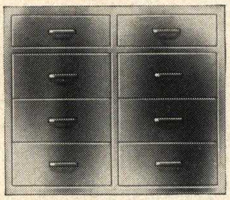

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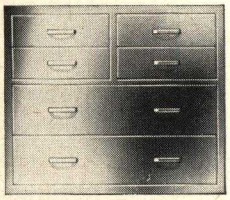


B18

BASE CABINETS • 30¾" high • 23½" depth

CODE 18" width	24" width	DOORS	adj. SHELVES	DRAWERS
B01 18H	B01 24H	1	2	0
B02 18H	B02 24H	1	1	1
B03 18H	B03 24H	1	1	2
B04 18H	B04 24H	0	0	4
B05 18H	B05 24H	0	0	5
B06 18H	B06 24H	0	2	
35" width	47" width			
B07 35H	B07 47H	2	2	0
B08 35H	B08 47H	2	1	1
B09 35H	B09 47H	2	1	2
B10 35H	B10 47H	1	1	4
B11 35H	B11 47H	open shelves		
B12 35H	B12 47H	1	2	4
B13 35H	B13 47H	1	1	5
B14 35H	B14 47H	2	1	4
B15 35H	B15 47H	2	1	3
B16 35H	B16 47H	0	0	5
B17 35H	B17 47H	0	0	8
B18 35H	B18 47H	0	0	6
B19 33H B19 33LH	Front door opening approximately 9" x 27¾" Two revolving shelves			

TOPS

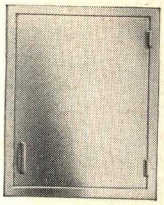
Choose from this wide selection of counter tops for your base cabinets or table units—

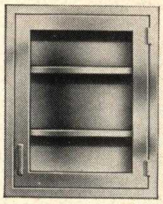
- Stainless Steel
- Techstone
- Alberene Stone
- Linoleum
- Laminated Plastic
- Carbonized Birch

*LABORATORY BASE CABINETS

All Laboratory Base Cabinets have a four-inch integral base with three-inch toe recess. When ordering Laboratory Cabinets delete suffix "H" from item numbers shown above and add suffix "L". Example "B01 18L".

HOSPITAL AND LABORATORY WALL CABINETS


W50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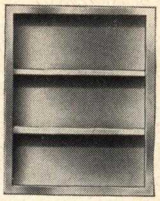
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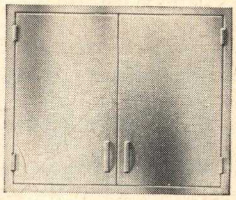
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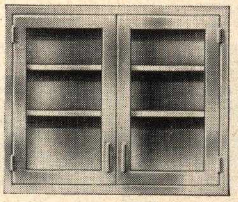
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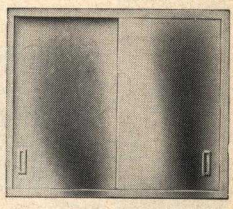
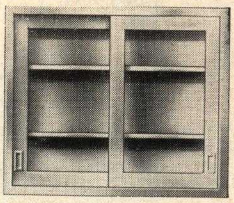

W54

Provide eye level storage. Finished exterior bottoms enhance their appearance. Complete with two adjustable shelves. Hinged metal doors, hinged glazed doors, sliding glazed doors available.

WALL CABINETS • 30″ high • 13″ depth (36″ & 48″ heights available)

CODE		DOORS				SHELVES
		glazed		metal		
18″ width	24″ width	hinged	sliding	hinged	sliding	adjust.
W50 18H	W50 24H			1		2
W52 18H	W52 24H	1				2
W56 18H	W56 24H	open shelves				2
35″ width	47″ width					
W51 35H	W51 47H			2		2
W53 35H	W53 47H	2				2
W54 35H	W54 47H				2	2
W55 35H	W55 47H		2			2
W57 35H	W57 47H	open shelves				2
W58 23H				1		2
W58 23LH		2 revolving shelves				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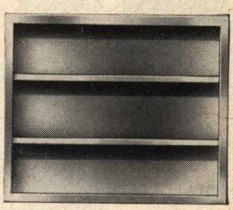
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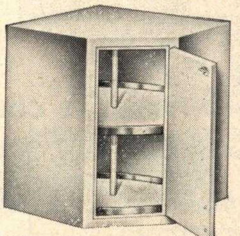
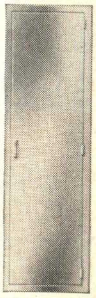

W58 with Lazy Susan

LABORATORY MODELS

When ordering Laboratory Wall Cabinets, delete suffix "H" from item numbers shown in chart and add suffix "L". Example "W50 18L".

HOSPITAL AND LABORATORY INSTRUMENTS AND STORAGE CABINETS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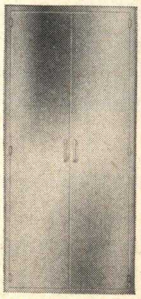
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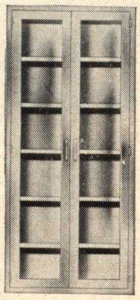
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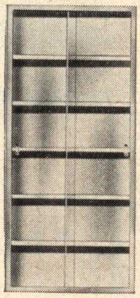
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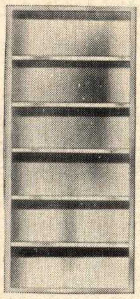
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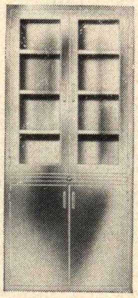
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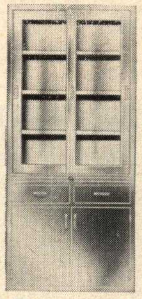
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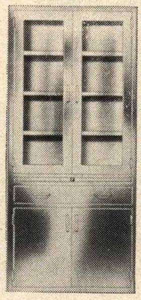
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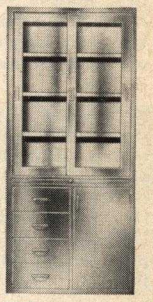

E72

STORAGE CABINETS • 80″ high • 16″ depth (18″and 23½″ depths also available)

CODE		DOORS				SHELVES
		glazed		metal		
18″ width	24″ width	hinged	sliding	hinged	sliding	adjust.
E59 18H	E59 24H			1		5
E66 18H	E66 24H	open shelves				5
35″ width	47″ width					
E61 35H	E61 47H			2		5
E62 35H	E62 47H				2	5
E63 35H	E63 47H	2				5
E64 35H	E64 47H		2			5
E65 35H	E65 47H		2 GL.			5
E66 35H	E66 47H	open shelves				5

For storage of instruments or medical and surgical equipment. Available in full-length shelf models or combinations of upper shelf sections and lower cupboard with pull-out work shelf. Sub-base not included on Hospital Models.

RECESSED MODELS

Storage Cabinets are available with exposed or recessed mounting. Chart lists exposed mounting. When recessed mounting is desired, delete prefix "E" and add prefix "R". Example "R60 18H".

COMBINATION SHELF AND CUPBOARD MODELS

CODE		UPPER SECTION				LOWER SECTION				
		DOORS—glazed		SHELVES		DOORS—metal		DRAWERS		SHELVES
35″ width	47″ width	hinged	sliding	adjust.	pull-out	hinged	sliding	full	half	adjust.
E67 35H	E67 47H	2		3	1	2				1
E68 35H	E68 47H		2	3	1	2				1
E69 35H	E69 47H		2	3	1		2			1
E70 35H	E70 47H		2	3	1	2			2	1
E71 35H	E71 47H	2		3	1	2		1		1
E72 35H	E72 47H		2	3	1	1			4	1

LABORATORY MODELS

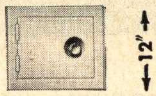
All Laboratory Models have 4″ integral base with 3″ toe recess. When ordering Laboratory Models, delete suffix "H" from item number and add suffix "L". Example "E60 18L".

SHAMPAINE WARDROBE UNITS

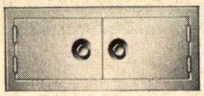
MODERN STORAGE FOR . . .
HOSPITALS • DORMITORIES • MOTELS

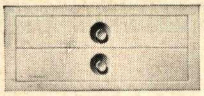
WARDROBE UNITS • Sectional • 23½" deep

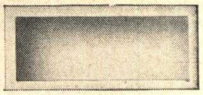
RECESSED PULLS
A special feature on all of these sectional wardrobe door and drawer units. Smooth and streamlined. Doors can be opened flat against walls without marring caused by projecting pulls.

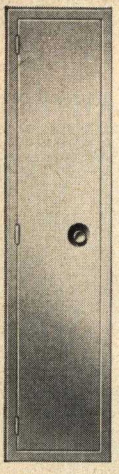


R01
Shoe or hat


R02
Shoe or hat comp.

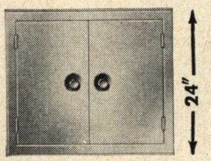

R03
Drawer unit


R04
Open shelf

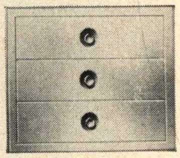

R31
60" high

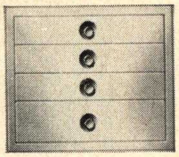
R32
72" high

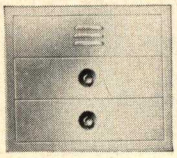
Apparel storage lockers

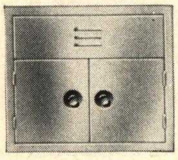


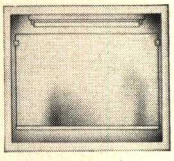
R10
Cupboard

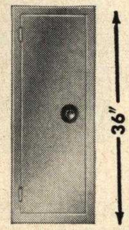

R11
Drawer unit


R12
Dresser unit

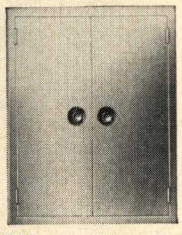

R13
Sink base

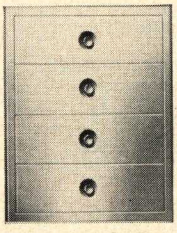

R14
Sink base

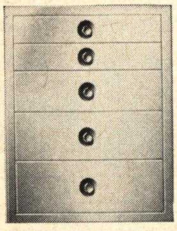

R15
Recessed unit
plastic counter

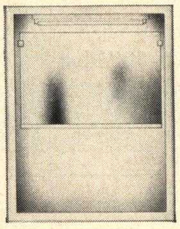


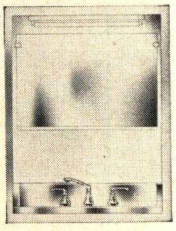
R30
Personal storage


R20
Cupboard


R21
Drawer unit


R22
Drawer unit


R23
Recessed unit


R24
Recessed sink

WARDROBE UNITS

Sectional Wardrobe Units follow the decorating trend for built-in cabinets. They are the ideal installation for dormitory, patient, locker, supply, and utility rooms. Concealed bolts lock sections securely in any combination of sections desired.

In addition to single units illustrated, the Shampaine designing department has developed the most popular combinations into a special series. See chart to right and illustration on introductory page of this Shampaine section.

Sub-bases not included.

Models shown suitable for exposed or recessed mounting. When recessed mounting is ordered, a one-inch flange for sides and top will be furnished.

WARDROBE COMBINATIONS

CODE	No. of Units Included	Base Unit Model Nos.	overall dimensions		
			W	H	D
R32	1	R32	14"	72"	23½"
R300	2	R32	28"	72"	23½"
R301	4	R32	56"	72"	23½"
R302	1 1	R31 R01	14"	72"	23½"
R303	2 1	R31 R02	28"	72"	23½"
R304	2 1	R31 R02	28"	72"	23½"
R305	2 1	R31 R03	28"	72"	23½"
R306	3 3	R31 R01	42"	72"	23½"
R307	1 1 1 1 1	R31 R01 R02 R10 R20	42"	72"	23½"
R308	2 2 1	R31 R01 R30	42"	60"	23½"
R309	2 2	R32 R30	42"	72"	23½"
R310	1 1 1 1 1	R31 R01 R02 R22 R15	42"	72"	23½"
R311	2 2 1 1	R32 R10 R03 R04	56"	72"	23½"
R312	2 2 2 2	R10 R04 R11 R02	56"	72"	23½"
R313	1 1 1	R02 R15 R20	28"	72"	23½"
R314	1 1 1	R02 R15 R21	28"	72"	23½"
R315	2 1 1	R02 R15 R12	28"	72"	23½"
R316	1 1 1	R23 R21 R32	42"	72"	23½"
R317	1 1 2 1 1	R31 R01 R02 R15 R11	42"	72"	23½"
R318	1 1 1 1	R32 R02 R15 R22	42"	72"	23½"
R319	2 1 1 1	R32 R15 R22 R02	56"	72"	23½"
R320	1 1 1 1 1	R31 R01 R02 R14 R24	42"	72"	23½"
R321	1 1 1 1	R32 R02 R13 R24	42"	72"	23½"
R322	2 2 1 1	R31 R02 R14 R24	56"	72"	23½"
R323	2 1 1 1	R32 R02 R13 R24	56"	72"	23½"

HOW TO SPECIFY

Order Shampaine casework by item number. Be sure to specify *carbon* or *stainless* steel. List appropriate suffix for Hospital or Laboratory unit. Wherever models are available with exposed or recessed mounting, be sure to specify mounting required.

The casework shown on these four pages is but a small section of the complete line shown in the big Shampaine Casework Catalog. Write for your free copy today.

Shampaine
COMPANY

1920 So. Jefferson St., St. Louis, Mo.

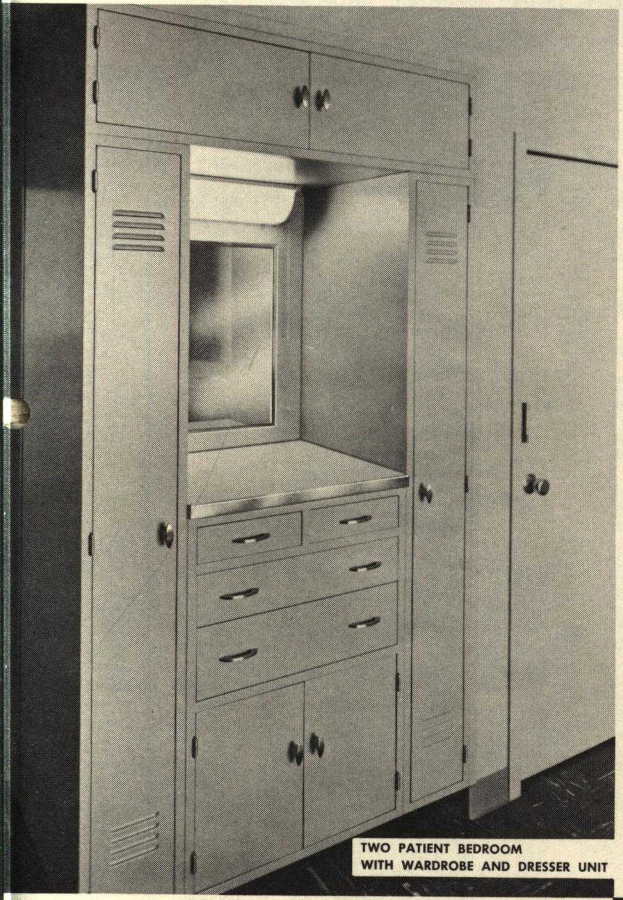
SHAMPAINE FACTORY REPRESENTATIVES

Boston
Chicago
Cleveland
Detroit
Houston
Kansas City
Los Angeles
Memphis
Miami
Minneapolis-St. Paul
New York
San Francisco
Washington, D.C.

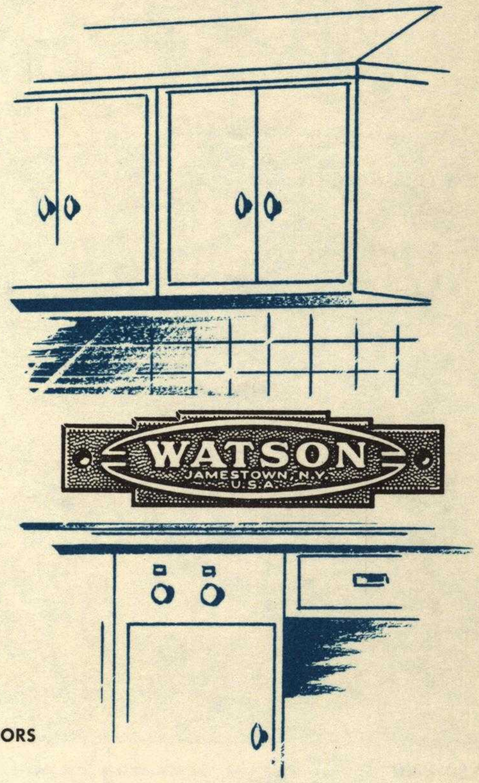
Modern HOSPITAL EQUIPMENT by WATSON

SINCE 1887

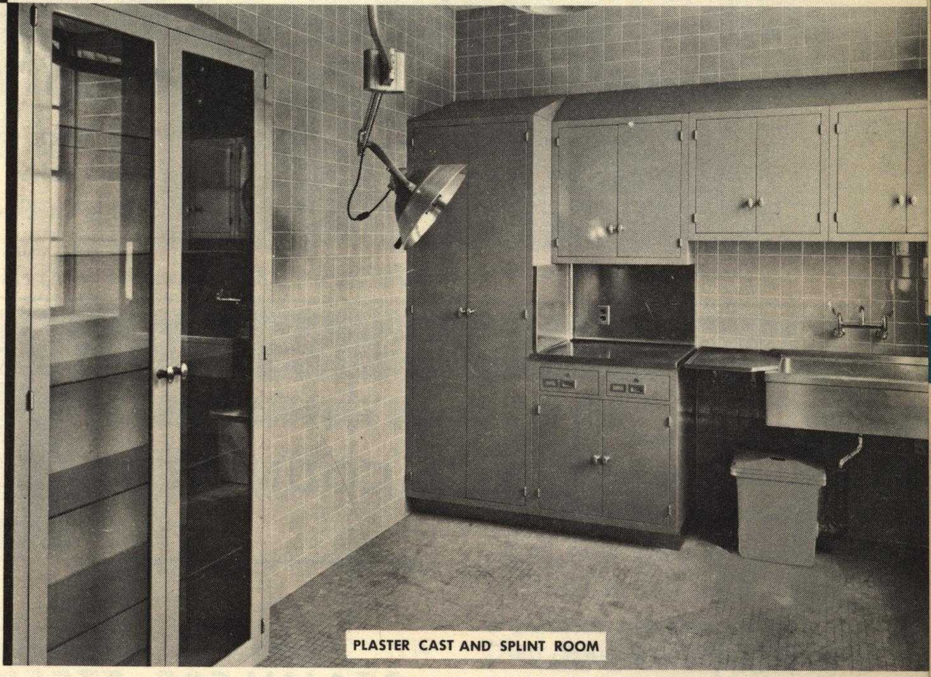
HOSPITAL EQUIPMENT


TWO PATIENT BEDROOM
WITH WARDROBE AND DRESSER UNIT

- STORAGE CABINETS
- FILING CABINETS
- WARDROBE UNITS
- STAINLESS STEEL ICE CHESTS
- INSTRUMENT CABINETS
- NURSES' STATIONS
- STAINLESS STEEL CABINETS
- SOLUTION CABINETS
- NARCOTIC CABINETS
- MEDICINE CABINETS
- CHART DESKS
- COUNTERS
- HOT PLATE UNITS
- TILTING BIN SORTING TABLE
- STAINLESS STEEL SINKS
- BED PAN CABINETS
- HOSPITAL SCREENS AND DOORS

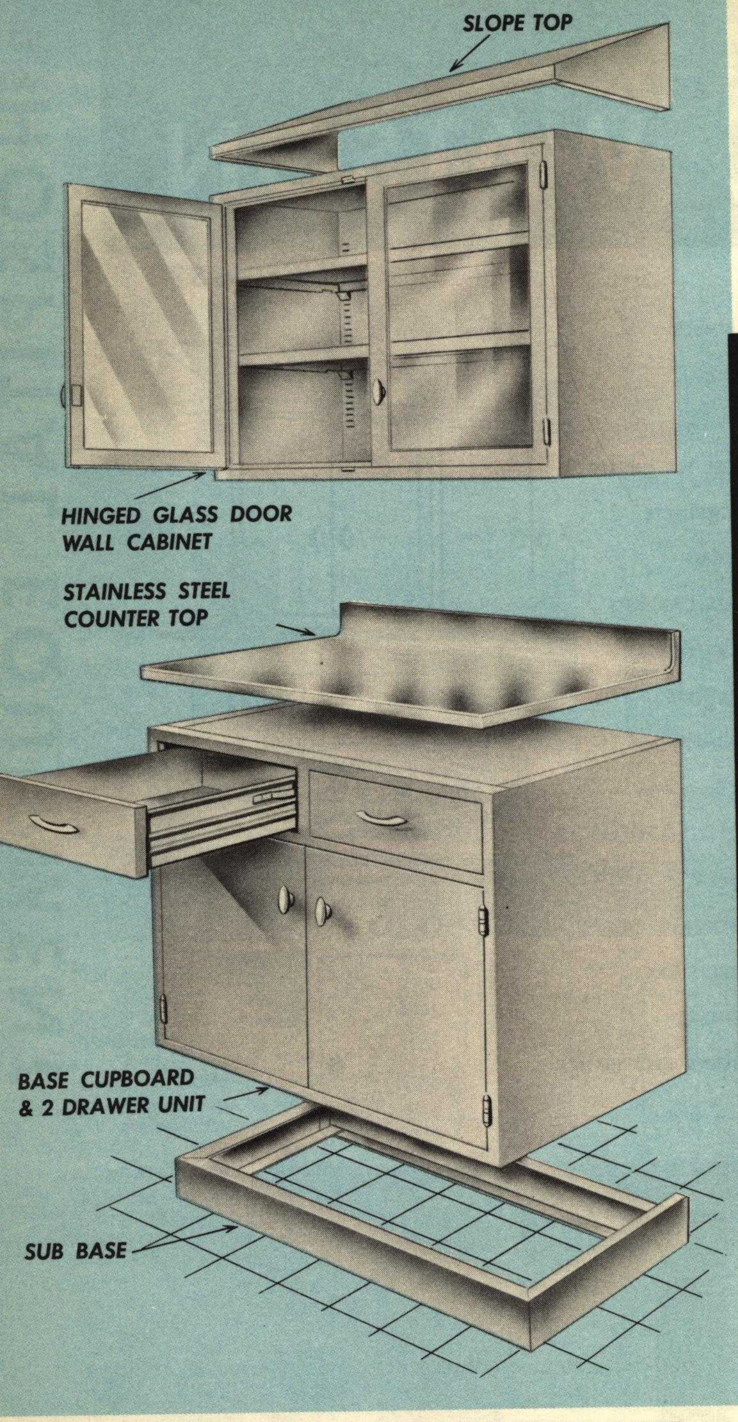

WATSON
JAMESTOWN, N.Y.
U.S.A.

More than forty years of quality workmanship in metal fabrication and engineering at Watson insures satisfactory installation to fit your individual hospital need. The following information on WATSON HOSPITAL UNITS enables the architect or engineer to readily see the basic units as he plans his arrangement and installation.


PLASTER CAST AND SPLINT ROOM

A.I.A. 35K

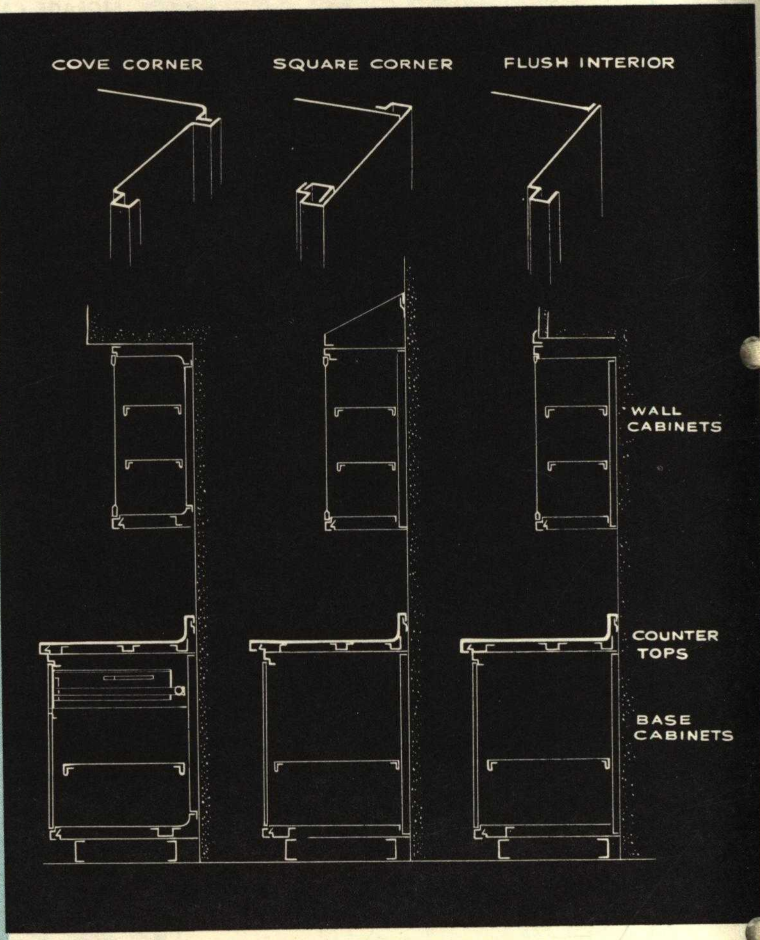
WATSON MANUFACTURING COMPANY, INC. Home Offices and Factories . . . Jamestown, New York


SLOPE TOP
HINGED GLASS DOOR WALL CABINET
STAINLESS STEEL COUNTER TOP
BASE CUPBOARD & 2 DRAWER UNIT
SUB BASE

AVAILABLE IN BAKED ENAMEL COLORS OR STAINLESS STEEL AS DESIRED

CONSTRUCTION FEATURES

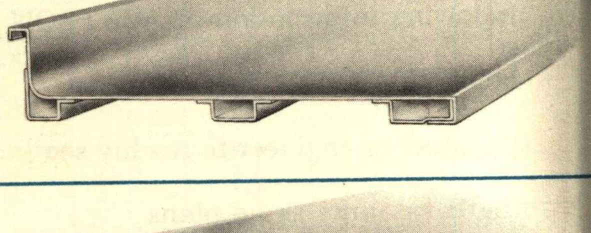
All special casework can be made in either square corner, flush interior or cove corner construction as shown in detail below.


COVE CORNER
SQUARE CORNER
FLUSH INTERIOR
WALL CABINETS
COUNTER TOPS
BASE CABINETS

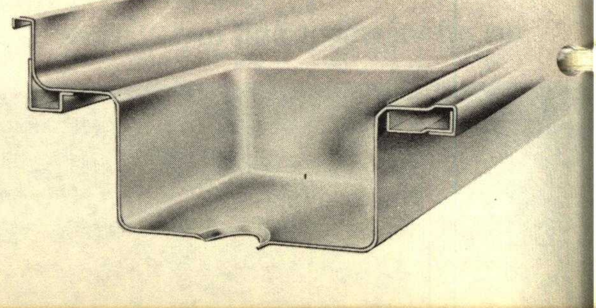
All units are fabricated as individual parts and bolted into a complete assembly on the job. This enables a run of cabinets to be added to as your requirements increase.

Stainless steel sink tops, counter tops and sink bowls to be 16 gauge with #4 satin finish. All internal corners in sink bowl and where back and end splash meets counter there is to be a ¾″ cove. Each side of bowl, top is to be recessed forming a drain board pitched to sink. Underside of top to be reinforced with box channel stiffeners full length of top and entire underside to be sprayed with a cork sound deadener.

STAINLESS STEEL COUNTER TOPS



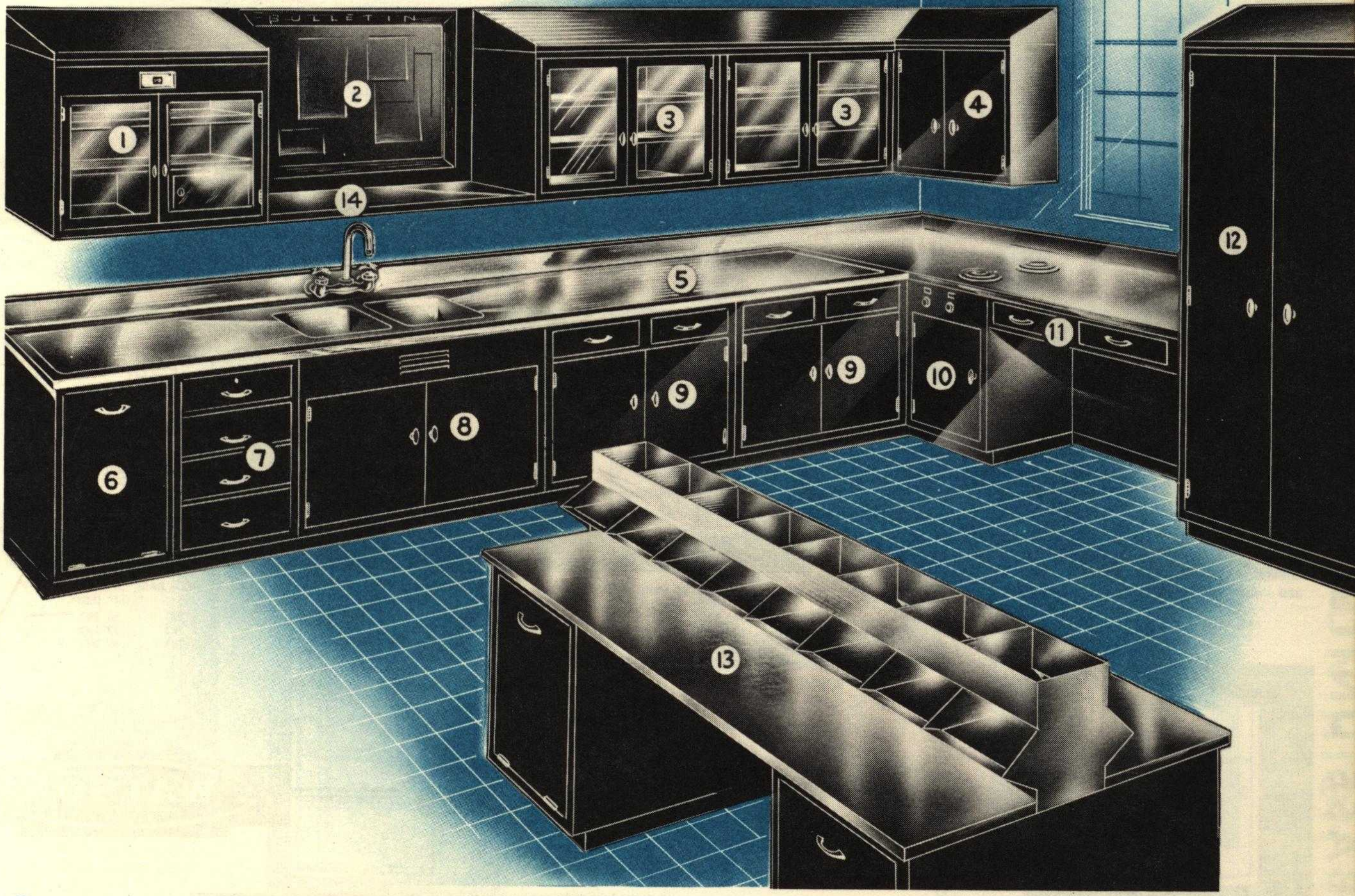
STAINLESS STEEL SINK TOPS



WATSON
JAMESTOWN, N.Y.
U.S.A.

TYPICAL HOSPITAL INSTALLATION by WATSON

WATSON
JAMESTOWN, N.Y.
U.S.A.



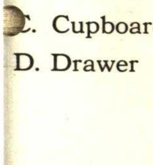
- ① NARCOTIC CABINET WITH WARNING LIGHT
- ② CORK BULLETIN BOARD
- ③ GLASS DOOR WALL CABINETS
- ④ SOLID DOOR WALL CABINETS
- ⑤ STAINLESS STEEL DOUBLE BOWL SINK TOP
- ⑥ STAINLESS STEEL CRACKED ICE BIN
- ⑦ FOUR DRAWER BASE CABINET
- ⑧ LOUVERED PANEL SINK CABINET
- ⑨ CUPBOARD AND DRAWER BASE CABINET
- ⑩ TWO BURNER ELECTRIC HOT PLATE CABINET
- ⑪ TWO DRAWER APRON SECTION
- ⑫ HIGH WALL STORAGE CABINET
- ⑬ TILTING BIN SORTING TABLE
- ⑭ STAINLESS STEEL SHELF

REFERENCE

NUMBERS IN FRONT INDICATE DIMENSIONS
LETTERS INDICATE TYPE OF UNIT

Base cabinets are made to set on either masonry or metal bases, giving a 36″ high counter work surface. Cabinets are fabricated in Standard, Flush Interior or Interior Cove Corner Construction of either metal furniture steel with baked enamel finish or all stainless steel with satin finish.

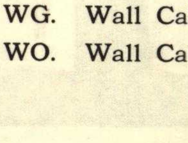
BASE CABINETS


24 BCD

EXAMPLE — 24BCD
24″ wide base cabinet
with cupboard and drawer.
Standard depth 24″

B.	Base Cabinet
C.	Cupboard
D.	Drawer
S.	Sink Cabinet
O.	Open Face
HP.	Hot Plate Cabinet

WALL CABINETS

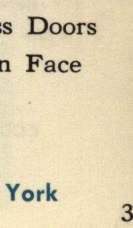

3036 WG

EXAMPLE — 3036WG
30″ wide x 36″ high
wall cabinet with
glass doors.
Standard depth 13″

W.	Wall Cabinet, Solid Doors
WG.	Wall Cabinet, Glass Doors
WO.	Wall Cabinet, Open Face

HIGH WALL CABINETS

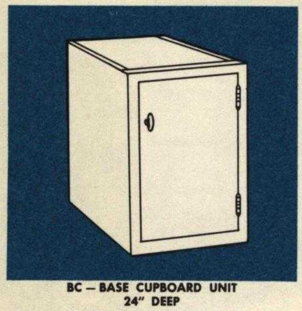
EXAMPLE — 3078HW
30″ wide x 78″ high
High wall cabinet
with solid panel doors.
Standard depth 13″, 18″ and 24″

3078 HW


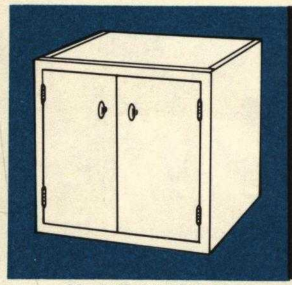
HW	High Wall Cabinet, Solid Doors
HWG	High Wall Cabinet, Glass Doors
HWO	High Wall Cabinet, Open Face

WATSON MANUFACTURING COMPANY, INC. **Home Offices and Factories . . . Jamestown, New York**

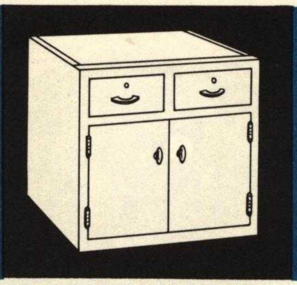
WATSON BASE UNITS



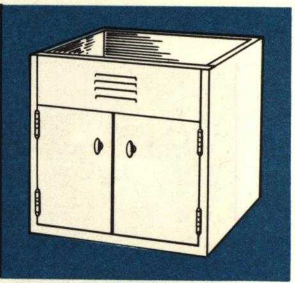
BC — BASE CUPBOARD UNIT
24" DEEP
15 BC 21 BC
18 BC 24 BC



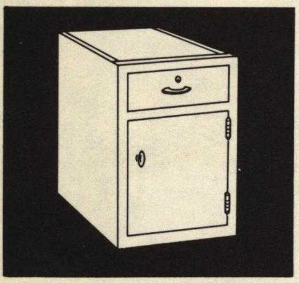
BC — BASE CUPBOARD UNIT
24" DEEP
30 BC 42 BC
36 BC 48 BC



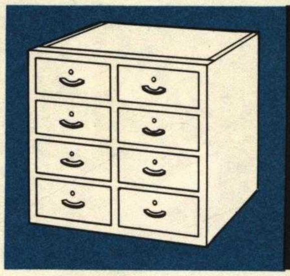
BCD — BASE CUPBOARD AND 2-DRAWER UNIT
24" DEEP
30 BCD 42 BCD
36 BCD 48 BCD



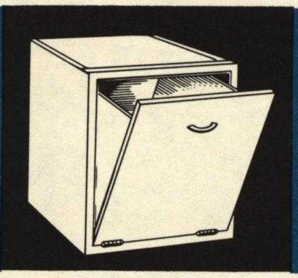
BS — BASE SINK UNIT
24" DEEP
30 BS 42 BS 54 BS
36 BS 48 BS



BCD — BASE CUPBOARD AND DRAWER UNIT
24" DEEP
15 BCD 21 BCD
18 BCD 24 BCD

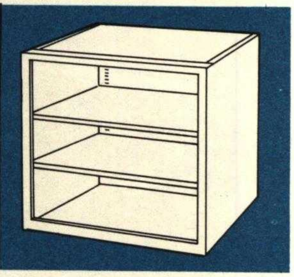


BD8 — BASE DRAWER UNIT, 8 DRAWERS
24" DEEP
30 BD8 36 BD8 42 BD8

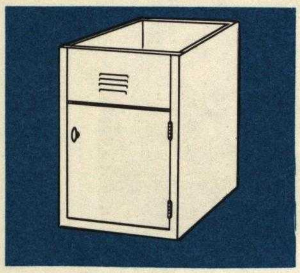


STAINLESS STEEL TILTING ICE BIN
24" DEEP
18 IB 24 IB

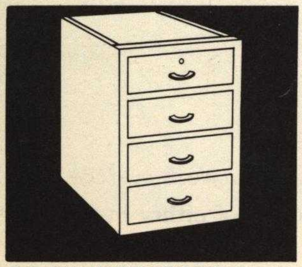
PLASTER BIN
Same Except Enamel Steel
24" DEEP
18 PB 24 PB 30 PB



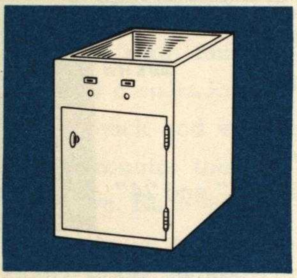
BO — BASE OPEN FACE UNIT
24" DEEP
18 BO 36 BO 54 BO
24 BO 42 BO
30 BO 48 BO



BS — BASE SINK UNIT
24" DEEP
21 BS 24 BS



BD4 — BASE DRAWER UNIT
24" DEEP
18 BD4 24 BD4
21 BD4



BHP — HOT PLATE CABINET
24" DEEP
18 BHP 21 BHP 24 BHP

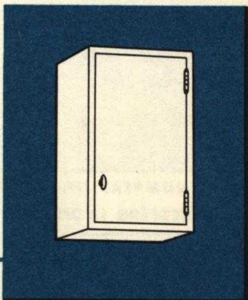
CODE: Numbers before type indicate width and height.

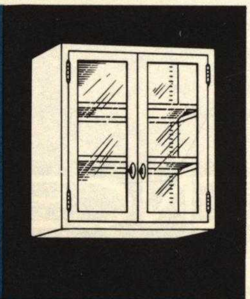
WALL CABINETS

WATSON
JAMESTOWN, N.Y.
U.S.A.

SINGLE DOOR

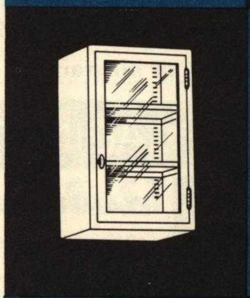
WALL CABINETS
SOLID HINGED DOOR
13" DEEP
1824 W 1836 W
2424 W 2436 W
1830 W 1842 W
2430 W 2442 W

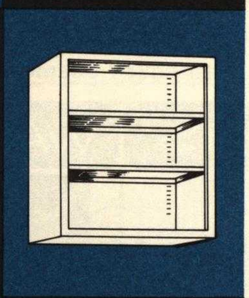




WALL CABINETS
HINGED OR SLIDING GLASS DOORS
13" DEEP
3024 WG 3036 WG
3624 WG 3636 WG
4224 WG 4236 WG
3030 WG 3042 WG
3630 WG 3642 WG
4230 WG 4242 WG

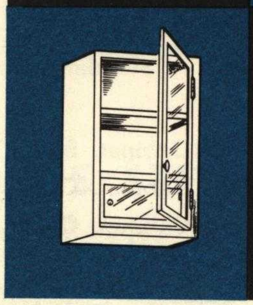
WALL CABINETS
GLASS HINGED DOOR
13" DEEP
1824 WG 1836 WG
2424 WG 2436 WG
1830 WG 1842 WG
2430 WG 2442 WG

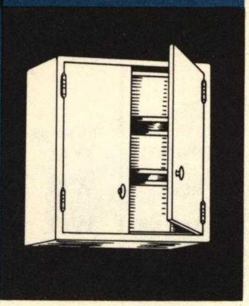




WALL CABINETS
OPEN FACE
13" DEEP
1824 WO 1836 WO
2424 WO 2436 WO
3024 WO 3036 WO
3624 WO 3636 WO
4224 WO 4236 WO
1830 WO 1842 WO
2430 WO 2442 WO
3030 WO 3042 WO
3630 WO 3642 WO
4230 WO 4242 WO

NARCOTIC CHEST
IN LOCKED WALL CABINET



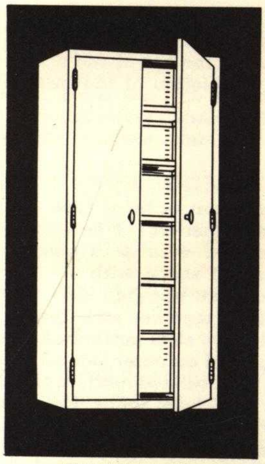


WALL CABINETS
HINGED OR SOLID SLIDING DOORS
13" DEEP
3024 W 3036 W
3624 W 3636 W
4224 W 4236 W
3030 W 3042 W
3630 W 3642 W
4230 W 4242 W

WATSON HIGH WALL CABINETS

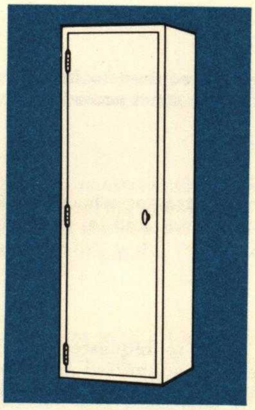
HIGH WALL CABINETS

CODE: Numbers before type indicate width and height.



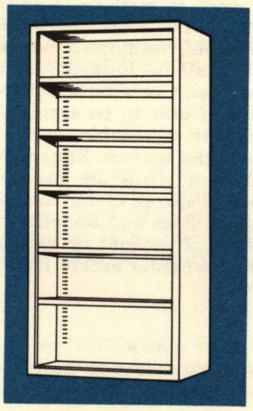
HIGH WALL CABINET
13", 18" or 24" DEEP

3078 HW	Hinged or Sliding Door
3678 HW	Hinged or Sliding Door
4278 HW	Hinged or Sliding Door
4878 HW	Hinged or Sliding Door
5478 HW	Sliding Door



HIGH WALL CABINET
13", 18" or 24" DEEP

1878 HW	Hinged Door
2478 HW	Hinged Door



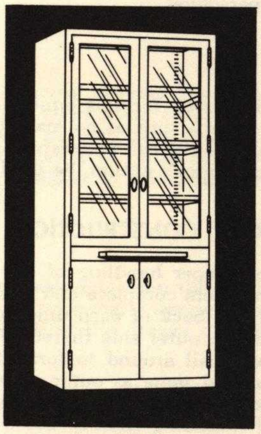
HIGH WALL CABINET — OPEN FACE
13", 18" or 24" DEEP

1878 HWO	3678 HWO
2478 HWO	4278 HWO
3078 HWO	4878 HWO

INSTRUMENT CABINETS

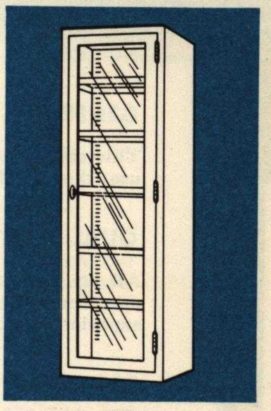
TYPE A and B

OPTIONAL — Glass or Stainless Steel Shelves



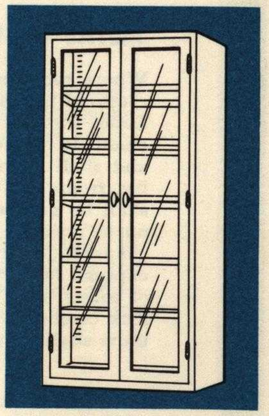
TYPE B
CABINETS 18" or 24" DEEP

2478 INB	Hinged Door
3078 INB	Hinged Door
3678 INB	Hinged or Sliding Door
4278 INB	Hinged or Sliding Door
4878 INB	Hinged or Sliding Door
5478 INB	Sliding Door



TYPE A
18" or 24" DEEP

1878 INA	Hinged Door
2478 INA	Hinged Door



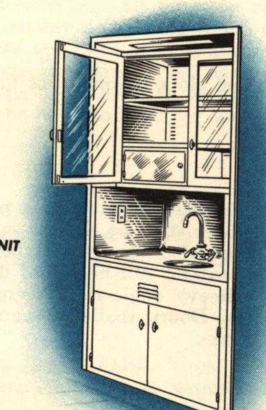
TYPE A 18" or 24" DEEP

3078 INA	Hinged Door
3678 INA	Hinged or Sliding Door
4278 INA	Hinged or Sliding Door
4878 INA	Hinged or Sliding Door
5478 INA	Sliding Door

CODE: Numbers before type indicate width and height.

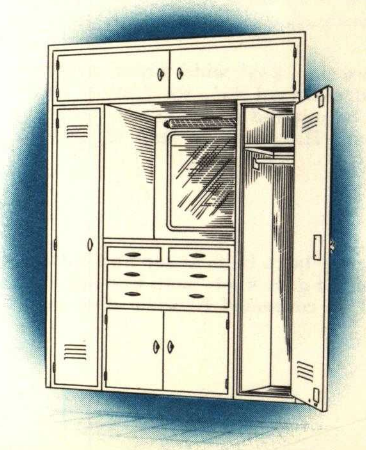
SPECIAL EQUIPMENT

Designed and built to take care of all modern hospital requirements and conform to building conditions.



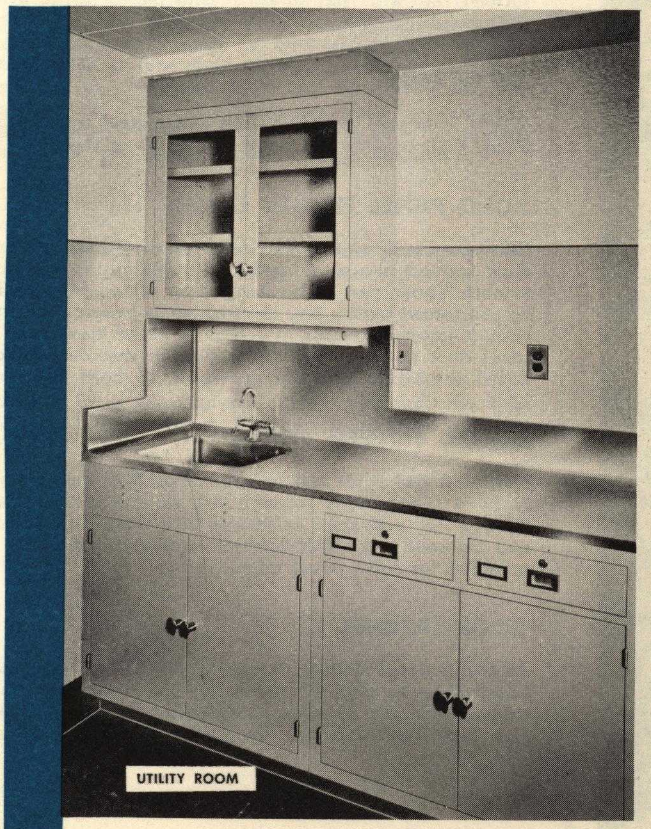
NURSE'S STATION MEDICINE UNIT

With medicine cabinet, built-in narcotic chest, stainless steel medicine sink and recessed light.



WARDROBE AND DRESSER UNIT

With blanket storage cabinet, complete with formica dresser top, mirror and built-in light for two patient bedroom.



UTILITY ROOM

GENERAL

This contractor shall provide all materials, labor and equipment required to furnish and install, complete and ready for use, the metal casework equipment required under this section, in strict accordance with drawings and this specification.

QUALIFICATIONS OF CONTRACTOR

All equipment covered by this section shall be made by one contractor who specializes in designing, engineering and manufacturing such products and maintains an experienced force and a properly equipped factory, operated by experienced shop personnel.

SAMPLES

Before the order is placed for this equipment, any bidder, when so requested by the Architect, shall submit to him such samples and at such time as he may stipulate. If the samples submitted are disapproved, the bid of the maker will be rejected. The samples of the successful bidder will be retained (for comparison) until completion of the installation and may, at the contractor's option, be used as part of the installation.

METAL CASEWORK CONSTRUCTION

Where required for proper handling of any item, it may be made in sections or units. Each unit to be of type and size required to assemble item complete and to dimensions indicated without the use of fillers at either end or between units. Sides, top, bottom and back of each unit to be of #18 gauge steel, reinforced where required with #16 gauge steel channels, welded to the outer side thereof. Front edges of unit shall be formed into a channel shape with 1" flat face and shall be rabbeted all around to form door and drawer strikes. Cross rails and intermediate uprights shall have 1" flat fronts and rabbeted same as outer edges of unit. All parts of unit to be securely welded together and front joints shall be ground smooth, making joints invisible. Sides of unit with adjustable shelves shall have slots perforated therein on ½" centers and extending from 6" below the top to 6" above the bottom. Slots to be covered on outer side of unit by channels, tightly welded thereto. (Internally mounted adjustment strips are permitted in insulated units only.) All exposed bottom surfaces such as under side of wall cases and toe spaces under base units shall have soffits. Front edges of soffits to be slightly rounded. Interior surfaces of units must be flush and smooth. Projecting door and drawer rabbets, lock catches and strikes or any other formations or projections that prevent or hinder cleaning are not acceptable. All units shall be so constructed that no vermin, dust, dirt or water can enter except from the front.

COVER MOULDS

Recessed items shall have a mould to cover the space between the case and wall. Cover mould to be of #16 gauge, 1½" wide, with outer edge rounded and projecting ¼" over face of wall.

END PANELS

Exposed ends and both sides of knee spaces on all items shall be finished end panels of #18 gauge steel with front edges formed into a 1" flat pilaster. End panels to be attached to units from the inside so no screw heads are visible from the outside.

SLOPE TOPS

Where indicated, to be of #18 gauge steel with 1" flat fronts and sloped from front to back to an angle of 30 degrees. They shall be attached from the inside of item.

SOLID PANEL HINGED DOORS

Shall be made of two ¾" deep pans with the inner panel telescoping into the outer pan. Front pan shall have its outer edge formed into a channel to eliminate the raw edge. Other edges shall be flanged and all corners welded and ground smooth. Inner pan to be flanged on all edges with its outer edge offset to fit the channel in front pan. Each door to be reinforced with a box channel set between the pans and shall extend full height of door. Both door and case to have slots of proper size for insertion of hinge leaves and shall have heavy angle reinforcements welded to edge and side of inner door panel and behind rabbet of case for support of hinges. Doors shall be sound deadened with Celotex rigid-board insulation securely cemented to both front and rear pans.

GLAZED HINGED DOORS

Hollow metal stiles and rails to be of #18 gauge steel not less than ¾" thick nor more than 2½" wide. Front members to have inner edges formed into quarter round glass stops and outer edges flanged rearward ¾". Rear stiles to be flanged ¾" and shall telescope into front stiles and welded thereto. Glass stops to be mitered at corners to snug fits and fastened with #4 machine screws. Glass to be set into approved rubber channels. Hinges to be applied same as specified for solid panel doors.

DOOR LATCHES

All swing doors shall have up and down bolts equipped with spring actuated stainless steel latch bolts at top and bottom. Latch bolts to protrude from top and bottom edges of door and shall, independent of the door knob, snap into stainless steel strikes and keepers, recessed into rabbets of case. Entire latch mechanism shall be concealed between door pans. Left hand leaf of double doors with lock shall be equipped with an astragal.

METAL CASEWORK

LOCKS

Shall be four tumbler grooved key type, keyed and master keyed as directed. Locks on hinged doors shall set into door knob. Locks on sliding doors to be of the plunger type. Locks on drawers shall be mortised into drawer head.

SLIDING DOORS

Both solid panel and glazed type shall be constructed as specified for hinged doors except that hinges shall be omitted and each door shall operate on two ball-bearing sheaves on stainless steel tracks at bottom and in guides at top of case. Top of track at bottom must be set below the top surface of the bottom of the case. Doors shall be removable but only when partly open. Each door to have a flush pull.

DRAWERS

Outer pan of head to be of #18 gauge steel with all edges formed into ¾″ channels, beveled ¹⁄₁₆″ toward the rear, and all corners welded and ground to a slight radius. Open seams at corners are not acceptable. Inner pan of head to be of #20 gauge steel flanged on all edges and telescoped into the outer pan. Inside of both pans shall be enameled before assembly. Head shall be sound deadened and inner pan removable. Body of drawer to be of one piece of #20 gauge steel with top edges formed into box channels. Back to be of #18 gauge and welded to body. Interior of drawer must be smooth and free from laps and raw edges.

DRAWER SUSPENSIONS

File or letter, cash and card index drawers shall operate on ball-bearing progressive extension slides, allowing full length withdrawal without sag. Other drawers with head surface of 36 square inches or more shall operate on ball-bearing rollers in heavy channels; two rollers set in front of the case channels and two in back of the drawer channels and so spaced that drawer is at all times carried on the rollers.

SHELVES

Interior adjustable shelves to be of #20 gauge steel, flanged downward ¾″ at sides. Flanges to have ⅛″ notches at proper locations to fit into supporting brackets. Front and rear edges of shelves to be double folded and flanged downward ¾″. All shelves over 36″ wide and 18″ deep shall have angle reinforcements welded to the underside. Open channel formations at any edge of shelves is not acceptable. Glass shelves 36″ or less wide shall be plate ¼″ thick and over 36″ wide, ⅜″ thick. Shelves over 48″ wide shall have a chrome plated center support.

FRAMES & APRONS

For counters, knee spaces, etc. to be of #16 gauge steel formed into channel shapes at front bottom edge. Where drawers occur, apron shall be pierced and top edge of opening flanged and rabbeted to receive drawer head. Frame shall have dividers at intervals of 30″ or less flanged on all sides and welded to frame at front and rear.

STAINLESS STEEL TOPS, SINKS and CURBS

To be of #16 gauge with exposed edges formed into channel shapes 1¼″ high. Tops to have curbs where and of heights indicated. Tops of curbs to be formed into channels ¾″ wide. Exposed backs of curbs to be closed and finished same as fronts. Junctions of tops and curbs shall be coved to a radius of 1″. Wall clips for the proper fastening of tops to walls shall be furnished and installed as required. Tops to be reinforced on the underside with box channels spaced to prevent warpage, oil canning and buckling. All joints in tops (except field joints) shall be butt-welded, ground and polished. No solder is permitted on any exposed stainless surface. Underside of tops shall be coated with an approved sound deadener. Where field joints are necessary, sections shall be fitted to a hairline joint and securely connected mechanically on the underside. Tops with sinks shall have raised drain rim 1″ wide x ¼″ high and shall be depressed on either side of bowls for drainage. Sink bowls to be of sizes indicated and so welded to top as to form an integral part thereof. Inside radius of bowls to be not less than ¾″ and bottoms shall be uniformly pitched to the drain indent.

FINISH

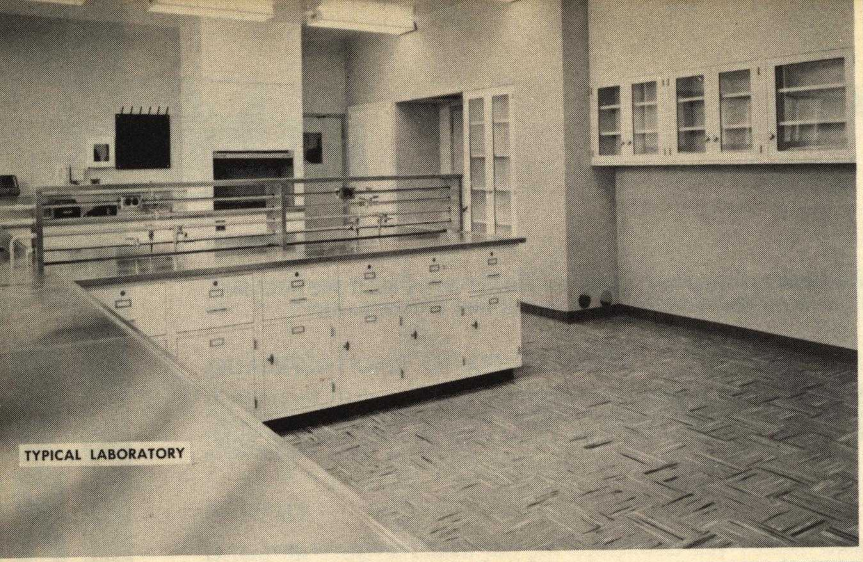
All carbon steel parts are finished to a smooth eggshell gloss of the color selected. Surfaces are properly prepared by sanding and degreasing. Each part is given a baked coat of acid, alkaline and solvent resisting primer. Finishing is performed in a modern conveyorized clean paint department.

STAINLESS STEEL FINISH

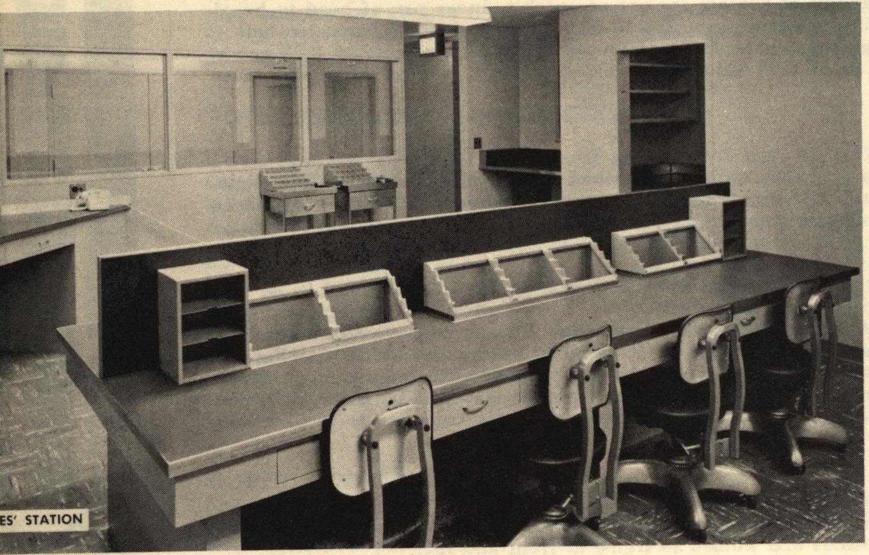
All exposed surfaces shall have #4 satin finish. Tops, sinks and curbs to be of even color. Solder, welding marks, pits or other imperfections or discolorations on any exposed surface will not be accepted. Unexposed surfaces to have #2 finish.

HARDWARE

All hardware, including hinges, shall have satin chrome finish.



TYPICAL LABORATORY



ES' STATION

CASEWORK INSTALLATIONS

St. Luke's Memorial Hospital Center
UTICA, NEW YORK
Egbert Bagg Associates, *Architect*

W. C. A. Hospital
JAMESTOWN, NEW YORK
Beck & Tinkham, *Architect*

Lutheran Hospital
FORT WAYNE, INDIANA
Mox Pohlmeyer & Associates, *Architect*

Highland Hospital
ROCHESTER, NEW YORK
Waasdorp & Northrup, *Architect*

Fairview Hospital
MINNEAPOLIS, MINNESOTA
Ellerbe & Company, *Architect*

Annapolis Hospital
WAYNE, MICHIGAN
Smith, Hinchman & Grylls, *Architect*

Outer Drive Hospital
LINCOLN PARK, MICHIGAN
Smith, Hinchman & Grylls, *Architect*

St. Joseph Riverside Hospital
WARREN, OHIO
Arthur F. Sidells, *Architect*

Keesler Air Force Base Hospital
BILOXI, MISSISSIPPI
U. S. Corps of Engineers, *Architect*

Army Hospital
FORT BRAGG, NORTH CAROLINA
U. S. Corps of Engineers, *Architect*

Army Hospital
FORT BENNING, GEORGIA
U. S. Corps of Engineers, *Architect*

Andrews Air Force Base Hospital
MARYLAND
U. S. Corps of Engineers, *Architect*

Los Angeles County Hospital
LOS ANGELES, CALIFORNIA
Adrian Wilson - Paul R. Williams, *Architect*

Detroit Memorial Hospital
DETROIT, MICHIGAN
Smith, Hinchman & Grylls, *Architect*

St. Mary's Hospital
CENTRALIA, ILLINOIS
Maguolo & Quick, *Architect*

Good Samaritan Hospital
CINCINNATI, OHIO
Maguolo & Quick, *Architect*

Morton Hospital
TAUNTON, MASSACHUSETTS
James H. Ritchie & Associates, *Architect*

Knox County General Hospital
ROCKLAND, MAINE
James H. Ritchie & Associates, *Architect*

Newton Wellesley Hospital
NEWTON LOWER FALLS, MASS.
James H. Ritchie & Associates, *Architect*

University of Maryland
BALTIMORE, MARYLAND
James R. Edmunds, Jr., *Architect*

Lancaster General Hospital
LANCASTER, PENNSYLVANIA
James R. Edmunds, Jr., *Architect*

Illinois Masonic Hospital
CHICAGO, ILLINOIS
Schmidt, Garden & Erikson, *Architect*

Lakeview Hospital
DANVILLE, ILLINOIS
Schmidt, Garden & Erikson, *Architect*

Methodist Hospital
PEORIA, ILLINOIS
Schmidt, Garden & Erikson, *Architect*

Mount Sinai Hospital
CLEVELAND, OHIO
Dalton - Dalton, Associates, *Architect*

Henry Ford Hospital
DETROIT, MICHIGAN
Albert Kahn, *Architect*

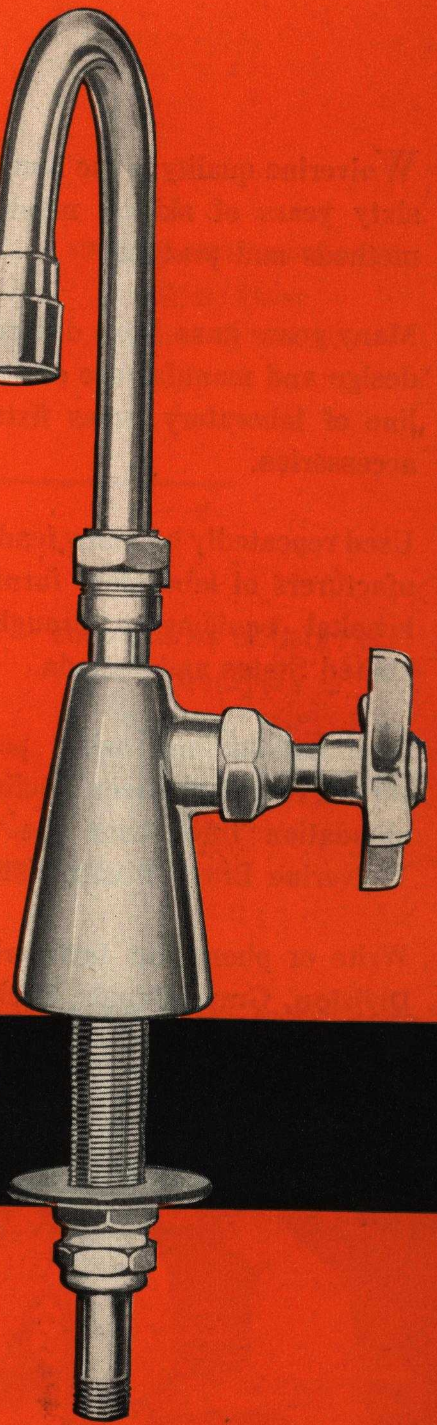
WATSON
JAMESTOWN, N.Y.
U.S.A.

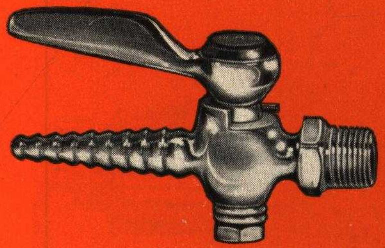
23L
Wo

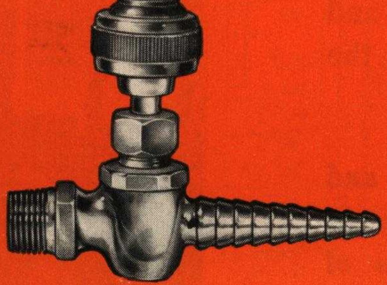
WOLVERINE QUALITY

Knowledge, skill, experience, manufacturer's integrity, have combined to make the "WB" trade-mark a symbol of quality and assurance of long, trouble-free service . . . . .

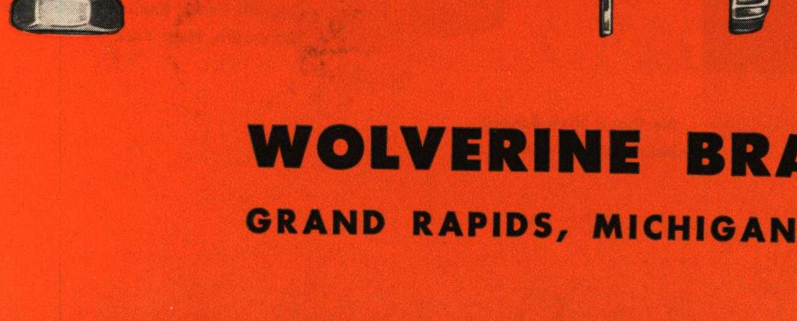
The finest raw materials, sound red brass castings, precision machining, rigid inspection and testing standards.







laboratory brass fixtures and accessories



WOLVERINE BRASS WORKS

GRAND RAPIDS, MICHIGAN

CATALOG D

WOLVERINE

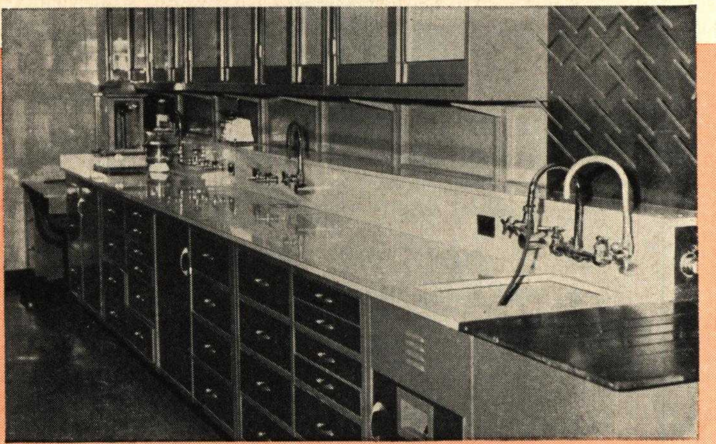
Wolverine quality is the result of over sixty years of skilled manufacturing methods and practice.

Many years have been devoted to the design and manufacture of a complete line of laboratory brass fixtures and accessories.

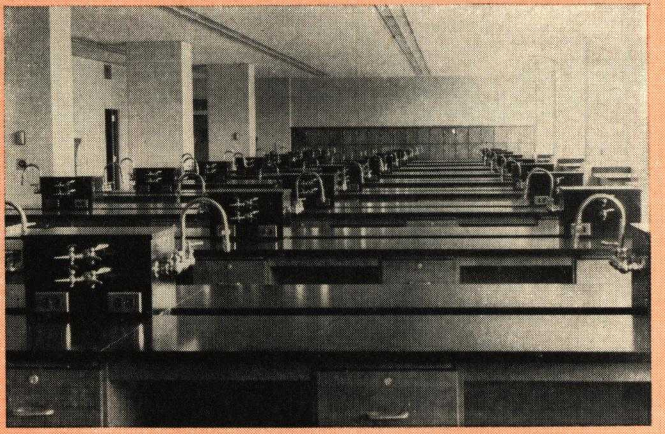
Used repeatedly by many leading manufacturers of laboratory furniture and hospital equipment throughout the United States and Canada.

Our outstanding sales policy and service record has been a solid recommendation throughout the years of Wolverine Brass Works history.

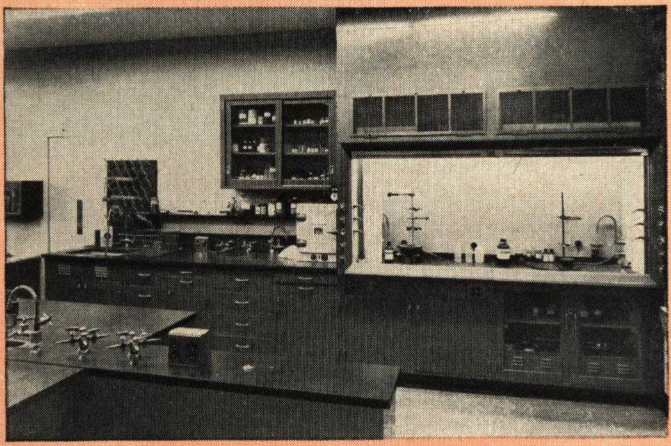
Write or phone our **Industrial Sales Division,** Grand Rapids, Mich. Phone: GLendale 9-3555.



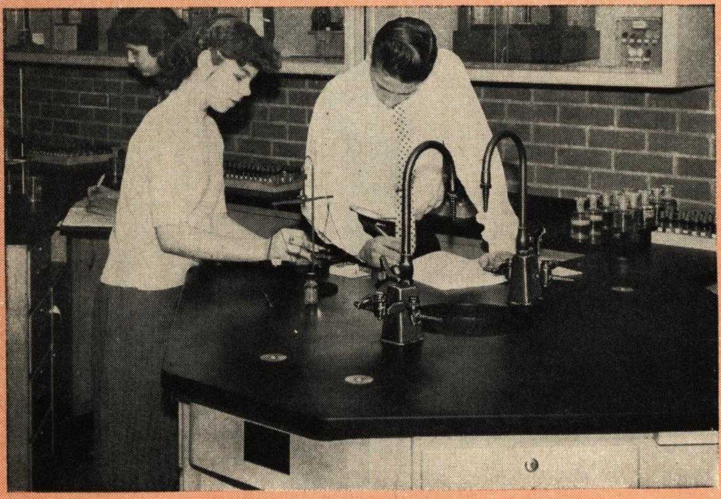
Inorganic Chemical Laboratory
Monsanto Chemical Co.
Creve Coeur, Missouri



Bacteriology Laboratory
Pre-Clinical Medical Building
Howard University, Washington, D. C.



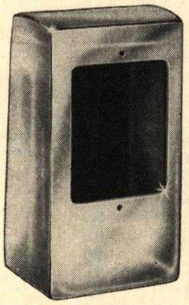
General Foods Research Laboratory
Tarrytown, New York



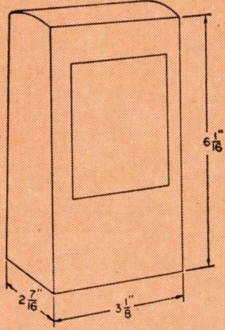
Northport High School
Northport, New York

Copyright 1960 by Wolverine Brass Works

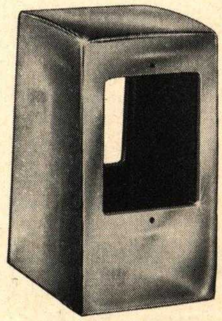
CAST ALUMINUM ELECTRICAL OUTLET BOXES



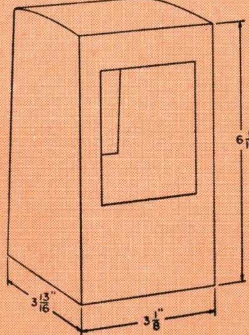
J645P


6 1/16"
2 7/16"
3 1/8"

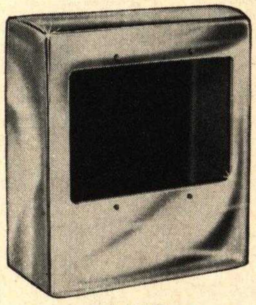
SINGLE GANG SINGLE FACE
Bright Finish
Tapped 1/2" N.P.T.



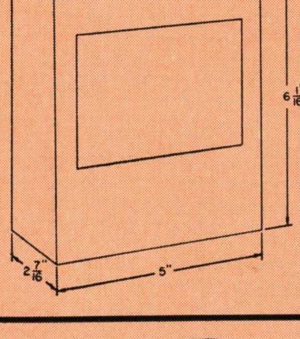
J646P


6 1/16"
3 13/16"
3 1/8"

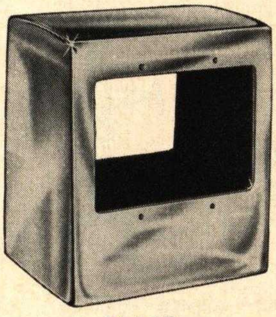
SINGLE GANG DOUBLE FACE
Bright Finish
Tapped 3/4" N.P.T.



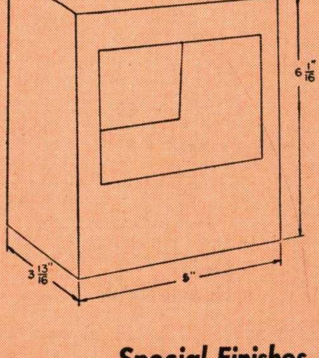
J643P



DOUBLE GANG SINGLE FACE
Bright Finish
Tapped 1" N.P.T.



J644P


6 1/16"
3 13/16"
5"

DOUBLE GANG DOUBLE FACE
Bright Finish
Tapped 1" N.P.T.

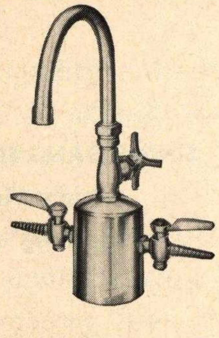
Special Finishes Available Upon Request

LABORATORY RED BRASS FIXTURES

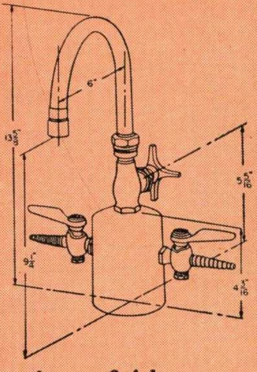
- designed for long, trouble-free service
- all fixtures have removable seats

multi-service fixture for gas, air and water

Index as specified

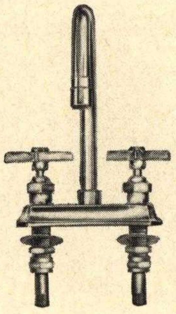


No. 9105C—coupled
No. 9105—rigid



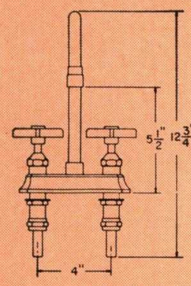
- chrome finish
- 3/8" I.P.S. inlets

double gooseneck faucets with swing, coupled, and rigid goosenecks



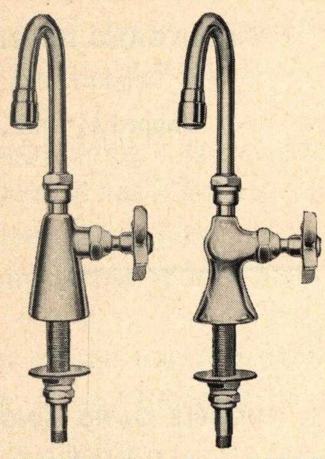
No. 9103

Index as specified



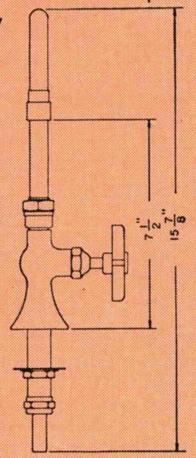
- shanks threaded 1/2" straight I.P.
- 1/4" I.P.S. union tail pieces
- chrome finish

single gooseneck faucets with swing, coupled, and rigid goosenecks

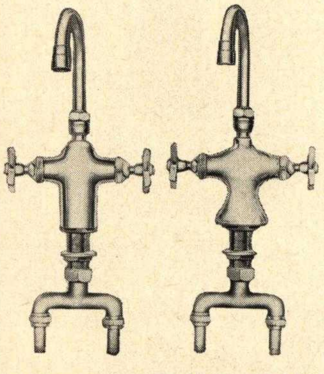


9100MC—coupled—9100C
9100M — rigid — 9100

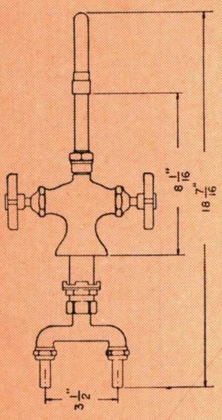
Index as specified



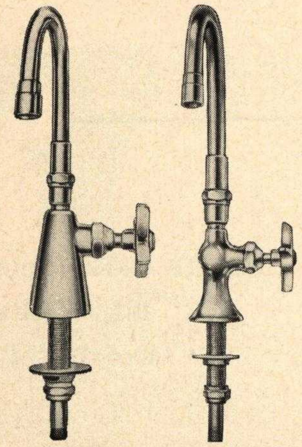
- 1/4" I.P.S. union tail piece
- chrome finish



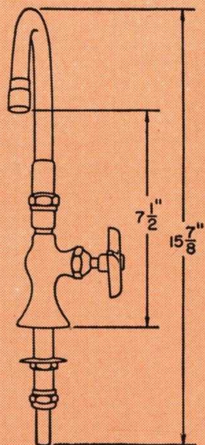
9102MC—coupled—9102C
9102M — rigid — 9102



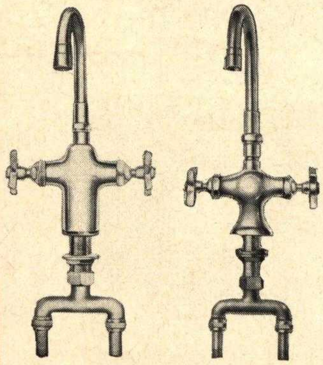
- 1/4" I.P.S. union tail pieces
- chrome finish



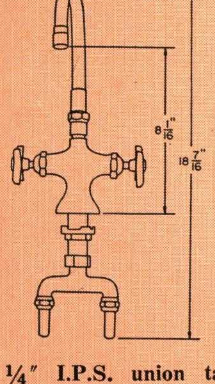
9100MS—swing—9100S



- 1/4" I.P.S. union tail piece
- chrome finish



9102MS—swing—9102S



- 1/4" I.P.S. union tail pieces
- chrome finish

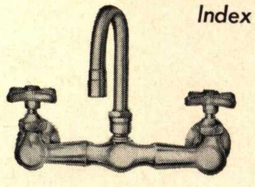
Goosenecks are 3/8" I.P.S. Brass with Straight I.P.S. Outlet for Hose Connections. 6" C to C. Overall Height: Non-coupled 8 7/8", Coupled 7 7/8". Swing—6 1/8".
See No. 9155 for Aerator with Adapter for Gooseneck.

laboratory red brass fixtures

Wolverine Quality

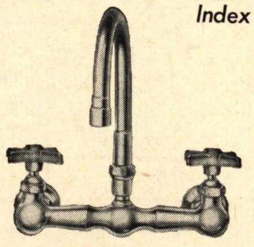
gooseneck faucets with swing, coupled, and rigid goosenecks

Index as specified



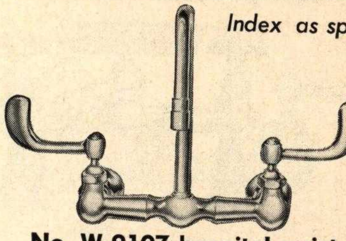
No. H9107C — coupled
No. H9107 — rigid

Index as specified

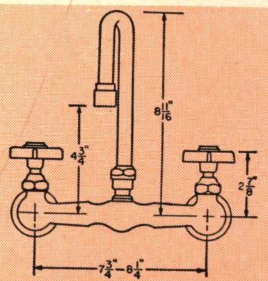


No. H9107S — swing

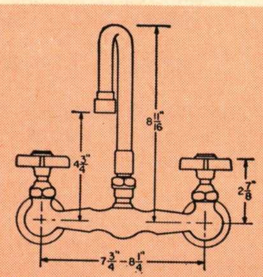
Index as specified



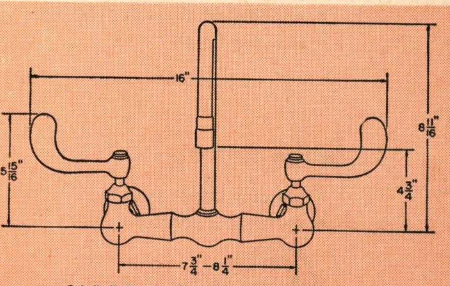
No. W-9107 hospital wrist handles — non-coupled



- 1/2″ I.P.S. female inlets
- adjustable threaded flanges to make up tight to wall
- chrome finish

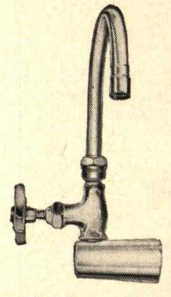


- 1/2″ I.P.S. female inlets
- adjustable threaded flanges to make up tight to wall
- chrome finish



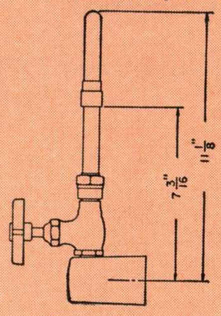
- 1/2″ I.P.S. female inlets
- adjustable threaded flanges to make up tight to wall
- chrome finish

gooseneck panel faucets

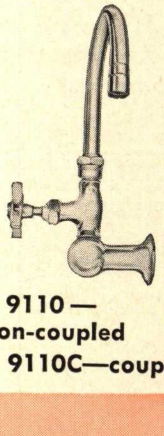


No. 9110A— non-coupled
No. 9110AC—coupled

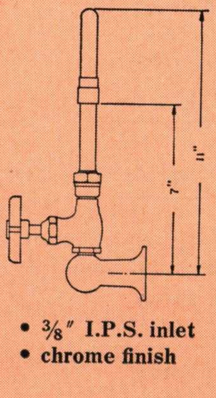
Index as specified



- 3/8″ I.P.S. inlet
- chrome finish

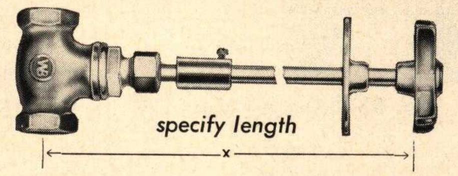


No. 9110 — non-coupled
No. 9110C—coupled

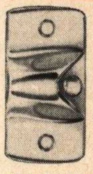


- 3/8″ I.P.S. inlet
- chrome finish

remote control units



J428A

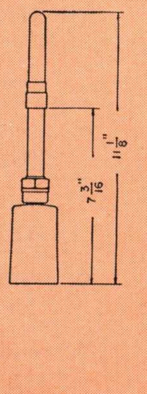


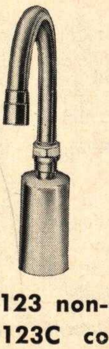
J428B

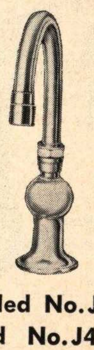
- consists of rough brass needle valve, remote control rod, coupling, and choice of J428, J428A, J428B flanges, and indexed cross handle. Handle, flange and 6″ of rod chrome plated.

- specify valve number from nos. J398B, J320A, J352A, or J319A and center of valve to center of handle measurement; also specify index and type of flange.
  example: J398B R.C. unit 20″ centers, J428 flange index steam.

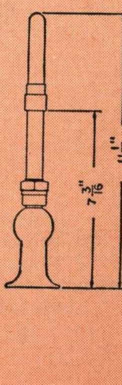
remote control goosenecks







No.9123 non-coupled No.J488
No.9123C coupled No.J488C

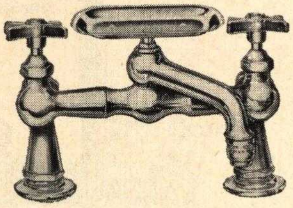


- 3/8″ I.P.S. inlet
- chrome finish

FAUCETS — removable bronze seats

Index as specified

low pedestal faucet

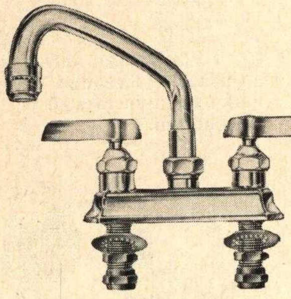


- cast spout — spring-flo aerator
- shanks tapped ½″ I.P.
- adjustable threaded flanges
- chrome finish

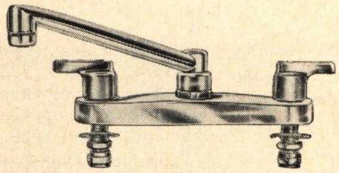
For Shank Connection, see No. 592R

ledge faucets

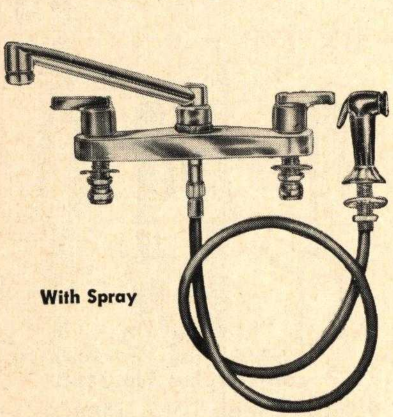
- tubular brass spouts
- spring-flo aerators



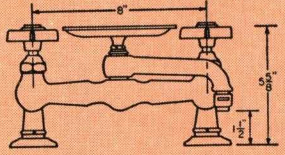
No. 653F



One-Piece Cast Body

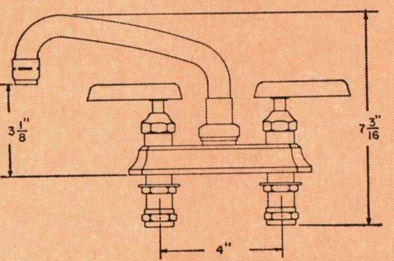


With Spray



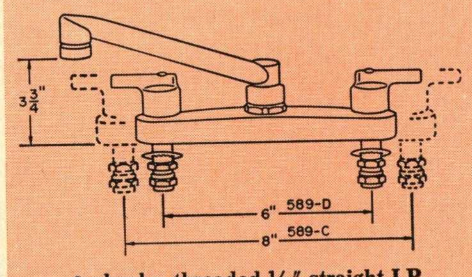
number	spout
590S	**4¾″**
590SX	**8″**
less soap dish	
590SL	**4¾″**
590SLX	**8″**

FOR ADAPTER to connect hose connections to faucet spouts in place of aerator, see No. J450A.



- shanks threaded ½″ straight I.P.
- chrome finish
- 8″ spout

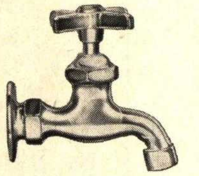
No. 653F



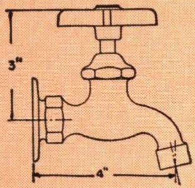
- shanks threaded ½″ straight I.P
- chrome finish
- available in brushed chrome

number	spout
6″ centers —	
589D	**9″**
8″ centers —	
589C	**9″**
6″ centers — with spray	
589DS	**9″**
8″ centers — with spray	
589CS	**9″**

female sink faucet



No. 9120

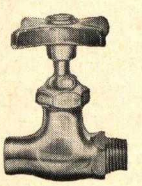


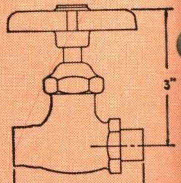
- inlet tapped ½″ I.P.
- outlet tapped ⅜″ straight I.P. for hose connection
- chrome finish

No. 9120

Index as specified

straight compression stop



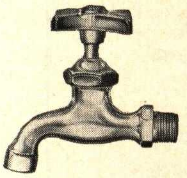


- outlet tapped ⅜″ straight I.P. for hose connection
- chrome finish

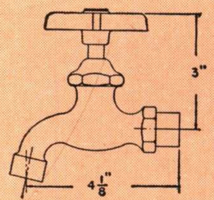
number	inlet
9112	**⅜″ I.P. male**
9112D	**½″ I.P. male**

Index as specified

male sink faucet



No. 9118



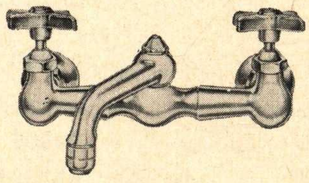
- inlet threaded ½" I.P.
- outlet tapped ⅜" straight I.P. for hose connection
- chrome finish

No. 9118

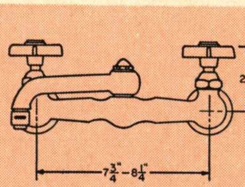
Index as specified

double sink faucet

Index as specified



Adjustable threaded flanges make up tight to wall

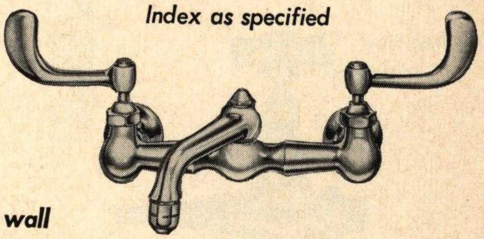


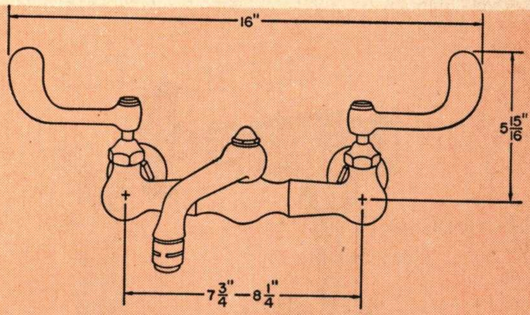
- cast spout — spring-flo aerator
- 7¾" to 8¼" centers
- inlets tapped ½" I.P.
- chrome finish

number	spout
590FL	4¾"
590FLX	8"
with soap dish —	
590F	4¾"
590FX	8"

double sink faucet with hospital wrist handles

Index as specified





- cast spout — spring-flo aerator
- 7¾" to 8¼" centers
- inlets tapped ½" I.P.
- chrome finish
- available with soap dish

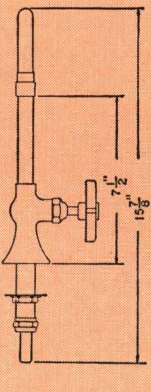
number	spout
W-590½FLB	4¾"
W-590½FLXB	8"

ALUMINUM FIXTURES for distilled and de-ionized water

single gooseneck faucet

No. A9100

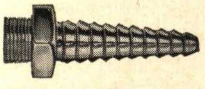
Index DW



- Available for back mounting and right and left-hand operation.
- Teflon packing
- removable seat
- non-coupled gooseneck
- ¼" I.P.S. union tail piece

No. A9100

straight hose connection



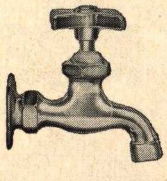
No. A9128B

- ⅛" orifice
- overall length 2¾"
- threaded ⅜" straight I.P.
- 10 serrations

No. A9128B

sink faucets

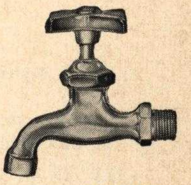
female



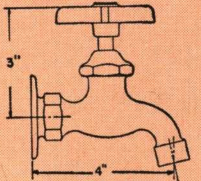
No. A9120

Index DW

male

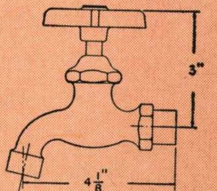


No. A9118



- Teflon packing
- inlet tapped ½" I.P.
- outlet tapped ⅜" str. I.P. for hose connection
- removable seat

No. A9120



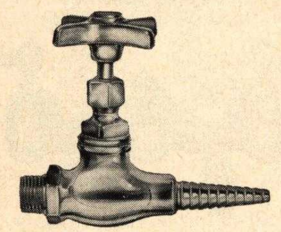
- Teflon packing
- inlet threaded ½" I.P.
- outlet tapped ⅜" str. I.P. for hose connection
- removable seat

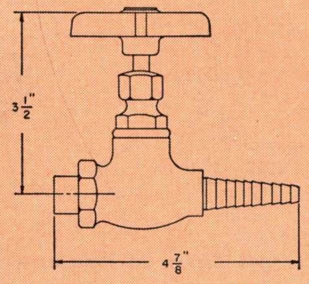
No. A9118

pressure proportioned . . .

NEEDLE VALVES removable hardened stainless steel seat and tip

straight — with integral hose connection





with cross handle —

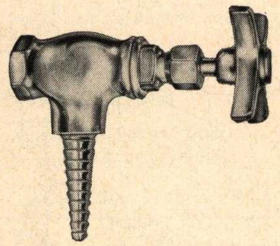
number	threaded	finish
9130	**3/8" I.P.**	**chrome**
9130D	**1/2" I.P.**	**chrome**

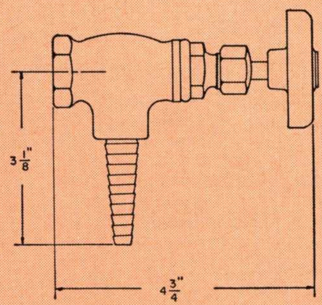
with J219E bakelite handle —

number	threaded	finish
9130E	**3/8" I.P.**	**chrome**
9130DE	**1/2" I.P.**	**chrome**

Index as specified

angle — with integral hose connection





with cross handle —

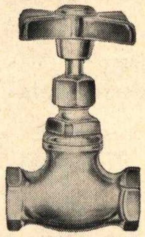
number	tapped	finish
9111	**3/8" I.P.**	**chrome**

with J219E bakelite handle —

number	tapped	finish
9111E	**3/8" I.P.**	**chrome**

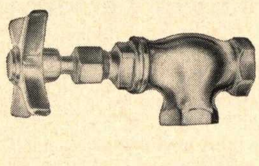
Index as specified

straight



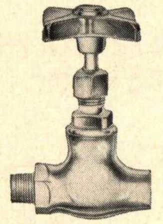
Index as specified

angle

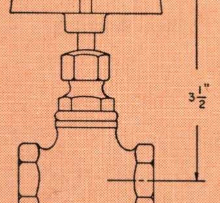


Index as specified

straight— (for hose connection)



Index as specified



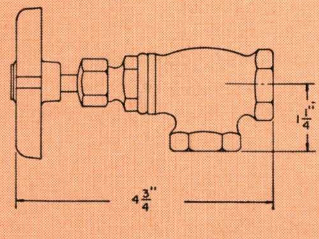
with cross handle —

number	size
J398B	**3/8" I.P.**
J320A	**1/2" I.P.**

with J219E bakelite handle —

number	size
J398BE	**3/8" I.P.**
J320AE	**1/2" I.P.**

Specify Rough Brass or Chrome



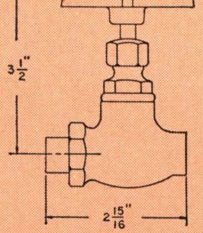
with cross handle —

number	size
J352A	**3/8" I.P.**
J319A	**1/2" I.P.**

with J219E bakelite handle —

number	size
J352AE	**3/8" I.P.**
J319AE	**1/2" I.P.**

Specify Rough Brass or Chrome



- **tapped 3/8" straight I.P. for hose connection**

with cross handle —

number	inlet	finish
J219D	**3/8" I.P. male**	**chrome**
J371C	**1/2" I.P. male**	**chrome**

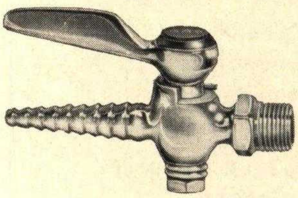
with J219D bakelite handle —

number	inlet	finish
J219DE	**3/8" I.P. male**	**chrome**
J371CE	**1/2" I.P. male**	**chrome**

laboratory red brass fixtures

ACCESSORIES

ground key cock

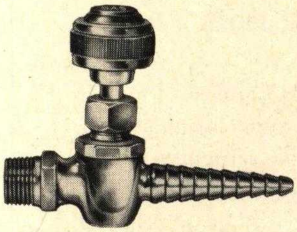


- forged brass — spring loaded
- threaded 3/8″ I.P.
- chrome finish

No. J472A

Index as specified

needlepoint cock



- safety grip handle
- forged brass — Teflon packing
- threaded 3/8″ I.P.
- chrome finish

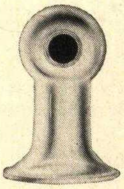
No. 9129

Index as specified

turrets

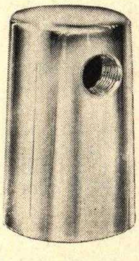
- 1 11/16″ from base to center of outlet
- ball diameter 1 5/8″ — base diameter 2 1/4″
- 3/8″ I.P. inlet and outlet
- chrome finish

number	
9126A	one side outlet
9126B	two side outlets — 180°
9126BA	two side outlets — 90°
9126C	three side outlets
9126D	four side outlets
9126E	two top outlets — 90°
9126F	one top outlet



- 2 1/2″ from base to center of outlet
- ball diameter 1 5/8″ — base diameter 2 1/4″
- 3/8″ I.P. inlet and outlet
- chrome finish

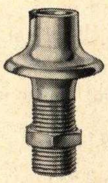
number	
9126AH	one side outlet
9126BH	two side outlets — 180°
9126BHA	two side outlets — 90°
9126CH	three side outlets
9126DH	four side outlets
9126EH	two top outlets — 90°
9126FH	one top outlet



- 2 1/2″ from base to center of outlet
- base diameter 2″
- 3/8″ I.P. inlet and outlet
- chrome finish

number	
9127AH	one side outlet
9127BH	two side outlets — 180°
9127BHA	two side outlets — 90°
9127CH	three side outlets
9127DH	four side outlets
9127FH	one top outlet

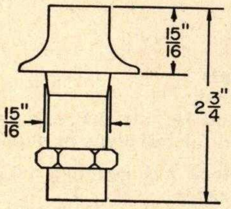
cast flanges

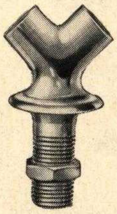


single

- 3/8″ I.P. inlet and outlet
- chrome finish

No. J507

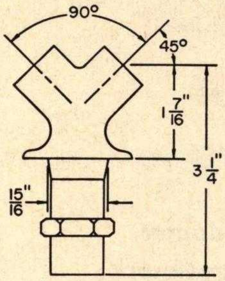




double

- 3/8″ I.P. inlet and outlet
- chrome finish

No. J508



wrought shallow flange

- heavy brass with spring holders
- hole for 3/8″ I.P.
- diameter: 2 11/32″
- chrome finish

No. 2572

wrought deep flange

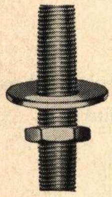
- heavy brass with spring holders
- hole for 3/8″ I.P.
- diameter: 2 3/8″
- chrome finish

No. 2612

ACCESSORIES

shank connections

for turrets



- threaded ⅜″ tapered I.P. both ends and ⅜″ str. I.P. for lock nut
- brass lock nut and heavy washer

3″ long — No. 9135

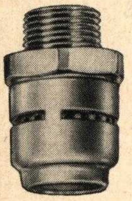
5″ long — No. 9135L

for faucets

- threaded ½″ str. I.P. and taper reamed for tail piece or supply
- brass lock nut, coupling nut and lock washer

3″ long — No. 592R

aerator with adapter for gooseneck



- threaded ⅜″ straight I.P.
- chrome finish

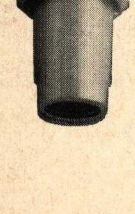
No. 9155

aerator with adapter for gooseneck

- non-removable type
- threaded ⅜″ straight I.P.
- chrome finish

No. 9155W

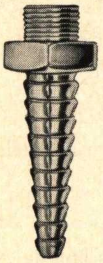
vacuum breaker



- threaded ⅜″ straight I.P.S.
- tapped ⅜″ straight I.P.S. for hose connection
- chrome finish

No. 9170

hose connections



straight

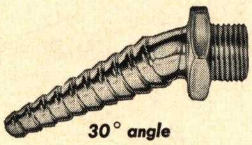
- ⅛″ orifice
- overall length 2¾″
- ten serrations
- chrome finish

threaded ⅜″ straight I.P.:

No. 9128B

threaded ⅜″ tapered I.P. for turret:

No. J305B



30° angle

- ⅛″ orifice
- overall length 2⅝″
- ten serrations
- chrome finish

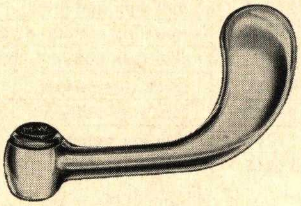
threaded ⅜″ straight I.P.:

No. 9128E

threaded ⅜″ tapered I.P. for turret:

No. J310E

hospital wrist handle

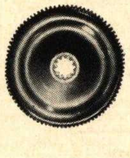


- 4½″ long — 2¾″ high
- chrome finish

No. 9151

Index as specified

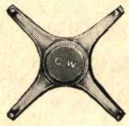
black bakelite handle



- available with spun-in index

No. J219E

forged brass cross handle



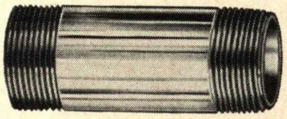
- chrome finish

No. 9152

Index as specified

When ordering handles specify by catalog number the valve or fixture on which they are to be used.

chrome nipples



- perfect threads — no burrs
- 3/8″ full I.P. size

number	
C 3/8 — 1	3/8″ x 1″ (close)
C 3/8 — 1½	3/8″ x 1½″ (short)
C 3/8 — 2	3/8″ x 2″
C 3/8 — 2½	3/8″ x 2½″
C 3/8 — 3	3/8″ x 3″
C 3/8 — 3½	3/8″ x 3½″
C 3/8 — 4	3/8″ x 4″
C 3/8 — 4½	3/8″ x 4½″
C 3/8 — 5	3/8″ x 5″
C 3/8 — 5½	3/8″ x 5½″
C 3/8 — 6	3/8″ x 6″

adapter

- connects hose connections to double sink faucets in place of aerator
- chrome finish

No. J450A

plastic index buttons

snap-in type or plain

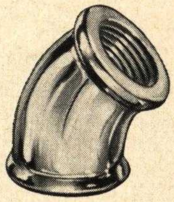
index	color
C.W.	green
H.W.	red
AIR	orange
GAS	blue
STEAM	black
VAC.	yellow
D.W.	white

Index buttons with special colors and engraving available at slight extra cost. See price list.

elbows

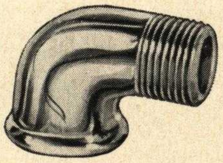
- chrome 90° elbow
- size — 3/8″ I.P.
- 12 in a box

No. 1083



- chrome 45° elbow
- size — 3/8″ I.P.
- 12 in a box

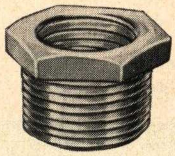
No. 1133



- chrome 90° street elbow
- size — 3/8″ I.P.
- 12 in a box

No. 1158

chrome hexagon bushings

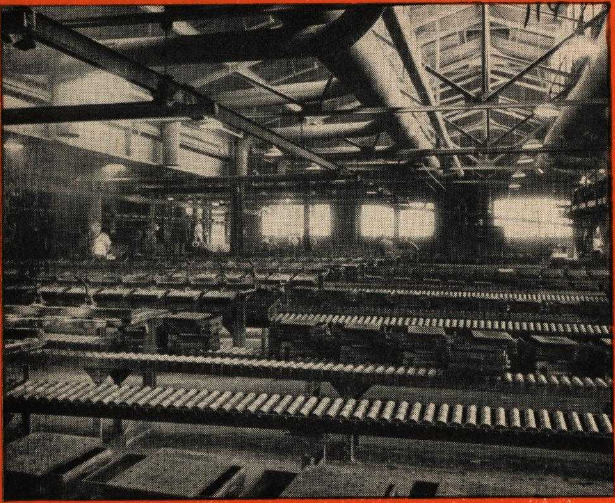


- size ½″ I.P. x 3/8″ I.P.

No. 1453C

special items

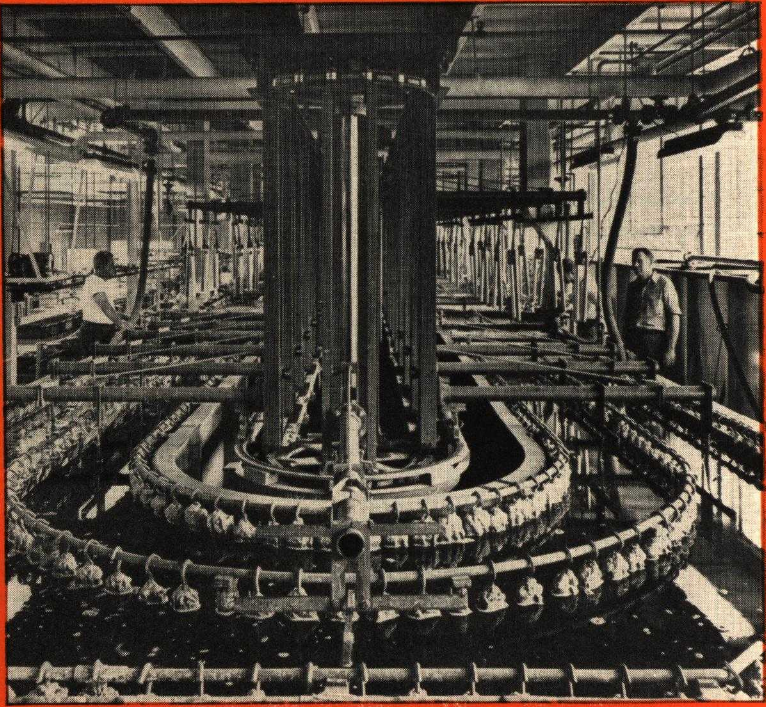
Goosenecks with special height and radius. Turrets with other than 3/8″ I.P.S. tapping. Special finishes and items may be furnished on special order. Prices and delivery upon request.



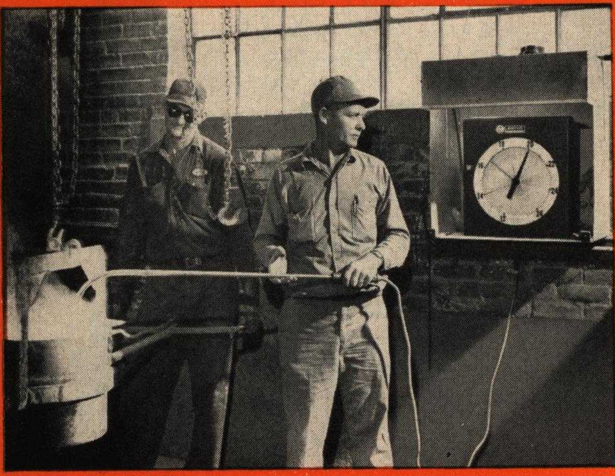
Wolverine's large modern foundry

WOLVERINE BRASS WORKS

648 MONROE AVE.
GRAND RAPIDS, MICHIGAN



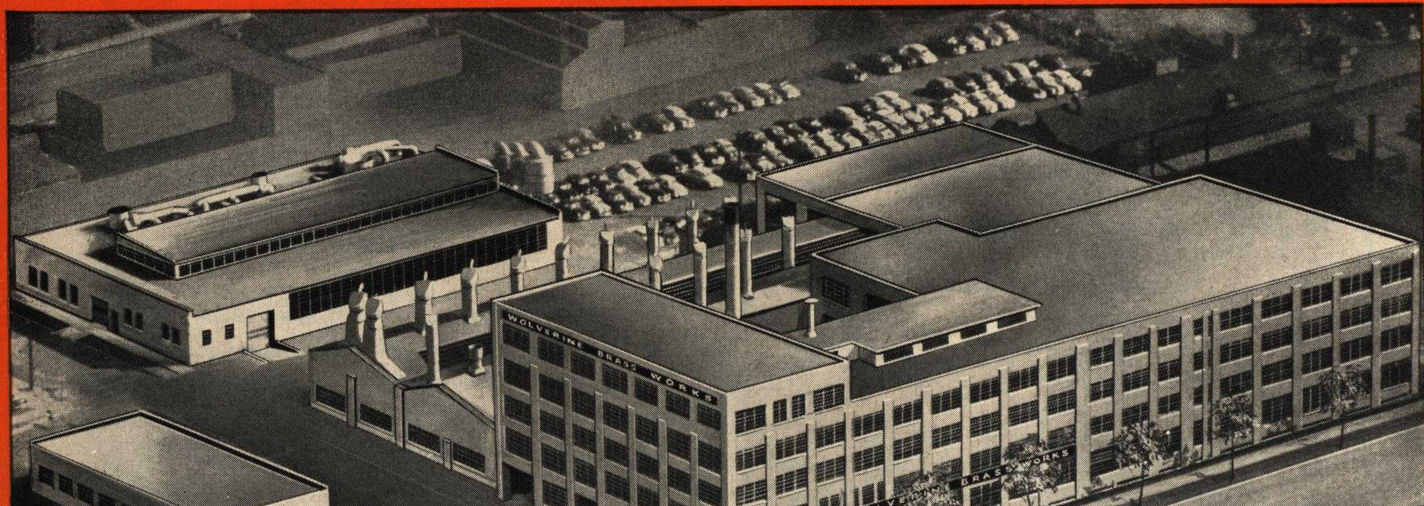
Automatic Plating Machine produces and controls the finest Chrome Plate Finish



Exacting temperature control insures uniformly sound castings

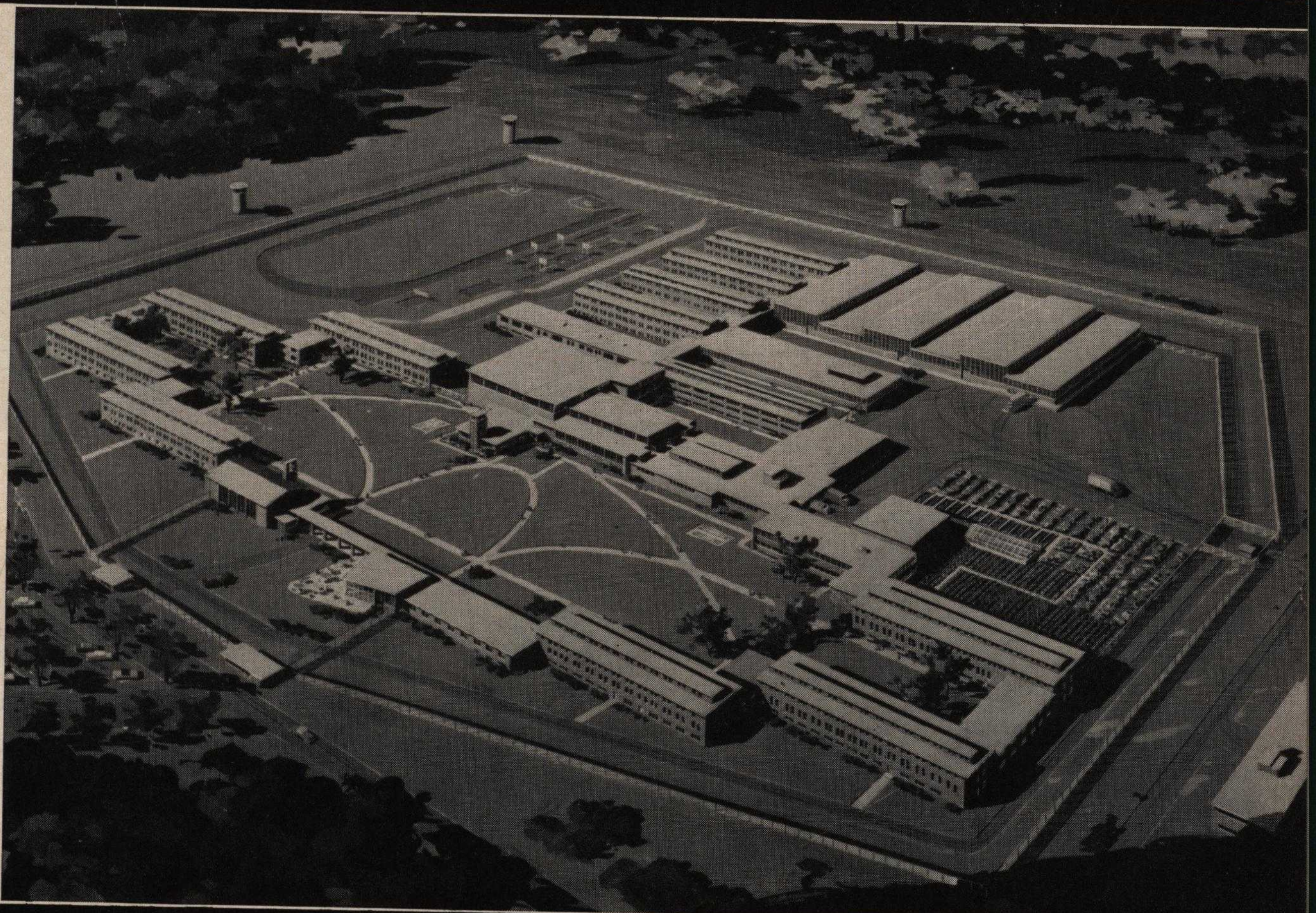
AT YOUR SERVICE—

Phone or Write our Industrial Sales Division,
Grand Rapids, Michigan; Phone: GLendale 9-3555


WOLVERINE BRASS WORKS
WOLVERINE BRASS WORKS
Since 1896

JAN. 1960

Printed in U.S.A.



Institution for
Defective Delinquents
Luzerne County,
Pennsylvania

PLANNING ASSISTANCE

The benefit of our many years of experience as well as engineering service is available at all times to architects, steel fabricators and prison officials as to details of cell arrangement and design.

**LOCKS,
LOCKING DEVICES and
SECURITY EQUIPMENT**

We manufacture locking devices, electric locks and hardware for prisons, reformatories, asylums, jails, juvenile and other types of public institutions.

We have equipped more than 50,000 cells located in prominent penal institutions in the United States and Canada with our locks and devices. That such equipment has given satisfactory service is indicated by the many repeat instalations we have had at the same institutions. More detailed information is available in our complete catalog.

SECURITY
EQUIPMENT

INSTITUTIONAL
HARDWARE

Folger Adam Co.

P. O. Box 1148 • JOLIET, ILLINOIS • Phone: 33438

"ADAMATIC" ELECTRO-MECHANICAL LOCKS

for remotely controlled locking of swinging and sliding doors

Recommended Use	Lock No. Series	Type Door	Dimensions in Inches
Entrance doors, safety vestibules. Heavy duty service.	51-E	Swinging	13½x9x3⅛
Corridor door, wagon and truck gates. Heavy duty service.	55-E	Sliding	15½x6x2⅞
Entrance and corridor doors. Intermittent service.	120-A	Swinging	9¼x4 3/16x3

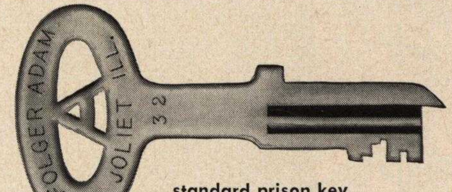
51-E electric lock for swinging doors

INDUSTRIAL LOCKS

Our electric locks and controls are adaptable to industrial use because of their wear resistance and extra security. In addition to standard locks listed, we design special modifications, interlocks, electric bolts and related equipment to meet individual requirements.

KEYS

All locks, except Series 110, 115, 117 and 120-A, are operated by alloy bronze keys 4½ in. long, blades ⅞x5/32 in. These keys are of paracentric type. Special design of key and lock cylinder permits easy and quick insertion. Locks of any series, except as noted above, may be arranged to operate with one common key; viz., in a door with wicket opening, both door and wicket locks may be served by the same key; or a sliding elevator door lock may be served by the same key as an adjoining swinging corridor door.



standard prison key (illustration about ½ size)

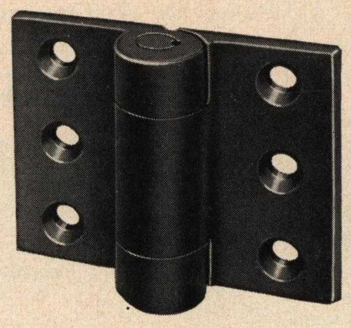
CREMONE BOLT SETS • prison type

Pairs of doors are inherently weak against mass attack. They should be equipped with Cremone Bolt Mechanism comprising head and foot bolt for each door, dead lock control for inactive door and combination snap and dead lock for active door. Foot bolt recesses in floor should be as nearly dust-proof as possible, of non-corrosive material and made for easy removal and cleaning. Specify CR-3D for pairs of doors and CR-3S for single doors. These cremones may be keyed from one or both sides. Case dimensions 8 1/16"x17 5/16"x1⅞" head and foot bolts ⅞" diameter.

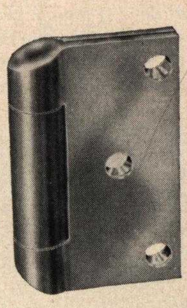
PRISON AND JAIL HINGES • INSTITUTIONAL BUTTS

prison and jail hinges—We manufacture hinges in full surface, half surface and gap types, made of drop forged steel. Leaf widths shown are maximum. Narrower widths are available for various widths of buck flanges. Attachment holes are jig-drilled before assembly to assure accuracy. Standard prison hinges (ADAM #5) are 5" in height x 6½" in width, leaf thickness ½", diameter of hinge pins ¾" with two large totally concealed ball bearings. Provision for lubrication is made on top surface of hinge.

institutional butts—Designed to provide great strength and long life combined with graceful streamlined design. Each leaf is a rugged solid alloy bronze casting. No bent sheet construction or bushings. Two sets of hardened and ground tool steel ball races in each butt. Large and accurately ground ball bearings. Size of butts (ADAM #4½) 4½" x 4½" made of alloy bronze, leaf thickness 3/16".



prison hinge

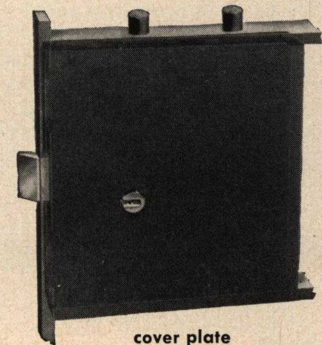


institutional butt

LOCK MOUNTING

Complete units for safely and conveniently mounting prison locks on grille plate and hollow metal doors. Steel welded construction. Prison security screws permit the removal of cover plate for lock cleaning or repairs.

cover plate removed



cover plate installed

MAXIMUM SECURITY LOCKS

Recommended Use	Catalog Number	Dimensions in inches	Type	Bolt Throw in inches	Case and Covers	Tumblers, Lever Type	Bolt
Plumbing space access doors, electric panels	10 series	4¼x3x1¼	Dead lock	⅝	Malleable and steel	5 of brass	Alloy bronze
Wicket and food pass doors, observation panels	15 series	4x2¾x1¼	Snap	⅜	Malleable and steel	5 of brass	Alloy bronze
Individual sliding cell doors, corridor and elevator doors.	30 series	10x3½x1½	Dead-locking Snap	⅝	Malleable and steel	5 of brass	Hard steel
Individual doors for cells, corridors, armories, dining rooms, etc.	60 series	8¼x4½x1½	Combination snap and dead lock	¾	Malleable and steel	5 of brass	Steel with hard inserts
Prison hospitals and entrance doors	60-K series	8¼x4½x1½	Combination snap and dead lock with knobs	¾	Malleable and steel	5 of brass	Steel with hard inserts
Individual doors for cells, corridors, armories, dining rooms, etc.	70 series	8¾x5x1½	Dead-locking snap	¾	Malleable and steel	5 of brass	Steel with hard inserts
Cells, storage rooms, industrial buildings	80 series	5½x3¾x1½	Dead lock	¾	Drop Forged and steel	5 of brass	Steel with hard inserts

INSTITUTIONAL LOCKS

Recommended Use	Catalog Number	Dimensions in inches	Type	Bolt Throw in inches	Case and Covers	Tumblers	Bolt
Wards and individual treatment rooms. Mortice lock for steel and wood doors.	110 series	6⅛x4 3/16x15/16	Spring Latch plus dead lock Knobs included	1	Bronze	Pin Tumbler Mogul Cylinder with Stainless Steel Balls	Bronze
Pre-release rooms	115 series	7 3/16x4 9/16x15/16	Spring Bolt plus dead lock Knobs included	1	Bronze	Same as above	Bronze
Mortice type Cremone for pairs or single hollow metal doors.	117 series	8⅛x9½x1¾ (case size) 10 3/16x9 7/16x3/16 cover plates	Dead bolt	Lock bolt 1 Head and foot bolts ¾	Steel case Steel cover plates	Same as above	Lock bolt: Bronze Head and foot bolts: Steel
Corridors and dining rooms. Outside entrance doors.	60-K series	8¼x4½x1½	Combination snap and dead lock with knobs	¾	Malleable and Steel	5 Lever Type of Brass	Steel with Hard Inserts

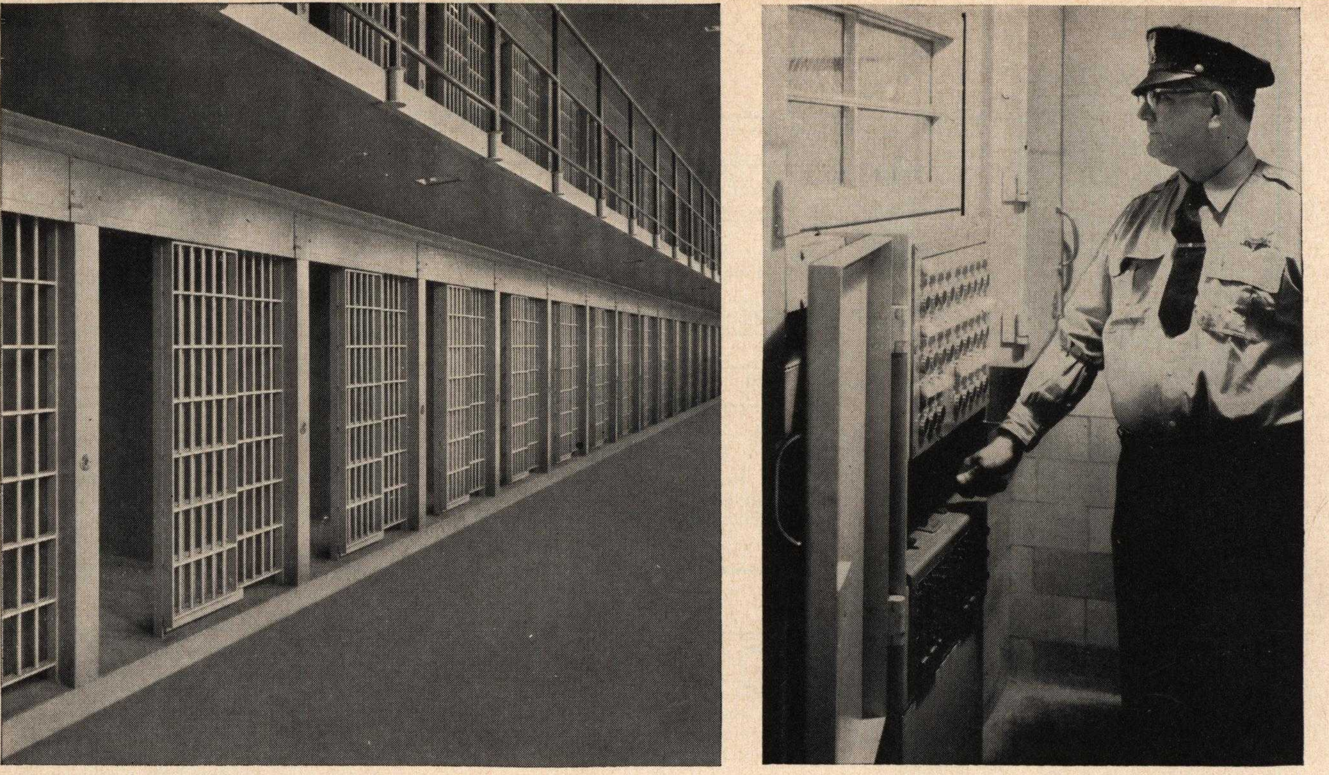
GANG LOCKING AND REMOTE CONTROL DEVICES

Type of Institution	Type	Entire Row, Dead Locking and Unlocking by	Individual Door Selection for Locking and Unlocking by	Safety Device Preventing Deadlocking row if any door is not closed.	Doors or Gates Moved by	Gang Locking Device for
Large prisons	A	Remote control master lever	Key	Yes	Inmate	Sliding cell doors
Prisons and jails	B	Master switch	Push button	Unlocked doors indicated by signal light	Electric motor plus manual emergency	Sliding cell doors
County jails	C	Remote control levers	Index levers	Yes	Officer turning wheel in control cabinet	Sliding cell doors
Prison control areas and entrance gates	D		Push button	Open or closed condition of gate indicated by signal light	Electric motor plus manual in guard area	Sliding corridor doors
Medium security quarters, treatment rooms, women's quarters	E	Master lever	Key	Yes	Inmate	Swinging cell doors
Same as Type "E"	F	Master lever	Key	Yes	Inmate	Sliding cell doors
Prisons and jails	G		Push button	Open or closed condition of gate indicated by signal light	Electric motor plus manual emergency	Heavy sliding vehicle gates
Prisons and jails	J		Push button	Open or closed condition of gate indicated by signal light	Electric motor or manual in guard area	Chain link sliding vehicle gates
Prisons and jails	K	Master switch	Push button	Unlocked doors indicated by signal light	Inmate	Sliding cell doors

No device can meet all institutional requirements, but some one of those listed above will answer any problem. The type of institution is shown in first column, our catalog designation follows in column two. What the device accomplishes and how it is accomplished are shown by following across page in same horizontal column.

See Front Cover . . . . for **PLANNING ASSISTANCE**

SECURITY EQUIPMENT



Keyless Selective Electric Locking Device

WE ALSO MANUFACTURE

- Key Cabinets
- Door Pulls
- Security Screws
- Spanner Screws
- Cell Mirrors
- Cell Bunks
- Clothes Hooks
- Door Rollers
- Speaking and Observation Panels
- Cell Lighting Fixtures

A FEW PROMINENT INSTALLATIONS

California Medical Facility
Vacaville, California

California Institute for Men
Chino, California

California Institute for Women
Corona, California

California State Prison
Soledad, California

California State Prison at Folsom
Repressa, California

California Vocational Institution
Tracy, California

Wisconsin State Prison
Waupun, Wisconsin

Wisconsin State Reformatory
Green Bay, Wisconsin

U. S. Penitentiary
Leavenworth, Kansas

West Virginia Penitentiary
Moundsville, West Va.

Maryland Penitentiary
Baltimore, Maryland

Institution for Defective Delinquents
Luzerne County, Pennsylvania

The Penitentiary of New Mexico
Santa Fe, New Mexico

Chicago House of Correction
Chicago, Illinois

South Dakota Penitentiary
Sioux Falls, S. D.

U. S. Penitentiary
Atlanta, Georgia

Federal Correctional Institution
Englewood, Colorado

Medical Center for Federal Prisoners
Springfield, Missouri

Federal Reformatory for Women
Seagoville, Texas

Illinois State Penitentiary
Stateville, Illinois

Illinois State Penitentiary
Joliet, Illinois

Illinois State Penitentiary
Pontiac, Illinois

South Carolina Penitentiary
Columbia, S. C.

Lebanon Correctional Institution
Lebanon, Ohio

Idaho State Penitentiary
Boise, Idaho

United States Disciplinary Barracks
Ft. Leavenworth, Kansas

Illinois State Penitentiary
Menard, Illinois

Illinois State Reformatory
Sheridan, Illinois

Illinois State Security Hosp.
Chester, Illinois

Minnesota State Prison
Stillwater, Minnesota

Minnesota State Reformatory
St. Cloud, Minnesota

Indiana State Prison
Michigan City, Indiana

Indiana Reformatory
Pendleton, Indiana

Michigan State Prison
Jackson, Michigan

State House of Correction
Marquette, Michigan

Connecticut Reformatory
Cheshire, Connecticut

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Folger Adam Co.

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California Representative J. Royden Estey & Associates, Engineering Sales
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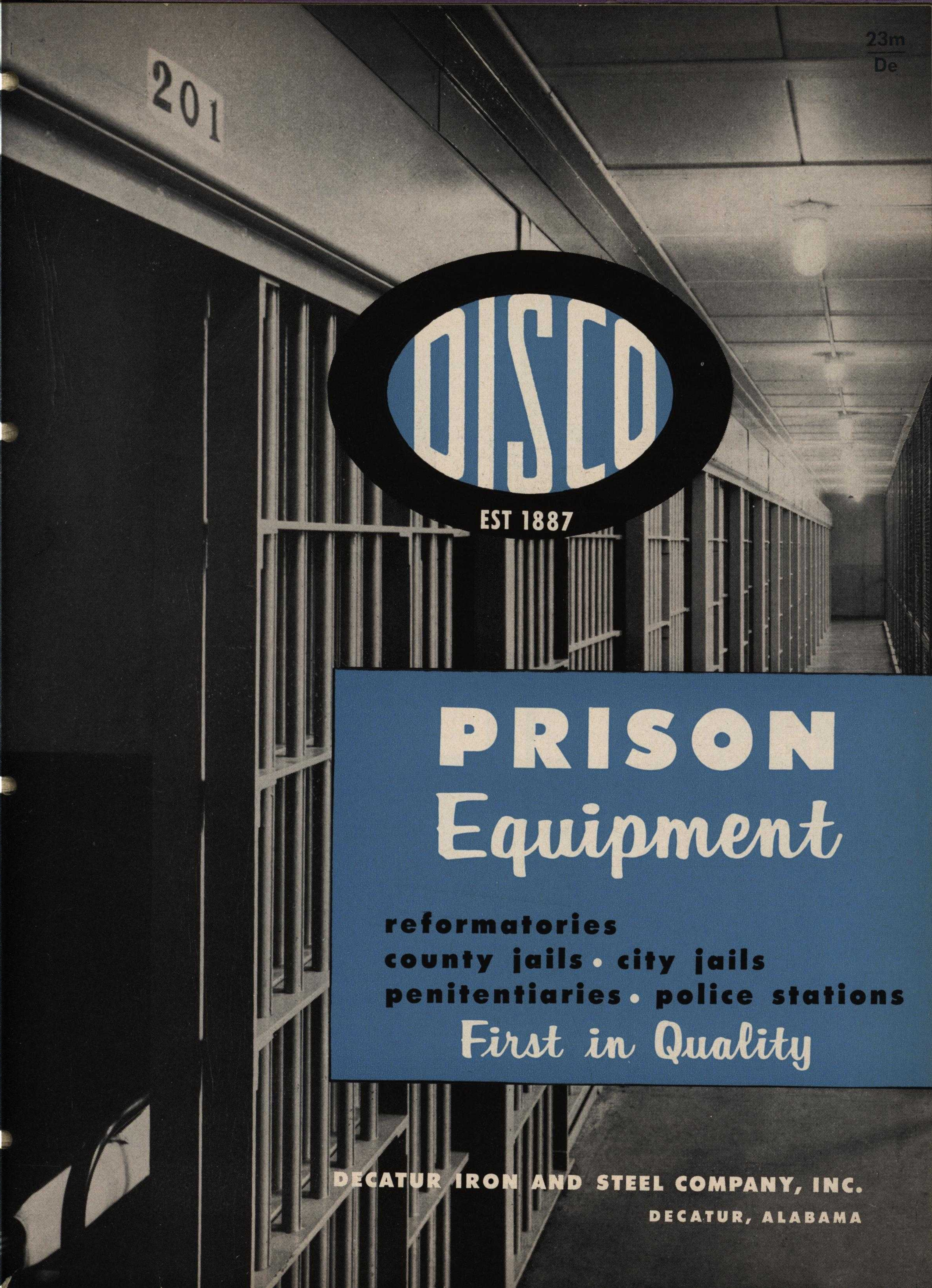

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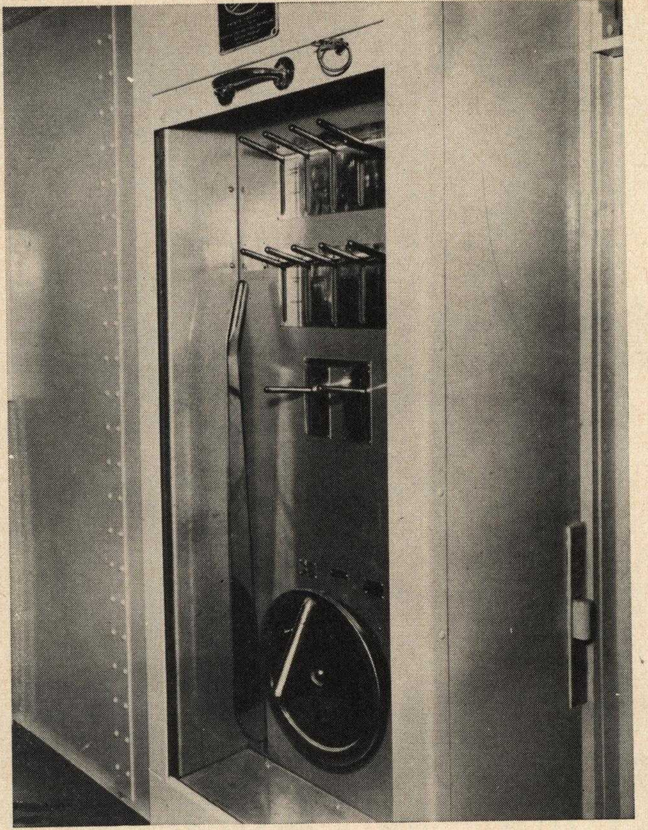
EST 1887

PRISON
Equipment

reformatories
county jails • city jails
penitentiaries • police stations

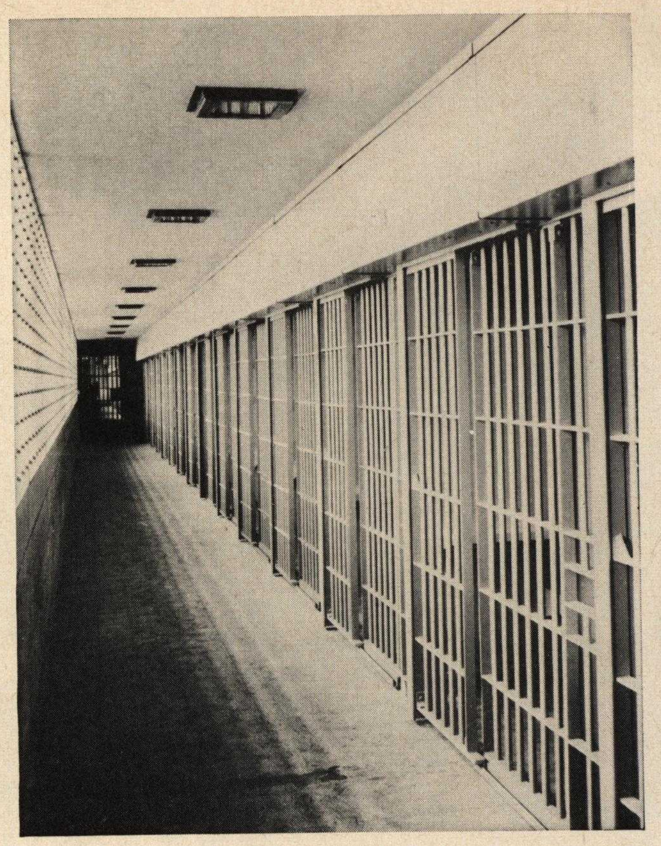
First in Quality

DECATUR IRON AND STEEL COMPANY, INC.
DECATUR, ALABAMA



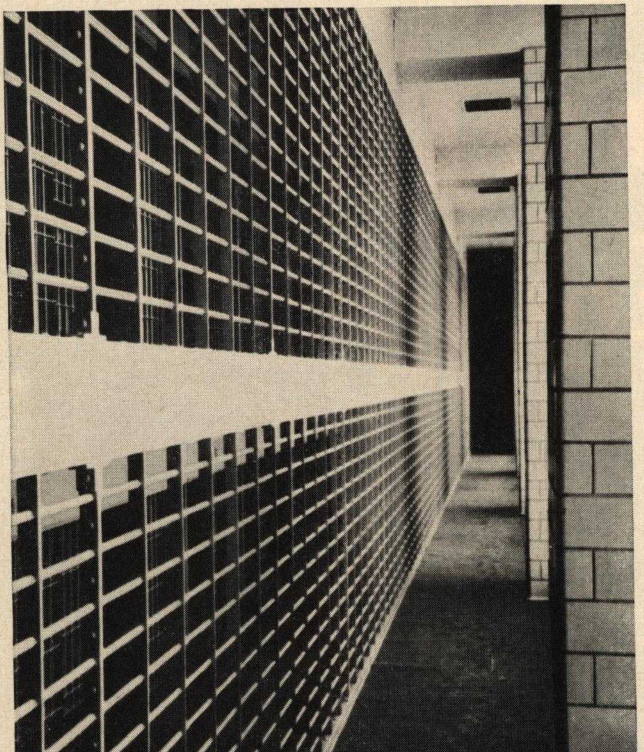
CONTROL CABINET

ERIE COUNTY JAIL ADDITION
BUFFALO, NEW YORK



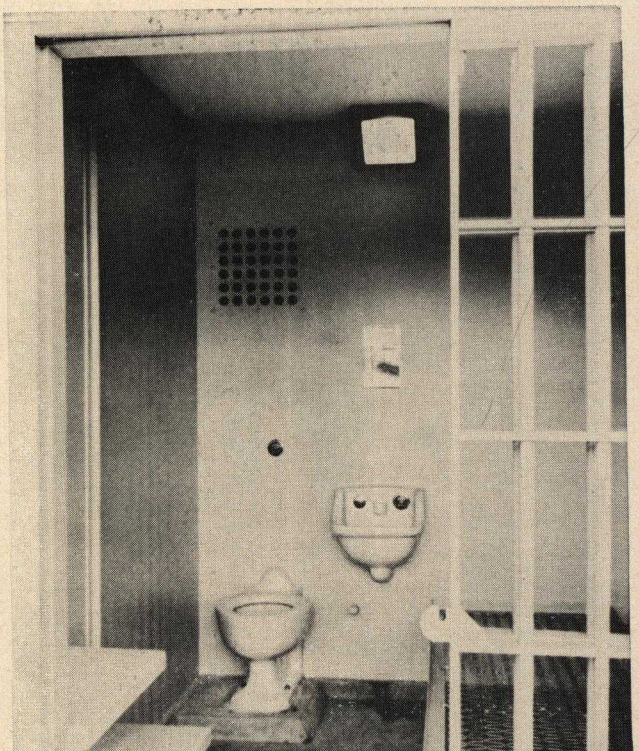
PRISONER'S CORRIDOR

HOUSE OF DETENTION FOR MEN
BROOKLYN, NEW YORK



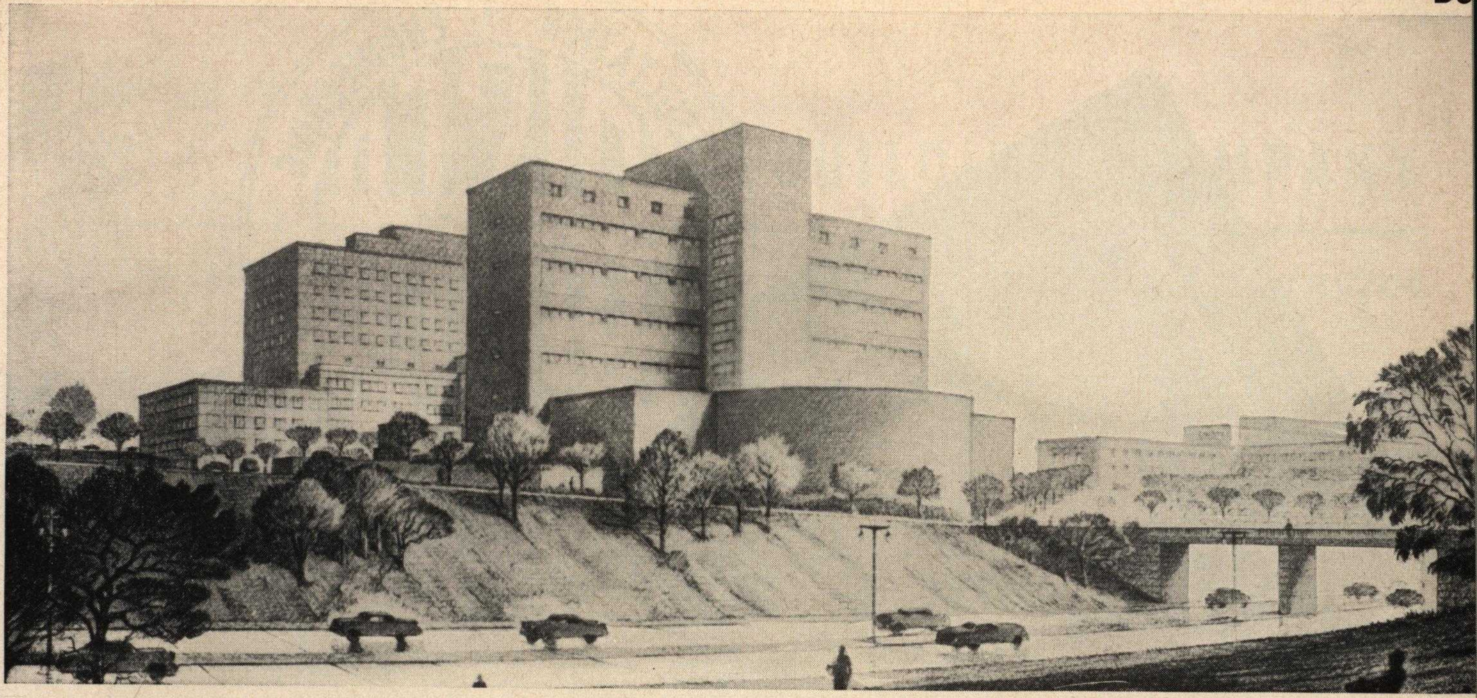
GUARD'S CORRIDOR—MODERN TYPE GRILLE

HOUSE OF DETENTION FOR MEN
BROOKLYN, NEW YORK



INTERIOR VIEW OF CELL

HOUSE OF DETENTION FOR MEN
BROOKLYN, NEW YORK



CRIMINAL COURT BUILDING & PRISON, BOROUGH OF QUEENS, CITY OF NEW YORK
View of Prison & Rear of Court House from Van Wyck Expressway
Frederick H. Zurmuhlen, P.E., R.A. Commissioner, Dept. of Public Works
Alfred Easton Poor & William Gehron, Associated Architects, New York, N. Y.

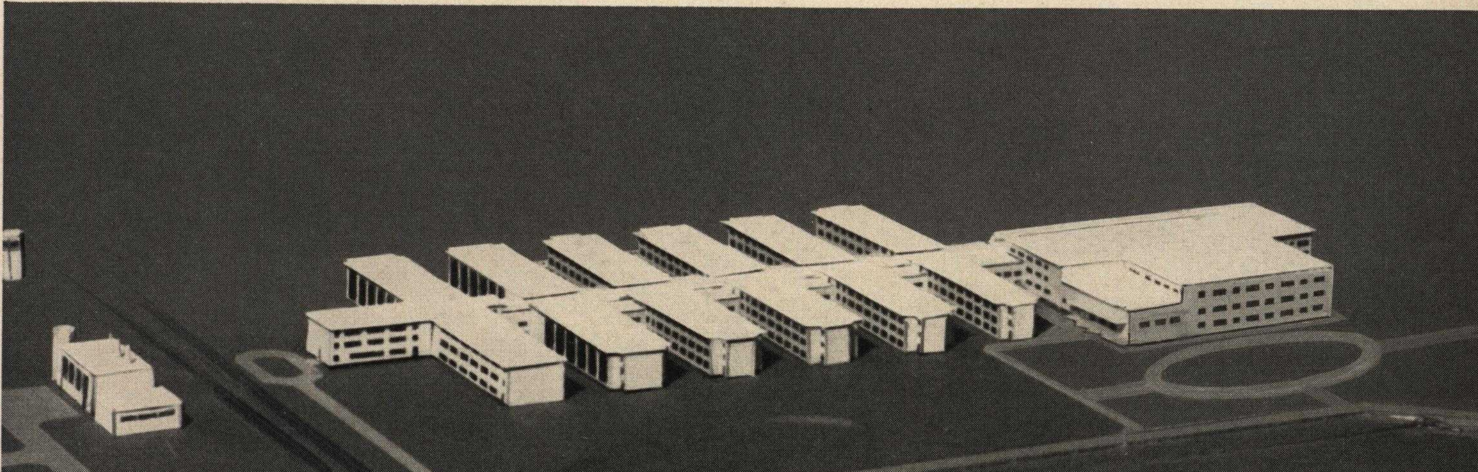
We manufacture a complete line of equipment for institutions of detention, with the quality and workmanship expected of one of America's largest manufacturers of Steel Jail and Prison Equipment.

Construction, design and fabrication are engineered to provide security for the inmates and safety for attendant personnel.

Equipment such as steel tables and seats, protected light fixtures, safety observation and speaking panels, concealed security doors, aluminum detention windows, plate and grating construction, incorporating *tool resisting* steel and remote control *mechanical* locking and operating devices are fabricated by skilled shop mechanics.

Our engineering staff is composed of *registered* engineers and men of broad experience, who can interpret your plans and intelligently convert them into modern and economical working designs for Jail and Prison Equipment.

You are invited to submit your problems to our Engineering Staff, who will gladly give you the benefit of their years of experience—*without obligation.*



NEW FLORIDA STATE PRISON (BRADFORD COUNTY—PHASE I), RAIFORD, FLORIDA
Kemp, Bunch & Jackson, Architects and Smith & Gillespie, Associates
Associated Architects-Engineers, Jacksonville, Florida
George W. Aderhold, AIA, Consultant, Oklahoma City, Oklahoma

DECATUR, ALABAMA

CONSULTATION • ENGINEERING

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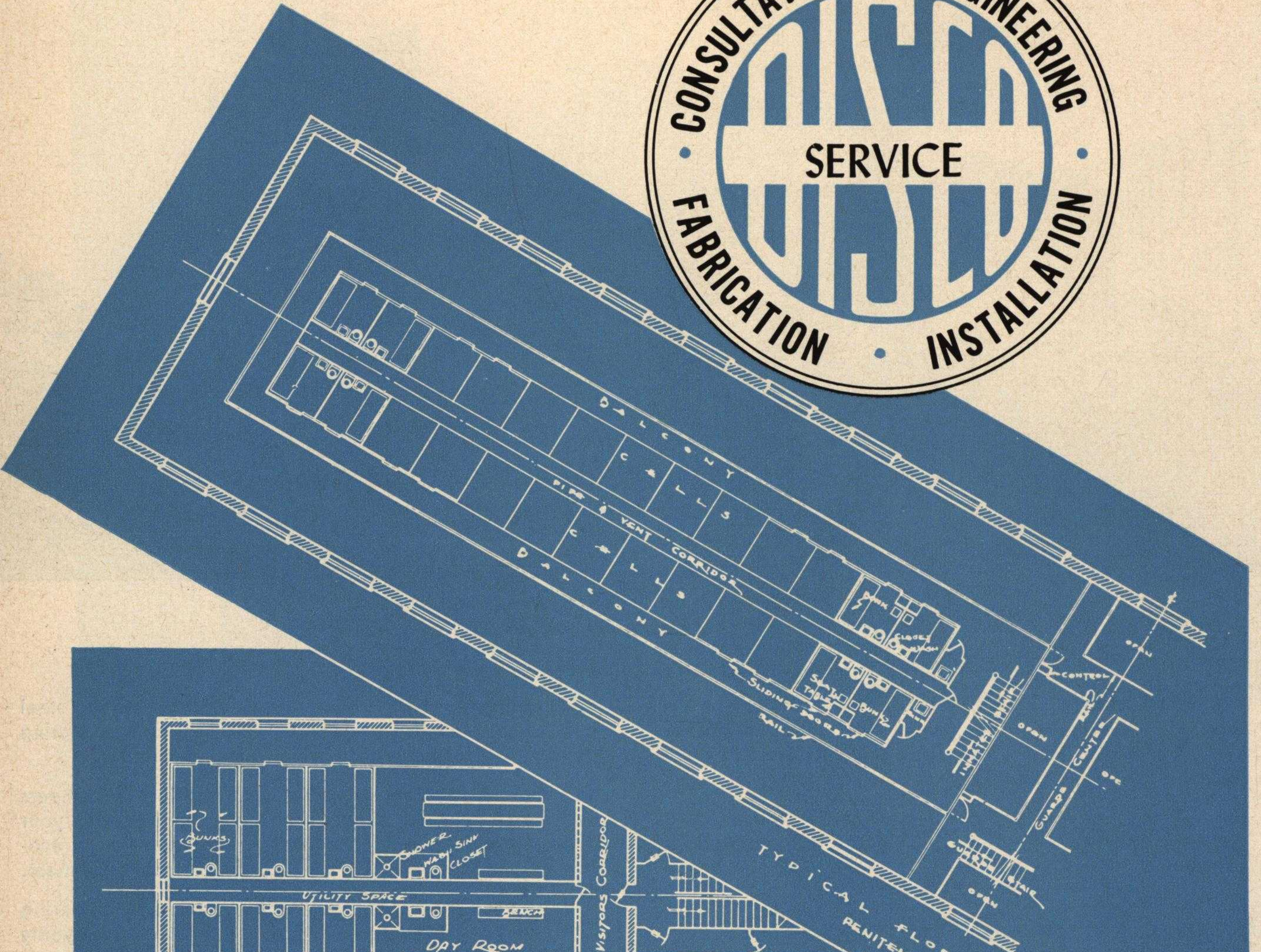
SERVICE

FABRICATION • INSTALLATION


BALCONY
CELLS
PIPE & VENT CORRIDOR
CELLS
BALCONY
BUNK
CLOSET
WASH
SEAT
TABLE
BUNK
SLIDING DOOR
RAIL
CONTROL
OPEN
GUARDS CENTER
OFF
STAIR
TYPICAL FLOOR PENITENTIARY PLAN
BUNKS
SHOWER
WASH SINK
CLOSET
UTILITY SPACE
BENCH
DAY ROOM
SEAT
TABLE
SEAT
SLEEPING COMPARTMENTS
VISITORS CORRIDOR
BUNK
CELLS
CELLS
PRISIONERS PASSAGE & GUARDS INSPECTION CORRIDOR
GUARD CONTROL SPACE
INSPECTION CORRIDOR
SECOND FLOOR PLAN COUNTY JAIL
GUARDS CORRIDOR
BUNK
SINGLE CELLS
PIPE SPACE
BENCH
CELLS
SHOW-UP PLATFORM & LIGHT
SEAT
EXERCISE ROOM
IDENTIFICATION & VISITORS CORRIDOR
PROPERTY ROOM
DESK SRGT.
LOBBY
KITCHENETTE
CHIEF DETECT'VES
CLO
CHIEF POLICE
GUARDS CORRIDOR
FIRST FLOOR PLAN DISTRICT CITY POLICE QUARTERS

DECATUR IRON AND STEEL COMPANY, INC. • DECATUR, ALABAMA

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Pauly JAIL BUILDING COMPANY

1856–1960

OVER 100 YEARS OF CONTINUOUS SERVICE

Modern Equipment-

FOR PRISONS, REFORMATORIES, JAILS AND MENTAL HOSPITALS

Pauly JAIL BUILDING COMPANY

Experience Practical knowledge covering design and fabrication of jail equipment now in the files of the Company was accumulated during a period of 100 years by men rich in experience who have been and are, associated with the Pauly Company for many years. Major improvements in detention equipment were originated and developed through their efforts and have been incorporated in cells and jail furnishings purchased by various Municipal, State and Federal Agencies.

Consultation Service Sketches, Details and Specifications for modern arrangements of cell equipment based on Security, Safety and Sanitation will be prepared by our Engineering Department upon receipt of preliminary information from the Architect or Engineer. This service involves neither charge nor obligation.

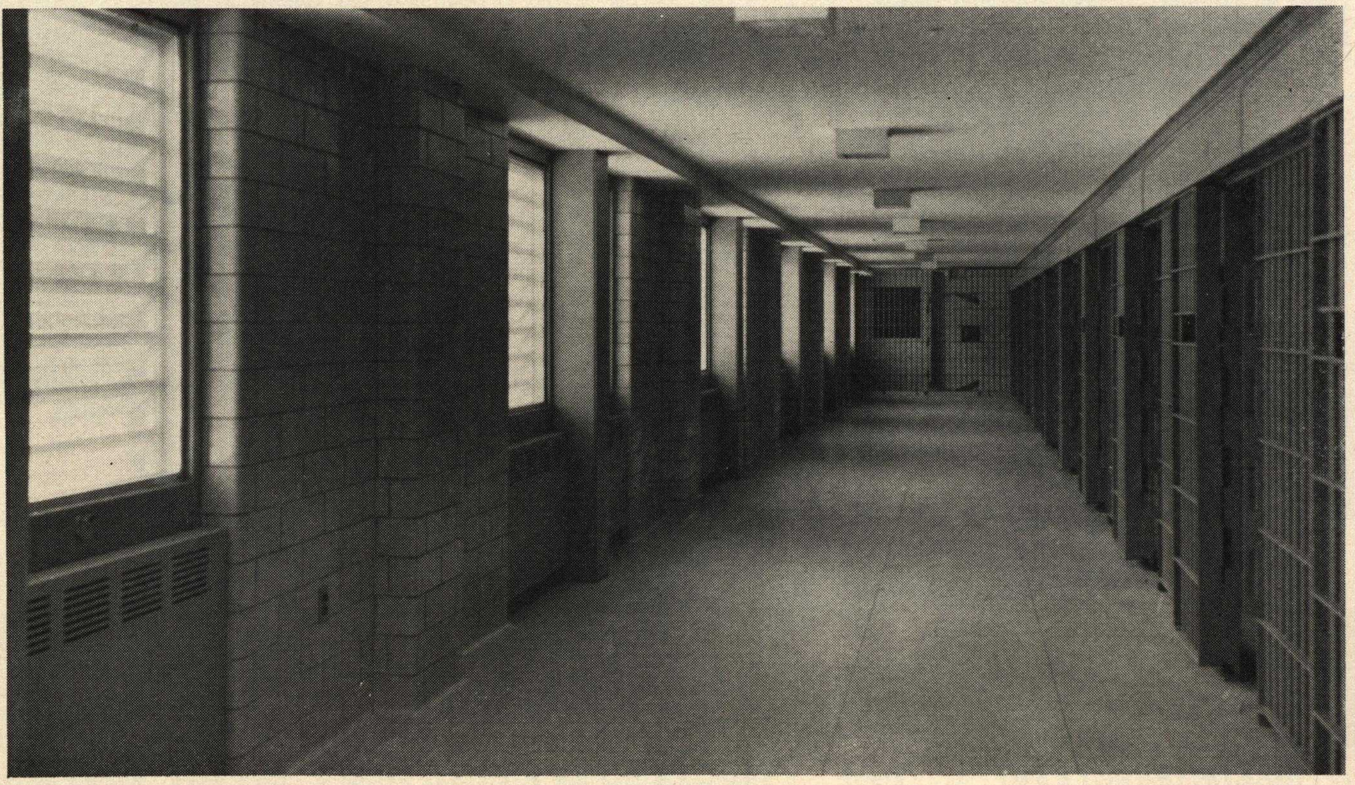
Special Materials and Furnishings Tool resisting steel bars and plates are recommended for all exterior sides forming felon cells, window grilles and exterior doors.

Consultation and observation panels or wickets, seats, tables, benches, bunks, vents, shelves, clothes hooks and electric light boxes are the usual accessories furnished with cell equipment.

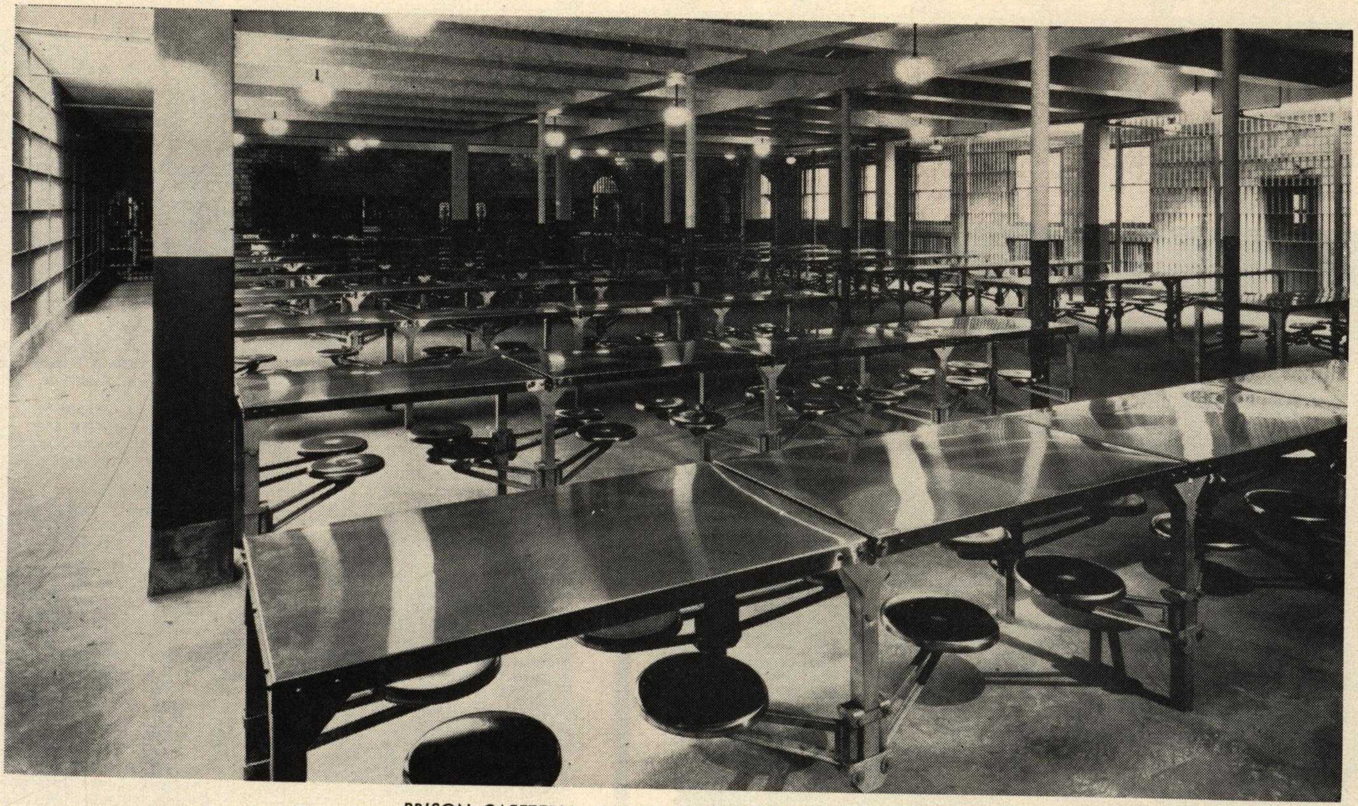
Locking Equipment Pauly semi or fully selective device for sliding or hinged cell doors. Automatic corridor locking mechanism with special safety deadlock. Automatic handpull sliding door locks for police station cells. Manual or mechanical individually or gang operated devices with special locking features for controlling one, any group, or all doors from control station.

Sanitation Proper arrangement of plumbing fixtures including specially designed and constructed shower enclosures.

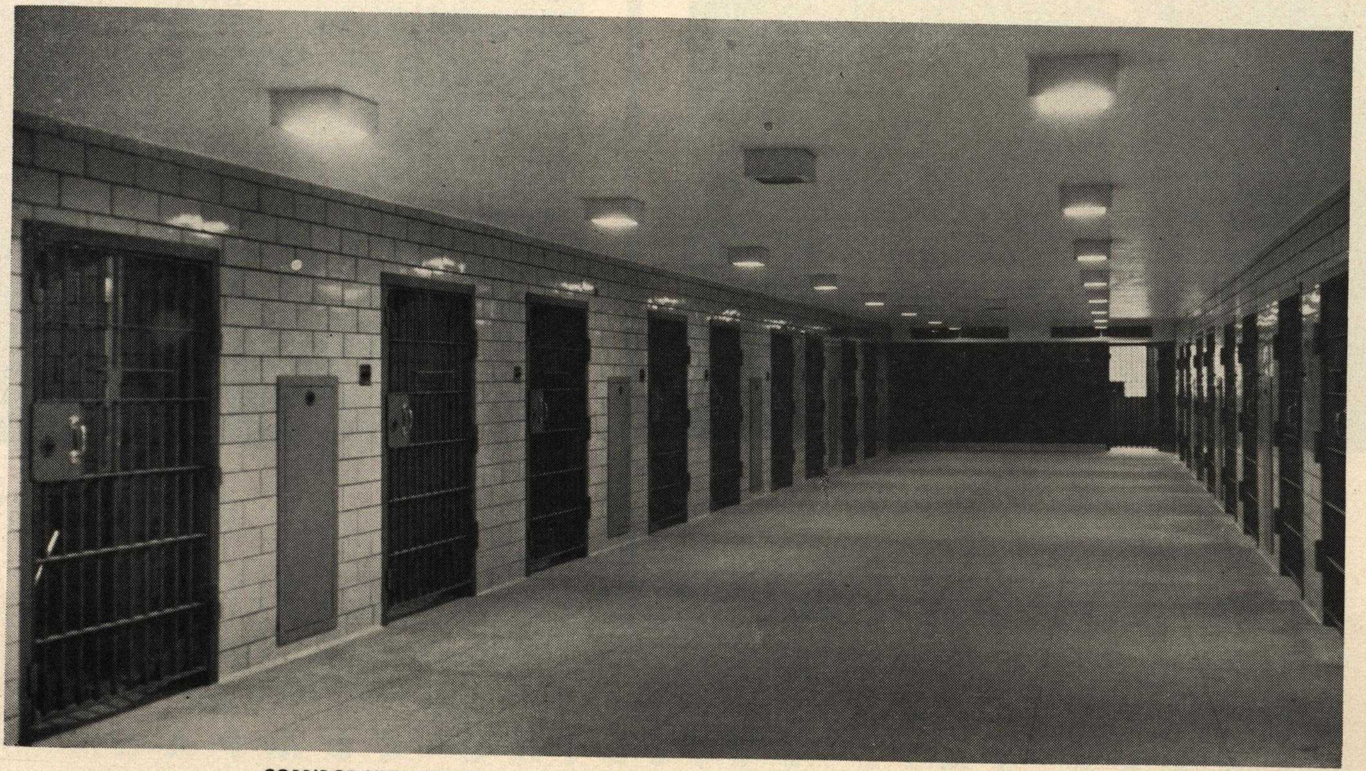
Stainless steel tables and seats for penitentiary and reformatory cafeterias.



JAIL AND PRISON EQUIPMENT

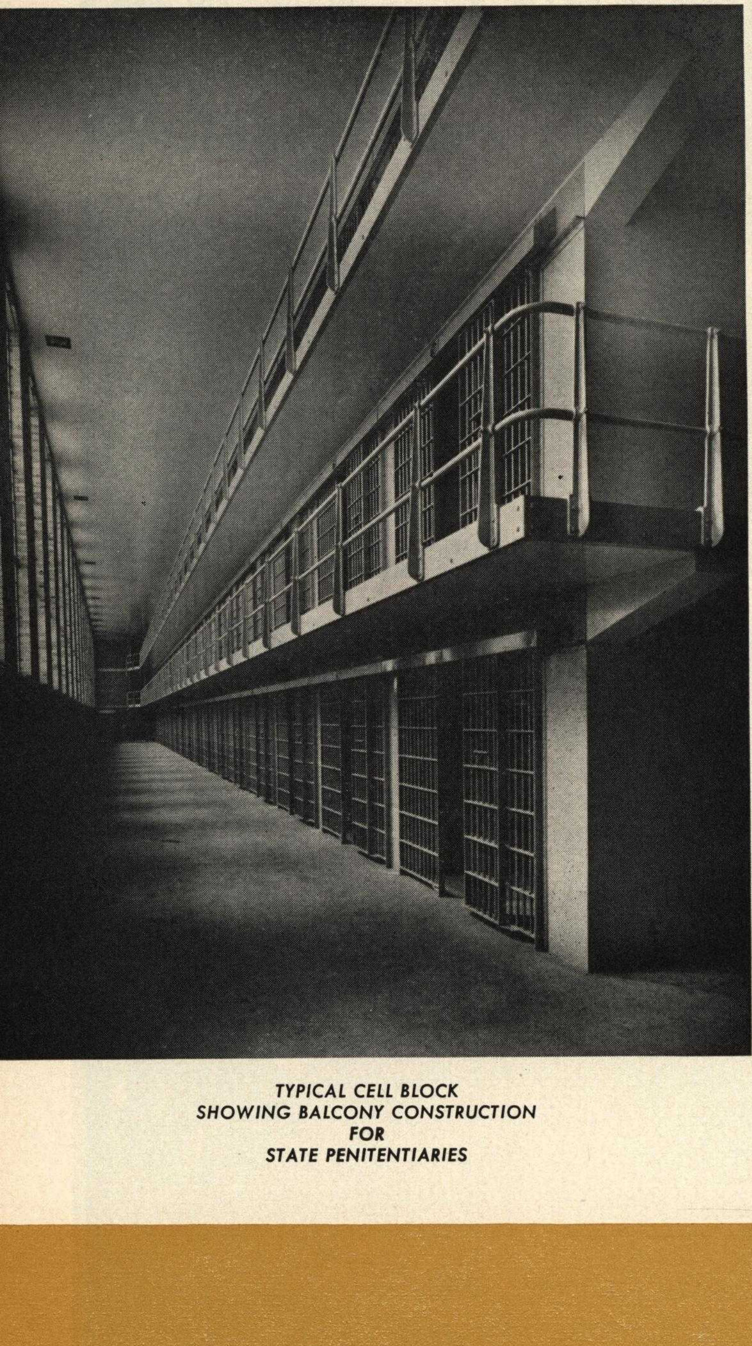


PRISON CAFETERIA—STAINLESS STEEL TABLES AND SEATS



CORRIDOR VIEW MODERN STATE HOSPITAL SHOWING ENTRANCES TO INMATES' ROOMS.

Pioneers of the industry



TYPICAL CELL BLOCK
SHOWING BALCONY CONSTRUCTION
FOR
STATE PENITENTIARIES

SACRAMENTO, CALIFORNIA
SACRAMENTO COUNTY JAIL
Harry J. Devine, Archt.
Sacramento, California

PORT WASHINGTON, WISCONSIN
OZAUKEE COUNTY JAIL
Foeller, Schober, Berners
Safford & John, Archt.
Green Bay, Wisconsin

SALEM, OREGON
MARION COUNTY COURTHOUSE
Pietro Belluschi, Archt.
Portland, Oregon

CLINTON, MISSOURI
HENRY COUNTY JAIL
Andrews & Hutchens, Archt.
Kansas City, Missouri

WILLISTON, NORTH DAKOTA
WILLIAMS COUNTY MEMORIAL
COURTHOUSE
William F. Kurke & Associates, Archt.
Fargo, North Dakota

AUBURN, NEW YORK
CAYUGA COUNTY JAIL
Robert S. Richards, Archt.
John Y. Critchley, Associate Archt.
Auburn, New York

RED BLUFF, CALIFORNIA
TEHAMA COUNTY JAIL
Albert W. Kahl and
Constant Freeman Davis, Archt.
Red Bluff, California

TROY, KANSAS
DONIPHAN COUNTY JAIL
Horner, Fennel & Horner, Archt.
Kansas City, Kansas

INDIO, CALIFORNIA
ADMINISTRATIVE CENTER
RIVERSIDE COUNTY
Williams, Williams,
Williams & John Porter Clark, Archt.
Palm Springs, California

TRENTON, NEW JERSEY
NEW JERSEY STATE HOSPITAL
VROOM BUILDING
Kelly & Gruzen, Archt.
Newark, New Jersey

NASHVILLE, TENNESSEE
STATE PENITENTIARY
ISOLATION CELL BUILDING
Donald Cowan &
J. Carl Russell, Associates, Archt.
Nashville, Tennessee

SAN DIEGO, CALIFORNIA
SAN DIEGO COUNTY
COURTHOUSE FACILITY
Associated Architects & Engineer,
San Diego, California

DALLAS, TEXAS
DALLAS COUNTY JAIL
Jack Corgan, Broad & Nelson,
Smith & Warder, Archt.
Dallas, Texas

PENSACOLA, FLORIDA
ESCAMBIA COUNTY JAIL
Yonge, Look & Morrison, Archt.
Pensacola, Florida

KLAMATH FALLS, OREGON
KLAMATH COUNTY JAIL
Morrison & Howard, Archt.
Klamath Falls, Oregon

MONTGOMERY, ALABAMA
MONTGOMERY COUNTY COURTHOUSE
Pearson, Tittle & Narrows, Archt.
Montgomery, Alabama

TOWSON, MARYLAND
BALTIMORE COUNTY JAIL
Fletcher & Fletcher, Archt.
Baltimore, Maryland

IONIA, MICHIGAN
IONIA COUNTY JAIL
St. Clair Pardee, Archt.
St. Johns, Michigan

GOSHEN, NEW YORK
ORANGE COUNTY JAIL BUILDING
Sydne Schleman Associates
Middletown, New York

KEARNEY, NEBRASKA
BUFFALO COUNTY JAIL BUILDING
Helleberg & Helleberg, Archts.
Kearney, Nebraska

CHICAGO, ILLINOIS
POLICE STATION
Paul Gerhardt, Jr., City Archt.
Thomas E. Cooke, Associate Archt.
Chicago, Illinois

ANADARKO, OKLAHOMA
CADDO COUNTY COURTHOUSE
Noftsger & Lawrence, Archt.
Oklahoma City, Oklahoma

BUFFALO, MINNESOTA
WRIGHT COUNTY JAIL
Patch & Erickson, Archts.
Minneapolis, Minnesota

BEULAH, MICHIGAN
BENZIE COUNTY JAIL
St. Clair Pardee, Archt.
St. Johns, Michigan

SHAKOPEE, MINNESOTA
SCOTT COUNTY JAIL &
SHERIFF'S RESIDENCE
Swanson & Weglectner, Archts.
Minneapolis, Minnesota

MUSKEGON, MICHIGAN
MUSKEGON COUNTY JAIL
Magnuson & Sumner, Archts.
Muskegon, Michigan

NEW BRUNSWICK, NEW JERSEY
POLICE HEADQUARTERS BUILDING
Woerner & Woerner, Archts.
New Brunswick, New Jersey

CITY OF LITTLE ROCK, ARKANSAS
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PAULY JAIL BUILDING COMPANY
2215 DeKalb Street • St. Louis 4, Missouri

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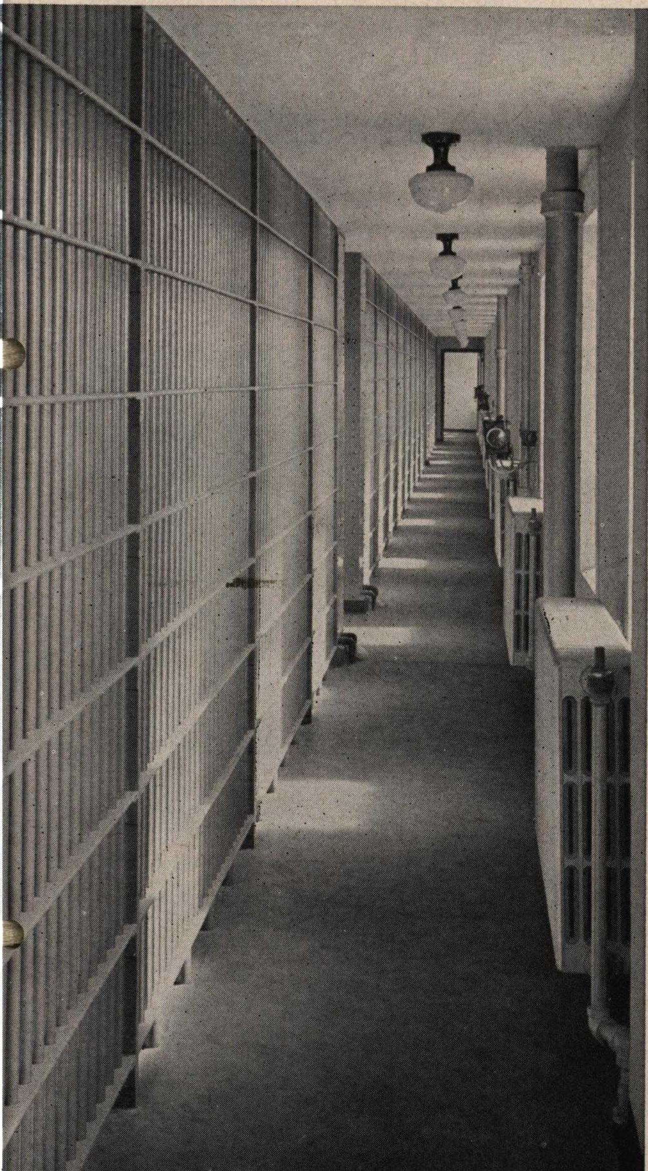


modern jails and prison equipment by *Roanoke*

ROANOKE IRON & BRIDGE WORKS, INC.
P.O. Box 1711, Roanoke, Virginia

modern jails by *Roanoke*...

... a leading jail and prison equipment manufacturer since 1900 in

ROANOKE IRON & BRIDGE WORKS, INC. combines **security • safety • segregation • sanitation** with low operating and maintenance costs in jail construction.

Our engineering and consultative services are available to architects and municipal, county and state officials, without cost or obligation, to assist in planning jail construction to meet current and future requirements with • **cost estimates • layouts • design • models and samples • specifications.**

The experience and "know-how" of the technical, engineering, fabrication and erection personnel of ROANOKE IRON & BRIDGE WORKS, INC., have made our services invaluable to jail planners for over 58 years. These services continue to enjoy a reputation of quality, dignity and friendliness.

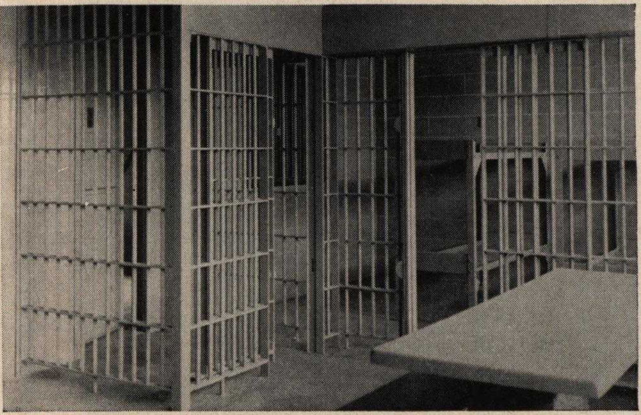
the four vital essentials of modern jail construction

The four vital essentials of modern jail construction—**security, safety, segregation, and sanitation**—are prime factors which govern the design and construction of ROANOKE IRON & BRIDGE WORKS' jails. Our experience in fabrication and erection workmanship also insures attractive appearance and low maintenance and operating costs.

Steel grating used for cell fronts, day rooms, corridors, and other inmates' quarters is made of double-ribbed round steel bars and interlocking flat bars.

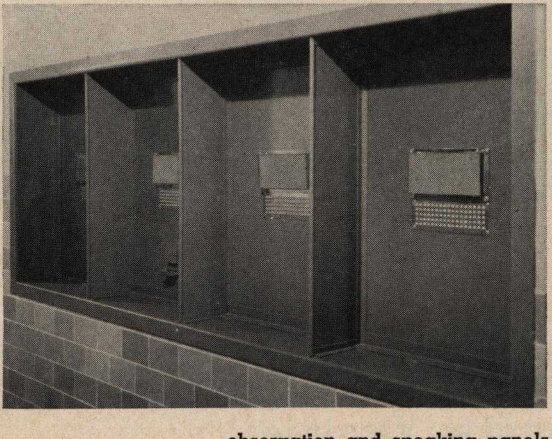
Tool-resisting grating is normally recommended for outside perimeter of inmates' quarters. This type grating is made especially for prison use; it has sufficient tool-resisting qualities to successfully resist cutting tools and sufficient low carbon steel to prevent breakage by striking or prying.

ROANOKE IRON & BRIDGE WORKS' engineers continually recommend specific layouts and arrangements of inmates' quarters, guards' corridors and other spaces to make best use of available space and to permit efficient and convenient jail supervision while improving the security and segregation features of the jail installation.



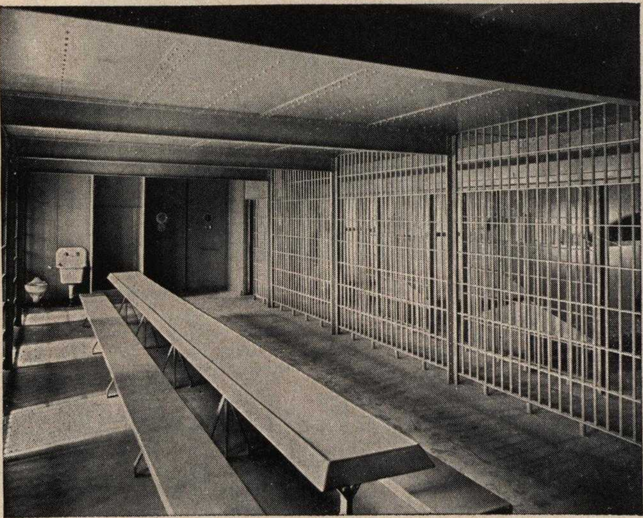
cell block entrance — safety vestibule

An important consideration in the arrangement of a jail is the safety of the guard force. Well-planned corridors and safety vestibules add greatly to the safety feature as well as assuring greater security of inmates. Proper layout and proper prison equipment can ofttimes mean additional safety and a reduction in guard force.



observation and speaking panels

Facilities are often provided for persons to visit with inmates. The emotional stress and tension of inmates and visitors during visits are partially dependent upon design of the speaking and observation panels in the visiting area. ROANOKE IRON & BRIDGE WORKS' recommended design tends to minimize the stress and tension by the elimination of unnecessary prison atmosphere without affecting security.



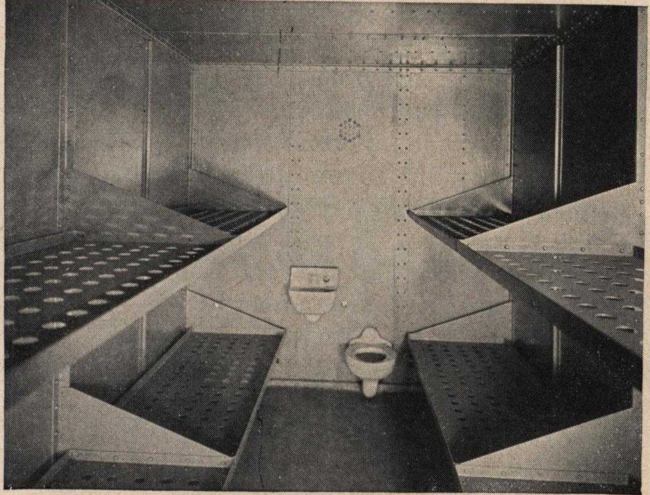
day room — all steel construction

With thorough planning, natural daylight can be used advantageously to improve the lighting, appearance and health features of prisoners' day rooms and cells.

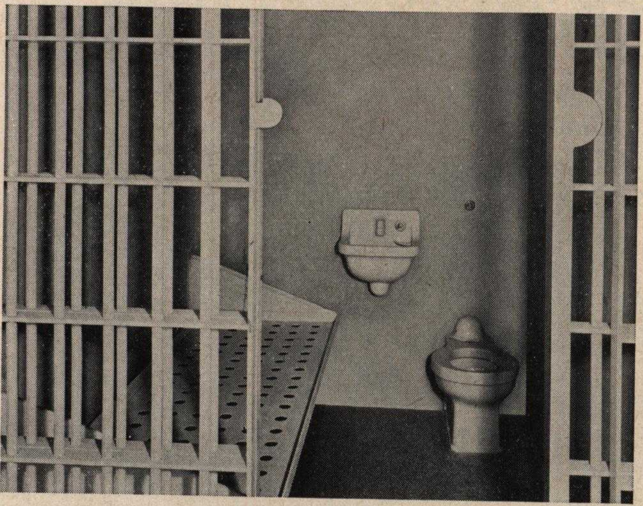
design • development • fabrication • installation

ROANOKE IRON & BRIDGE WORKS, INC., is prepared to analyze your jail needs and recommend the proper jail design and construction to meet local conditions and enable you to invite competitive bidding. Contact us for prompt, accurate and dependable service.

Proper jail planning is necessary for proper jail administration.



cell interior — multiple occupancy, all steel construction



steel cell front — single occupancy, masonry construction

Sanitation of prisoners' quarters is vital to prevent disease and to minimize the otherwise demoralizing effect of detention. ROANOKE IRON & BRIDGE WORKS' prison equipment is fabricated and installed with neat craftsmanlike appearance to encourage prisoner sanitation. This equipment is also substantially constructed to discourage attempts of malicious damaging by inmates.

fully selective operating and locking device designed and developed by ROANOKE IRON & BRIDGE WORKS, INC.

- Increases security of entire cell block
- Locks each cell door at three points on door in both opened and closed positions
- Provides safety for guards
- Provides assurance of accurate and proper operation
- Is entirely mechanical and positive and sure in action
- Is easy to operate with gear-powered wheel drive
- Removes guesswork from cell door operation
- Provides protection against fouling or damaging by inmates
- Is simple in construction
- Minimizes maintenance and replacement problems
- Operates free of springs
- Travels on bearings — a minimum of friction
- **Complete selectivity of door operation is maintained**
- **Controls offer positive indication of locked or unlocked condition of each door**
- **With only one continuous movement of the operating wheel any one or any combination of doors can be closed or opened and automatically locked**

Proficiency of jail administration is increased by a combination of accuracy, simplicity and security, all of which are built into ROANOKE IRON & BRIDGE WORKS' keyless and fully selective operating and locking device. A central control system outside the cell block allows the guard to maintain complete control over the operation of every cell door in the block while enjoying complete safety. Every door in the cell block can be controlled and operated independently or in combination with any number of other doors, thus permitting the guard to direct the activities of the inmates individually or in a group.

ROANOKE IRON & BRIDGE WORKS, INC.

jail builders since 1900

representative ROANOKE IRON & BRIDGE WORKS, INC. jail installations

Lynchburg City Jail, Lynchburg, Va.
Wise County Jail, Wise, Va.
Franklin County Jail, Rocky Mount, Va.
Carroll County Jail, Hillsville, Va.
Miscellaneous Prison Equipment, Va. State Penitentiary, Richmond, Va.
District of Columbia Reformatory, Lorton, Va.
Wythe County Jail, Wytheville, Va.
Virginia State Penitentiary, Shop Building, Richmond, Va.
Fairfax County Jail, Fairfax, Va.
Southampton County Jail, Courtland, Va.
Prince William County Jail, Manassas, Va.
Augusta County Jail, Staunton, Va.
Loudoun County Jail, Leesburg, Va.
Buchanan County Jail, Grundy, Va.
Alexandria City Jail, Alexandria, Va.
Washington County Jail, Abingdon, Va.
Bland Correctional Farm, White Gate, Va.
Roanoke County Jail, Salem, Va.
Pulaski County Jail, Pulaski, Va.
Mecklenburg County Jail, Charlotte, N. C.
Twenty-Eight Prison Camps, State of N. C.
Cleveland County Jail, Shelby, N. C.
Kinston City Jail, Kinston, N. C.
Craven County Jail, New Bern, N. C.
Catawba County Jail, Newton, N. C.
Jones County Jail, Trenton, N. C.
Lenoir County Jail, Kinston, N. C.
Greenville City Jail, Greenville, N. C.
Beaufort County Jail, Washington, N. C.
Hyde County Jail, Swan Quarter, N. C.
Forsyth County Jail, Winston-Salem, N. C.
Wayne County Jail, Goldsboro, N. C.
Gaston County Jail, Gastonia, N. C.
Robeson County Jail, Lumberton, N. C.
Main Post Stockade, Fort Bragg, N. C.
Lincoln County Jail, Lincolnton, N. C.
Hickory City Jail, Hickory, N. C.
Davidson County Jail, Lexington, N. C.
Wake County Jail, Raleigh, N. C.
Florence County Jail, Florence, S. C.
Darlington County Jail, Darlington, S. C.
Greenville City Jail, Greenville, S. C.
Charleston County Jail, Charleston, S. C.
Lancaster County Jail, Lancaster, S. C.
Sumter City Jail, Sumter, S. C.
Williamsburg County Jail, Kingstree, S. C.
Lee County Jail, Bishopville, S. C.
Union County Jail, Union, S. C.
Anderson County Jail, Anderson, S. C.
S. C. State Penitentiary, Columbia, S. C.
Dillon County Jail, Dillon, S. C.
Chesterfield County Jail, Chesterfield, S. C.
Vero City Jail, Vero City, Fla.
Alachua County Jail, Gainesville, Fla.
Columbia County Jail, Lake City, Fla.
Sumter County Jail, Bushell, Fla.
Pensacola City Jail, Pensacola, Fla.
Nassau County Jail, Fernandina Beach, Fla.
Glades County Jail, Moore Haven, Fla.
Holmes County Jail, Bonifay, Fla.
Taylor County Jail, Perry, Fla.
Highlands County Jail, Sebring, Fla.
Osceola County Jail, Kissimmee, Fla.
Brevard County Jail, Titusville, Fla.
Richmond County Jail, Augusta, Ga.
Muscogee County Jail, Columbus, Ga.
Early County Jail, Blakely, Ga.
Floyd County Jail, Rome, Ga.
Greene County Jail, Greenville, Tenn.
State Penitentiary, Woman's Building, Nashville, Tenn.
Knox County Jail and Criminal Court Building, Knoxville, Tenn.
Hamblen County Jail, Morristown, Tenn.
Sullivan County Jail, Blountville, Tenn.
Raleigh County Jail, Beckley, W. Va.
Greenbrier County Jail, Lewisburg, W. Va.
Berkeley County Jail, Martinsburg, W. Va.
City Police Dept. Bldg., Baltimore, Md.
Ellicott City Jail, Ellicott City, Md.
Floyd County Jail, Prestonburg, Ky.
Troop Housing, Fort Knox, Ky.
Tulsa City Jail, Tulsa, Okla.

ROANOKE IRON & BRIDGE WORKS, INC.

P.O. Box 1711, Roanoke, Virginia

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JAIL & PRISON EQUIPMENT

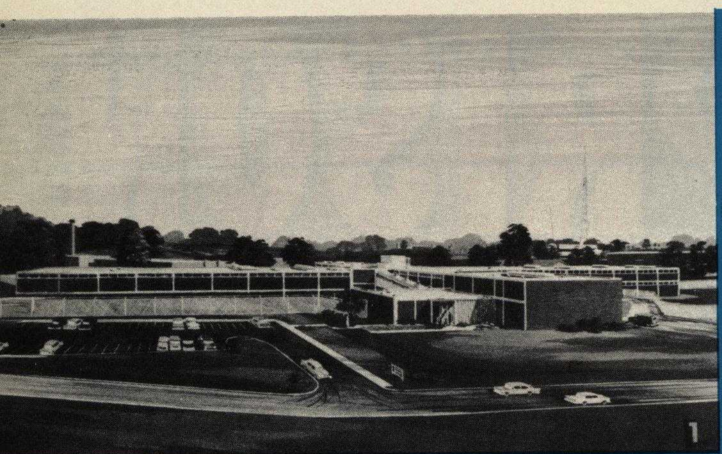
SOUTHERN STEEL COMPANY

San Antonio, Texas

MORE THAN 4000 INSTALLATIONS
IN 41 STATES

THE NATION'S LARGEST FIRM ENGAGED PRIMARILY IN PLANNING, ENGINEERING, MANUFACTURING AND INSTALLING JAIL AND PRISON EQUIPMENT

ESTABLISHED 1897
SOUTHERN STEEL CO.
SAN ANTONIO, TEXAS



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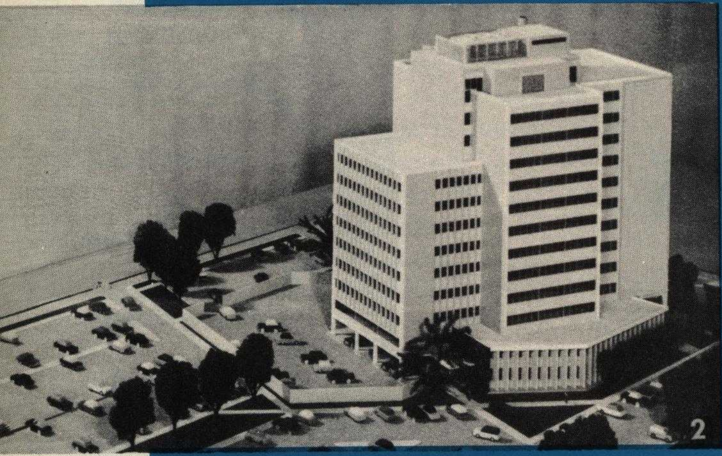

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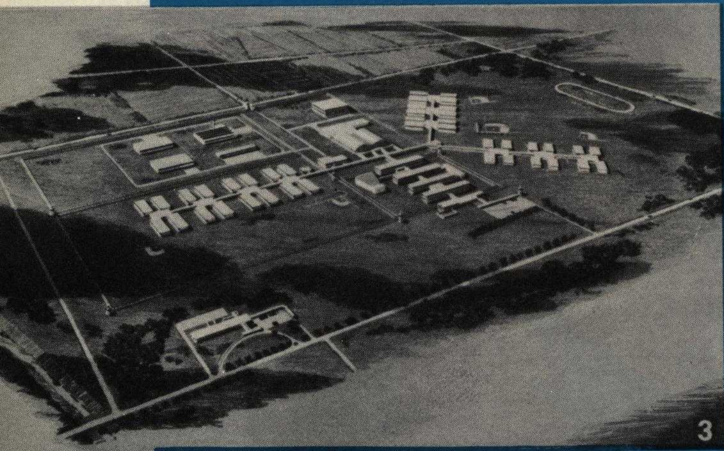

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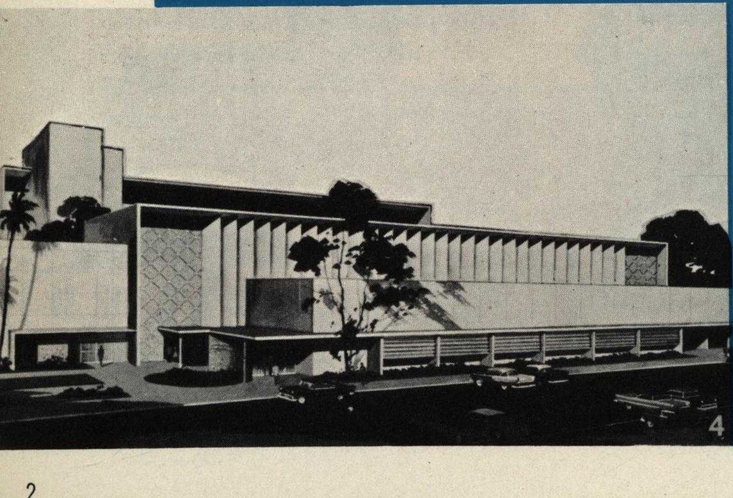

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ESTABLISHED 1897

SOUTHERN STEEL CO.

SAN ANTONIO, TEXAS

SOME OF OUR RECENT INSTALLATIONS

1. ATLANTA, GEORGIA
Fulton County Jail
A. Thos. Bradbury, Percy H. Perkins, Jr.,
James C. Wise, Associates, Architects.
60 Fifth Street, NE
Atlanta, Georgia

2. WICHITA, KANSAS
Sedgwick County Court House & Jail
Thomas-Harris-Calvin & Assoc.,
Architects-Engineers
321 W. 2nd Street
Wichita 2, Kansas

3. ANGOLA, LOUISIANA
Louisiana State Penitentiary
Curtiss and Davis, Architects.
338 Baronne Street
New Orleans 12, Louisiana

4. BAKERSFIELD, CALIFORNIA
Sheriff's Facility Building
& Jail for Kern County
Wright-Metcalf & Parsons, Architects
2323 "E" Street
Bakersfield, California

5. ORLANDO, FLORIDA
Orange County Court House
James Gamble Rogers II, Architect
145 Lincoln Avenue
Winter Park, Florida
James B. King, Associate Architect
56 E. Park Lake Avenue
Orlando, Florida

6. JACKSONVILLE, FLORIDA
Duval County Court House
Reynolds, Smith & Hills,
Architects-Engineers
227 Park Street
Jacksonville 4, Florida

7. DEARBORN, MICHIGAN
Police Headquarters Building
Harley, Ellington and Day, Inc.,
Architects and Engineers
153 E. Elizabeth Street
Detroit 1, Michigan

8. HUNTSVILLE, TEXAS
Eastham Prison Farms
George L. Dahl, Architect
2101 N. St. Paul Street
Dallas, Texas

COMMENTS FROM SOME OF OUR CLIENTS

I wish to compliment your company on the prompt installation of your equipment, and hope to work with you again in the near future.

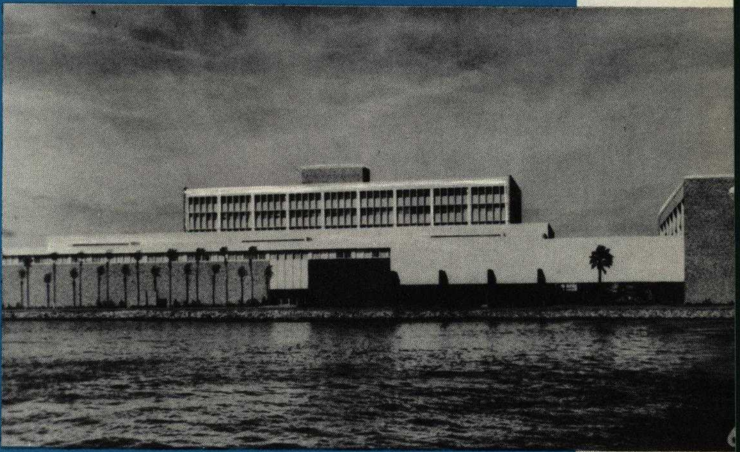
JA (Contractor)

If we can ever be of service to you in any way here on the High Plains, we would appreciate the opportunity of returning these favors to you.

Sincerely,
JE (Architects-Engineers)

Thank you again for the interest and spirit of cooperation you have displayed, enabling us to turn over to the Owner a completely satisfying job, and one in which we can all take pride.

JW (Architect)



The Board of County Commissioners of XXXXXXXX XXXXXXXXXXXX XXXXXXXX wish to express their appreciation for your fine work and cooperation in the completion of our County Jail.

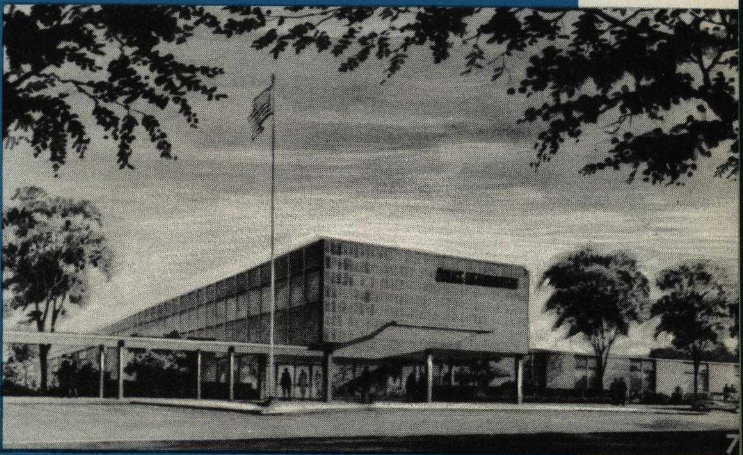
RS (County Commissioner)

Your advice and helpful criticism during preliminary planning, your drawings and specifications, during the final planning, and your constant interest in accuracy and quality throughout the project, were all of invaluable assistance to us.

FC (Architect)

Southern Steel System has placed a model of their cell locking system at our disposal and it definitely meets all of our requirements. The security in their system, plus its simplicity of operation is, without a doubt, the best offered in this field. This statement is substantiated by the engineer in charge of maintenance of the City Prison System, Department of Correction, XXXXXXXXXXXXXXXXXXXXXXXX.

CD (Engineer)



7

We have your check for the difference in poundage of steel furnished and that estimated. This is an item which I had forgotten about completely. I am certain the Board members will be most appreciative of the integrity and honesty of your firm.

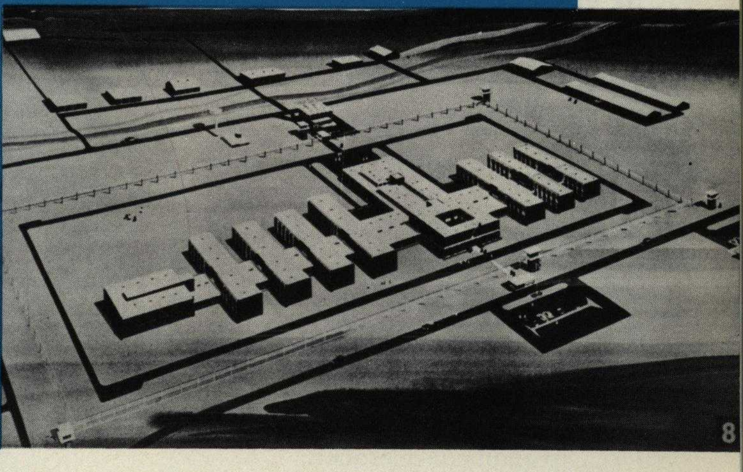
It has certainly been a pleasure to work with you and your firm, and I would be very happy to recommend your Company to anyone in the market for jail equipment.

HJ (Architect)

I inspected, approved, and accepted the jail equipment furnished by your company for the XXXXXX XXX XXXXXX XXXX XX XXXXXXXXX XXXXX yesterday. The job was completed and was done in a very excellent manner. We would like to commend your superintendent for his fine work directing this job. He has cooperated with our office and the County and produced an excellent job for all of us for which we are indeed grateful.

I would like to sincerely thank you for your cooperation in helping us plan this jail, prepare the working drawings and specifications, obtaining bids, and in the actual contraction of this job.

OCJ (Architect)



8

Southern Steel Company's
DUAL
ELECTRO MECHANICAL
LOCKING and OPERATING SYSTEM

A proven automatic elect combination system . . . c fully selective electric to mechanical operation i

1. FULLY SELECTIVE
Operates any one, any combination or all sliding cell doors either electrically or mechanically.

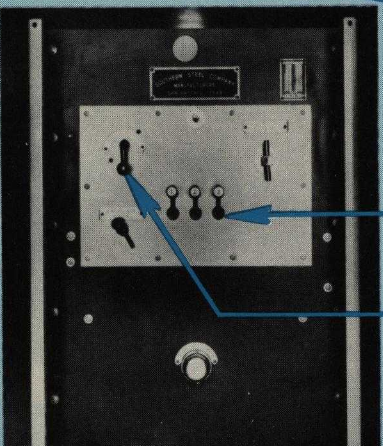
2. SIMPLE OPERATION
Just turn the switch to unlock, open, close and lock doors in any pre-selected combination.

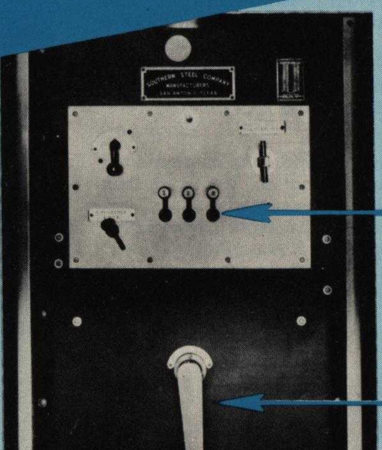
3. INTERLOCKED
Simple mechanical and electrical interlock in control cabinet positively prevents simultaneous mechanical and electrical operation. The system operates either totally electrically or totally mechanically.

4. SINGLE DIRECTION SAFETY
Designed to prevent opening one or more doors while other doors are closing. This is highly important in any electrical operating and locking system.

5. EMERGENCY LOCK
In case of emergency in opening or closing doors, pull emergency lock, thus holding doors in any position, whether being operated electrically or mechanically, until further operation is resumed.

6. VARIABLE CLOSING PRESSURE
Electrical system can be adjusted so that a nominal pressure will hold the door, or so that considerably more pressure would be required to hold door.


SOUTHERN STEEL COMPANY
Set selectors for desired operation of each door.
Turn switch to open or close.
Unlocking and locking occurs automatically.


SOUTHERN STEEL COMPANY
Set selectors for desired operation of each door.
Turn handle to open or close.
Unlocking and locking occurs automatically.

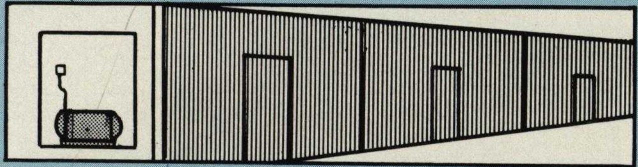
ELECTRIC OPERATION To operate doors and locks electrically, select doors to be operated and turn the switch.

REMOTE CONTROL This simple Remote Control Panel may be installed anywhere desired and still maintain full selectivity and instant changeover to mechanical operation.

MECHANICAL OPERATION In case of power failure, remove handle at base of cabinet and place in manual operating position on operating shaft. (When handle is in this position, all electrical components are disengaged.) Return handle to its original position, and the system will operate electrically. Our "Dual" system is the only electric system that gives full selectivity from the control cabinet in the event of power failure.

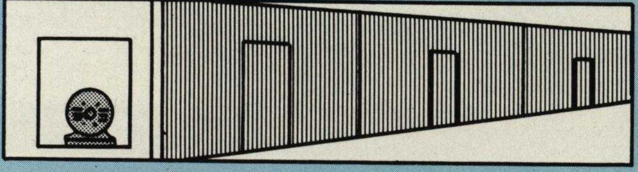
& mechanical
nverts from
lly selective
seconds

This



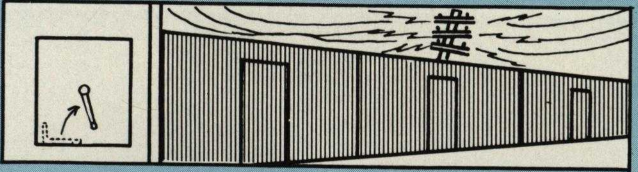
This . . . compact wiring installed at factory . . . completely self-contained electrical unit.

This



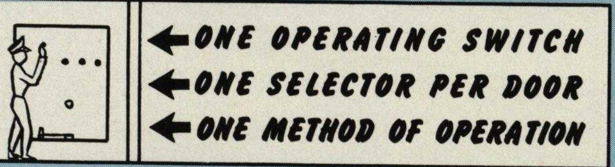
This . . . only one motor operates the entire line of cell doors. Motor can be changed or serviced quickly by any competent electrician without entering cell block.

This



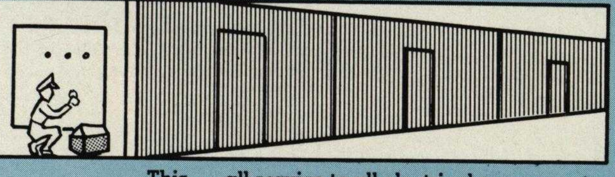
This . . . in event of power failure, move the handle to operating position and operate the system in the same fully-selective manner without leaving the control cabinet.

This



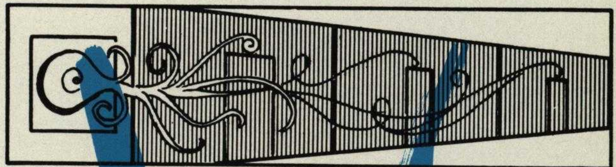
This . . . the simplicity of this system makes it possible for anyone to learn its operation in a matter of minutes.

This

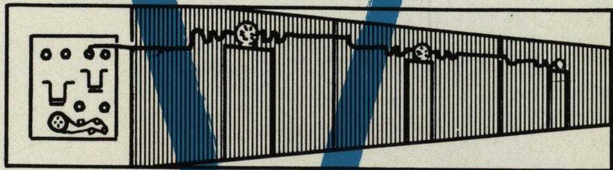


This . . . all service to all electrical components is out of sight and reach of inmates. The entire electrical system can be serviced without inmates' knowledge or change in prison routine.

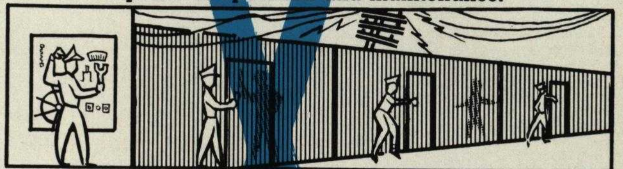
These "Old Fashioned" Electrical Nightmares have been eliminated



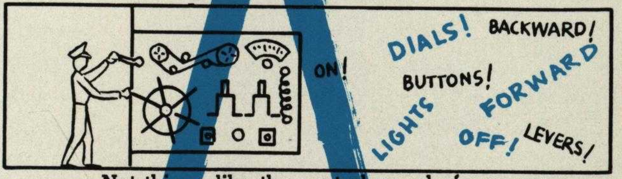
Not this . . . electrical octopus involving multiple motors, lights, switches running throughout the cell line to each individual cell.



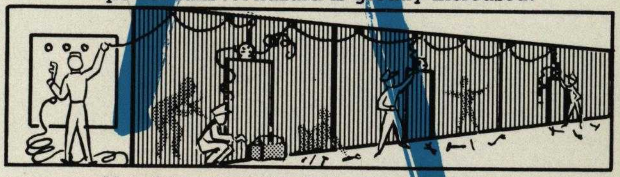
Not this . . . long strings of fractional horsepower motors over cell doors. This means more electrical equipment, more maintenance, more hazard from inmates, more expense in operation and maintenance.



Not this . . . An electrical system requiring extensive change in procedure when power fails. Most combination electrical-mechanical systems do not provide full selectivity of cell doors in event of power failure.


ON!
DIALS!
BACKWARD!
BUTTONS!
FORWARD
LIGHTS
OFF!
LEVERS!

Not this . . . like the control panel of a supersonic bomber, many systems require highly trained personnel to operate. An entirely different procedure of operation is required if power fails . . . hazard is greatly increased.

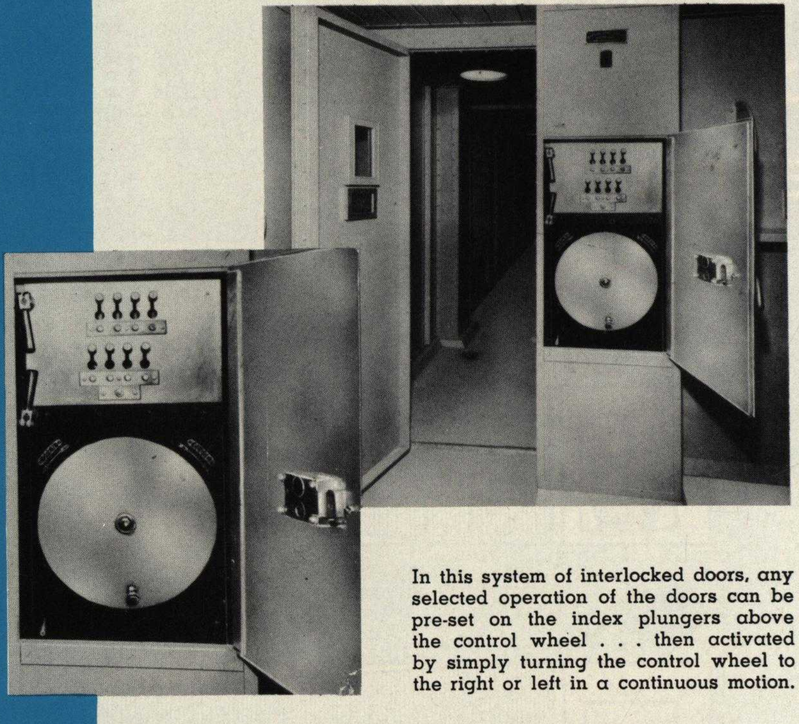


Not this . . . trouble in any motor along the cell line of some systems creates a serious security hazard requiring servicemen to bring tools and to work within the inmate cell area.

Intermittent Gear Locking and Operating System . . . . . .

This system originated and pioneered by the Southern Steel Company enables the operator to (1) unlock, (2) open, and (3) lock open any cell door or any number of doors by one continuous movement of the operating wheel. By turning in the other direction the operator can (4) unlock, (5) close, and (6) lock closed any cell door or any number of doors designed to be operated from the same control cabinet. Any door may be stopped and held at any point in movement at half-inch intervals. Correct operation can be taught in a manner of minutes.

Dependable wheel drive provides an abundance of power for quiet and efficient operation and has made this system the acknowledged standard of excellence throughout the United States.



In this system of interlocked doors, any selected operation of the doors can be pre-set on the index plungers above the control wheel . . . then activated by simply turning the control wheel to the right or left in a continuous motion.

Homogeneous Tool Resisting Steel

Where the cost of the large number of extra guards, 24 hours a day, is not practical, continuous analysis tool resisting steel performs a vital economy function. This special steel is thousands of times more resistant to cutting than mild steel; however, it is malleable to the point of fulfilling all requirements as to hardness and flexibility. In institutions such as county jails where an excessive number of guards is an impossible expense, tool resisting steel is the heart of such county jail security.

Independent tests prove the statement that reducing the tool resisting quality of steel and saving only 2 or 3% on the cost of the installed equipment is never a real economy.

ESTABLISHED 1897
SOUTHERN STEEL CO.
SAN ANTONIO, TEXAS

History of the SOUTHERN STEEL COMPANY

For more than 63 years, we have accumulated valuable experience meeting many unique problems in the highly specialized field of designing, fabricating and installing jail and prison equipment.

From its beginning, the Southern Steel Company has enjoyed a steady and consistent growth in facilities and in specially trained personnel in the field of penal engineering. With more than 4,000 installations in 41 states, Southern Steel's organization is one of the most experienced in the field. While research and improvement has been a major factor in the growth and leadership of Southern Steel through more than 60 years, innovations are given long and exhaustive testing before they are offered for the protection of the public.

Southern Steel's daily contact with many problems peculiar to this highly specialized work, together with its privilege of collaborating with hundreds of architects, designers and engineers who are concerned with like problems, presents a challenge and an obligation to render even greater service in this field where much remains to be done in the interest of humanity and society.

The Southern Steel Company is in daily contact with architects and designers throughout the country, and we have a vast accumulation of knowledge about many types and sizes of penal institutions.

One of our equipment specialists will be glad to confer with interested architects or engineers and submit suggestions for layouts along with price estimates.

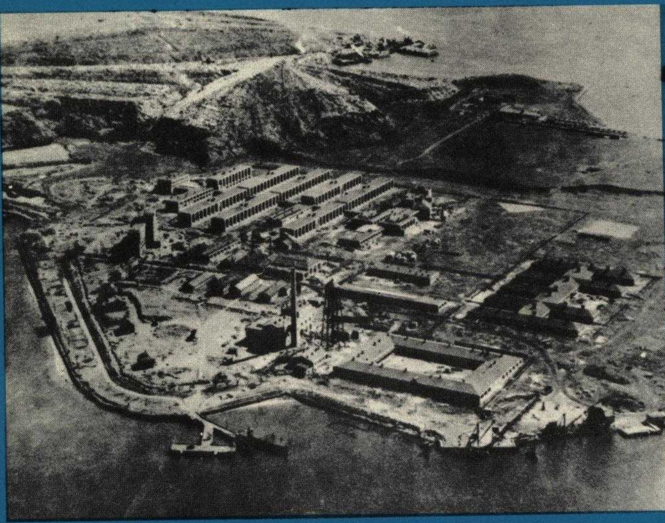
There is, of course, no obligation for this service which you may use with full assurance that any suggestions we make will not preclude any reputable manufacturer of jail equipment from bidding upon, or furnishing equipment, recommended by our consultants.

Having become the Nation's largest firm specializing in the manufacture of jail and prison equipment, we are in the enviable position of being able to point the way to the newest and best approaches to the modern science of detention.

**JAIL & PRISON EQUIPMENT
IS OUR MAIN BUSINESS**

COMPLETE CONSULTING SERVICE INCLUDING COST ESTIMATES AND PRELIMINARY LAYOUTS

Our complete consulting service, including completed plans and specifications, is available without obligation to architects, engineers, and contractors. You can write or telephone your requirements to us, and we will see that you receive promptly the kind of data you need for making a preliminary study, sketches, and rough cost estimates. Preliminaries can be quickly prepared in this way for discussion with clients and interested law enforcement officials. Call us early before your plans are formulated, and we will be glad to send a sales engineer to confer with you at your convenience.



THE LARGEST "CITY JAIL" IN THE UNITED STATES

Riker's Island Penitentiary
New York City

The Riker's Island Penitentiary in New York City, Sloan and Robertson, Architects, is a Southern Steel Company installation. It is the largest City Jail Institution in the United States and reported to be the largest penal institution ever built at one time.

The cell work, locking devices, and other prison equipment in this institution were furnished and installed by Southern Steel Company. There have been no service calls or replacement of parts on any Southern Steel Company equipment since this prison was occupied more than 30 years ago . . . an indication of the quality and dependability engineered into Southern Steel Company's products.

★

All Jail Equipment
Manufactured & Installed by
Southern Steel Co.

THE LARGEST "COUNTY JAIL" IN THE SOUTH

Dade County Jail and
Public Safety Department
Miami, Florida

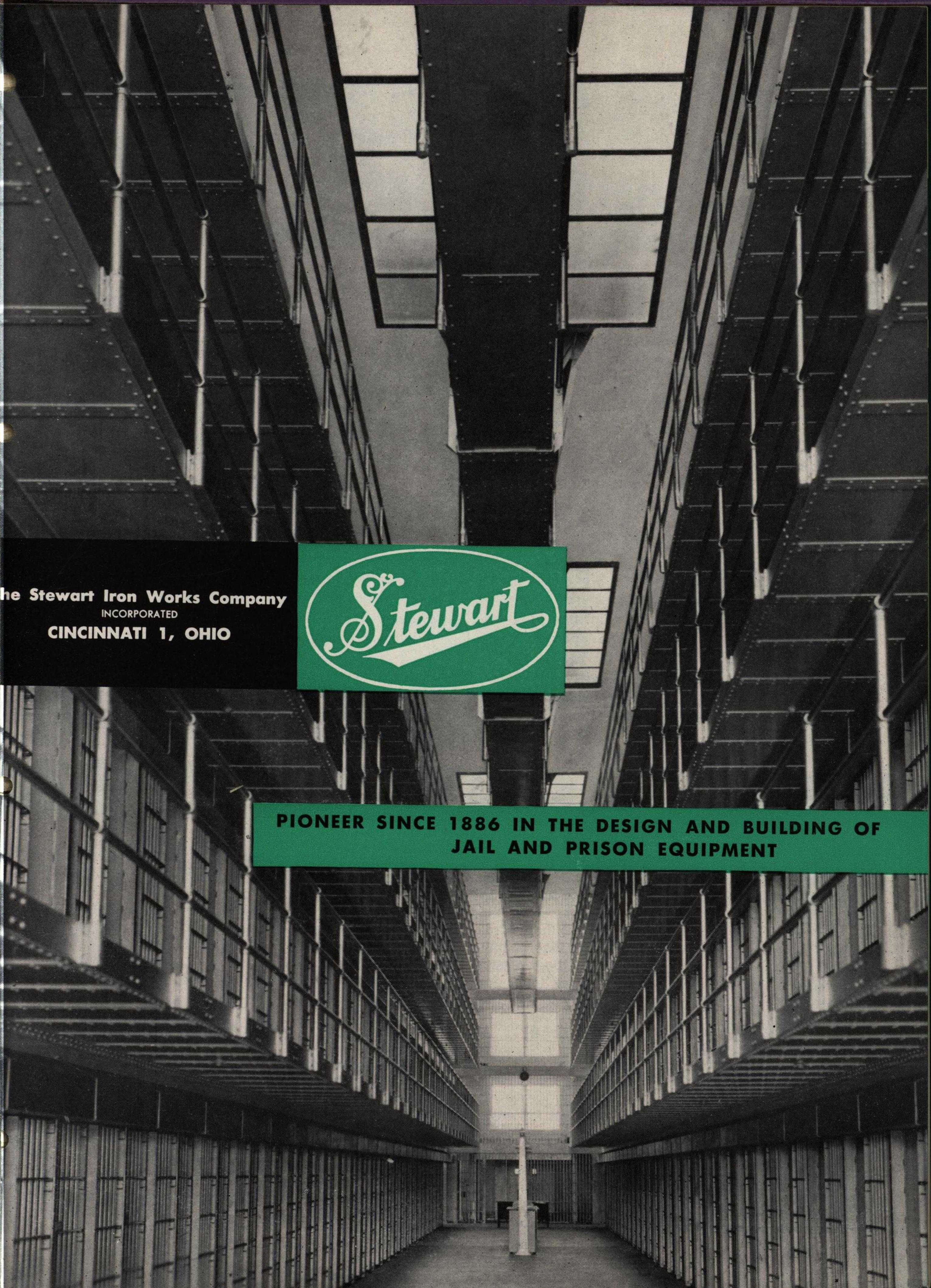
★

Because the Southern Steel Company *specializes* in jail and prison equipment, no jail job is too large or too small to merit our complete service . . . from initial layout suggestions through complete planning . . . to manufacture, installation, and guarantee of all equipment. In the Dade County Jail in Miami, the Southern Steel Company was selected to supply:

- **45 Fully Selective Lines of Cell Work**
- **628 Bunks**
- **325 Jail Doors**
- **107 Tons of Vertical Bars**
- **85 Tons Steel Plate Walls**
- **20,000 Square Feet Grill or Grating Work**
- **All Other Jail Equipment for the South's Largest County Jail**

The Dade County Jail is just one more reason why the Southern Steel Company remains the nation's largest firm SPECIALIZING in the manufacture and installation of Jail and Prison Equipment.

SOUTHERN STEEL COMPANY
P. O. DRAWER 2021 • 4634 S. PRESA
SAN ANTONIO, TEXAS



he Stewart Iron Works Company
INCORPORATED
CINCINNATI 1, OHIO

Stewart

PIONEER SINCE 1886 IN THE DESIGN AND BUILDING OF JAIL AND PRISON EQUIPMENT

STEWART PUSH-BUTTON REMOTE CELL DOOR CONTROL PROVIDES NEW SECURITY, NEW SAFETY

- ***Locks or unlocks one or any number of cell doors in any position***
- ***Signals every door position on control panel***
- ***Entire system actuated by a single motor at control panel***
- ***Switches to standby mechanical operation with single lever***

For 73 years Stewart has pioneered the development of jail and prison equipment in building many of America's most critical security installations, including Alcatraz. One of Stewart's important features has been its exclusive mechanical locking system, providing single lever control of an entire row of cells or a cell block from the end of the row.

Now, a new wonder from Stewart, electrification of this thoroughly proved locking system permits location of the control center at any remote point that provides best control and most safety for the operator. The electro-mechanical control center may be located at the end of the cell block, in the warden's office, or across the street, actually with no limitation as to distance. Remote location provides maximum safety not only for the operator but also for the control equipment. The entire system is actuated by *only a single motor* located at the end of cell row, secure against tampering, easy and economical to service and inspect.

From the central control location a single operator has electrical push-button control of every door in the prison individually or in any desired groups. He may open one door or any number, close one or any number, lock any number in open or closed position, even lock them if jammed partially open. The position of every door — open or closed — is recorded by an individual signal light at the control location.

Another Stewart exclusive and just as revolutionary, in case of power failure a single lever switches the entire system to mechanical operation, still providing all the selectivity of the electric control system.

MECHANICAL LOCKING DEVICE ALSO AVAILABLE

Proved over many years in installations from coast to coast, the Stewart centralized mechanical control for cell doors is simple in construction, positive in operation. With the movement of a single lever, the operator has the same selectivity described for the electro-mechanical system. He may open or close one or any number of doors, or in any combination, without regard to the position of other doors in the same line. An auxiliary locking device enables the operator to lock the sliding doors about every inch of travel between open and closed position, preventing door movement in either direction.

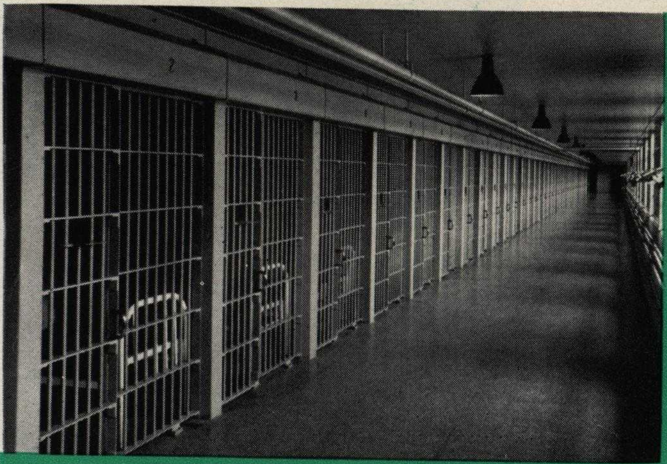
An auxiliary safety device in the control cabinet prevents the operator from closing the control cabinet doors until all cell doors are locked in either the open or closed position. The control cabinet door is securely hung and locked with a prison type dead lock for the safety of the operator.

JAIL AND PRISON EQUIPMENT *from a village lock-up to a federal penitentiary*

Stewart manufactures the sturdiest equipment for every requirement: grating and plate cells in open-hearth and tool-resisting steel; hinged and sliding doors (key operated or remote controlled); locks and locking devices; window guards; steel stairs and railing; bunks; light boxes; vents; tables; seats; non-climable chain link wire fence, and other accessories for modern penal institutions.

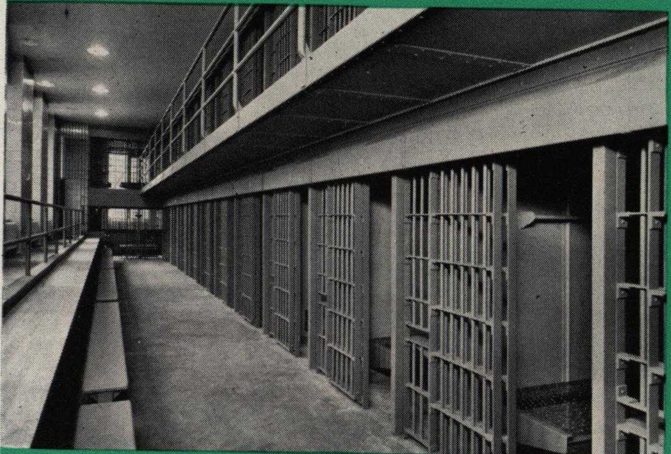
ENGINEERING CONSULTATION AT NO OBLIGATION

Stewart engineering, designing and drafting facilities are available to architects and penal authorities without cost or obligation. Designs, estimates, specifications and layouts for jail equipment for new construction or modernization will be furnished on request. Architects, prison officials and engineers are cordially invited to consult Stewart engineers.



New York Penitentiary, Attica, N. Y.
Dept. of Public Works, Div. of Architecture & Engineering

Day Room, Winnebago County Court House & Jail, Oshkosh, Wis.
Granger & Bollenbacher, Architects



Criminal Courts Bldg. & City Jail, New York, N. Y.
Harvey Wiley Corbett & Charles B. Meyers, Architects

United States Reformatory
Terre Haute, Ind.

PARTIAL LIST OF PRINCIPAL STEWART INSTALLATIONS

STATE AND FEDERAL

California State Prison
San Quentin, California

Institution For Defective Delinquents
Luzerne County, Dallas, Pennsylvania

Lebanon Correctional Institution
Lebanon, Ohio

Great Meadows Correctional Institution
Comstock, New York

Guard House & Post Stockade
Fort Lewis, Washington

United States Penitentiary
Terre Haute, Indiana

Maryland State Penitentiary
Baltimore, Maryland

Kentucky State Penitentiary
Eddyville, Kentucky

California Men's Colony
Los Padres, California

Deuel Vocational Institution
Tracy, California

State of New York Reception Center
Elmira, New York

United States Penitentiary
Alcatraz Island, California

COUNTY AND CITY

Umatilla County Jail
Pendleton, Oregon

Mahoning County Jail
Youngstown, Ohio

City-County Jail, Dane County
Madison, Wisconsin

Kent County Jail
Grand Rapids, Michigan

Chester County Farm Prison
West Chester, Pennsylvania

Davies County Jail
Owensboro, Kentucky

Wayne County Jail
Richmond, Indiana

Olean City Jail
Olean, New York

Precinct Police Station
Detroit, Michigan

Louisville Police Headquarters
Louisville, Kentucky

Hardin County Jail
Elizabethtown, Kentucky

Schoolcraft County Jail
Manistique, Michigan

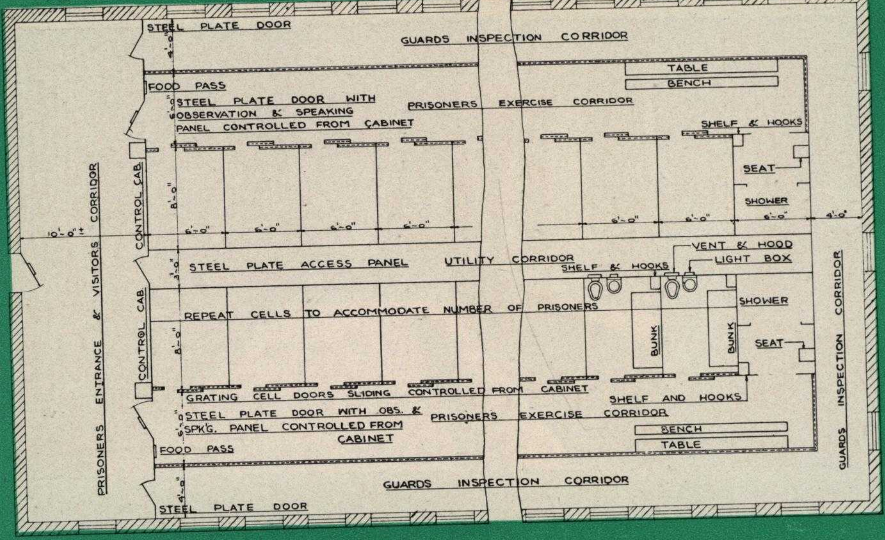
Thurston County Jail
Olympia, Washington

Portage County Jail
Ravenna, Ohio

Geary County Jail
Junction City, Kansas

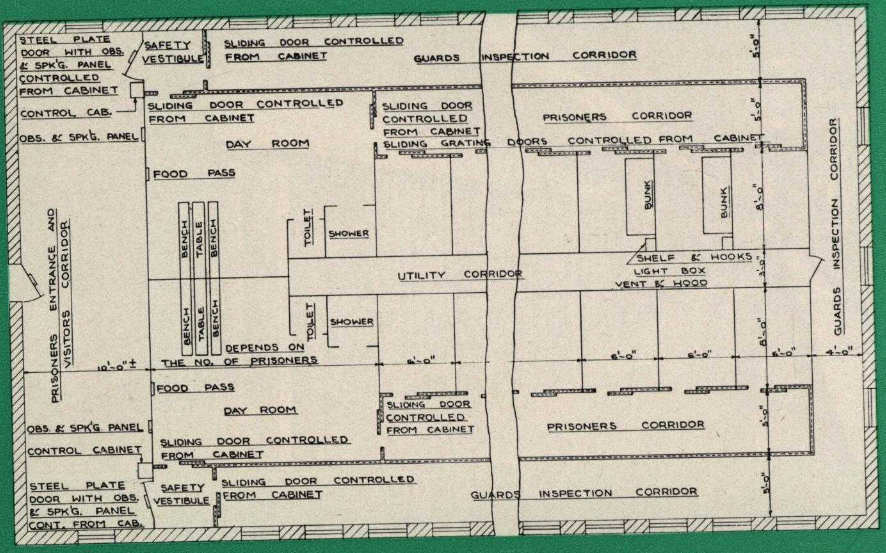
Green County Jail
Monroe, Wisconsin

State Penitentiary
Jefferson City, Mo.


STEEL PLATE DOOR
GUARDS INSPECTION CORRIDOR
TABLE
BENCH
FOOD PASS
STEEL PLATE DOOR WITH OBSERVATION & SPEAKING PANEL CONTROLLED FROM CABINET
PRISONERS EXERCISE CORRIDOR
SHELF & HOOKS
SEAT
SHOWER
PRISONERS ENTRANCE & VISITORS CORRIDOR
CONTROL CAB.
8'-0"
10'-0"±
6'-0"
4'-0"
STEEL PLATE ACCESS PANEL
UTILITY CORRIDOR
VENT & HOOD
LIGHT BOX
REPEAT CELLS TO ACCOMMODATE NUMBER OF PRISONERS
BUNK
GRATING CELL DOORS SLIDING CONTROLLED FROM CABINET
SHELF AND HOOKS
STEEL PLATE DOOR WITH OBS. & SPK'G. PANEL CONTROLLED FROM CABINET
GUARDS INSPECTION CORRIDOR

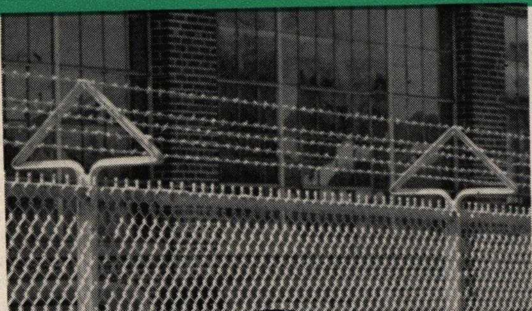
Shown here are suggested layouts for city and county jails.

Layouts for larger installations such as state and federal penitentiaries are also available.


STEEL PLATE DOOR WITH OBS. & SPK'G. PANEL CONTROLLED FROM CABINET
SAFETY VESTIBULE
SLIDING DOOR CONTROLLED FROM CABINET
GUARDS INSPECTION CORRIDOR
CONTROL CAB.
OBS. & SPK'G. PANEL
DAY ROOM
SLIDING GRATING DOORS CONTROLLED FROM CABINET
PRISONERS CORRIDOR
FOOD PASS
BUNK
BENCH
TABLE
TOILET
SHOWER
PRISONERS ENTRANCE AND VISITORS CORRIDOR
UTILITY CORRIDOR
SHELF & HOOKS
LIGHT BOX
VENT & HOOD
8'-0"
5'-0"
6'-0"
4'-0"
10'-0"±
DEPENDS ON THE NO. OF PRISONERS
CONTROL CABINET
STEEL PLATE DOOR WITH OBS. & SPK'G. PANEL CONT. FROM CAB.

STEWART HEAVYWEIGHT CHAIN LINK WIRE FENCE FEATURES ALL-BEAM FRAMEWORK

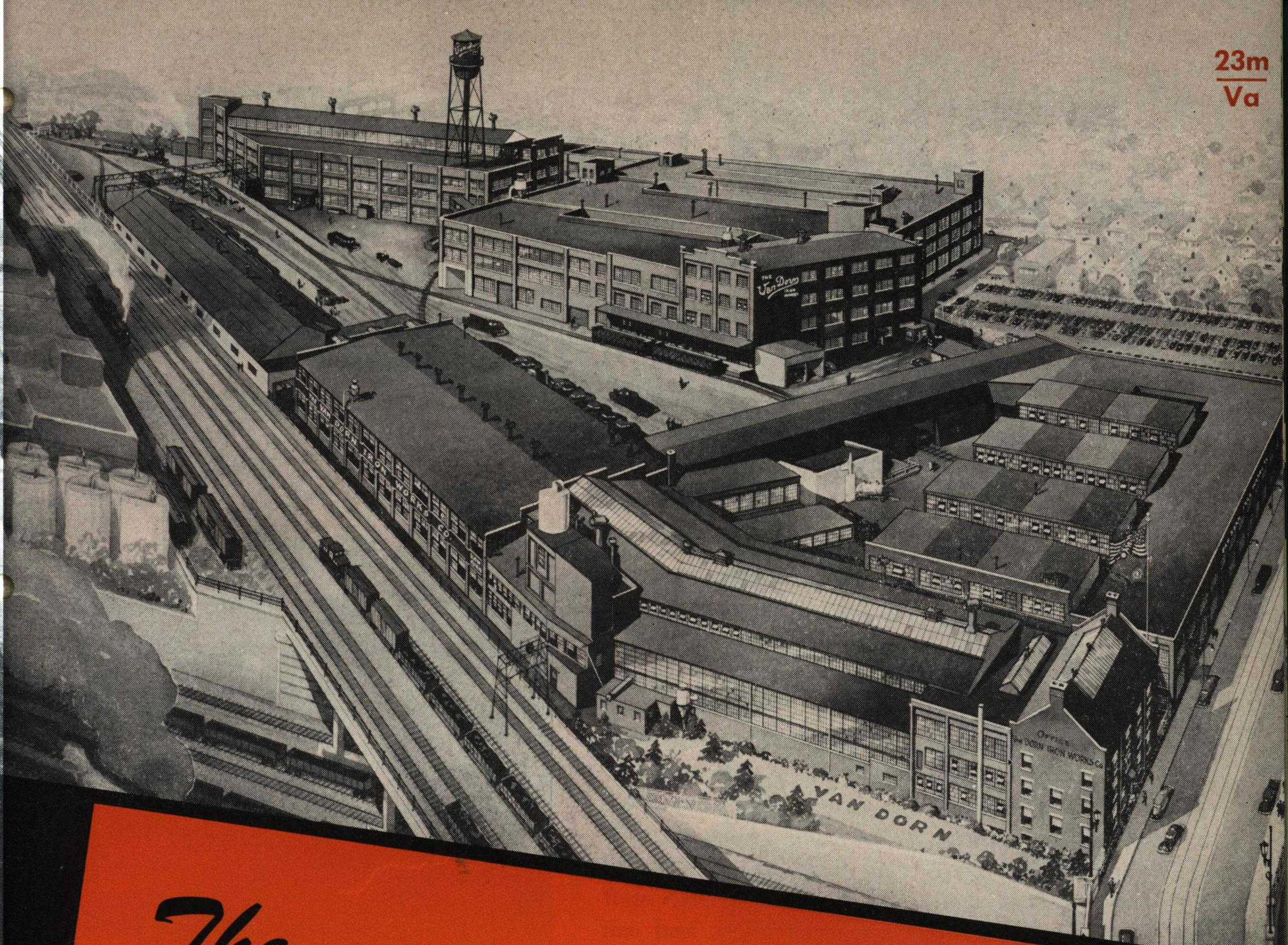
Heaviest and strongest fence available. Photo illustrates style 5TH with extension arm to accommodate five strands of barbed wire. This style assures the utmost in security because it prevents unauthorized entry from without, or escape from within. Notice that line post and extension arm is an integral unit. Arm cannot be broken or lifted off. Style 5TH is available in heights up to 13 feet. Stewart open section framework with solid I-Beam top rails, line and corner posts, is stronger, heavier and more corrosion-resistant. It will last longer and cost less to maintain. Write for specification manual.



THE STEWART IRON WORKS COMPANY
INCORPORATED

2205 Stewart Block, Cincinnati 1, Ohio

23m
Va


The Van Dorn Iron Works Co.
Van Dorn Iron Works Co.
Office The Van Dorn Iron Works Co.
VAN DORN
VAN DORN

The Van Dorn
IRON WORKS CO.

CLEVELAND 4, OHIO

DESIGNERS and BUILDERS
of PRISON EQUIPMENT
SINCE 1872

Van Dorn

PIONEER and LARGEST IN THE FIELD

Since 1872 THE VAN DORN IRON WORKS COMPANY has been engaged in the design, manufacture and erection of detention and accessory equipment, for all types of correctional institutions. Starting with a small shop 87 years ago, The VAN DORN organization has grown to be the largest manufacturer of prison equipment in America. Today VAN DORN occupies a modern plant covering 8½ acres of ground with more than 400,000 square feet of floor space. VAN DORN staff and plant facilities are unexcelled, and can efficiently handle any type or size of jail or prison installation.

In 1878—A Small Shop with a Few Men.

Massachusetts Correctional Institution, Walpole, Massachusetts—A Van Dorn Installation.

Van Dorn LOCKING DEVICES

- MECHANICAL ELECTRICAL
- KEYLESS SELECTIVE

VAN DORN originated the Fully Selective Keyless Locking Device and offers the variety and types to give you the service desired.

Van Dorn CONSULTATION

- TRAINED PERSONNEL
- BUDGET ESTIMATES

VAN DORN has a staff of trained prison experts whose services are available to Architects and their clients, without obligation.

Van Dorn PRODUCTS

- CELLS, DOORS & HARDWARE
- COMPLETE ACCESSORIES

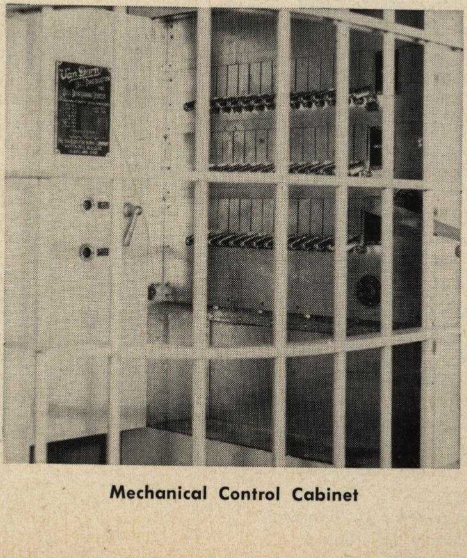
VAN DORN'S service is complete, including Engineering, Manufacturing and Erection, thus providing sole responsibility.

Van Dorn CONSTRUCTION

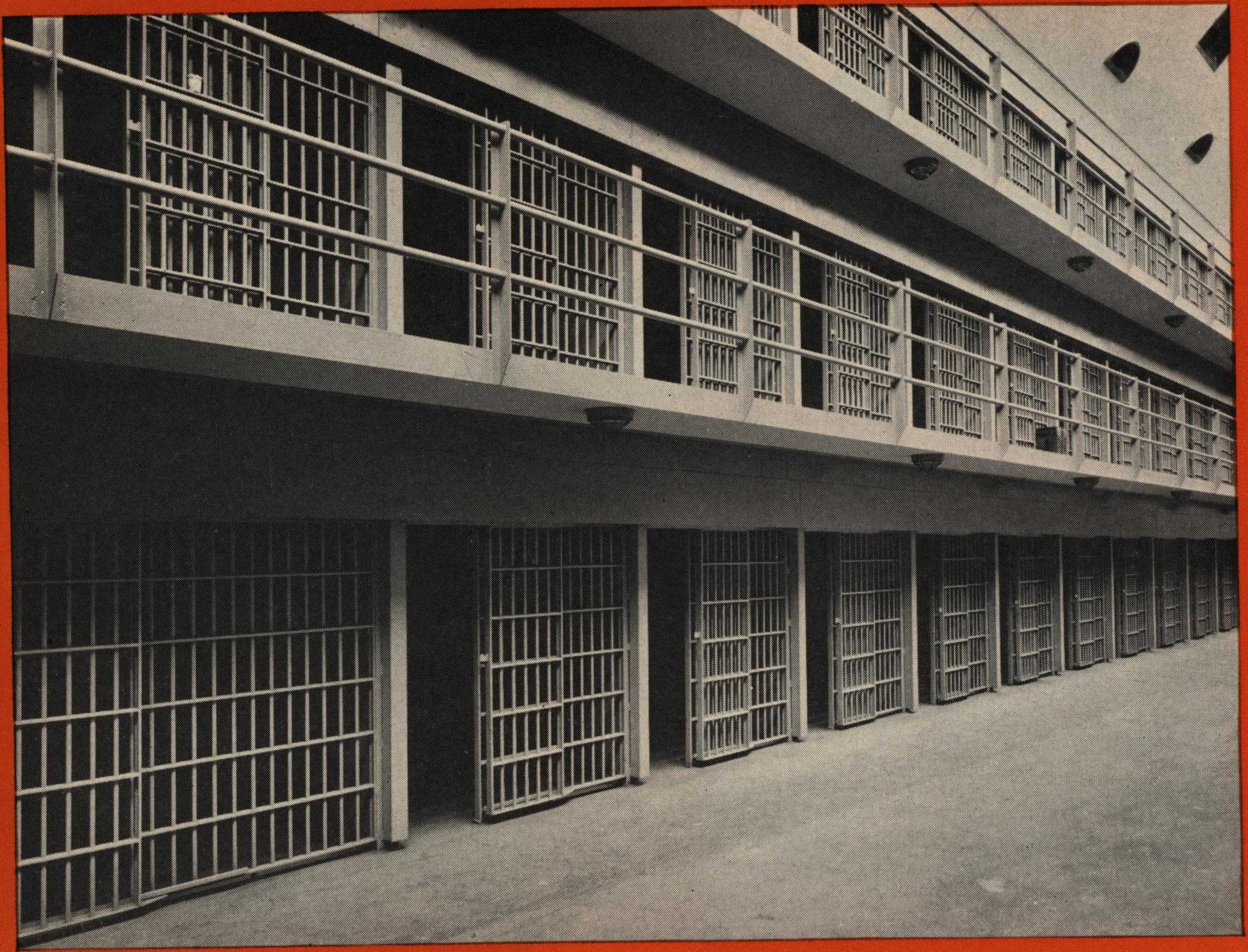
- HEXAGONAL BARS
- ROUND EDGE CHANNELS
- BULB BAR BATTENS

VAN DORN construction provides maximum strength with finest appearance.

A Three Tier Skylit Cell Block Featuring VAN DORN'S Remote Control Fully Selective Electric Cell Door Locking and Operating Device in Massachusetts Correctional Institution.



Mechanical Control Cabinet



JUST A FEW OF THE MANY *Van Dorn* INSTALLATIONS

CALIFORNIA
Long Beach Safety Building, Long Beach
San Bernardino County Jail

CONNECTICUT
State Prison, Somers
Fairfield County Jail, Bridgeport

GEORGIA
Bibb City Jail, Bibb City

ILLINOIS
Cook County Jail, Chicago
DuPage County Jail, Wheaton

INDIANA
Indiana State Prison, Michigan City
State Reformatory, Pendleton
Police Headquarters, Gary

MAINE
State Prison, Thomaston
Reformatory for Men, South Windham

MARYLAND
Patuxent Institution, Jessups
City District Police Stations, Baltimore
Maryland House of Correction, Jessups

MASSACHUSETTS
State Prison, Walpole

MICHIGAN
Berrien County Jail, St. Joseph
Cass County Jail, Cassopolis
Federal Correctional Institution, Milan

MINNESOTA
Ramsey County Workhouse, St. Paul

NEW JERSEY
Passaic County Jail, Paterson
Salem County Jail, Salem

NEW YORK
Greenhaven Prison, Stormville
Clinton Prison, Dannemora
Great Meadows Correctional Institution, Comstock
Sing Sing Prison, Ossining
Westchester County Penitentiary, Valhalla
Matteawan State Hospital, Beacon
Nassau County Jail, Mineola

NORTH DAKOTA
Cavalier County Jail, Langdon

OHIO
Marion Correctional Institution, Marion
Lake County Jail, Painesville
Cuyahoga County Jail, Cleveland

OREGON
State Penitentiary, Salem
State Correctional Institution, Salem

PENNSYLVANIA
Dauphin County Jail, Harrisburg
Armstrong County Jail, Kittanning
U. S. Penitentiary, Lewisburg

RHODE ISLAND
State Reformatory, Howard

VERMONT
State Penitentiary, Windsor

WASHINGTON
State Penitentiary, Walla Walla
King County Jail, Seattle

WEST VIRGINIA
Mason County Jail, Point Pleasant

WISCONSIN
Grant County Jail, Lancaster

CANADA
Ontario Reformatory, Millbrook, Ontario

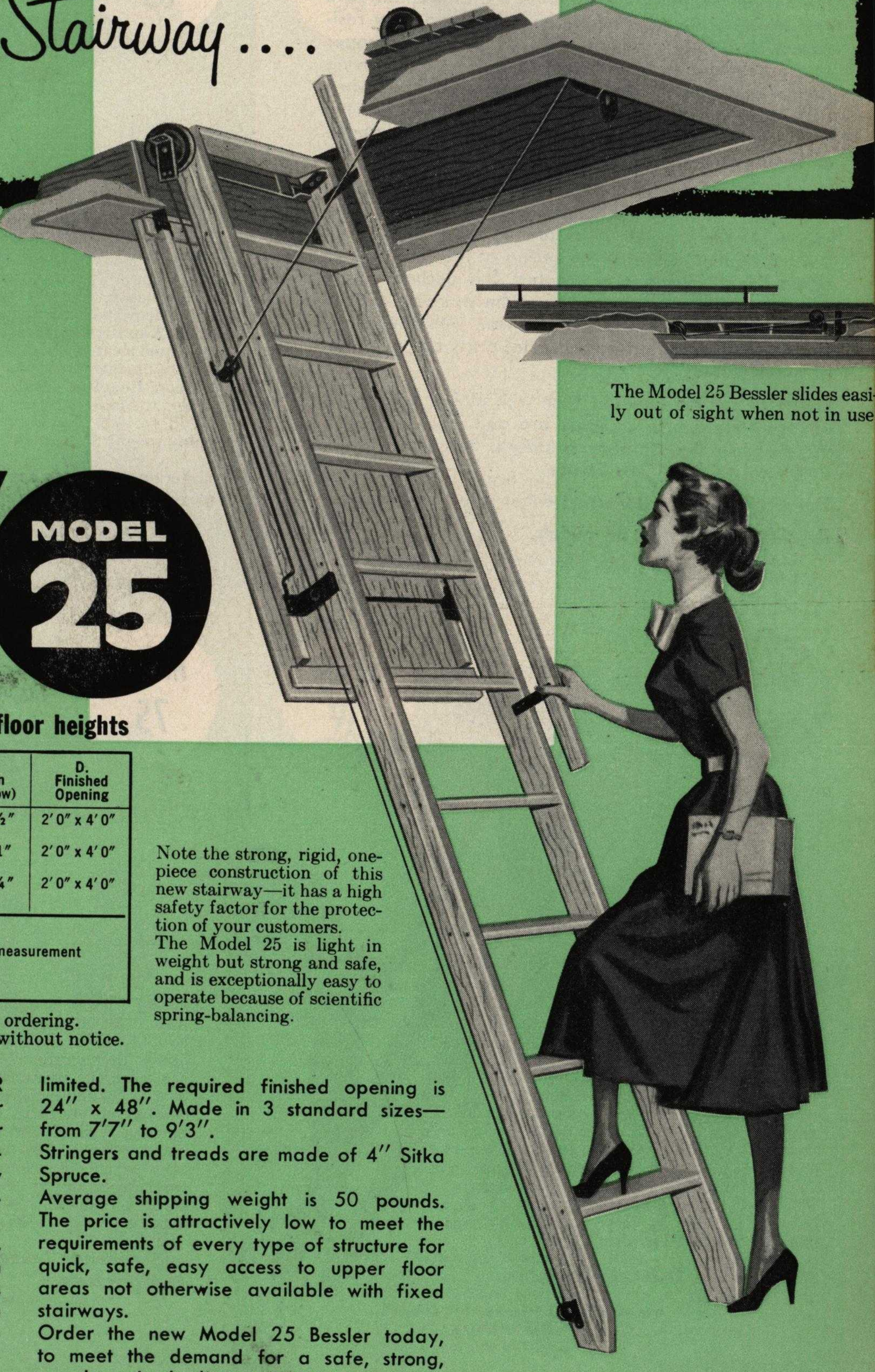
PUERTO RICO
Penitentiary of Commonwealth of Puerto Rico

THE *Van Dorn*
IRON WORKS CO.
2685 EAST 79th STREET
CLEVELAND 4, OHIO

An Economical **NEW** *Bessler Disappearing Stairway....*

QUALITY AT A NEW LOW PRICE!

MODEL 25



The Model 25 Bessler slides easily out of sight when not in use

DIMENSIONS for various floor to floor heights

Floor to Floor	A. Radius (Above)	B. Plumb Height (Above)	C. Run (Below)	D. Finished Opening
7′ 7″ to 8′ 3″ (Order Model 25-S)	5′ 0″	3′ 0″	3′ 8½″	2′ 0″ x 4′ 0″
8′ 4″ to 8′ 9″ (Order Model 25-M)	5′ 6″	3′ 8″	3′ 11″	2′ 0″ x 4′ 0″
8′ 10″ to 9′ 3″ (Order Model 25-L)	6′ 0″	4′ 4″	4′ 1¼″	2′ 0″ x 4′ 0″

Actual width of stairway 17³⁄₁₆″ overall, including stringers.

Rough opening should be made two inches larger than the measurement shown for finished opening.

Average shipping weight approximately 50 pounds.

Be sure to give floor to floor height when ordering. Specifications and material subject to change without notice.

Note the strong, rigid, one-piece construction of this new stairway—it has a high safety factor for the protection of your customers. The Model 25 is light in weight but strong and safe, and is exceptionally easy to operate because of scientific spring-balancing.

This is the new Model 25 in the BESSLER Disappearing Stairway line . . . famous for 45 years as the inventor and quality leader in the disappearing stairway field. Typically Bessler in scientific design . . . safety engineering . . . and strong, quality construction.

The Model 25 Bessler has three spring drums, two of which close the door; the other drum is to assist the operator in sliding stringers over door. This drum is at the head of the opening on the left side and easily accessible for adjusting and tension.

The slightly steeper run and shorter door are most suitable for use where space is limited. The required finished opening is 24″ x 48″. Made in 3 standard sizes—from 7′7″ to 9′3″.

Stringers and treads are made of 4″ Sitka Spruce.

Average shipping weight is 50 pounds. The price is attractively low to meet the requirements of every type of structure for quick, safe, easy access to upper floor areas not otherwise available with fixed stairways.

Order the new Model 25 Bessler today, to meet the demand for a safe, strong, popular-priced disappearing stairway in the high-quality field!

BESSLER DISAPPEARING STAIRW

SUBSTANTIAL · SIGHTLY · PRACTICAL · FOR ONE AND TWO-STORY RESIDENCES AND

The Original Disappearing Stairway . . . in Use Over 45 Years

The Bessler Disappearing Stairway is a substantial, safe and practical flight of stairs for one or two-story residences and other types of buildings, providing proper stair access to an upper floor when desired, and leaving clear the floor space ordinarily occupied by stairs when that is wanted. While not in use, the stair slides into the ceiling out of the way. It can be operated from above as well as from below.

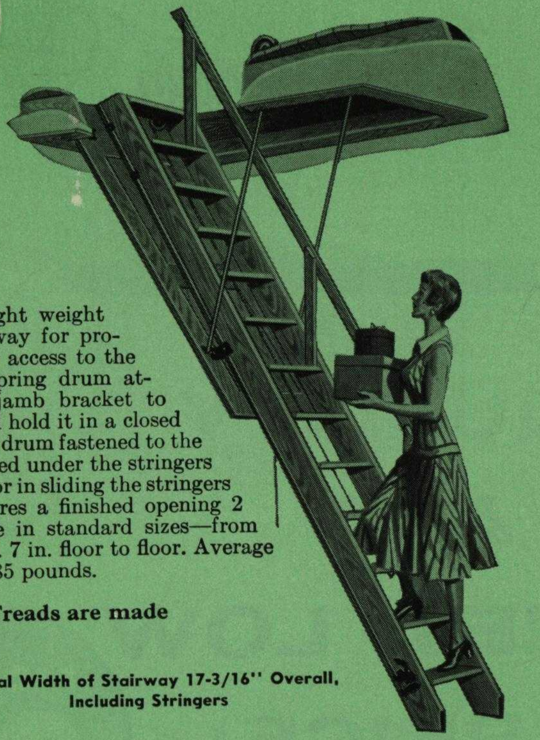
The treads are properly secured to heavy string pieces with open risers. The full-length hand rail is strong and secure. At the top the stairs are attached to the end trimmer of an opening in the ceiling of the room or hall where the stairs are to be located. The mechanism and operation are very simple. To use the stairway a slight pull on a chain brings it into position, with very slight assistance from the operator. Metal parts are all made of pressed steel.

The door can be installed flush with plaster regardless of how wide the ceiling joists are and is the only part visible when the stairway is closed. Stringers, treads, and hand rail are Sitka Spruce.

Hand rail can be installed on either side of stairway.

Repairs available for all models.

Model 35

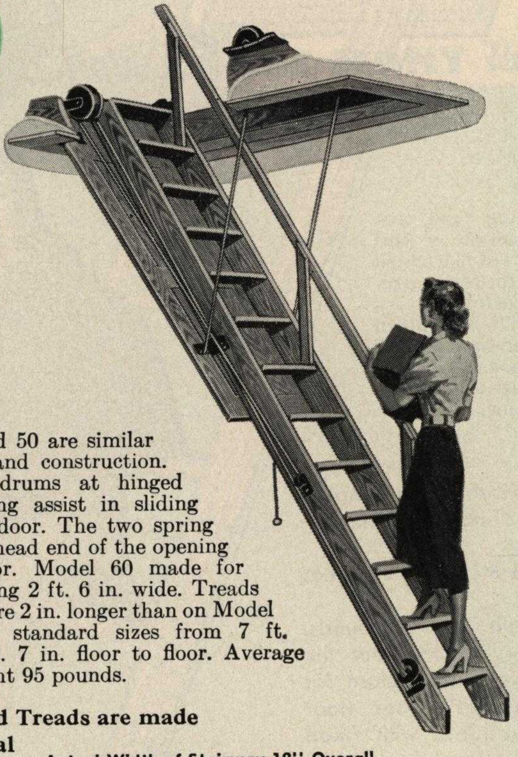


Model 35 is a light weight inexpensive stairway for providing safe, ready access to the attic. It has a spring drum attached to each jamb bracket to raise the door and hold it in a closed position. A spring drum fastened to the metal frame located under the stringers assists the operator in sliding the stringers over door. Requires a finished opening 2 ft. wide. . . Made in standard sizes—from 7 ft. 7 in. to 10 ft. 7 in. floor to floor. Average shipping weight 85 pounds.

Stringers and Treads are made of 6″ material

Actual Width of Stairway 17-3/16″ Overall, Including Stringers

Model 60

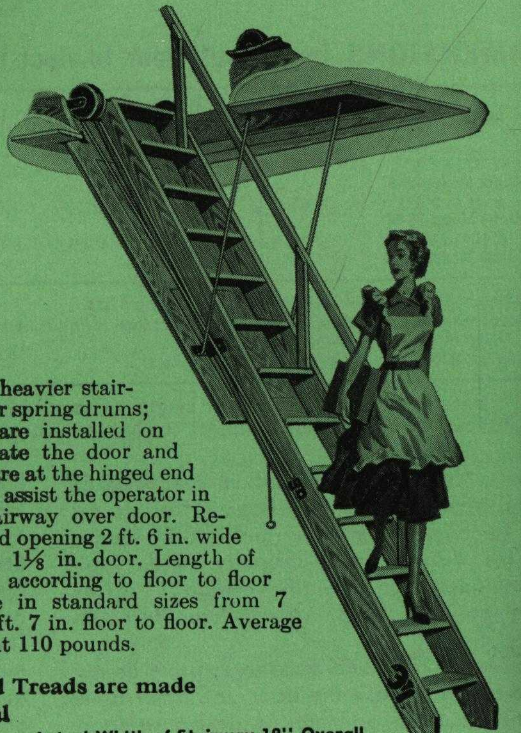


Models 60 and 50 are similar in operation and construction. Two spring drums at hinged end of opening assist in sliding stringer over door. The two spring drums at the head end of the opening close the door. Model 60 made for finished opening 2 ft. 6 in. wide. Treads on Model 60 are 2 in. longer than on Model 50. Made in standard sizes from 7 ft. 7 in. to 10 ft. 7 in. floor to floor. Average shipping weight 95 pounds.

Stringers and Treads are made of 6″ material

Actual Width of Stairway 19″ Overall, Including Stringers

Model 75



Model 75 is a heavier stairway. It has four spring drums; two of these are installed on jambs to operate the door and the other two are at the hinged end of opening and assist the operator in sliding the stairway over door. Requires a finished opening 2 ft. 6 in. wide equipped with 1⅛ in. door. Length of opening varies according to floor to floor heights. Made in standard sizes from 7 ft. 7 in. to 10 ft. 7 in. floor to floor. Average shipping weight 110 pounds.

Stringers and Treads are made of 6″ material

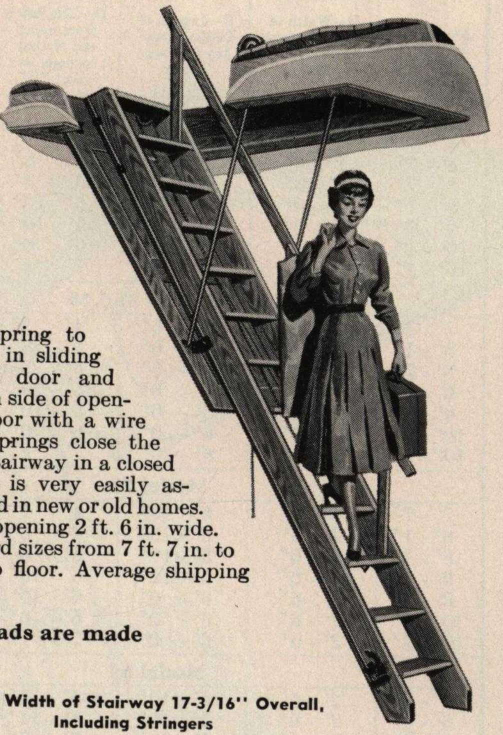
Actual Width of Stairway 19″ Overall, Including Stringers

WHEN ORDERING PLEASE GIVE EXACT HEIGHT FROM FLOOR TO TOP OF UPPER FLOOR

YS IN EIGHT SAFE WOOD MODELS

HER TYPES OF BUILDINGS • PROVIDE ACCESS TO UPPER STORIES AND FLOOR AREAS

Model 45

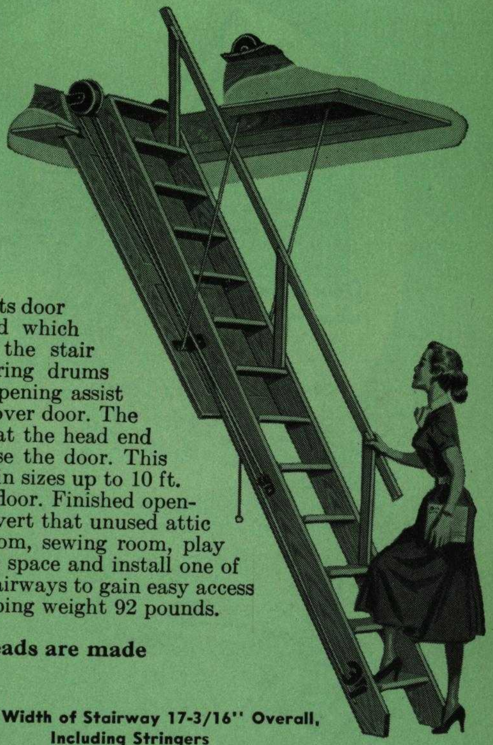


Model 45 has a spring to assist the operator in sliding the stringers over door and spring drum on each side of opening connected to door with a wire cable. These two springs close the door and hold the stairway in a closed position. Model 45 is very easily assembled and installed in new or old homes. Requires a finished opening 2 ft. 6 in. wide. . . . Made in standard sizes from 7 ft. 7 in. to 10 ft. 7 in. floor to floor. Average shipping weight 90 pounds.

Stringers and Treads are made of 6″ material.

Actual Width of Stairway 17-3/16″ Overall, Including Stringers

Model 50

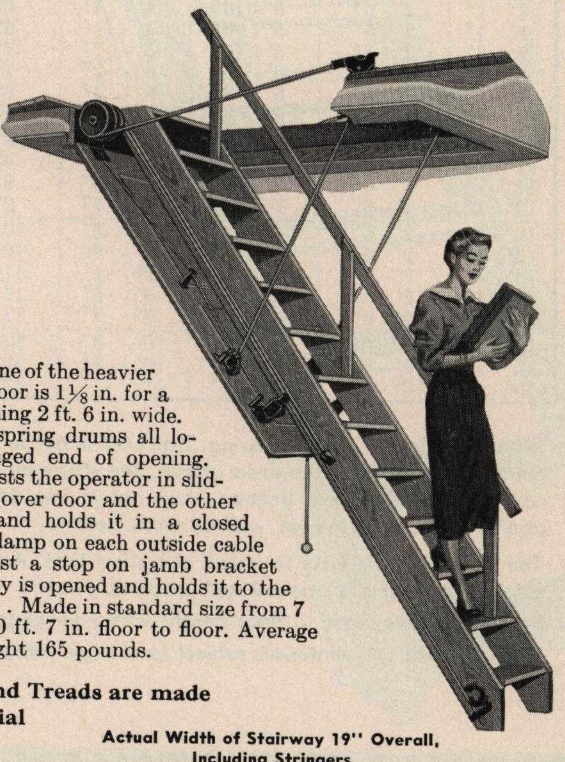


This stairway has its door hinged on the end which helps to support the stair stringers. Two spring drums at hinged end of opening assist in sliding stringer over door. The two spring drums at the head end of the opening close the door. This model is furnished in sizes up to 10 ft. 7 in. from floor to floor. Finished opening 2 ft. wide. Convert that unused attic space into a bedroom, sewing room, play room or for storage space and install one of our space saving stairways to gain easy access to it. Average shipping weight 92 pounds.

Stringers and Treads are made of 6″ material.

Actual Width of Stairway 17-3/16″ Overall, Including Stringers

Model 89

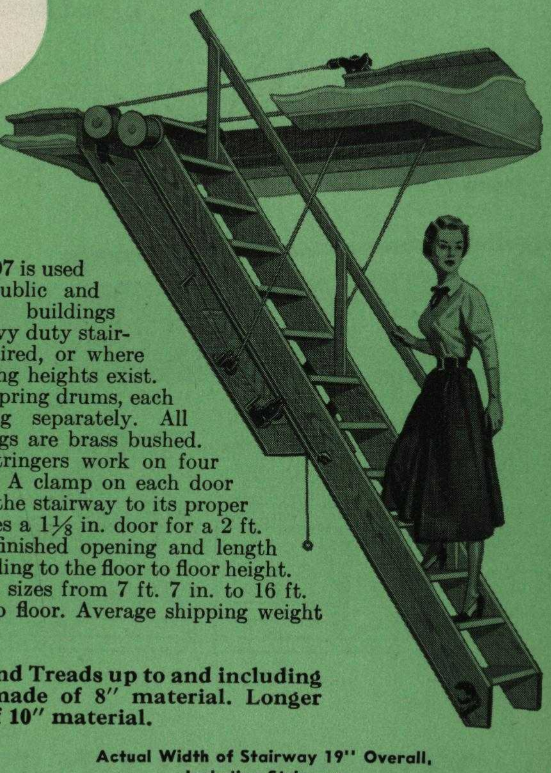


Model 89 is one of the heavier stairways. Door is 1⅛ in. for a finished opening 2 ft. 6 in. wide. It has four spring drums all located at hinged end of opening. One pair assists the operator in sliding stringers over door and the other raises door and holds it in a closed position. A clamp on each outside cable strikes against a stop on jamb bracket when stairway is opened and holds it to the correct run. . . Made in standard size from 7 ft. 7 in. to 10 ft. 7 in. floor to floor. Average shipping weight 165 pounds.

Stringers and Treads are made of 8″ material

Actual Width of Stairway 19″ Overall, Including Stringers

Model 97



Model No. 97 is used in many public and commercial buildings where a heavy duty stairway is required, or where greater ceiling heights exist. It has four spring drums, each one working separately. All main bearings are brass bushed. The stair stringers work on four steel rollers. A clamp on each door cable holds the stairway to its proper run. Requires a 1⅛ in. door for a 2 ft. 6 in. wide finished opening and length varies according to the floor to floor height. . . . Made in sizes from 7 ft. 7 in. to 16 ft. 1 in. floor to floor. Average shipping weight 190 pounds.

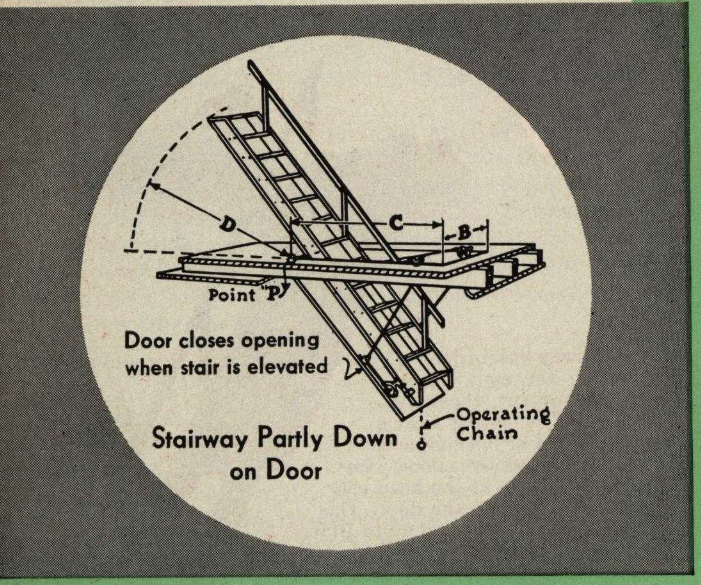
Stringers and Treads up to and including 12′7″ are made of 8″ material. Longer stringers of 10″ material.

Actual Width of Stairway 19″ Overall, Including Stringers

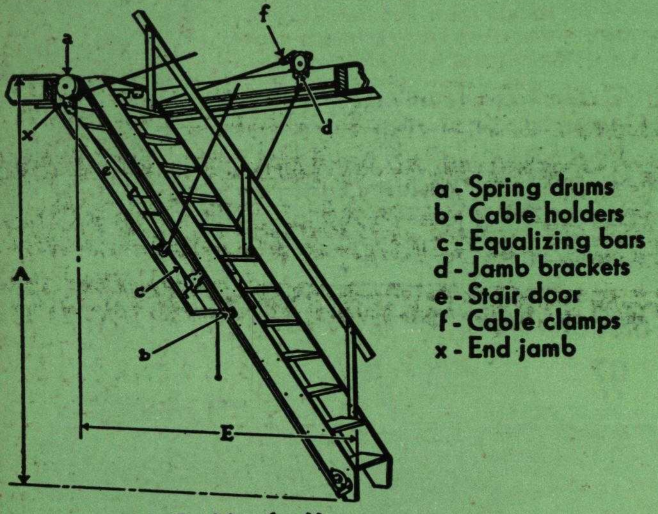
LSO MEASUREMENT OF CEILING CONSTRUCTION AND MODEL NUMBER

DIMENSIONS

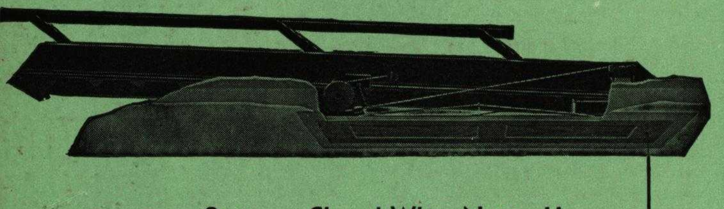
BESSLER DISAPPEARING STAIRWAYS


D
C
B
Point "P"
Door closes opening when stair is elevated
Operating Chain

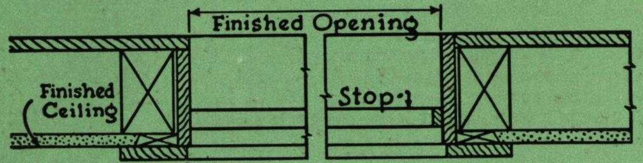
Stairway Partly Down on Door


a
f
d
x
A
E
c
b
a - Spring drums
b - Cable holders
c - Equalizing bars
d - Jamb brackets
e - Stair door
f - Cable clamps
x - End jamb

Stairway in Position for Use



Stairway Closed When Not in Use


Finished Opening
Finished Ceiling
Stop

Section through Stair Opening

DIMENSIONS
for various floor to floor heights

A—Height from floor to floor	B—Width of finished opening between jambs	C—Length of finished opening between jambs	D—Dimension from upper end of stair stringer to point "P"	E—Distance from front edge of stair stringer to finished jamb
Models 35 and 50				
7′ - 7″	2′ - 0″	5′ - 6″	4′ - 1″	5′ - 4″
8′ - 1″	2′ - 0″	5′ - 6″	4′ - 8″	5′ - 8″
8′ - 7″	2′ - 0″	5′ - 6″	5′ - 3″	6′ - 0″
9′ - 1″	2′ - 0″	5′ - 6″	5′ - 10″	6′ - 4″
9′ - 7″	2′ - 0″	6′ - 0″	5′ - 10″	6′ - 8″
10′ - 1″	2′ - 0″	6′ - 0″	6′ - 6″	6′ - 11″
10′ - 7″	2′ - 0″	6′ - 0″	7′ - 1″	7′ - 4″
Models 45 and 60				
7′ - 7″	2′ - 6″	5′ - 6″	4′ - 1″	5′ - 4″
8′ - 1″	2′ - 6″	5′ - 6″	4′ - 8″	5′ - 8″
8′ - 7″	2′ - 6″	5′ - 6″	5′ - 3″	6′ - 0″
9′ - 1″	2′ - 6″	5′ - 6″	5′ - 10″	6′ - 4″
9′ - 7″	2′ - 6″	6′ - 0″	5′ - 10″	6′ - 8″
10′ - 1″	2′ - 6″	6′ - 0″	6′ - 6″	6′ - 11″
10′ - 7″	2′ - 6″	6′ - 0″	7′ - 1″	7′ - 4″
Model 75				
7′ - 7″	2′ - 6″	5′ - 10″	4′ - 1″	5′ - 4″
8′ - 1″	2′ - 6″	5′ - 10″	4′ - 8″	5′ - 8″
8′ - 7″	2′ - 6″	5′ - 10″	5′ - 3″	6′ - 0″
9′ - 1″	2′ - 6″	5′ - 10″	5′ - 10″	6′ - 4″
9′ - 7″	2′ - 6″	6′ - 0″	5′ - 10″	6′ - 8″
10′ - 1″	2′ - 6″	6′ - 0″	6′ - 6″	6′ - 11″
10′ - 7″	2′ - 6″	6′ - 0″	7′ - 1″	7′ - 4″
Model 89				
7′ - 7″	2′ - 6″	5′ - 10″	4′ - 4″	6′ - 5″
8′ - 1″	2′ - 6″	5′ - 10″	4′ - 11″	6′ - 10″
8′ - 7″	2′ - 6″	5′ - 10″	5′ - 7″	7′ - 3″
9′ - 1″	2′ - 6″	6′ - 0″	6′ - 2″	7′ - 7″
9′ - 7″	2′ - 6″	6′ - 4″	6′ - 4″	8′ - 0″
10′ - 1″	2′ - 6″	6′ - 8″	6′ - 8″	8′ - 4″
10′ - 7″	2′ - 6″	6′ - 11″	7′ - 1″	8′ - 9″
Model 97				
7′ - 7″	2′ - 6″	5′ - 10″	4′ - 4″	6′ - 5″
8′ - 1″	2′ - 6″	5′ - 10″	4′ - 11″	6′ - 10″
8′ - 7″	2′ - 6″	5′ - 10″	5′ - 7″	7′ - 3″
9′ - 1″	2′ - 6″	6′ - 0″	6′ - 2″	7′ - 7″
9′ - 7″	2′ - 6″	6′ - 4″	6′ - 4″	8′ - 0″
10′ - 1″	2′ - 6″	6′ - 8″	6′ - 8″	8′ - 4″
10′ - 7″	2′ - 6″	6′ - 11″	7′ - 1″	8′ - 9″
11′ - 1″	2′ - 6″	7′ - 3″	7′ - 6″	9′ - 2″
11′ - 7″	2′ - 6″	7′ - 6″	7′ - 9″	9′ - 6″
12′ - 1″	2′ - 6″	7′ - 9″	8′ - 1″	9′ - 10″
12′ - 7″	2′ - 6″	8′ - 1″	8′ - 5″	10′ - 3″
13′ - 1″	2′ - 6″	8′ - 4″	8′ - 9″	10′ - 8″
13′ - 7″	2′ - 6″	8′ - 8″	9′ - 1″	11′ - 0″
14′ - 1″	2′ - 6″	9′ - 0″	9′ - 5″	11′ - 5″
14′ - 7″	2′ - 6″	9′ - 3″	9′ - 8″	11′ - 9″
15′ - 1″	2′ - 6″	9′ - 6″	10′ - 3″	12′ - 3″
15′ - 7″	2′ - 6″	9′ - 9″	10′ - 9″	12′ - 10″
16′ - 1″	2′ - 6″	10′ - 1″	11′ - 1″	13′ - 1″

When the Bessler Disappearing Stairway is not in use, it is entirely concealed in the area above. The stairway takes up no space in the room below, when not in use. It can be operated from above as well as from below.

The Bessler unit is easy to install in a short time. A complete set of instructions is packed with each stairway.

Be sure to give floor to floor height with your order.

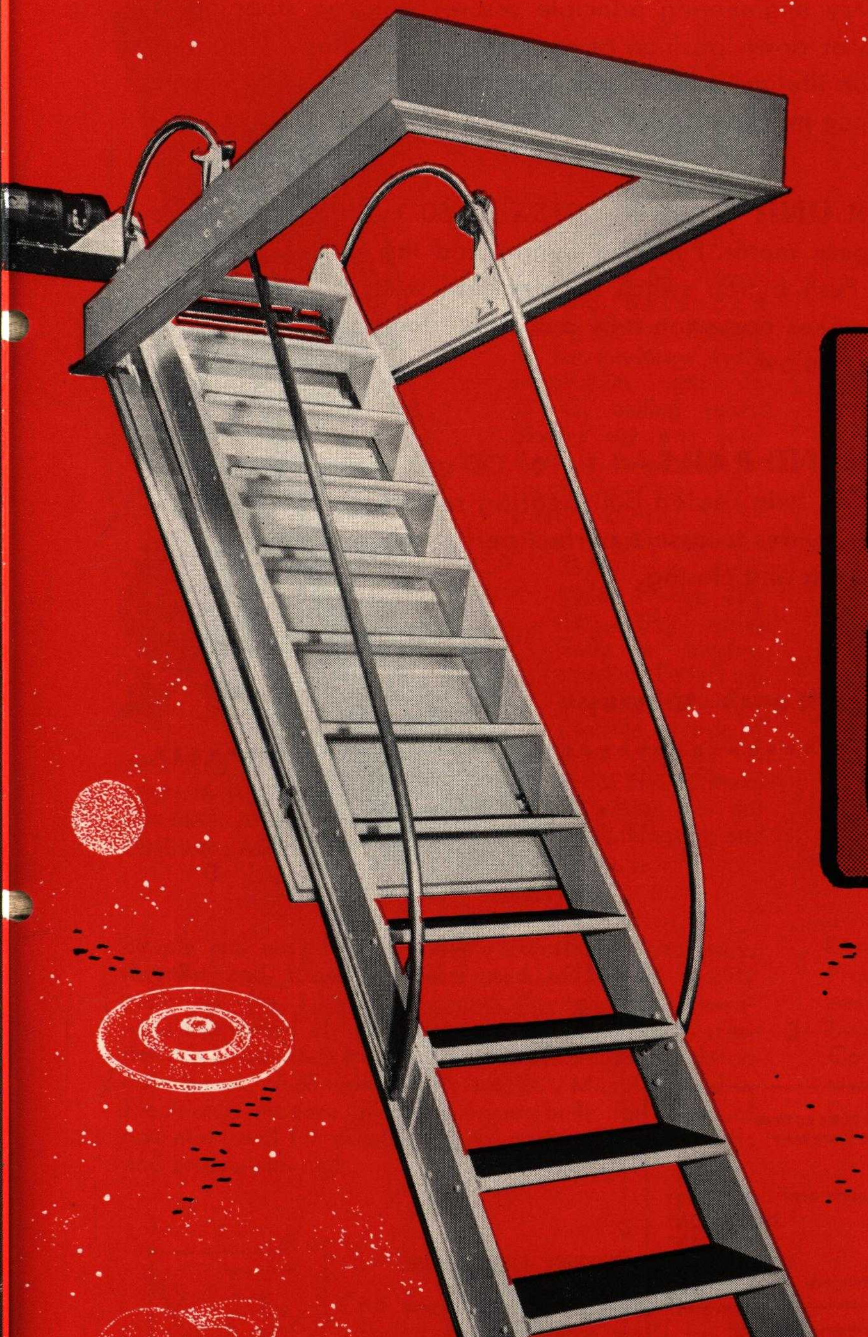
Specifications and materials subject to change without notice.

THE BESSLER DISAPPEARING STAIRWAY CO.

1900 East Market St., Akron 5, Ohio

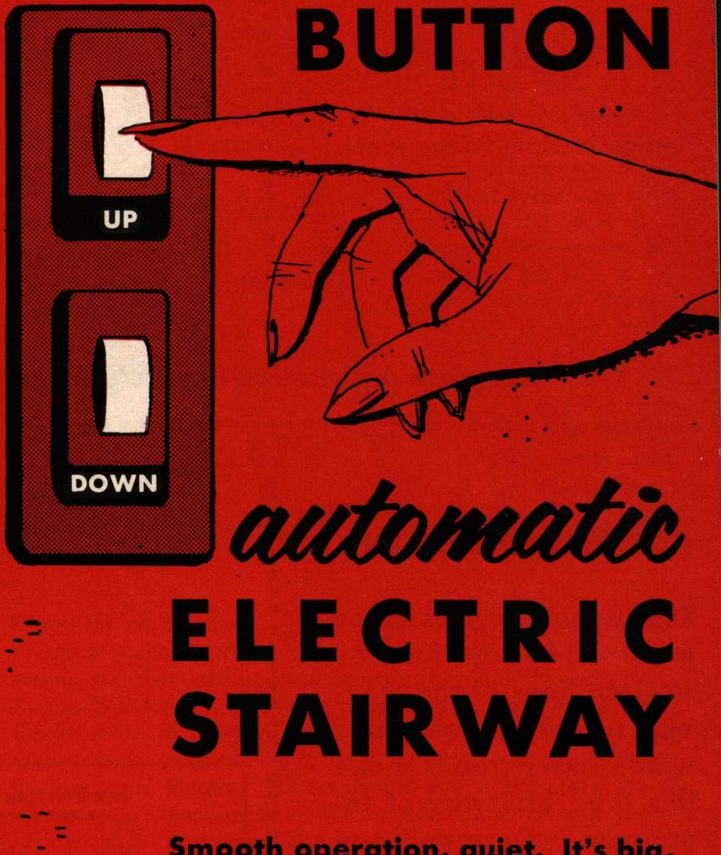
For Fine Homes And Commercial Buildings

NEW as tomorrow



BIG

PUSH BUTTON



automatic ELECTRIC STAIRWAY

Smooth operation, quiet. It's big, bold and beautiful. Eight inch treads. Like all PRECISION products it's built to give trouble-free service and to last a lifetime. Simple engineering principle assures perfect opening and closing!

Manufactured by

PRECISION PARTS CORPORATION

400 North First Street
Nashville 7, Tennessee

Manufacturers of America's Most Complete Line of Disappearing Stairways

PRECISION AUTOMATIC ELECTRIC STAIRWAY

BIG BOLD and BEAUTIFUL

BIG TREADS—

1″ x 8″ x 19⅜″. Covered, as a safety feature, with ribbed rubber tread over the full 8 x 19⅜ inch area.

BIG STRINGERS—

1⅛″ x 6½″ kiln dried, "stress-tested" lumber. Heavily insulated door panel.

BOLD OPERATION— Simple AIRCRAFT steel cables and dual pulley engineering principle assures stairway stopping in either up or down position at exactly the right place. Operates entirely on lifetime sealed ball bearings. Safe and sure. Truly a masterpiece in "push-button living".

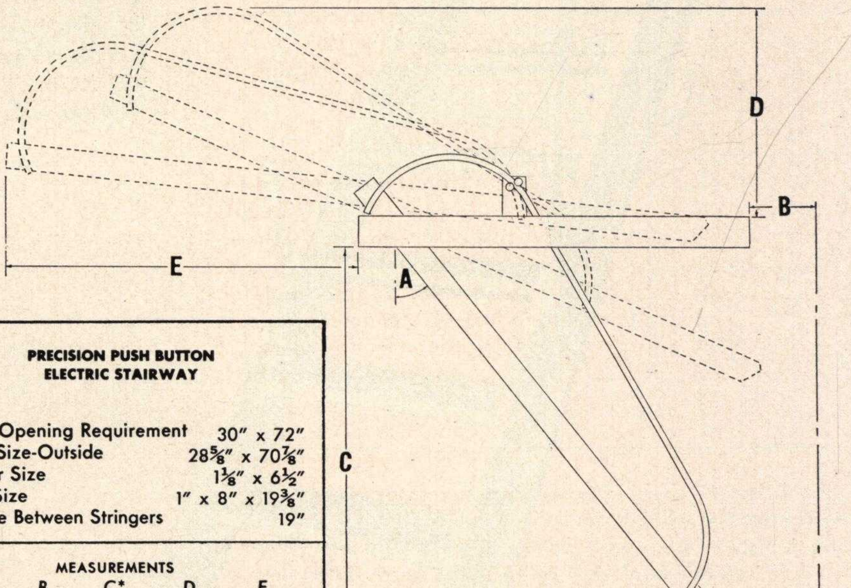
POWER UNIT— 1/3 hp; 115-volt, 60 cycle, single phase electric gear motor. Push the button and this power unit does the rest. Push button switch fits standard wall receptacle. Dual controls makes operation fully automatic from the station above as well as below.

BOLD HAND RAILS—1-1/16″ OD galvanized steel tubing. Operate on twin sealed ball bearing rollers, (both sides), as stationary guides to assure perfect performance of stairway on both opening and closing.

Complete installation instructions with each stairway

ADVANCED DESIGN

The sweeping curves of the hand rails against the straight lines of the stairway's heavy stringers and wide, heavy treads make this the "Stairway of tomorrow." Designed and built for use in the finest homes, banks and other commercial buildings where storage space is at a premium.



PRECISION PUSH BUTTON ELECTRIC STAIRWAY

Rough Opening Requirement	30″ x 72″
Frame Size-Outside	28⅝″ x 70⅞″
Stringer Size	1⅛″ x 6½″
Tread Size	1″ x 8″ x 19⅜″
Distance Between Stringers	19″

MEASUREMENTS

A	B	C*	D	E
38°	12.5″	7′-0″	42″	60″
38°	22″	8′-0″	49″	75″
38°	31.5″	9′-0″	56″	90″
38°	41″	10′-0″	63″	105″
38°	50.5″	11′-0″	70″	120″
38°	60″	12′-0″	77″	135″

** Measured from bottom edge of frame to finished floor.*

PRECISION PARTS CORPORATION

400 North First Street
Nashville 7, Tennessee

Manufacturers of America's Most Complete Line of Disappearing Stairways.

BIG 30" WIDE

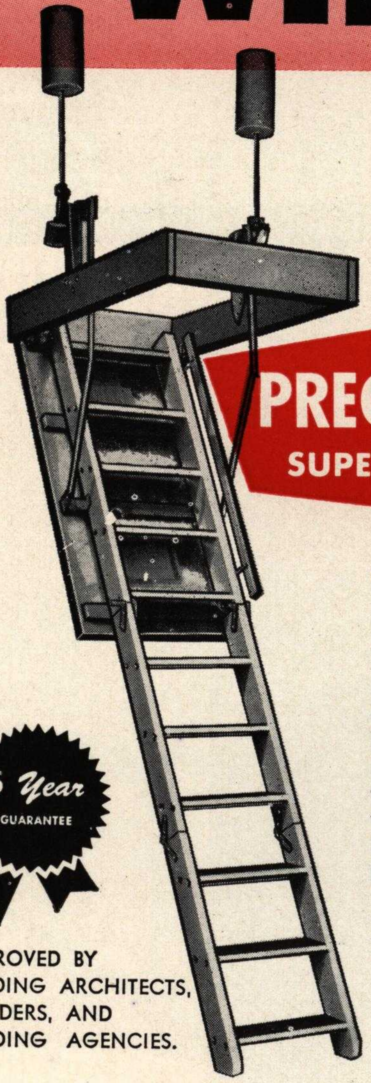
SUPER SIMPLEX

For 30" x 54" rough opening. Balanced Spring Action. Designed for maximum width installation with 16 O. C. ceiling joists. Simply cut one joist and put in headers for rough opening. Big treads 25/32" x 5" wide. Heavy stringer 25/32" x 4½" wide. Frame 25/32" x 5½" wide. Truly a bigger, sturdier folding stairway to make possible storage of larger things in attics and to make it easier to get small things up and down.

5 Year GUARANTEE

APPROVED BY LEADING ARCHITECTS, BUILDERS, AND LENDING AGENCIES.

Simple and easy to operate—no adjustments necessary. Rugged and strong—manufactured of highest quality materials—No. 1 kiln dried lumber throughout. All hardware fabricated of heavy galvanized steel. Double steel tie-rods under each tread. Double steel hinges. Insulated door panel. Full width safety treads. Manufactured in Precision's modern plant—precision-built for ease of operation and for durability. All parts secured by bolts and screws—no nails.



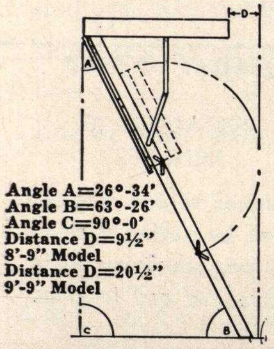
PRECISION SUPER DELUXE

New large size—Actuated by counterweights. Designed for 30" x 54" rough opening. Where 16 O. C. ceiling joists are used simply cut one joist and put in headers. Big treads 25/32" x 5" wide. Heavy stringer 25/32" x 4½" wide. Frame 25/32" x 5½" wide. Truly a bigger sturdier stairway for installation where quality and strength are of prime consideration.

5 Year GUARANTEE

APPROVED BY LEADING ARCHITECTS, BUILDERS, AND LENDING AGENCIES.

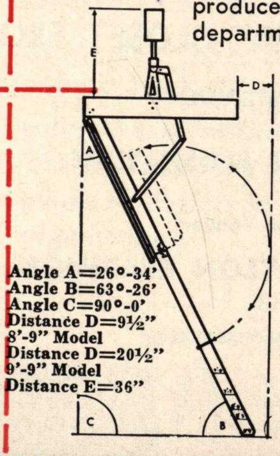
Operates on life-time roller bearings. Actuated by famous Precision counterweights. Hydraulic Safety Checks — for easing stairway into open or shut position quietly and safely. Insulated Door Panel. All parts secured by bolts and screws. Constructed of selected kiln dried lumber throughout. Full width safety treads, double steel tie-rods under each tread. Double steel hinges. All hardware and other metal parts produced in our modern foundry and press department.



Angle A=26°-34'
Angle B=63°-26'
Angle C=90°-0'
Distance D=9½"
8'-9" Model
Distance D=20½"
9'-9" Model

TECHNICAL INFORMATION

All parts interchangeable. Balanced Spring Action. Frame made for 30" x 54" opening. Also available for smaller openings. Two Standard Sizes. For ceiling heights 7' 0" to 8' 9", use 8' 9". For ceiling heights 8' 9" to 9' 9", use 9' 9". Custom Super Simplex (R.O. 30" x 72") 9' 10" to 12' 2", use 12' 2". Figure from finished floor to finished ceiling.



Angle A=26°-34'
Angle B=63°-26'
Angle C=90°-0'
Distance D=9½"
8'-9" Model
Distance D=20½"
9'-9" Model
Distance E=36"

Technical Information

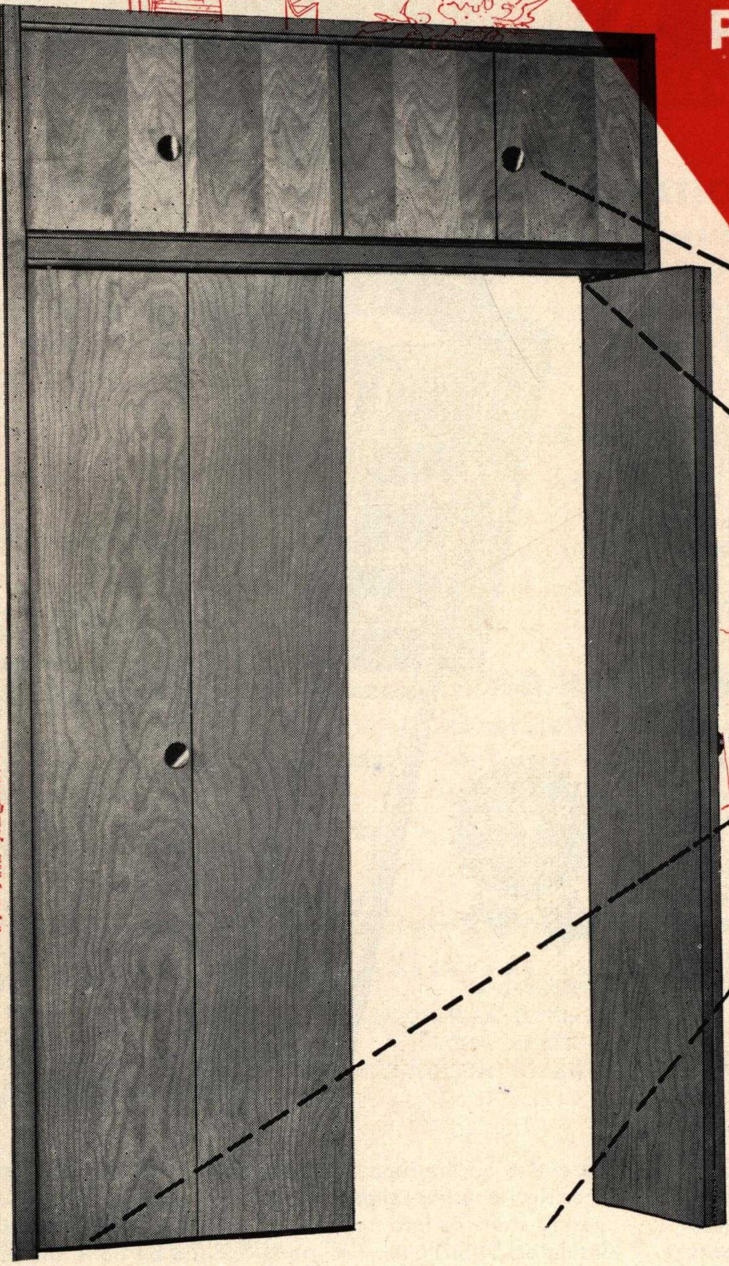
All parts interchangeable. Actuated by counterweights. Frame made for 30" x 54" opening. Also available for smaller openings. Two Standard Sizes. For ceiling heights 7'-0" to 8'-9" use 8'-9". For ceiling heights 8'-9" to 9'-9" use 9'-9". Figure from finished floor to finished ceiling. Trim not furnished. Shipped in one package (completely assembled).

NO OTHER STAIRWAYS OFFER SO MUCH!

- Precision and Simplex Stairways Stocked by Over 200 Jobbers in U.S.A. and Canada!

Completely Assembled . . . JUST SET IN PLACE

PRECISION CLOSET FRONT



These doors fold, too. Aluminum tracks.

Nylon guides and bearings.

Nylon door guide.

Strong folding doors.

Nylon pivot bearing.

No door stop to sweep or trip over.

7′ 9″ DELUXE

These doors fold, too, using aluminum track and nylon door guides as featured in #2 and #3 below.
Aluminum track for smooth, effortless operation.
Nylon door guides for quiet operation. Roll easily in aluminum track and are self-adjusting. All load-bearing points—guides, top and bottom pivot brackets are nylon bushed for noise-free operation.
Strong folding doors—1⅜'' hollow core, flush type. Butt type hinges fo life-time ease of operation. Complete with door aligner. Available in Birch Lauan and Paint Grade Veneer. No door stop to sweep or stumble over. All hardware mounted on jambs and headers.
Jambs and header—¾'' x 4⅝''. Header for lower doors—1¼'' x 3⅝'' dadoed to receive upper compartment shelf.

LOWER DOORS 6'—UPPER DOORS 15½''

Item*	No. Doors	Door Width	Overall Width Including Jambs	Overall Height Including Header
1	2	12''	26¼''	7'-9''
2	2	15''	32¼''	¾'' Door
3	2	18''	38¼''	Clearance Above Floor
4	4	12''	50¼''	
5	4	15''	62¼''	
6	4	18''	74¼''	
7	4	21''	86¼''	
8	4	24''	98¼''	

*ORDER BY ITEM NO.

PRECISION "LABOR-SAVER" CLOSET FRONT

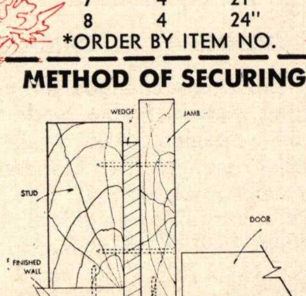
Completely Assembled

DOORS 1⅜″ HOLLOW CORE FLUSH TYPE
(top & bottom)
Available in Birch, Lauan or Paint Grade Veneer.

ALUMINUM TRACK AND NYLON BEARINGS—
on all doors assure perfect alignment and operation at all times.

PACKED 1 to a carton.

METHOD OF SECURING ASSEMBLY TO STUD



INSTALL IN 20 MINUTES

Designed so one man can install by nailing 4 cleats to studs, plumbing front, wedge and nail to studs.

Manufactured by

PRECISION PARTS CORPORATION

400 North First Street
Nashville 7, Tennessee

Art Metal

41 E. 42nd STREET NEW YORK 17, N. Y.

OFFICE FURNITURE AND MODULAR EQUIPMENT

Director Line

The newest concept in office desk design makes it possible to create the appearance most suited to your taste.

From company-wide needs of the nation's largest businesses, to the requirements of the smallest office, Art Metal can supply office furniture, modular equipment, and business systems to meet every problem, every need.

For more than 70 years, Art Metal engineers and planners have carefully studied and met the requirements of business. As a result, through one source — Art Metal — the most complete line of office equipment is available.

Today, Art Metal manufactures over 200 types of office furniture . . . visible systems and equipment for record keeping and administrative control . . . vertical filing and indexing systems.

A complete Office Planning Service which provides scientifically planned office layouts and equipment recommendations is at your disposal. These facilities are available through all branch offices or dealers in the nation-wide Art Metal organization.

ART METAL CONSTRUCTION COMPANY
41 EAST 42nd STREET
NEW YORK 17, N. Y.

Art Metal *The nation's leading designer and manufacturer of metal office equipment*

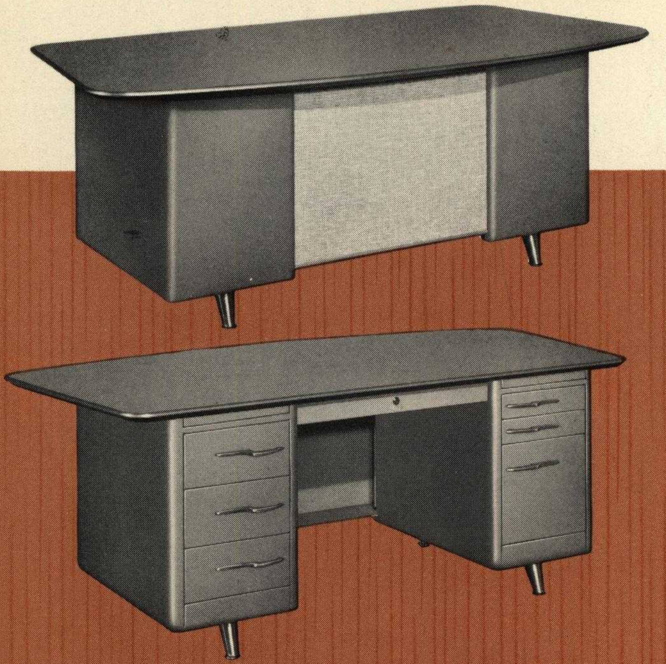
ART METAL DESKS . . . DRAWER ACCESSORIES

Desks are job-fitted to every work station.

Art Metal desks are built for efficiency, styled for leadership. Their functional design and organization for individual job requirements step up office work output and reduce costs wherever they are installed.

Within the three distinct desk series — Director Line, Pace-Setter, and Mainliner — there are styles for every office requirement and location. All desks have drawer equipment which serves most general purposes. For more refined and specialized use, Art Metal offers a complete line of drawer accessories, making it possible to design each desk to individual job requirements.

Desk versatility is increased through the use of functional Credenza units. This completely flexible, smartly styled line permits use as individual bases or group combinations to provide additional filing storage space adjacent to the desk .

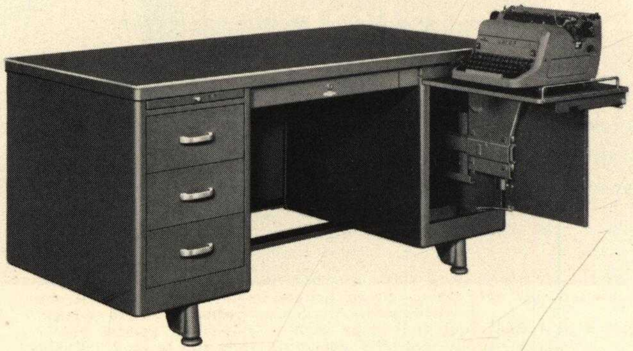


DIRECTOR LINE DESKS

Front and rear views of executive style with large fan top, overhang at back and both ends. Special Panlam "character" plastic applied to desk back.

PACE-SETTER DESKS . . . EXECUTIVE, GENERAL OFFICE, AND SECRETARIAL STYLES

The Pace-Setter series is a complete line of Executive and General Office Desks and Tables. The 78" executive style is shown. Other flat top sizes range from 40" to 72" wide — tables from 36" to 120" wide.

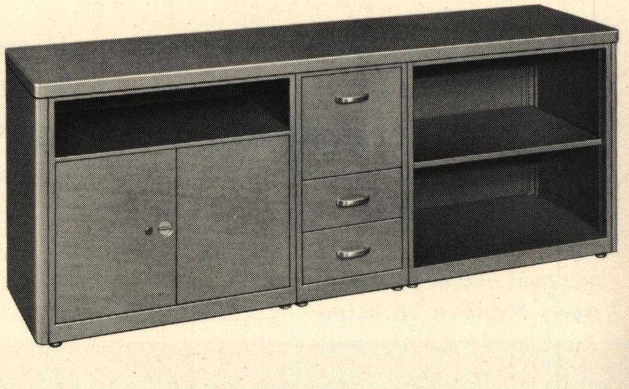


Pace-Setter Desks include 50", 55" and 60" secretarial styles with Fold-O-Way and elevator-type platforms for typewriters. Also available are clerical-type desks with fixed machine platforms in 45", 55" and 60" widths.

MAINLINER DESKS

Art Metal Mainliner Desks include flat top and secretarial styles as well as fixed platform types. Optional drawer accessories permit planned desks to fit specialized requirements.

CREDENZA UNITS

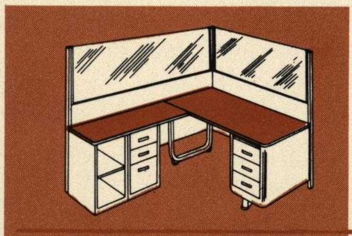


Credenza Units may be assembled in lengths up to 91½" or used individually. Basic units consist of two-drawer files, open and closed storage units and cupboards.

ART METAL MODULARS . . . the permanent answer to changing office requirements

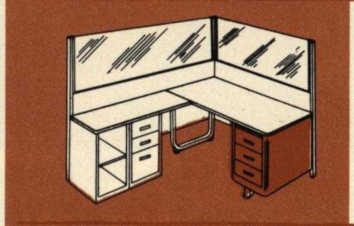
Modulars, by providing a wide range of prefabricated elements, give complete freedom for designing offices that fit today's requirements perfectly. They fit together in compact combinations that permit 30% or more in floor space savings. In areas where job functions require extreme concentration, Modulars help reduce distractions. Modulars are easily arranged to smooth traffic and work flow, and make productive, attractive places to work.

BASIC MODULAR ELEMENTS



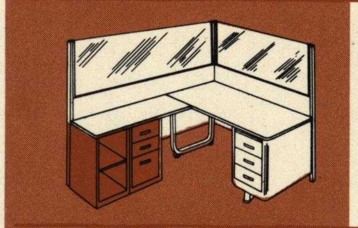
MODULAR TOPS

Provide the easily reachable work top area that ends cluttered desks and increases office production.



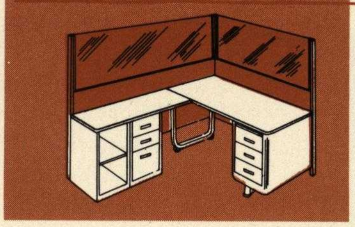
DESK PEDESTALS

In two depths, 18" and 30", and in letter, cap, or typewriter pedestal widths. Complete range of drawer accessories.



FILE PEDESTALS

Select from over 25 styles in three depths to get that extra file or storage space that makes a work station complete.



MODULAR PARTITIONS

Free-standing partitions in 44 sizes and a variety of panel inserts designed to fit within 1½" or less virtually any dimension over 13½".

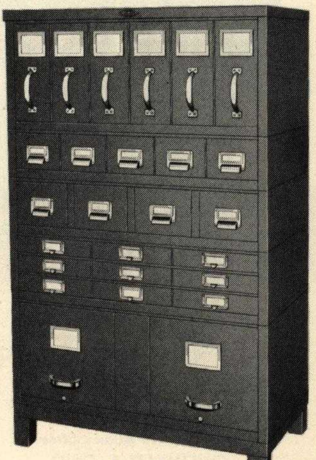
ALUMINUM OFFICE CHAIRS

These smart looking, quality-built chairs mark a new high in office chair design and construction. They have greater strength and durability to take the punishing wear of a busy office. Chair styles include executive type, both swivel and arm, clerical and secretarial posture styles, and general office chairs.

EXECUTIVE POSTURE CHAIR

ARM CHAIR

SECRETARIAL POSTURE CHAIR



WIDESECTIONS

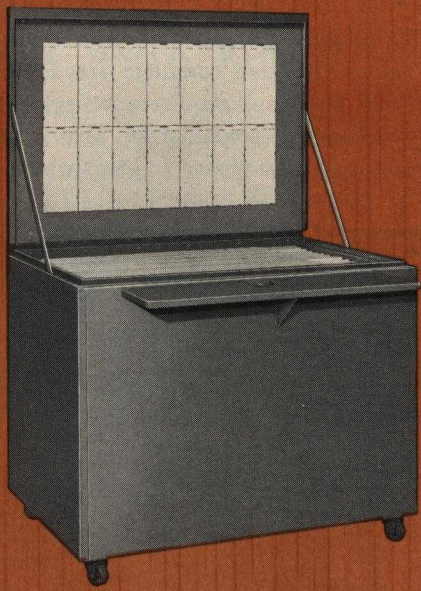
The great adaptability and flexibility of these horizontal sections permit almost limitless combinations to meet any filing requirement. The illustration shows how units of varying sizes and purposes can be combined into one compact unit.

ART METAL FILES FOR EVERY OFFICE NEED . . . EVERY OFFICE RECORD

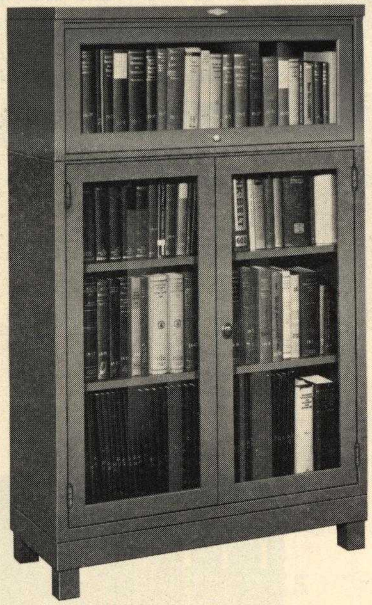
File models range from Director Files (at left) through Insulated Files, Speed-Files, space-saving Multi-Files and Open File Shelving. Outstanding engineering and construction features provide the strength and durability, plus the ease and economy of operation responsible for Art Metal's leadership in office equipment manufacture. Unique suspensions permit drawer extension BEYOND cabinet front making drawer space 100% usable.

ART METAL PLANFILES

Ideal for preserving valuable plans and drawings. They provide a fast, simple means of filing and locating drawings while protecting against fire, water, and dust damage. Available in four sizes for drawings up to 56" wide.

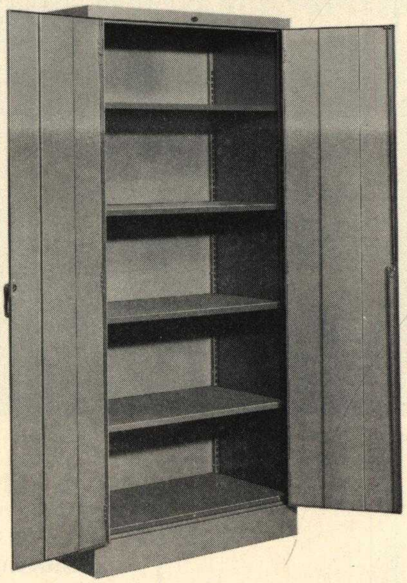


EXECUTIVE BOOKCASES . . . STORAGE AND WARDROBE CABINETS



Art Metal Executive Bookcases provide ample room for books, binders, notebooks, and other records which do not fit into ordinary 10" depth units. Sectional feature permits you to start with one section plus a top and base . . . add extra sections as needed.

For storing and protecting office supplies, Art Metal Storage Cabinets are equipped with four adjustable shelves. If desired, unit can be converted to a Wardrobe Cabinet by substituting a hat shelf and coat hanger rod.



For complete details about Art Metal office equipment, ask for

the complete Art Metal Stock Catalog or an individual catalog for any of the products shown.

BALTIMORE 1, MD.
100 W. Centre Street
BOSTON 10, MASS.
472 Atlantic Avenue
CHICAGO 6, ILL.
208 W. Adams Street
CINCINNATI 6, OHIO
3036 Woodburn Ave.

DETROIT 2, MICH.
2995 E. Grand Blvd.
HARTFORD 3, CONN.
410 Asylum Street
LOS ANGELES 22, CALIF.
2515 South Yates Ave.
NEWARK 2, N. J.
15 William Street
NEW YORK CITY 13, N. Y.
369 Broadway

PHILADELPHIA 8, PA.
401 N. Broad St.
PITTSBURGH 22, PA.
Law and Finance Bldg.
WASHINGTON 5, D. C.
301 Southern Bldg.
WILMINGTON 99, DEL.
1001 West Street

OTHER LOCALITIES CONSULT HOME OFFICE

Art Metal

The nation's leading designer and manufacturer of metal office equipment

ART METAL CONSTRUCTION CO. • 41 EAST 42nd STREET • NEW YORK 17, N.Y.

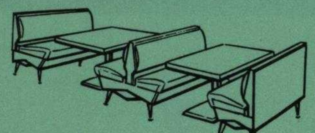
LITHO in USA

BRODY

INSTITUTIONAL

COMMERCIAL

FURNITURE



upholstered
booths

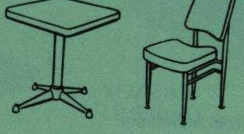
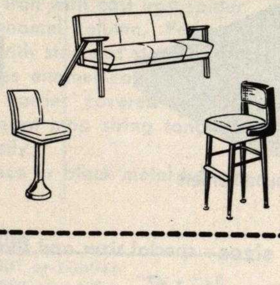
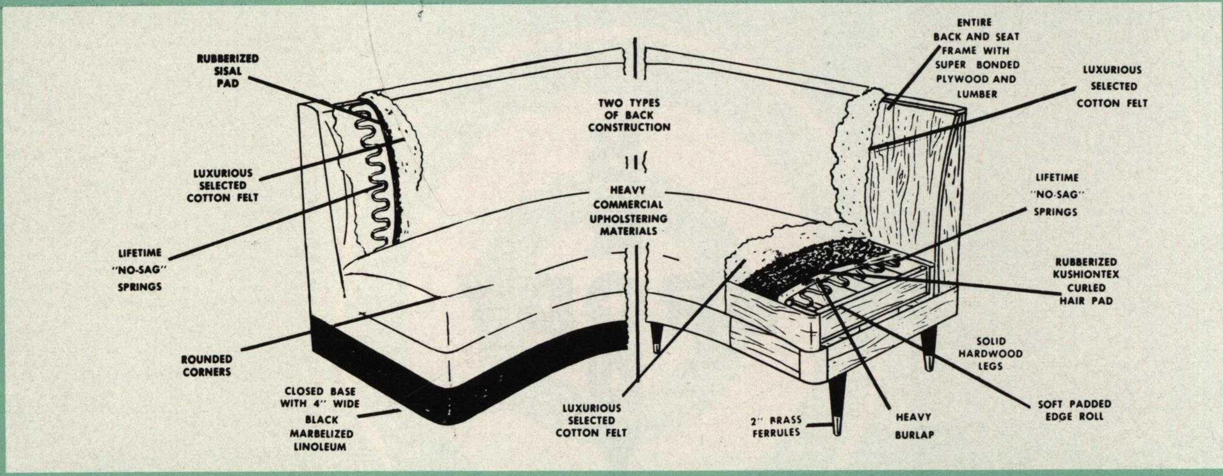


table tops
bases
chairs



lounges-settees
bar and counter stools

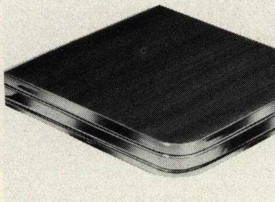
B. BRODY SEATING COMPANY • CHICAGO 39, ILLINOIS


RUBBERIZED SISAL PAD
LUXURIOUS SELECTED COTTON FELT
LIFETIME "NO-SAG" SPRINGS
ROUNDED CORNERS
CLOSED BASE WITH 4" WIDE BLACK MARBELIZED LINOLEUM
TWO TYPES OF BACK CONSTRUCTION
HEAVY COMMERCIAL UPHOLSTERING MATERIALS
LUXURIOUS SELECTED COTTON FELT
2" BRASS FERRULES
HEAVY BURLAP
ENTIRE BACK AND SEAT FRAME WITH SUPER BONDED PLYWOOD AND LUMBER
LUXURIOUS SELECTED COTTON FELT
LIFETIME "NO-SAG" SPRINGS
RUBBERIZED KUSHIONTEX CURLED HAIR PAD
SOLID HARDWOOD LEGS
SOFT PADDED EDGE ROLL

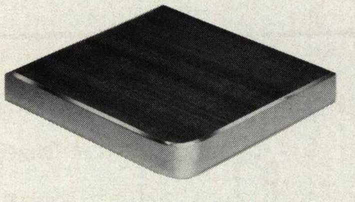
BOOTH CONSTRUCTION

Brody booths are built to stand up under the roughest abuse with a minimum of care. They are specifically designed and constructed for commercial use. Multi-ply upholstering is standard on all booth seats. A wide variety of heavy commercial coverings is kept in stock. Other materials available upon specifications. Booth frames are built to take the hardest of wear.

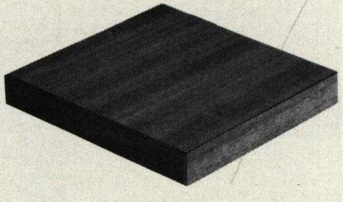
Beautiful styling and expert design • Rugged, custom crafted frames • Lifetime "No-Sag" springs • Smoothly tailored hand upholstery • Removable seat for easy cleaning • Rubberized "Kushiontex" seat upholstery • Heavy commercial weight coverings • Widest selection of colors and patterns • Guaranteed washability • Union made (AF of L)



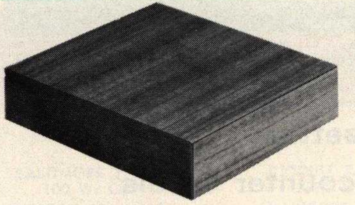
1¼" Ribbed Stainless Steel



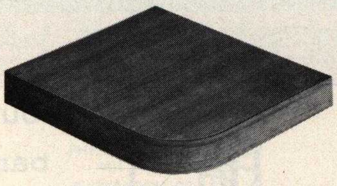
1¼" Smooth Brass Anodized Aluminum



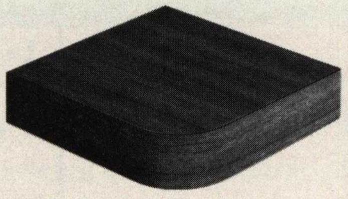
1¼" Self Edge Square Corners



2" Drop Edge Square Corners



1¼" Self Edge Round Corners



2" Drop Edge Round Corners

TABLE TOPS

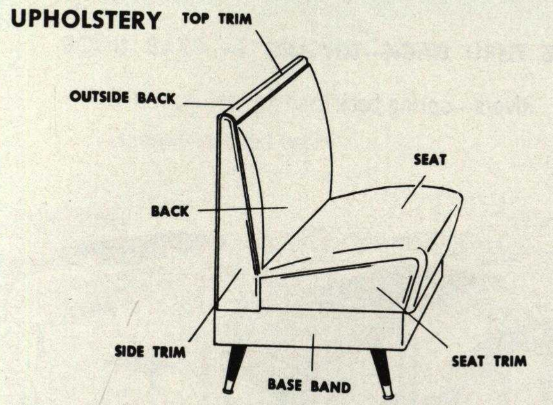
Brody Table Tops are constructed of Genuine Formica, superbonded to a Brody core and Formica backing sheet, giving a table top with a smooth flat surface, warpfree and completely sealed. Table tops are custom made in a variety of sizes, edges and corners in any custom material to fit in with the interior decorations.

standard sizes— special sizes and shapes as desired

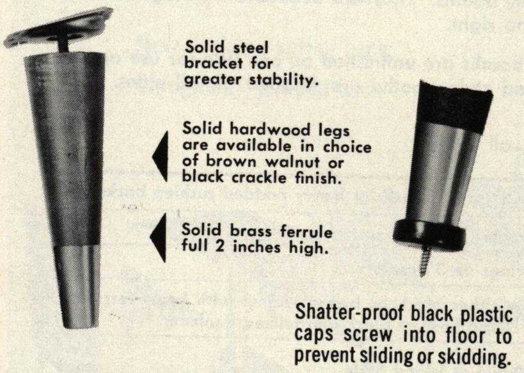
18" x 24"
18" x 30"
18" x 36"
24" Round
24" x 24"
24" x 30"
24" x 36"
24" x 42"
27" x 42"
30" x 32"—½ Circle
30" x 42"—½ Circle
30" x 44"—½ Circle
30" x 46"—½ Circle
30" Round
30" x 30"
30" x 42"
30" x 48"
30" x 60"
30" x 72"
36" Round
36" x 36"
42" Round
42" x 42"
44" x 44"—¾ Circle
46" x 46"—¾ Circle
27" x 36"—Curvette
27" x 38"—Curvette

UPHOLSTERED BOOTHS

UPHOLSTERY


TOP TRIM
OUTSIDE BACK
SEAT
BACK
SIDE TRIM
SEAT TRIM
BASE BAND

LEG CONSTRUCTION


Solid steel bracket for greater stability.
Solid hardwood legs are available in choice of brown walnut or black crackle finish.
Solid brass ferrule full 2 inches high.
Shatter-proof black plastic caps screw into floor to prevent sliding or skidding.

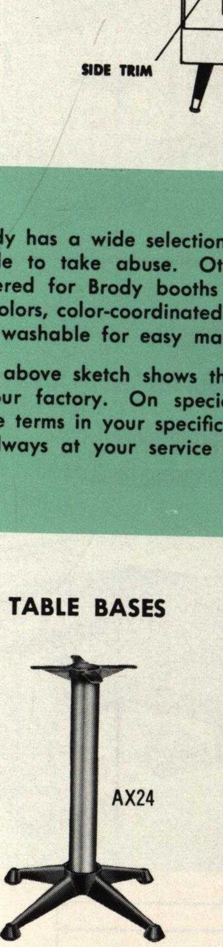
Brody has a wide selection of rugged fabrics that are all made to take abuse. Other upholstery fabrics can be ordered for Brody booths in solid colors or combination of colors, color-coordinated according to your needs. They are washable for easy maintenance.

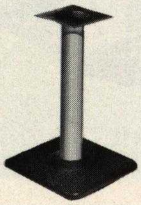
The above sketch shows the exact production terms used in our factory. On special color combinations indicate these terms in your specifications. Our design department is always at your service with suggestions or assistance.

The modern look in public seating is leg booths. Brody leg booths are engineered to assure level seating, longer life, and easy economical floor maintenance. Legs are available in a choice of solid hardwoods and brown walnut or black crackle finish—with a 2″ solid brass ferrule.

Shatter-proof black plastic caps screw into floor to prevent sliding or skidding.

TABLE BASES


AX24


BX18

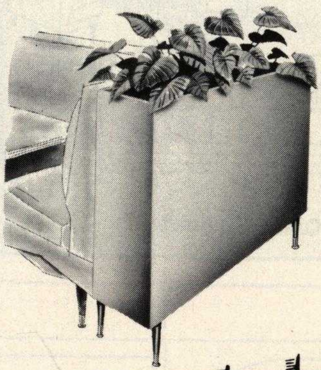
KF23 Black
LF Bronze

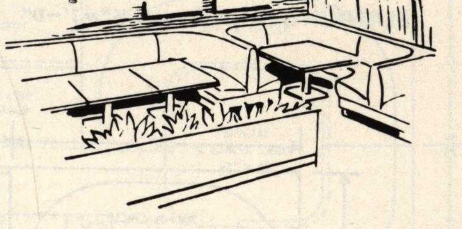
4 Prong Base of black porcelain cast iron with cast iron spider and 3″ dia. satin chrome or brass enamel column. Pedestal Base of black crackle stamped steel with stamped steel spider and 4″ dia. polished chrome or brass enamel column. Both bases have a self-leveler on each corner covered with a black plastic boot cap to protect against mop string tangling and permitting base to be moved easily.

Commercial legs made from 1¼″ bronze or black metal tubing with brass swivel adjustable glides.

size of base	for tables
16″ x 16″ BX16	30″ x 30″ or smaller
18″ x 18″ BX18	36″ x 36″ or smaller
16″ x 22″ BX1622	30″ x 48″ or smaller
22″ x 22″ BX22	48″ x 48″ or smaller
8″ x 20″ (use 2) BX8	for oblong tables longer than 48″
24″ spread AX24	4 prong—up to 36″ x 36″
30″ spread AX30	4 prong—36″ x 36″ or larger

PLANTERS





Upholstered in all the regular fabrics available for booths.
May blend or contrast with the booths.
Constructed of ¾″ plywood and lumber.
Planter opening is 6″ wide 4″ deep to take standard metal liner for growing plants or artificial flower holder.
Custom planters can be made any height, length or width needed, in solid base or leg styles, for any installation.

SERIES 66 BOOTHS

The basic size for end and center booths is 66" for a 24" wide table. This series is also available in ½ circle, ¾ circle, deuce booths, and custom booths. They are available with legs or bases as indicated at the right.

Wall panel style booths are unfinished on one side for use against wall panel. Island style booths are finished on all sides.

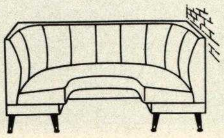
specifications—all models

Backs	"No-Sag" spring backs or heavy padded cushion backs
Seats	Removable "No-Sag" spring seats
Springs	All springs on 3" centers
Bases	Legs in either black or brown walnut with brass ferrules, or 4" closed base of black marbelized linoleum
Ends and Centers	Wall Panel or Island Style

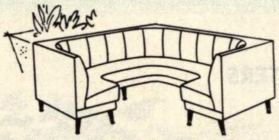
space requirements

All items shown in planning guide are standard. Special sizes are available.

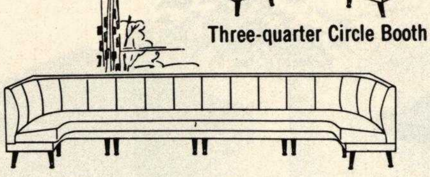
On wall panel booth, size of wall panel decides size of table.



Half-Circle Booth



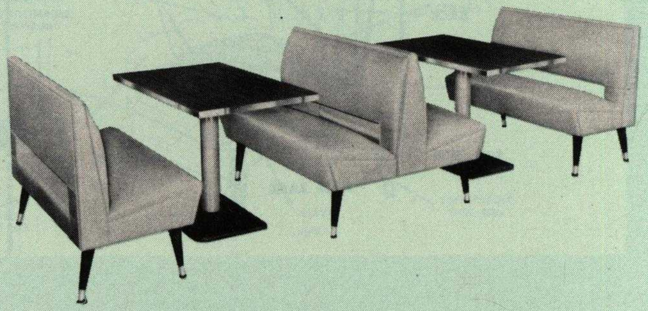
Three-quarter Circle Booth



Custom Wall Bench

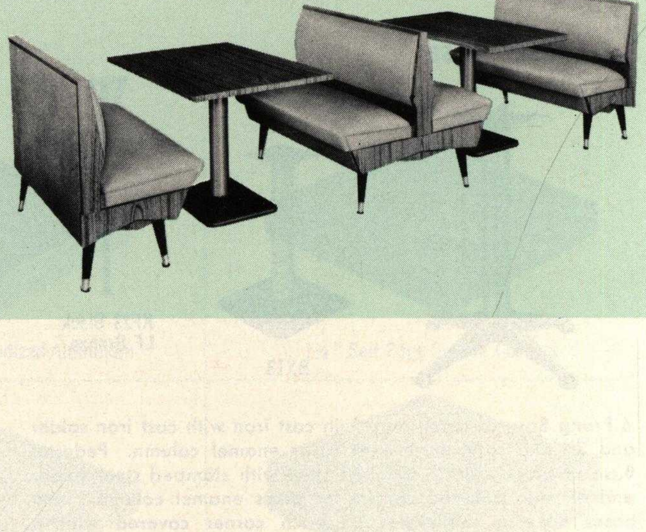
SEE THRU BACK—10" LEG

Rivera—spring back

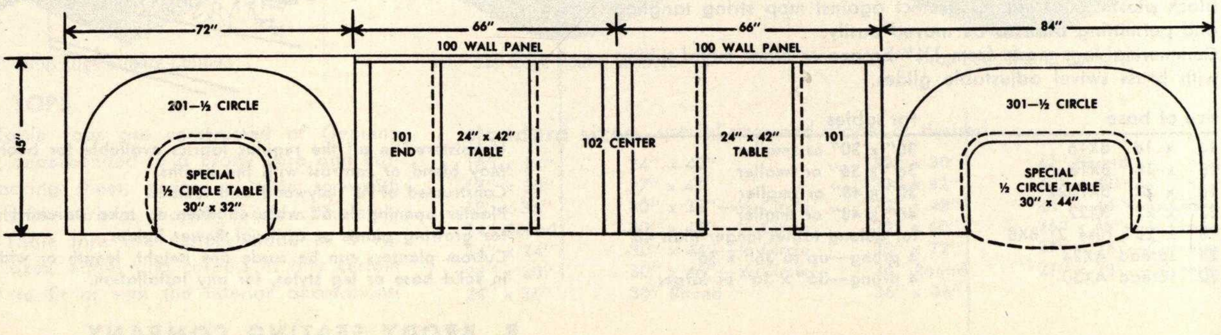


WIPE-AWAY LEDGE—10" LEG

Fiesta—Formica trimmed, spring back
Americana—all upholstered, spring back



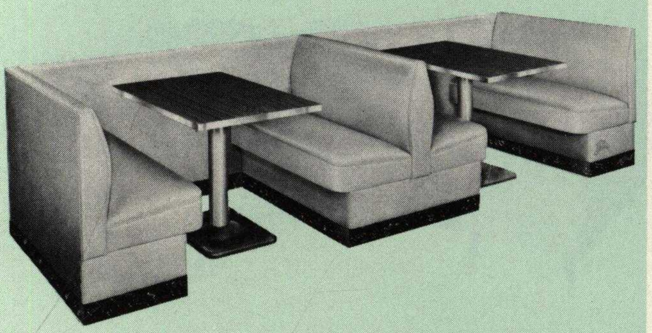
PLANNING GUIDE scale ¼"=1'–0"


72"
66"
100 WALL PANEL
66"
100 WALL PANEL
84"
45"
201—½ CIRCLE
SPECIAL ½ CIRCLE TABLE 30" x 32"
101 END
24" x 42" TABLE
102 CENTER
24" x 42" TABLE
101
301—½ CIRCLE
SPECIAL ½ CIRCLE TABLE 30" x 44"

UPHOLSTERED BOOTHS

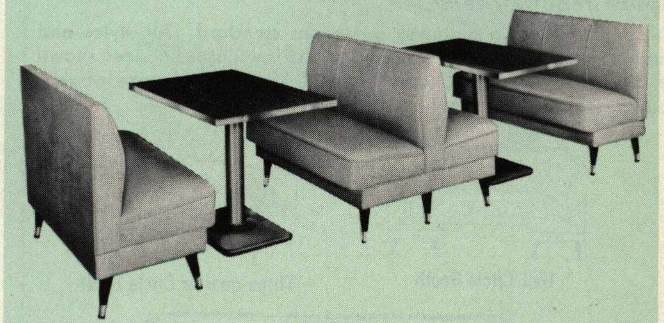
SOLID BACK—4″ CLOSED BASE

Saratoga—spring back
Empire—padded back



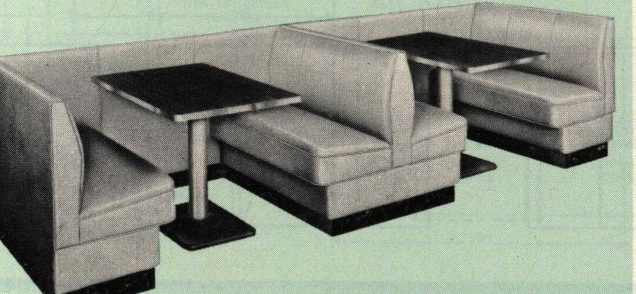
CHANNEL BACK—7″ LEG

New Yorker—spring back
Chicagoan—padded back



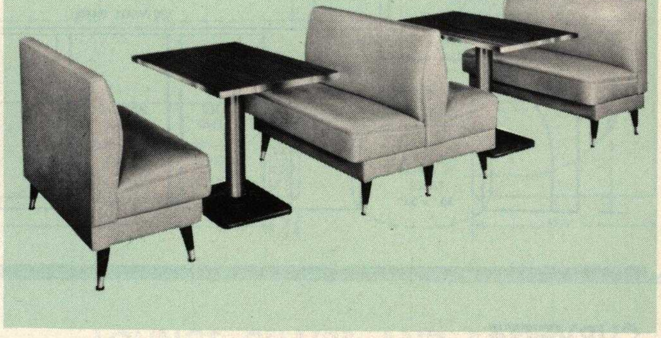
CHANNEL BACK—4″ CLOSED BASE

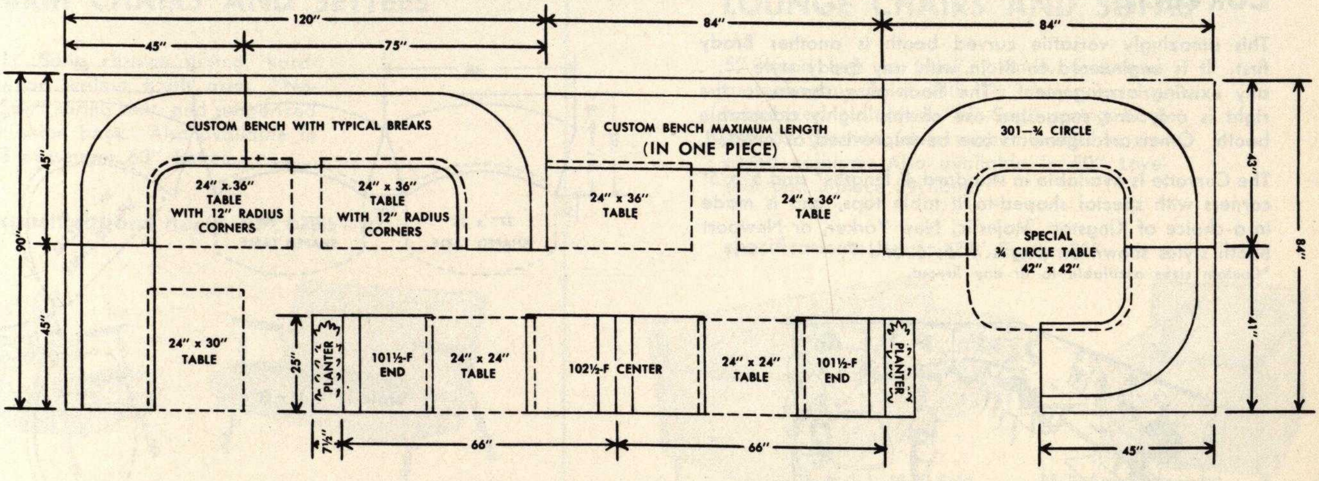
Carleton—padded back
Newport—spring back



SOLID BACK—7″ LEG

Sheraton—spring back
El Dorado—padded back




120″
45″
75″
84″
84″
CUSTOM BENCH WITH TYPICAL BREAKS
CUSTOM BENCH MAXIMUM LENGTH (IN ONE PIECE)
301—¾ CIRCLE
24″ x 36″ TABLE WITH 12″ RADIUS CORNERS
24″ x 36″ TABLE WITH 12″ RADIUS CORNERS
24″ x 36″ TABLE
24″ x 36″ TABLE
SPECIAL ¾ CIRCLE TABLE 42″ x 42″
90″
45″
45″
43″
41″
84″
24″ x 30″ TABLE
25″
PLANTER
101½-F END
24″ x 24″ TABLE
102½-F CENTER
24″ x 24″ TABLE
101½-F END
PLANTER
7½″
66″
66″
45″

SERIES 72 BOOTHS

The basic size for end and center booths is 72″ for 27″ wide table. This series is also available in ½ circle, ¾ circle, deuce booths, and custom booths. They are available with legs or bases as indicated at the right.

Wall panel style booths are unfinished on one side for use against wall panel. Island style booths are finished on all sides.

specifications—all models

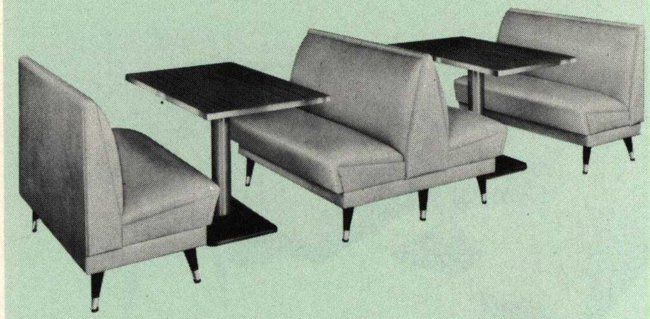
Backs	"No-Sag" spring backs
Seats	Removable "No-Sag" spring seats
Springs	All springs on 3″ centers
Bases	7″ legs in either black or brown walnut with brass ferrules, or 4″ closed base of black marbelized linoleum
Ends and Centers	Wall Panel or Island Style

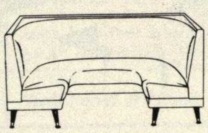
space requirements

All items shown in planning guide are standard. All styles and designs shown on these pages are also available in sizes shown in Series 66 Planning Guide. On wall panel booth, size of wall panel decides size of table.

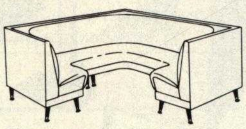
SOLID BACK

Kingston—7″ leg
Majestic—4″ closed base

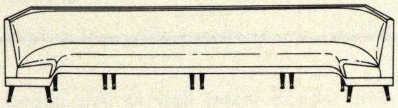




Half-Circle Booth

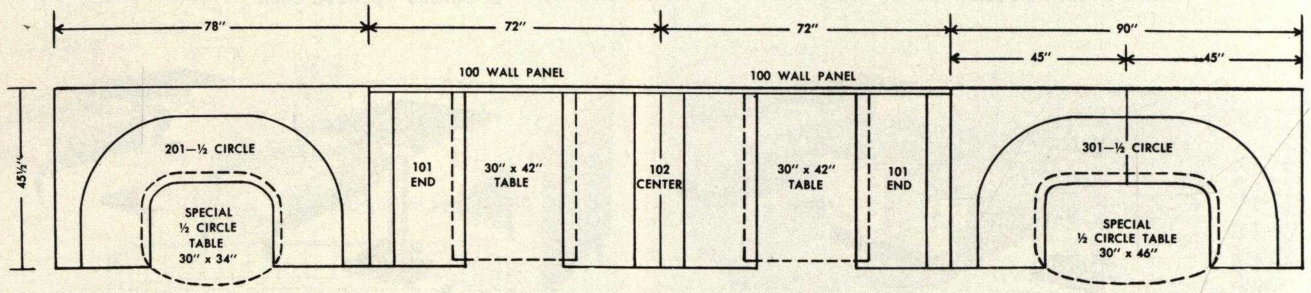


Three-quarter Circle Booth



Custom Wall Bench

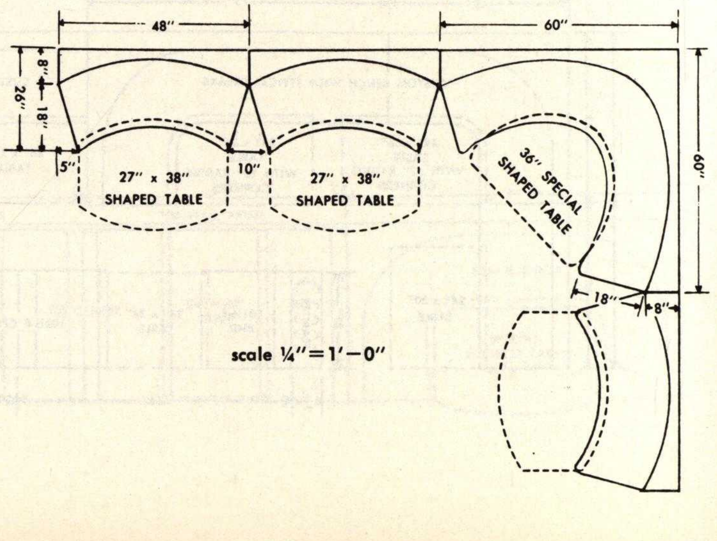
PLANNING GUIDE scale ¼″=1′-0″

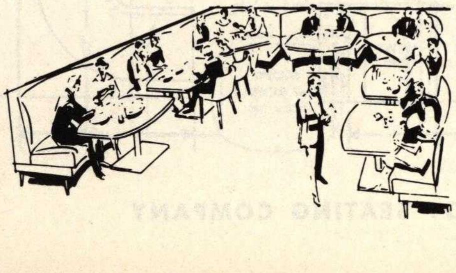

78″
72″
72″
90″
45″
45″
100 WALL PANEL
100 WALL PANEL
45½″
201—½ CIRCLE
SPECIAL ½ CIRCLE TABLE 30″ x 34″
101 END
30″ x 42″ TABLE
102 CENTER
30″ x 42″ TABLE
101 END
301—½ CIRCLE
SPECIAL ½ CIRCLE TABLE 30″ x 46″

CURVETTE

This amazingly versatile curved booth is another Brody first. It is engineered to fit in with any Brody style . . . any existing arrangement. The floor plan shown to the right is only one suggested use of this highly adaptable booth. Other arrangements can be improvised as needed.

The Curvette is available in standard 4′ lengths* and 5′ x 5′ corners with special shaped-to-fit table tops, and is made in a choice of Kingston, Majestic, New Yorker, or Newport Booth styles shown on pages 4, 5, 6 and 7.
**Custom sizes available to fit any layout.*

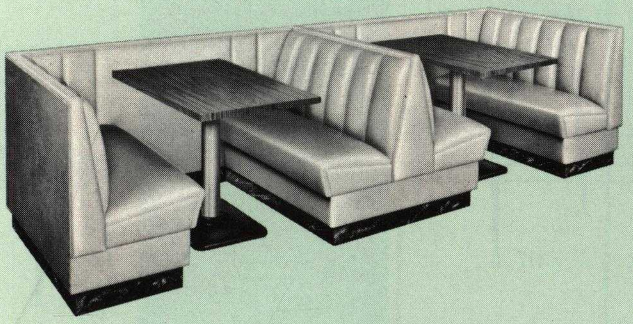

48″
60″
8″
26″
18″
5″
10″
27″ x 38″ SHAPED TABLE
27″ x 38″ SHAPED TABLE
36″ SPECIAL SHAPED TABLE
60″
18″
8″
scale ¼″=1′-0″



UPHOLSTERED BOOTHS

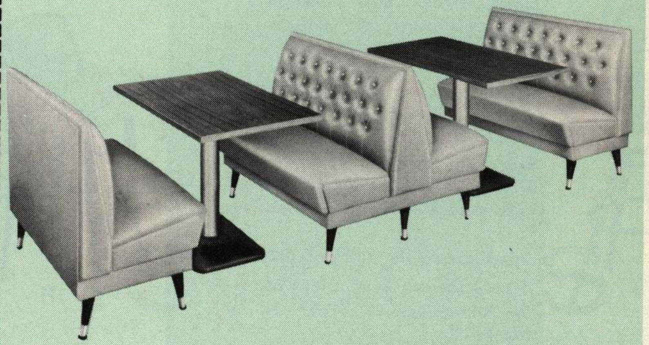
CHANNEL TUFTED

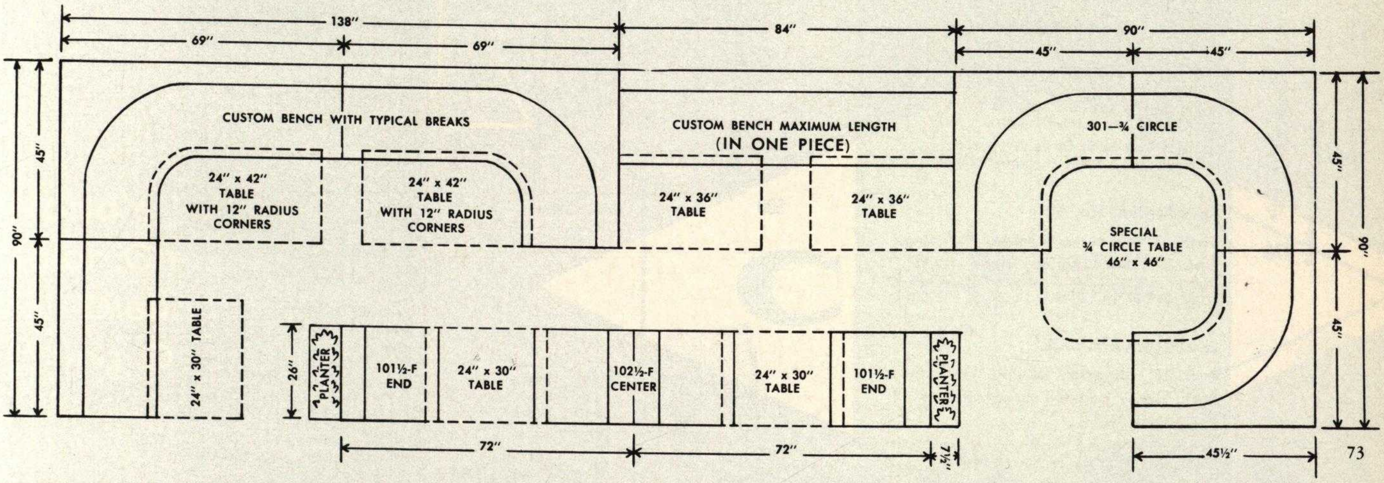
Windsor—4″ closed base
Imperial—7″ leg



DIAMOND TUFTED

Diplomat—7″ leg
Balmoral—4″ closed base




138″
69″
69″
84″
90″
45″
45″
45″
90″
45″
CUSTOM BENCH WITH TYPICAL BREAKS
24″ x 42″ TABLE WITH 12″ RADIUS CORNERS
24″ x 42″ TABLE WITH 12″ RADIUS CORNERS
CUSTOM BENCH MAXIMUM LENGTH (IN ONE PIECE)
24″ x 36″ TABLE
24″ x 36″ TABLE
301—¾ CIRCLE
SPECIAL ¾ CIRCLE TABLE 46″ x 46″
45″
90″
45″
24″ x 30″ TABLE
26″
PLANTER
101½-F END
24″ x 30″ TABLE
102½-F CENTER
24″ x 30″ TABLE
101½-F END
PLANTER
72″
72″
7½″
45½″
73

ARM CHAIRS AND SETTEES

1″ Satin chrome tubing, hardwood walnut finish arms, "No-Sag" spring seat, and rubberized cushion back. Also available in 3 passenger 63″ Settee.

specifications Height—31″, Depth—30″

801 23″ Arm Chair

802 2 Passenger 45″ Settee

LOUNGE CHAIRS AND SOFAS

5″ wood legs in black, blonde, fruitwood, or mahogany finish with 1½″ brass ferrules, rubberized cushioned "No-Sag" spring back and 5″ genuine foam rubber reversible zippered cushion. Also available in 50″ Love-seat and 3-piece Sectional.

specifications: Height—29″, Depth—32″

M-80 Sofa

M-30 Arm Chair

COMMERCIAL CHAIRS
BAR AND COUNTER STOOLS

Brody bar stools and chairs are available in black or bronze finish.

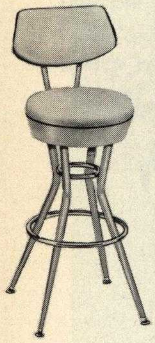
BAR AND COUNTER STOOLS

A complete selection of smartly styled and ruggedly built bar and counter stools originated by leading designers to blend with any decor. Constructed to the highest standards for long lasting comfort and durability.

BAR STOOLS

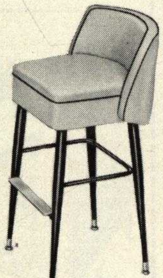
Specification No. 741

Seat: Stationary foam cushioned
Seat Dimensions: 15″ diameter tapered, 5¼″ deep
Seat Height: 30″
Back: Heavy padded, curved, 8½″ x 15″
Back Posts: ¾″ tubing
Rings: ⅝″ tubing
Legs: 1⅛″ tapered tubing
Glides: Chrome, swivel adjustable
Also available without back—No. 740


741

Specification No. 771 and No. 776

Seat: Stationary foam cushioned
Seat Dimensions: 15″ x 15″ x 6″ deep
Height: 30″
Legs: 1½″ tapered tubing
Foot Rest: Brass
Glides: Brass, swivel adjustable
Also available without back—No. 770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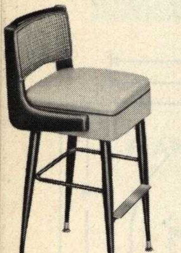
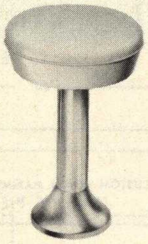

776

COUNTER STOOLS

Available in various heights to accommodate counter height.
9″ cast iron base in heavy satin chrome, 3½″ satin chrome column.

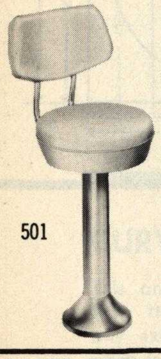
Specification No. 500

Seat: 15″ diameter, tapered, 5¼″ deep
Timken Roller Bearing tripod swivel revolves smoothly and noiselessly, 3″ spread from center to holes.


500

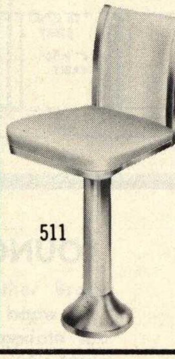
Specification No. 501

Seat: 15″ diameter, tapered, 5¼″ deep
Back: Heavy padded, curved, 8½″ x 15″
Back Posts: ¾″
Returnable tripod with spring mechanism, 5¼″ spread from center to holes.


501

Specification No. 511

Cast aluminum back and seat frame
Seat: Deep rubberized cushion 14″ x 16″
Back: Padded, curved, 13″ x 13½″
Returnable tripod with spring mechanism, 5¼″ spread from center to holes.


511

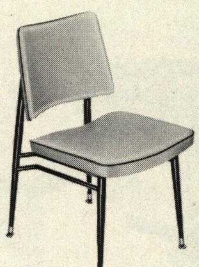
COMMERCIAL CHAIRS

Brody chairs are quality engineered for commercial use, combining smart styling and comfortable seating with rugged construction. All chairs feature Locked-On Backs* over concealed posts eliminating screws and nails. Washable heavy duty upholstery material can be selected from a wide range of colors, patterns and styles, or upholstery of your own choice can be used.

**Except No. 477 and No. 479.*

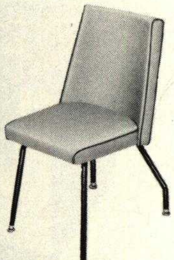
Specification No. 477

Rubberized cushion seat
Back ....16½″ x 12½″
Seat ....17½″ x 16½″
Height ....30½″
Frame..1⅛″ tapered tubing
Glides ....Brass swivel adjustable


477

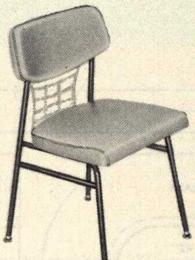
Specification No. 490

Rubberized cushion seat
Back ....15½″ x 16″
Seat ....17″ x 16″
Height ....32″
Frame ....⅞″ tubing
Glides ....Brass swivel adjustable


490

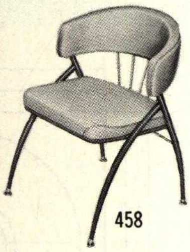
Specification No. 465

Rubberized cushion seat
Back ....16½″ x 8½″
Seat ....17″ x 16″
Height ....30″
Frame ....¾″ tubing
Glides..............Brass swivel adjustable


465

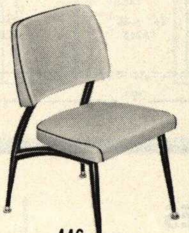
Specification No. 458

Rubberized cushion seat
Back ....20½″ x 8″
Seat ....18½″ x 18½″
Height ....30″
Frame......1″ tapered tubing
Glides ....Brass swivel adjustable


458

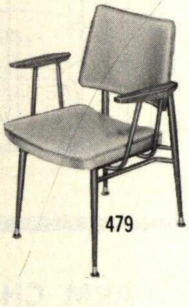
Specification No. 446

Rubberized cushion seat
Back ....17″ x 12″
Seat ....17″ x 16″
Height ....30″
Frame..1¼″ tapered tubing
Glides ....Brass swivel adjustable


446

Specification No. 479

Walnut finish hardwood arms
Rubberized cushion seat
Back ....16½″ x 12½″
Seat ....17½″ x 16½″
Height ....30½″
Frame..1⅛″ tapered tubing
Glides ....Brass swivel adjustable


479

SALES REPRESENTATIVES

For further information contact the Brody sales office in your area.

William Anderson Company
8050 30th Avenue, N. E.
Seattle 15, Washington
LAkeview 4-2648

Jack Dubov & Associates
401 Broadway
New York 13, New York
CAnal 6-7666

Harold Fink & Associates
611 Olive Street
St. Louis 1, Missouri
CHestnut 1-4350

Robert Green
842 Boulevard
Shreveport, Louisiana
SHreveport 2-2035

Warren Johnson
708 Sextant Avenue, W.
St. Paul 17, Minnesota
IVanhoe 4-5531

Mel King
Business News Service
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850 Euclid, Cleveland, Ohio
SUperior 1-6700

Mel Liss
Creative Sales Associates
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Skokie, Illinois
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Dallas 29, Texas
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Thomas Sharpe
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Jacksonville 5, Florida
EVergreen 9-3044

Step Sales Agency
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Denver, Colorado
MAin 3-5746

Nathan Silverman
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Chicago 45, Illinois
ROgers Park 4-2075

Louis E. Diamond, *Sales Manager*
5921 West Dickens
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TUxedo 9-6000

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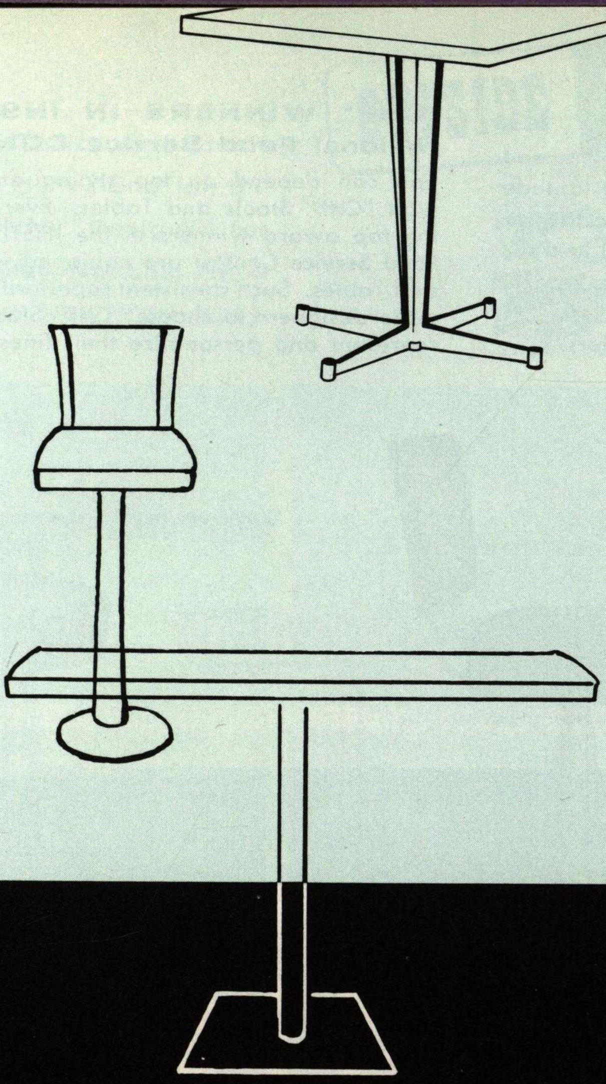
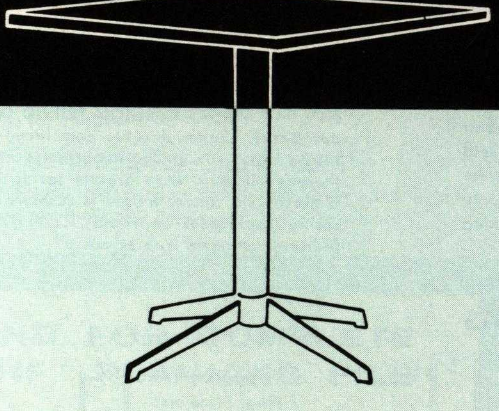
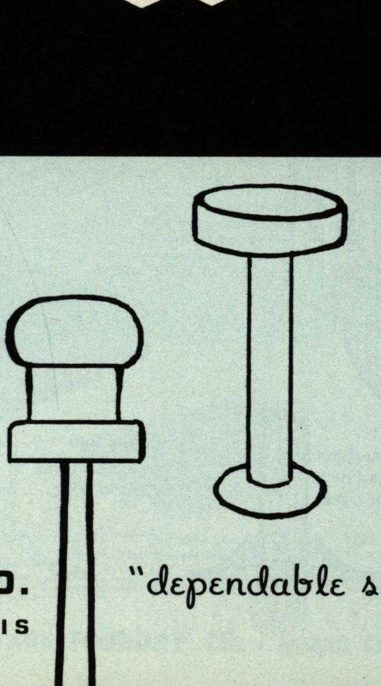


TABLES
and
STOOLS

World's Widest
Color Choice
For Distinctive
Dining Décors

CHF





THE CHICAGO HARDWARE FOUNDRY CO.
NORTH CHICAGO, ILLINOIS

"dependable since 1897"

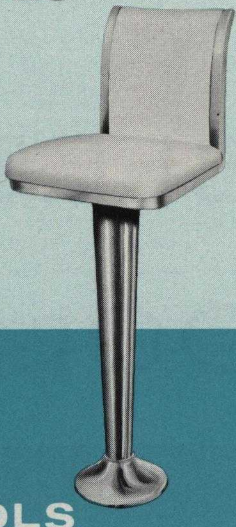
NEW COLORS AND FINISHES

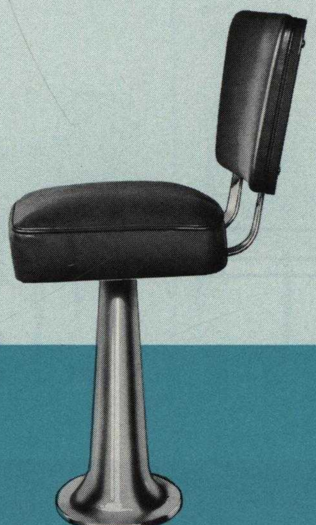
"CHF" Color-Choice gives the widest selection of colors and finishes ever offered . . . gives designers the greatest latitude in color styling. Nowhere else can you find such a spectacular array to choose from: lifetime porcelain enamel in 20 lustrous colors . . . metal finishes in Amber Forever Solid Bronze, Anodized Aluminum, Chrome Plate . . . Natural Woods . . . plus all of today's modern fabrics and decorator colors.

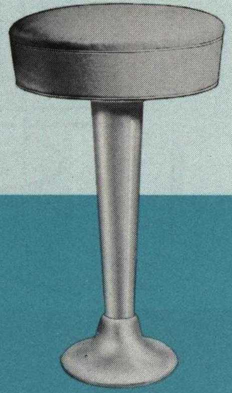
"CHF" WINNERS IN INSTITUTIONS National Food Service CONTEST

You can depend on top styling and sound design with "CHF" Stools and Tables. Every year, many of the top award winners in the INSTITUTIONS Annual Food Service Contest are equipped with "CHF" Stools and Tables. Such consistent superiority leads more and more designers to choose "CHF" Stools and Tables to represent and personalize their finest ideas.

STOOLS







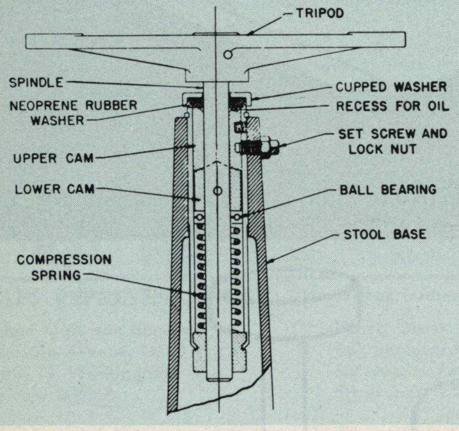
STOOLS

NO. 414-848-875-W: The striking beauty of new "Flare" design now in a handsome stool with classic simplicity of line. Cast in the warm beauty of solid bronze for the utmost in taste and refinement. Back rest and seat frame also in solid bronze. Seat and back upholstered in choice of fabric and color. Seat size 16" x 14" x 3" thick. Back is 15" high. Available in cast iron, choice of lifetime porcelain colors; solid bronze; chrome or anodized aluminum.

NO. 876-848-874: Designed for luxurious comfort with deeply padded back and seat. Back supports are concealed and are available in chrome or bronze to match base. For extra refinement this seat can be upholstered in genuine leather, or it may be had in a wide choice of fabrics and colors. Size of seat: 14"x14"x3½" thick. Back is 14" high.

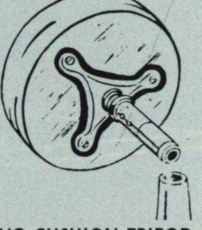
NO. 414-849-870: New "Flare" column stool in the modern beauty and utility of cast anodized aluminum. This tastefully designed stool will fit perfectly into any interior styling, modern or traditional. Spacious round seat is deeply upholstered in a large selection of modern fabrics and colors. Seat is 15" in diameter x 3" thick.

"CHF" STOOLS AND TABLES ARE AVAILABLE IN SOLID BRONZE, ANODIZED



NO. 848
SPRING CUSHION, BALL BEARING SEAT RETURN TRIPOD

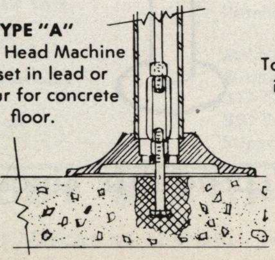
A patented construction with automatic stop for counter stools with backs. This sturdy, extra-durable attachment provides both spring cushion comfort and work-saving automatic seat return. Concealed spring in stool neck gives customors the cushioning of an innerspring unit — eliminates need for springs in seat itself. When person leaves seat, it returns to position with back parallel to counter . . . keeps counters looking neat and uniform at all times.



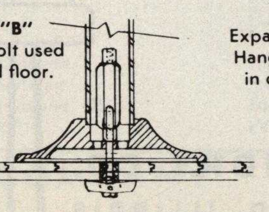
NO. 849 SPRING CUSHION TRIPOD for Seats without Backs. Same durable construction as the seat return tripod, except no neoprene washer is needed, thereby allowing even greater spring action. When a person sits down, weight is cushioned by a strong spring inside neck of tripod . . . an added comfort feature customers appreciate.

FLOOR ATTACHMENTS

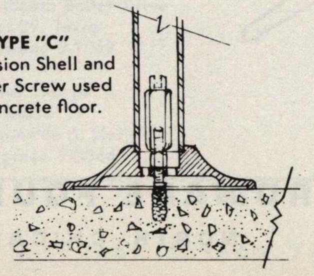
TYPE "A"
Square Head Machine Bolt set in lead or sulphur for concrete floor.



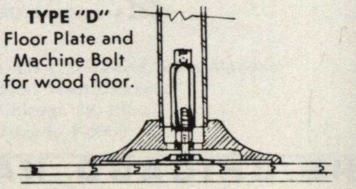
TYPE "B"
Toggle Bolt used in wood floor.



TYPE "C"
Expansion Shell and Hanger Screw used in concrete floor.

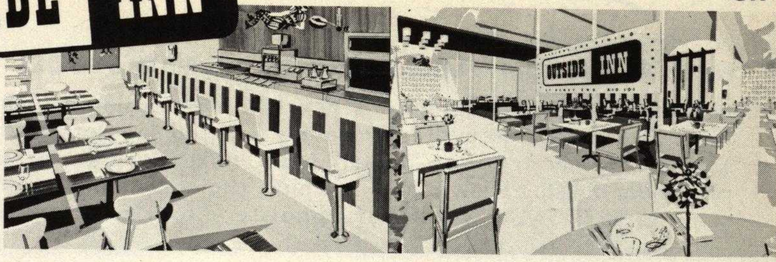


TYPE "D"
Floor Plate and Machine Bolt for wood floor.



OUTSIDE INN

New "CHF" Tables and Stools Selected by Henry End for the OUTSIDE INN "Designed for Dining" Display, National Hotel Exposition at New York City.



TABLES

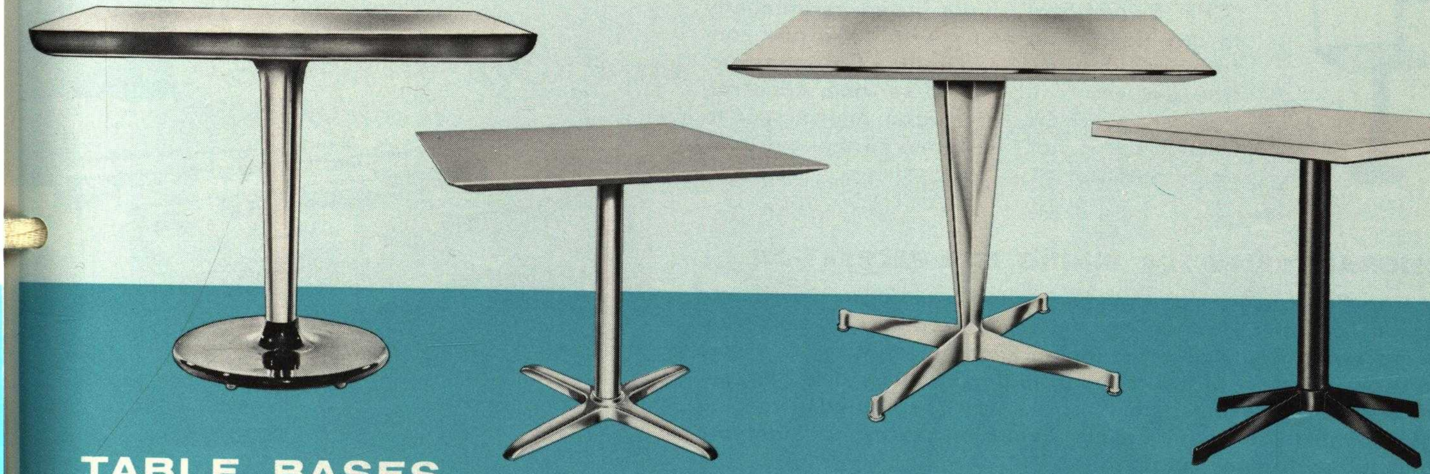


TABLE BASES

NO. 909-254A FLARE TABLE: Beautiful new table base reflecting latest in design trends — the flare column. Column shown combines beauty of cast Amber Forever Solid Bronze with cast iron base finished in a choice of lustrous porcelain enamel colors or base may be had in cast solid bronze, like column. Base is 19½" in diameter for tops up to 36" round or square. Other sizes also available for tops up to 96".

NO. 912A-254A TABLE: Four-prong style base is available in the 20 attractive colorful porcelain enamel finishes. Prongs are tapered 2¾" to 1¾" with a spread of 31". Column is 3" tubular steel in chrome or bronze plate. May also be adapted to take the No. 909 Flare column. For tops up to 36".

NEW "CHF" ASTERISK TABLE NO. 946-A (30" Base Spread) Gracefully styled, original thin-line 4-fin cast bronze and popular 4-prong base. Vertical edges of column are flared and polished to highlight design. Levelizer glides on base feet. 30" base spread for 36" x 36" tops. Available in full choice of "CHF" cast bronze, anodized aluminum, cast iron, black paint finish.

NEW THIN-LINE TABLE BASE NO. 945-A-254A (30" spread) Subtle, modern thin-line styling solid cast iron base with 3" tubular steel column, both available in 20 decorator lifetime porcelain enamel finishes . . . column in bronze plate or chrome. Raised 4-prong base, easy to clean under, provides ample foot room. Base has 30" spread for tops up to 36".

ALUMINUM. CAST IRON, PORCELAIN ENAMEL COLORS, CHROME AND NATURAL WOOD

"CHF" QUALITY TABLE TOPS

Nationally famous 9-ply super-bonded tops featuring genuine Formica. The exclusive new designs and new colors offer unlimited possibilities . . . the perfect finishing touch for "CHF" tables.

The nine layers of equal thickness hardwood are topped and super-bonded with high-pressure laminates to offer a tough, impervious table top.

Tops are available with metal edges in stainless steel, bronze, or aluminum. They are also available with super-bonded edges in plastic self-edge as shown.

NEW BUDGET TABLE TOPS

Feature Formica tops and backing sheets with screw holding power equal to, or better than best laminated plywood grades.

SEND FOR COMPLETE "CHF" PLANNING FILE

See all the new "CHF" Designers Choice and budget stools, tables, chairs, table tops, sectional tables, and school equipment with dimensions and specifications. Includes new "CHF" COLOR CHOICE Color Chart for all types of installations. Write today!

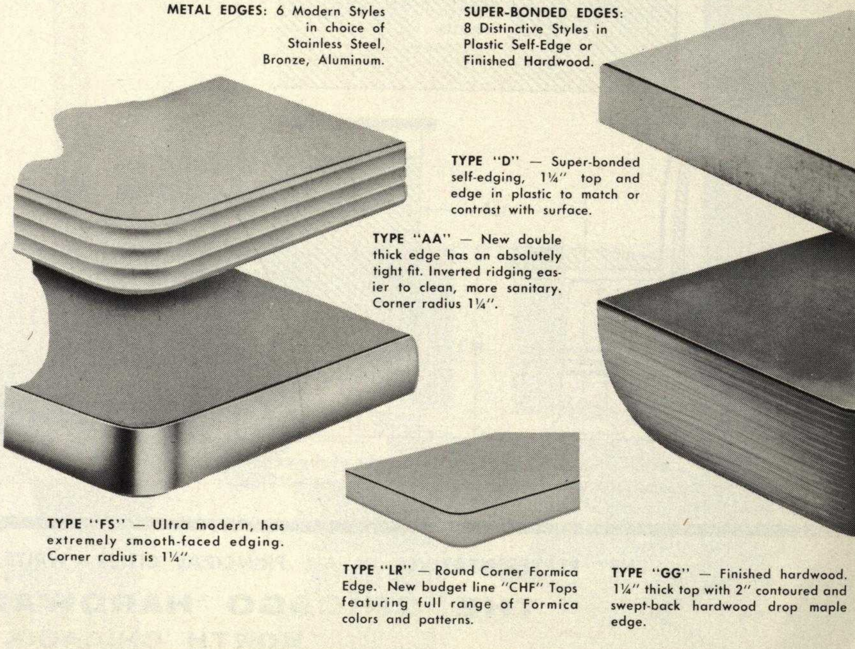
CHICAGO HARDWARE FOUNDRY CO.
NORTH CHICAGO, ILLINOIS

TABLES & STOOLS
Chicago Hardware Foundry Co.
food and drink equipment—planning data
TABLES
STOOLS
SECTIONAL TABLES
THE CHICAGO HARDWARE FOUNDRY CO.
NORTH CHICAGO, ILLINOIS

SUPER-BONDED TOPS FEATURING FORMICA

METAL EDGES: 6 Modern Styles in choice of Stainless Steel, Bronze, Aluminum.

SUPER-BONDED EDGES: 8 Distinctive Styles in Plastic Self-Edge or Finished Hardwood.



TYPE "D" — Super-bonded self-edging, 1¼" top and edge in plastic to match or contrast with surface.

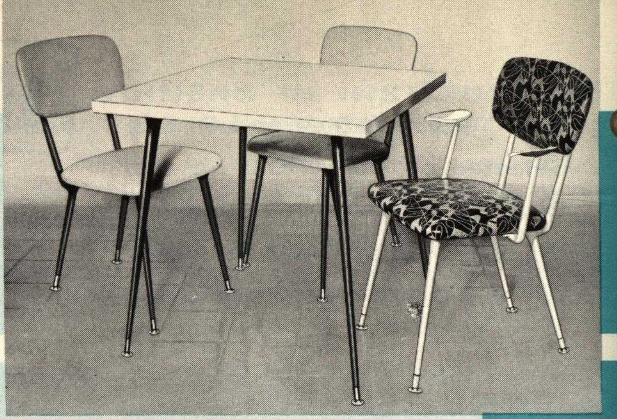
TYPE "AA" — New double thick edge has an absolutely tight fit. Inverted ridging easier to clean, more sanitary. Corner radius 1¼".

TYPE "FS" — Ultra modern, has extremely smooth-faced edging. Corner radius is 1¼".

TYPE "LR" — Round Corner Formica Edge. New budget line "CHF" Tops featuring full range of Formica colors and patterns.

TYPE "GG" — Finished hardwood. 1¼" thick top with 2" contoured and swept-back hardwood drop maple edge.

CHICAGO HARDWARE FOUNDRY CO. • NORTH CHICAGO, ILLINOIS

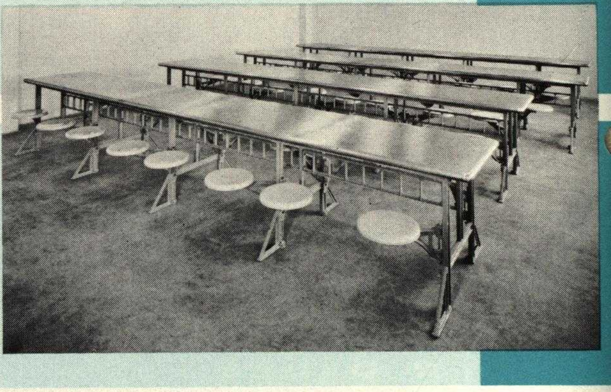


NEW ALUMINUM TABLES, CHAIRS . . . BAR STOOLS

Simplicity of design marks this new "CHF" matching aluminum table and chair ensemble. Gracefully tapered legs are durable cast aluminum in choice of soft black baked enamel or satin aluminum finish. Shown are matching chairs available with or without arms, your choice of upholstery fabrics and colors.

NEW SWIVEL SEAT CHAIRS FOR SCHOOLS AND INSTITUTIONS

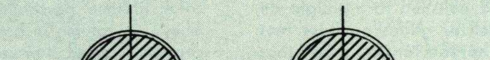
"CHF" Swivel Seat Chairs fasten permanently to any floor — do away with noise and confusion of loose chairs. Lifetime Cast construction assures trouble-free service, carefree maintenance. Grooved tripod allows seat to revolve but it can't be removed without loosening setscrew.



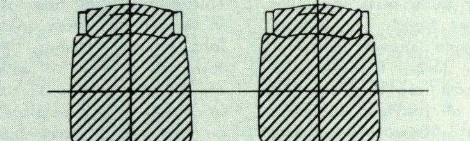
SECTIONAL TABLES FOR DINING AND RECREATION

Cast Iron Construction for lifetime service with channel legs and bridge truss center stringers for top strength, minimum bulk. Reinforced swing seats give maximum seating capacity . . . save aisle space. Variety of top colors including stainless steel. Framework in wide choice of enamel finishes. May be specified in varying lengths to meet your requirements. Extension braces that eliminate bolting tables to floor also available.

PROPER SPACING and INSTALLATION of COUNTER STOOLS



Whenever possible state the height of the counter and we will furnish the proper height of stool.



When #848 Seat Return is used, stools must be installed with a set screw away from counter.

"CHF" REPRESENTATIVES IN ALL PRINCIPAL CITIES — WRITE FOR NAME OF YOUR LOCAL DISTRIBUTOR.

THE CHICAGO HARDWARE FOUNDRY CO.
NORTH CHICAGO, ILLINOIS

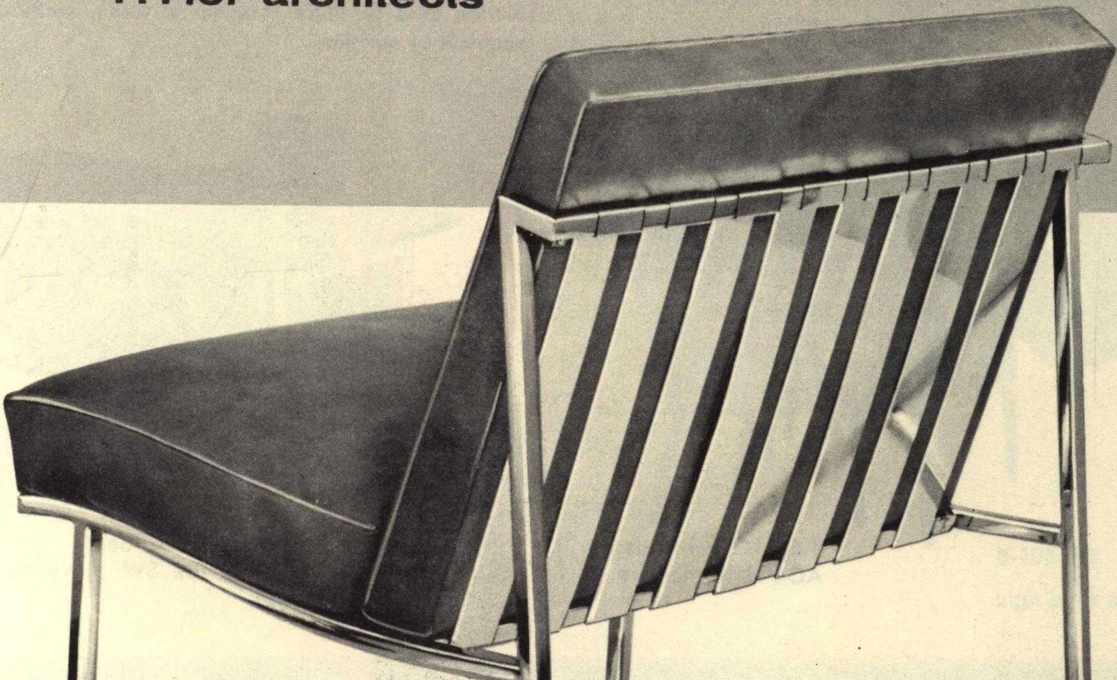
FORM NO. 1179
LITHO IN U.S.A.
25M—10-59

Edgewood

furniture designed by an architect

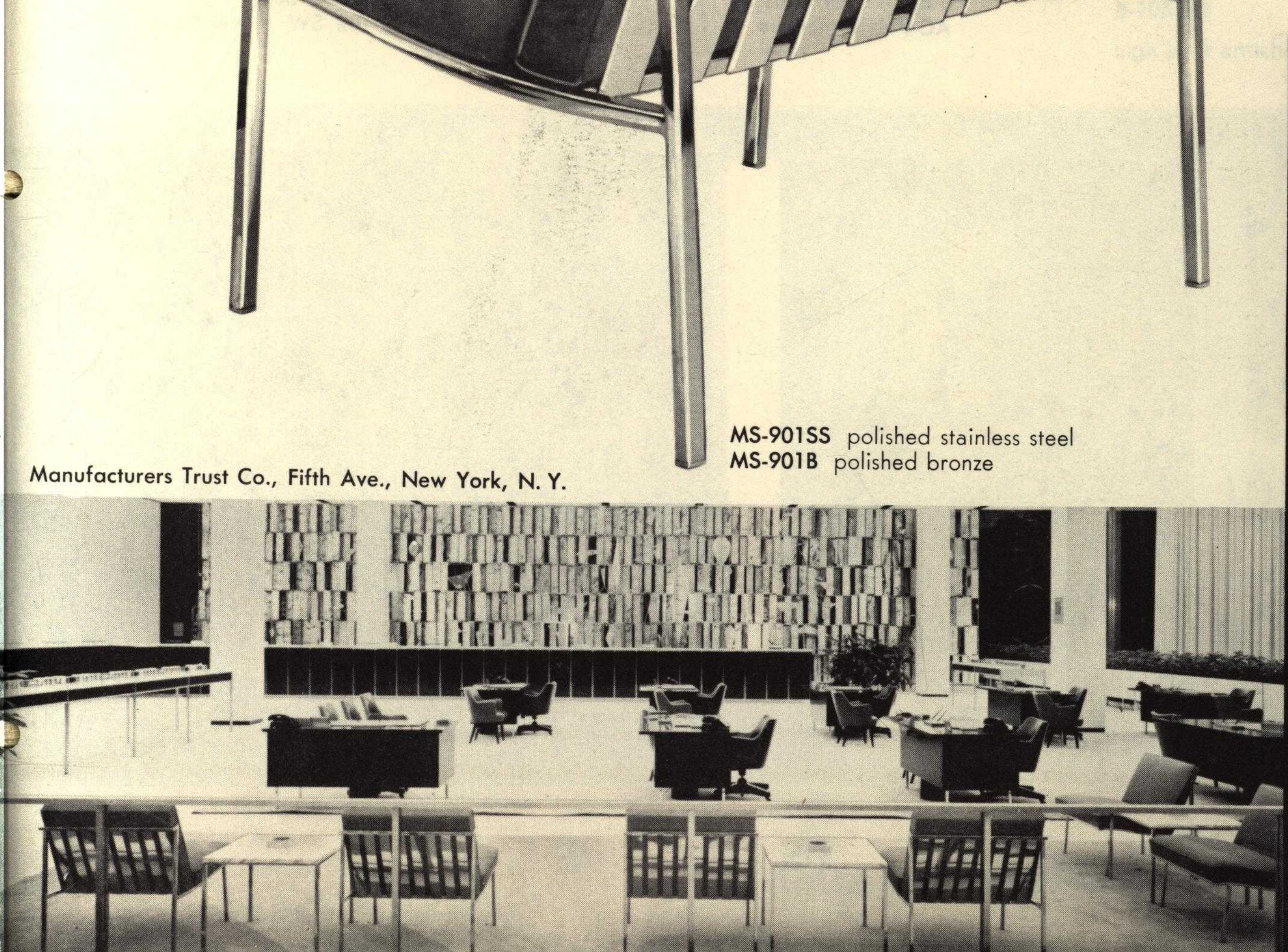
. . . for architects

designed by William Armbruster



MS-901SS polished stainless steel
MS-901B polished bronze

Manufacturers Trust Co., Fifth Ave., New York, N. Y.



Edgewood Furniture Company, Inc.

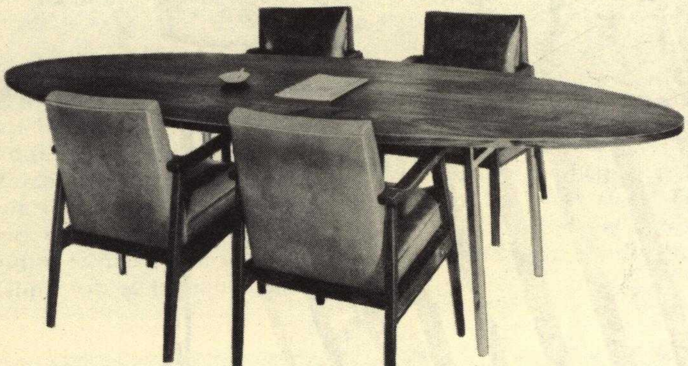
→ • designs by William Armbruster architect

executive furniture

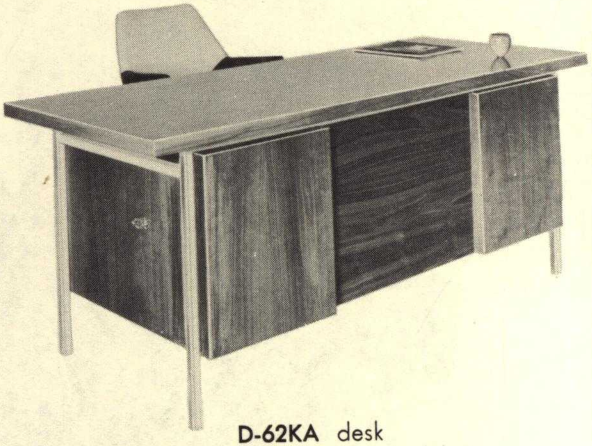
The Edgewood collection of executive furniture offers a broad, comprehensive selection to the architectural and design professions. Edgewood designs are conceived in architectural terms — rather than in fashion trends. In fact, Edgewood believes that furniture is a basic element in interior design — and that interior design is often a potent factor in governing the design of the structure itself. Therefore, Edgewood carefully studies every selection of shape, structure and material from an architectural viewpoint.

Illustrated here are a few representative pieces of the Edgewood executive furniture group. This group consists of a full line of tables, desks, conference room and desk (swivel) chairs.

In designing its' executive furniture, Edgewood does follow the Great Tradition of simplicity, suitability, and integration of all elements. It keeps in mind two important prerequisites: service measured in decades; the solution of a furniture problem in terms, methods and materials of our time.



T-62 TO table desk
AC-012 armchairs

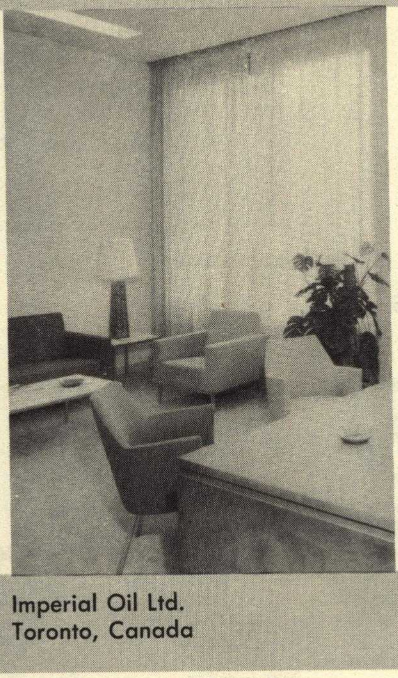


D-62KA desk
B-102 SW swivelchair

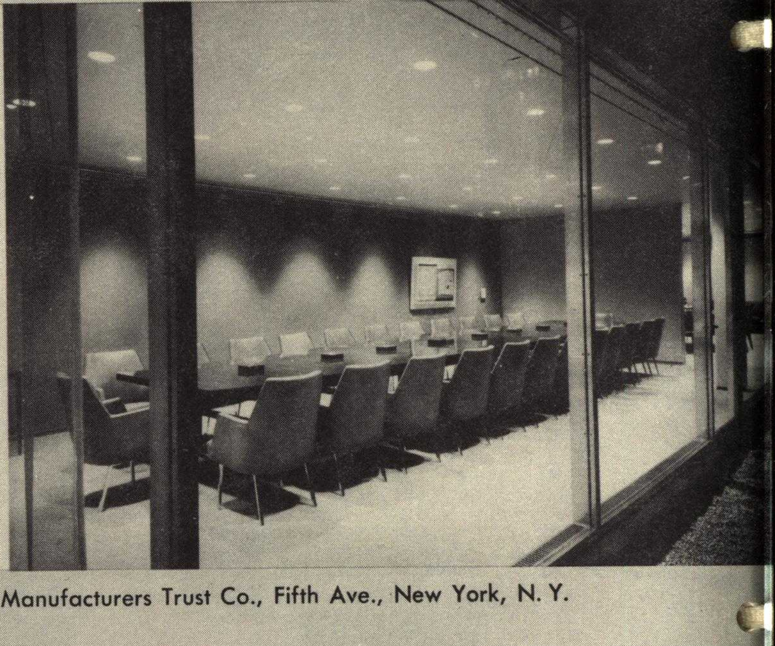
→ **furniture**

→ **by**

→ **Edgewood**



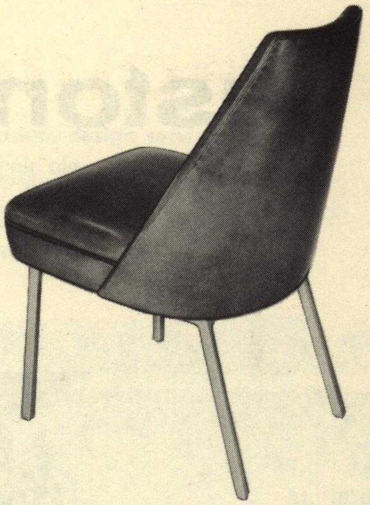
Imperial Oil Ltd.
Toronto, Canada



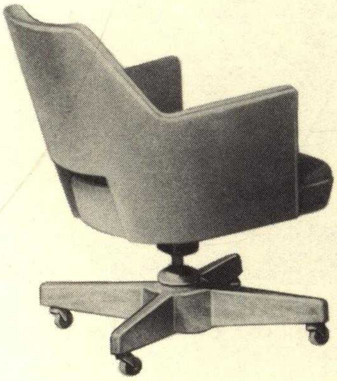
Manufacturers Trust Co., Fifth Ave., New York, N. Y.

BARREL CHAIRS

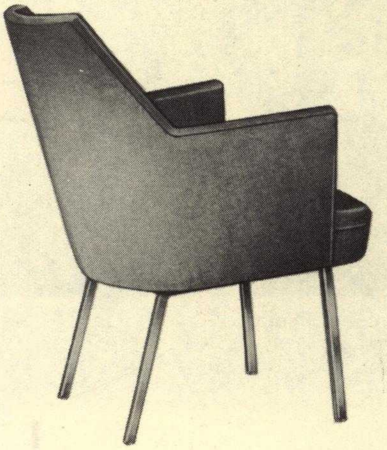
Edgewood barrel chairs, unlike any others, employ a single molded plywood core out of which the sides and back are cut. This assures a seating piece of unfailing structural rigidity. Metal bases are available in steel (five colors), stainless steel, satin-finish chrome, or satin-finish bronze. Swivel bases are of walnut, finished to match finishes for tables and desks. Two tone upholstery optional. When ordering swivel chairs, please advise whether floor is hard surface or carpet.



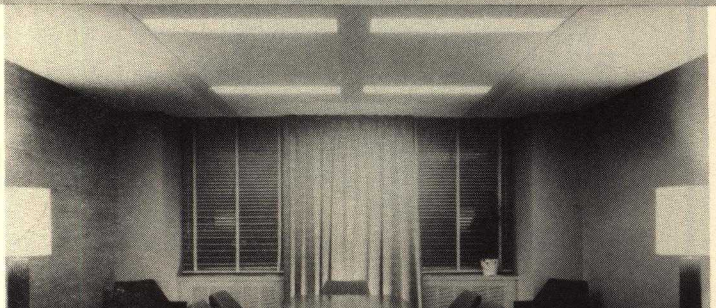
B-110 S
sidechair



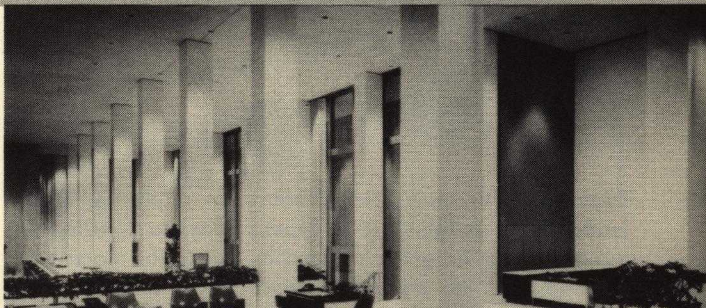
B-102 SW
swivelchair



B-105 HB
high back armchair



Galbreath Corp., New York, N. Y.



Manufacturers Trust Co., Wall St., New York, N. Y.

→• designs by William Armbruster architect

custom designing

Architectural and design offices often find it difficult or impossible to meet certain furniture requirements using available stock items of any manufacturer. In recognition of this problem, Edgewood has, for several years past, put the services of its special design team at the

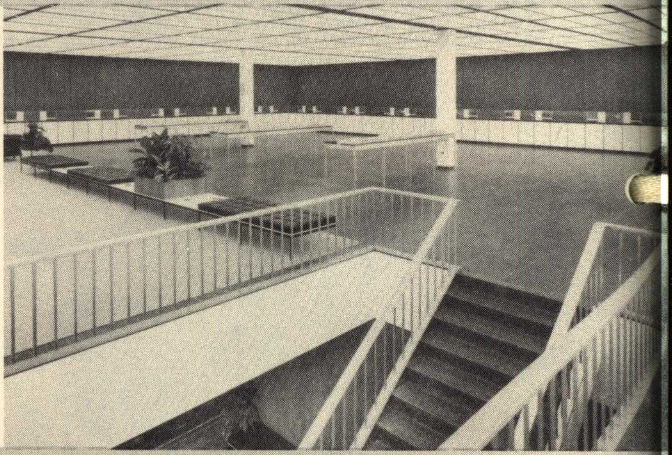
→ furniture

→ designed by

→ an architect

→ for architects

Inland Steel Co.
Chicago, Illinois



Dollar Savings Bank, New York, N. Y.
special seating unit and check writing desks

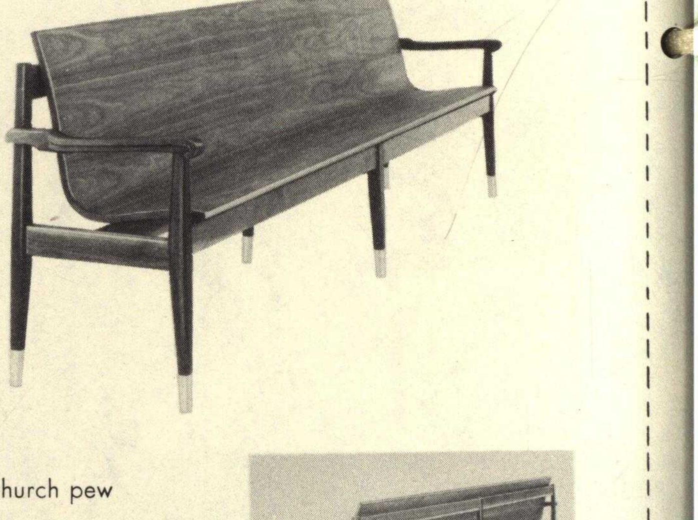
public seating

Edgewood, for many years, has been a pioneer and leader in the designing of all types of flexible, functional public seating. Its' group of benches, due to the materials selected and the controlled construction, are built to assure life-time service even under the most severe use.

The types shown are William Armbruster originals, developed by Edgewood. Their design permits great flexibility of use and grouping into many arrangements. Any bench may be modified to meet unusual conditions.

Back to back and end to end spacers, and kneeling pads with supports are available for church pew use.

CHURCH PEWS

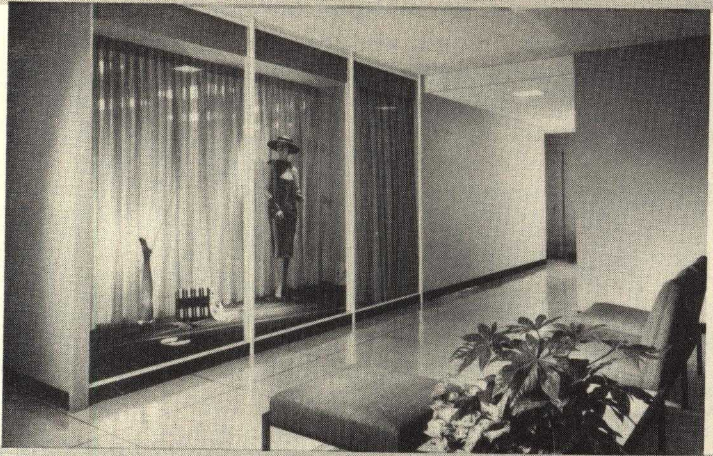


P-20 church pew

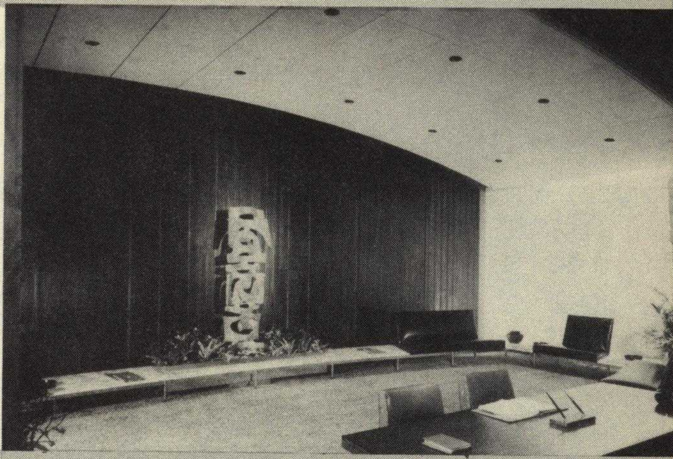
All walnut, scroll arm, metal shoes, molded plywood seat.
Prayer book shelves and retractable kneelers optional.
recommended for: churches, chapels, court room seating, waiting areas and terminals.

disposal of the profession. The services of the Edgewood special design team encompasse assistance in planning, color consultation and development of new furniture types. Many organizations have availed themselves of this offer. In each instance, they have received these four attributes of Edgewood custom design service.

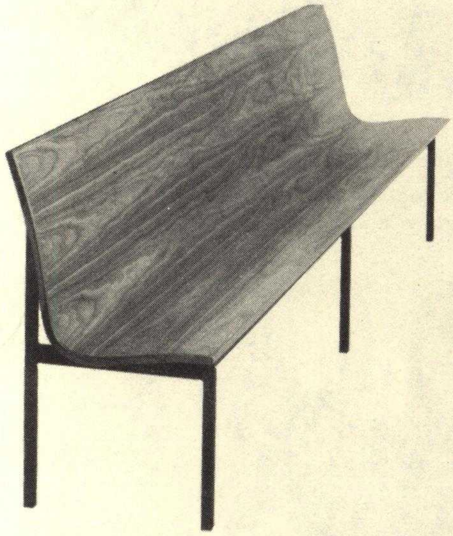
- full co-operation with their aims
- superlative design
- finest materials and workmanship
- strict adherence to delivery schedules



Burlington Hosiery
New York, N. Y.

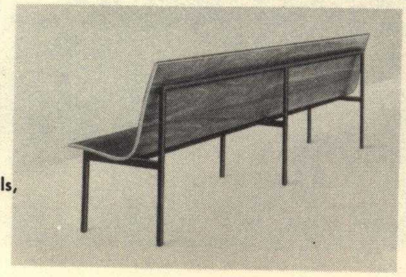


CIT (Commercial Investment Trust), New York, N. Y.
special seating and table unit

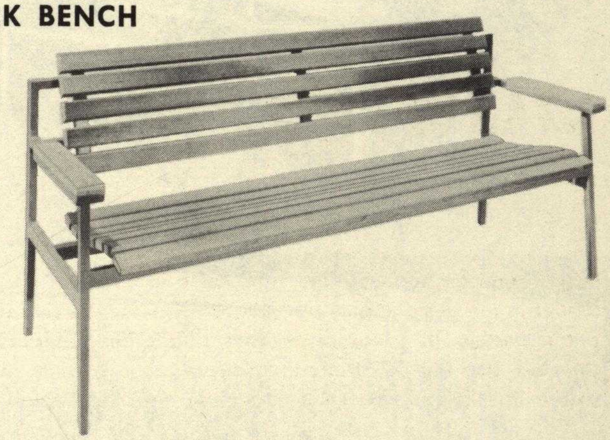


P-10 church pew

Steel base, walnut molded plywood seat.
Prayer book shelves and retractable kneelers optional.
recommended for: churches, chapels, court room seating, waiting areas and terminals.

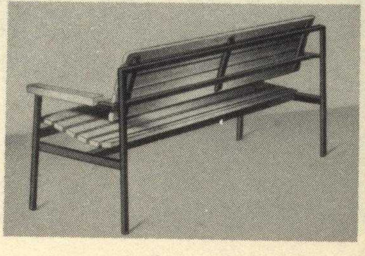


PARK BENCH



PB-510 park bench 72" wide

Welded steel frame, sand blasted and metallized and finished in five standard colors.
Wood slats 1⅛" x 2¼" in untreated straight grain redwood or varnished oak.
Back to back and end to end spacers available.
recommended for:
bus shelters, airport observation decks, waiting areas, churches and chapels.



→ • designs by William Armbruster architect

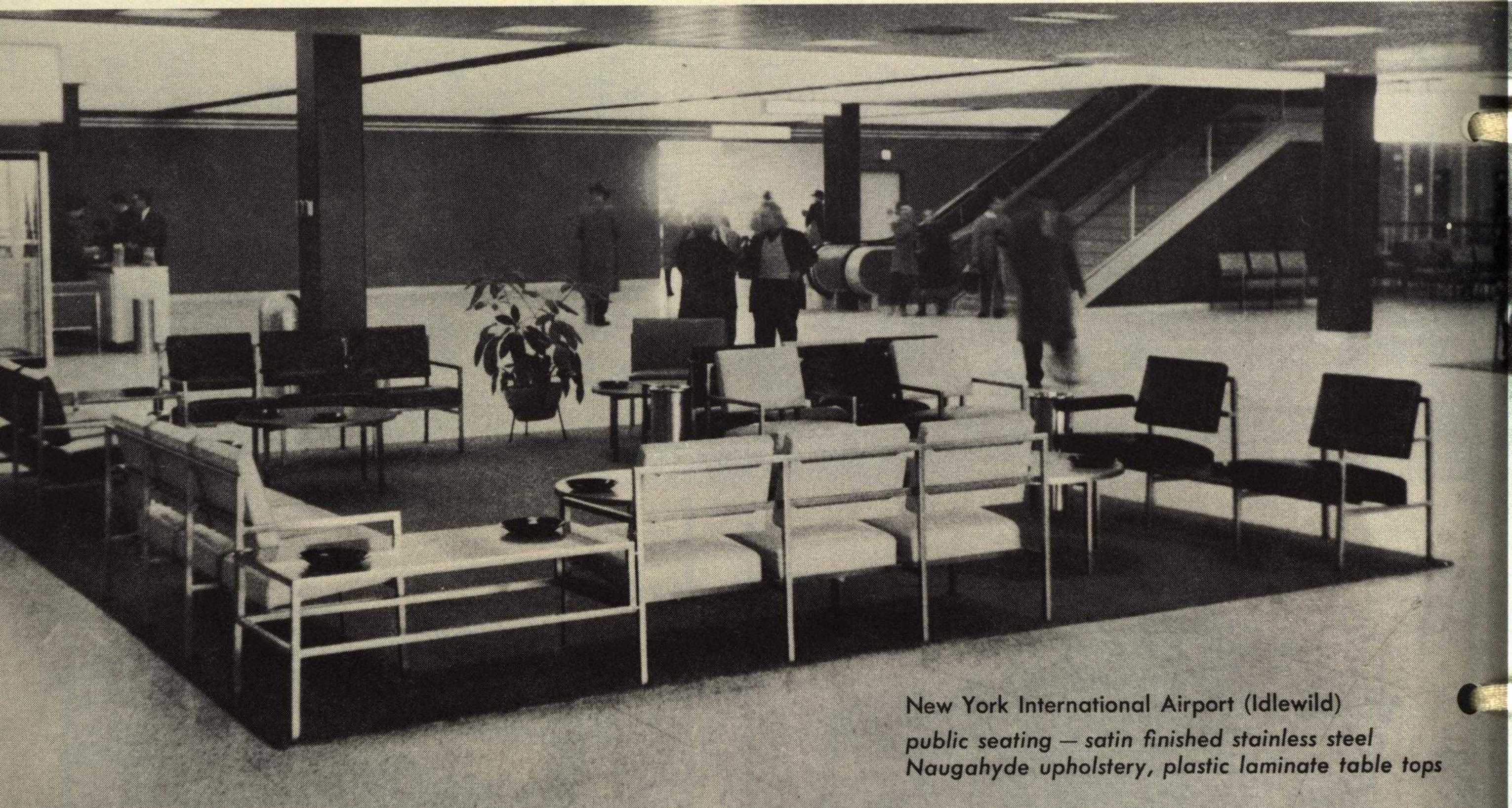
public seating airports

STANDARD SEATING

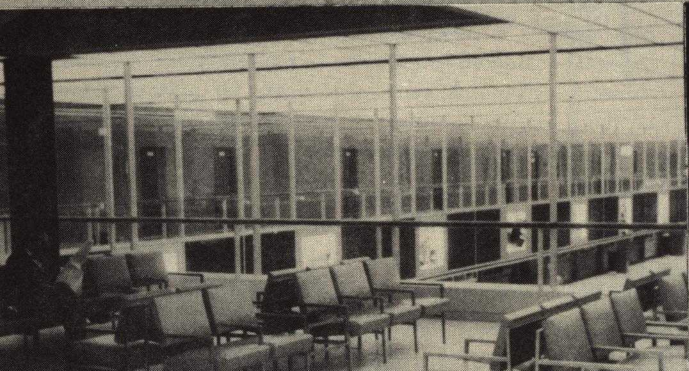
The photographs below illustrate the series in its standard and modified forms; they demonstrate the versatility of arrangements this system makes possible.

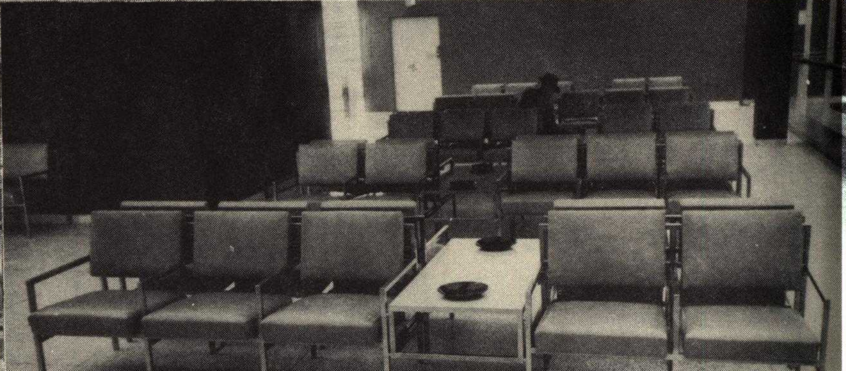
Welded steel frame, sand blasted, metallized, and finished in five standard colors. Seats and backs upholstered. Arms either wooden or upholstered.

recommended for: waiting areas, terminals, churches and chapels.
standard S-200; 3-seat, 2-arm unit
standard SA-200; 3-seat, 4-arm unit



New York International Airport (Idlewild)
public seating — satin finished stainless steel Naugahyde upholstery, plastic laminate table tops





FLEXIBLE MODULAR SEATING

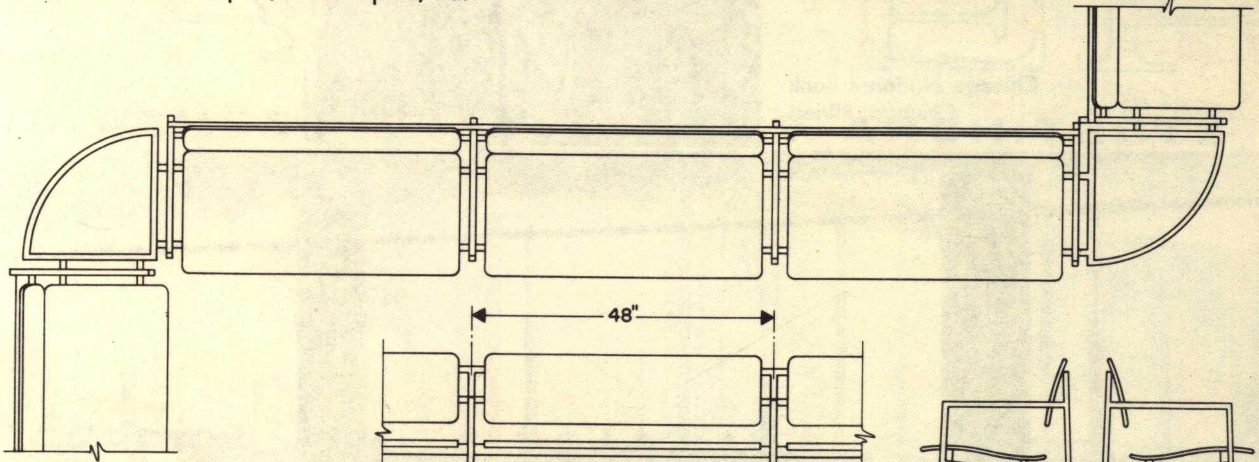
This system of seating—designed by William Armbruster and developed by Edgewood—permits unlimited flexibility. This system is of knockdown construction on a 48" module. It consists essentially of a leg and arm unit to which two tubular seat longerons and two back longerons are connected. Molded plywood seats and backs covered in plastic material are fastened to the respective longerons. Disassembly and re-erection in other locations can be handled by maintenance men.

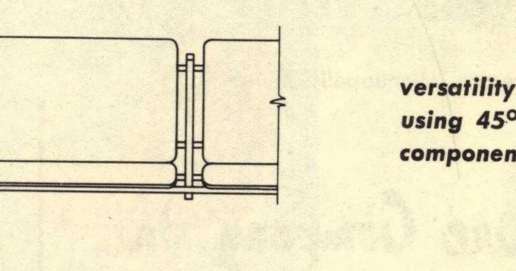
All metal components are available in steel, bronze, and stainless steel. Plastic material covering seat and back panels to be specified by architect.

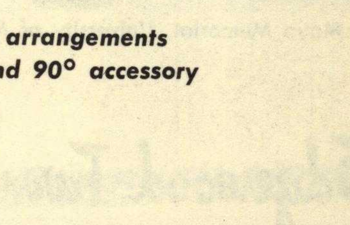
Diagrams below suggest possible seating arrangements in either 45 or 90 degree angles.

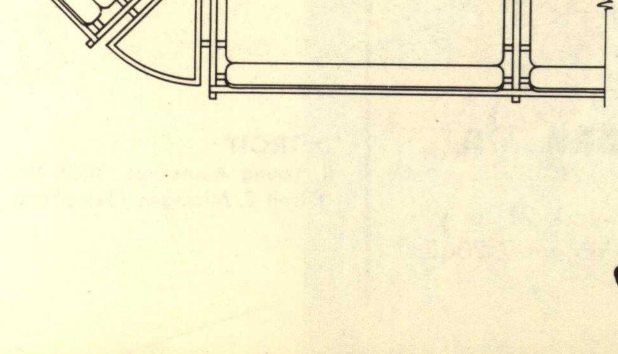
above:
Cleveland Hopkins Airport

at right:
International Airport, Philadelphia, Pa.





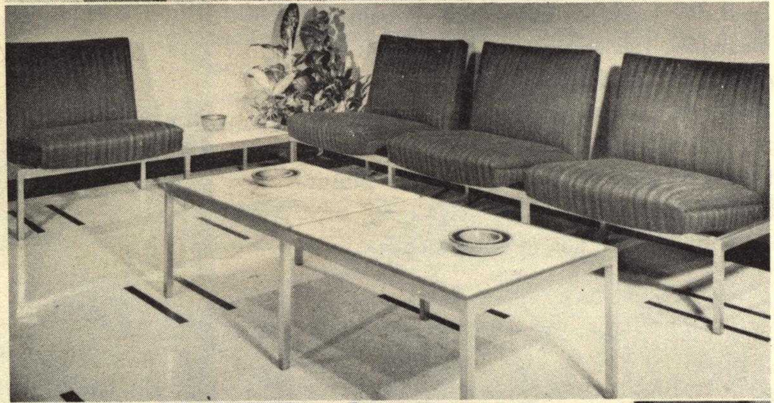




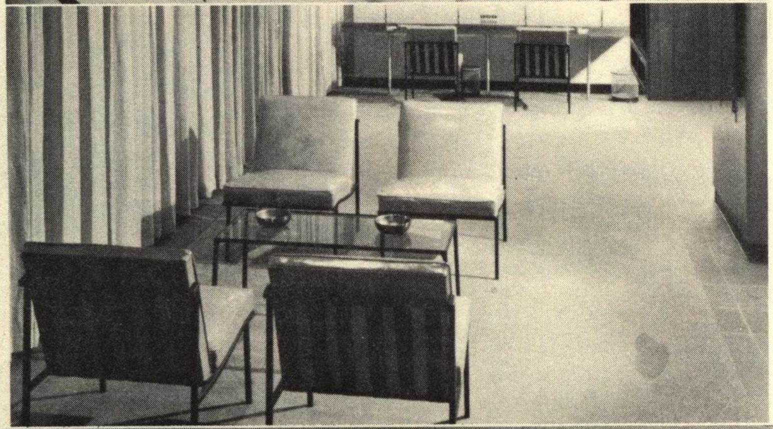
versatility of arrangements using 45° and 90° accessory components

furniture designed by William Armbruster

waiting room
Sante Fe Railway Station
Hutchinson, Kansas



reception area, executive offices
Burlington Industries
New York, N. Y.



Chicago National Bank
Chicago, Illinois

Mayo Memorial, University of Minnesota, Minneapolis, Minn.

Edgewood Furniture Company, Inc.

FACTORY SHOWROOM 334 east 75th street, new york 21, n. y.
REgent 7-2065

DETROIT
R. Young Associates, 3026 N. Grand Blvd.
Detroit 2, Michigan—Telephone: TR 3-9322

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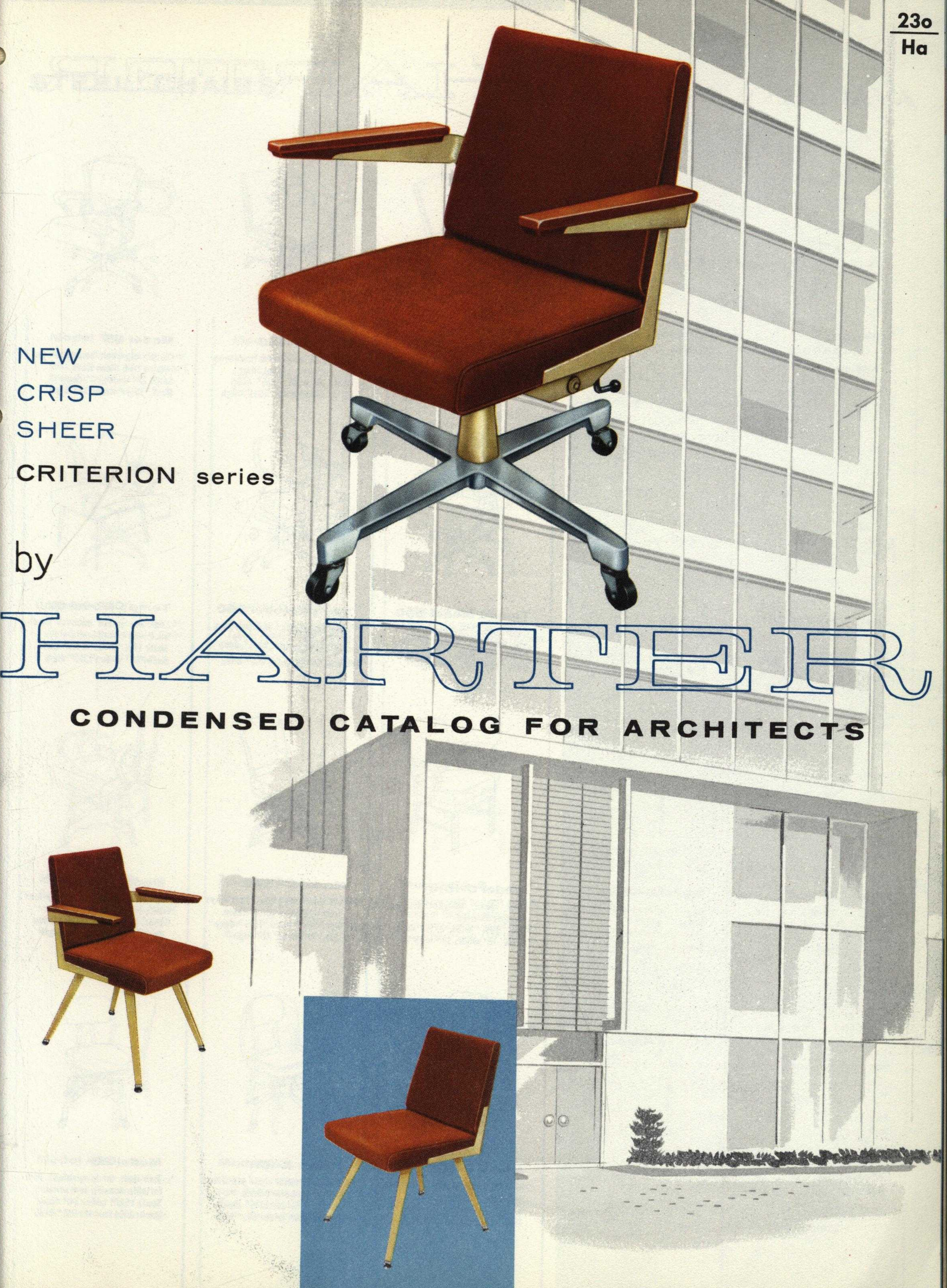

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by

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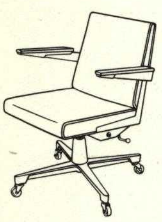
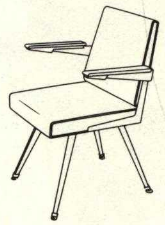


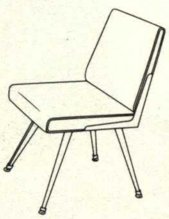
Criterion
Model 41400

Pleasing unitized structure: oneness of form and function.
Seat: 19″ wide; 18½″ deep
Back: 17¾″ wide; 16¼″ high



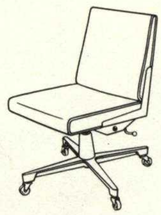
Criterion
Model 51410

Cantilever arms: styling in tune with harmonious building design.
Seat: 19″ wide, 18½″ deep
Back: 17¾″ wide; 16¼″ high



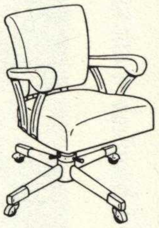
Criterion
Model 61420

Tri-tapered legs and full swivel glides keep chair firmly level.
Seat: 19″ wide; 18½″ deep
Back: 17¾″ wide; 16¼″ high



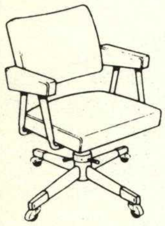
Criterion
Model 41430

Quality of "41400" for those who like a no-arm swivel chair.
Seat: 19″ wide; 18½″ deep
Back: 17¾″ wide; 16¼″ high



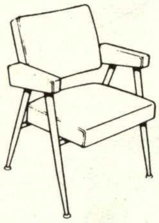
Model 65

Classic big chair beauty — yet retains trim clean lines.
Seat: 22″ wide; 20″ deep
Back: 18½″ wide; 18″ high



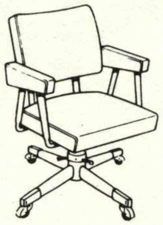
Tempo Model 300

THE Executive chair — with a look that implies success.
Seat: 19¼″ wide; 21¼″ deep
Back: 19″ wide; 14″ high



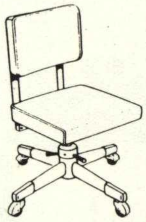
Tempo Model 310

Swept-back legs — deep cushioned foam comfort.
Seat: 19¼″ wide; 21¼″ deep
Back: 19″ wide; 14″ high



Tempo Model 350

Lithe lines — synchronized seat and back tilt. Easily adjusted.
Seat: 19¼″ wide; 21¼″ deep
Back: 18″ wide; 14″ high

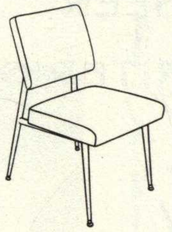


Tempo Model 360

Fully adjustable—resilient back.

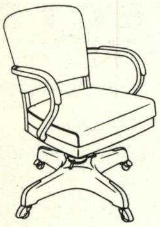
Seat: 16¼″ wide; 15¼″ deep

Back: 14¼″ wide; 9¾″ deep



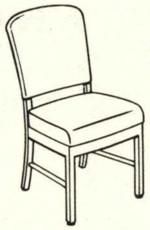
Tempo Model 320

Legs are swept back so chair back won't scuff walls.
Seat: 17½″ wide; 18½″ deep
Back: 16″ wide; 13½″ high



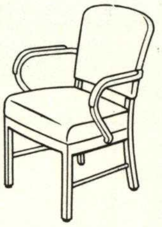
Model C-1500

Leader in Harter's most popular line. Thousands in use.
Seat: 19¼″ wide; 17½″ deep
Back: 18″ wide; 16″ high



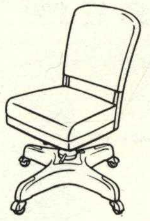
Model C-1520

Neatly tailored side chair — spring fit glides.
Seat: 19¼″ wide; 17½″ deep
Back: 18″ wide; 16″ high



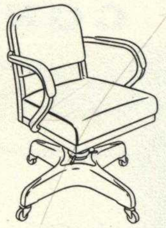
Model C-1510

Cool, clean, buoyant seating comfort assured.
Seat: 19¼″ wide; 17½″ deep
Back: 18″ wide; 16″ high



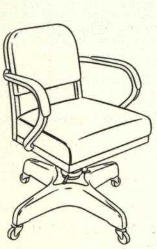
Model C-1530

Self-lubricating chair that stays quiet — always comfortable.
Seat: 17½″ wide; 15½″ deep
Back: 17″ wide; 16″ high



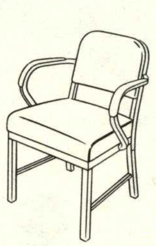
Model 1800 B

Spring seat cushion, twenty-four coils strong.
Seat: 19¼″ wide; 17½″ deep
Back: 15¾″ wide; 12″ high



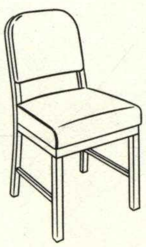
Model C-100

Three inch seat cushion! Foam rubber bonded with pure latex.
Seat: 19¼″ wide; 17½″ deep
Back: 15¾″ wide; 12″ high



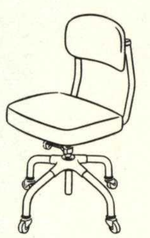
Model C-110

Wears well in factory offices — good utility service.
Seat: 19¼″ wide; 17½″ deep
Back: 15¾″ wide; 12″ high



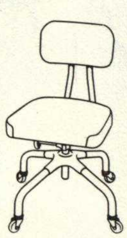
Model C-120

Matches the rugged durability of Models C-110 and 100.
Seat: 17¼″ wide; 16″ deep
Back: 14¾″ wide; 12″ high



Model E-15R

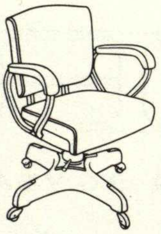
The secretarial chair you'll find in more general offices.
Seat: 16″ wide; 12½″ deep
Back: 13¼″ wide; 6¼″ high



Model 26

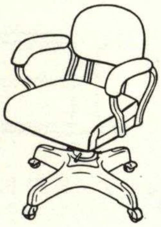
Two-inch thick cushion: comfortable density, low price.
Seat: 15¾″ wide; 14″ deep
Back: 11½″ wide; 7¼″ high

STEEL CHAIRS



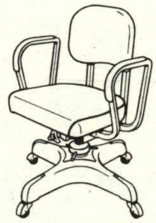
Model 70

Roomy, not cumbersome—business style with home comfort.
Seat: 20″ wide; 17½″ deep
Back: 17¾″ wide; 16″ high



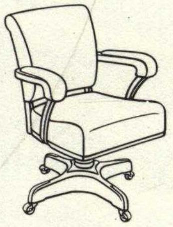
Model 66

Open design for airy coolness.
Seat: 20″ wide; 17½″ deep
Back: 15½″ wide; 11″ high



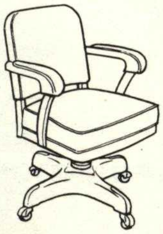
Model 67-T

Hugs desk with short arm rests. Puts you right over your work.
Seat: 17½″ wide; 15¾″ deep
Back: 15½″ wide; 11″ high



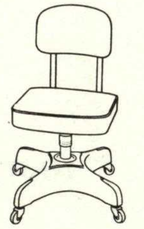
Model 700

A favorite that is always accepted as good taste in decor.
Seat: 21¾″ wide; 20″ deep
Back: 19″ wide; 17″ high



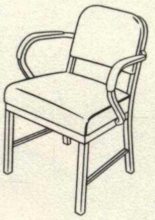
Model C-1900

A big man's chair with big foam rubber comfort over springs.
Seat: 22¾″ wide; 18½″ deep
Back: 18½″ wide; 16½″ high



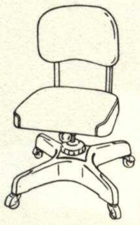
Model 57-S

Fits a girl like her gloves — helps make secretaries efficient.
Seat: 16¼″ wide; 14″ deep
Back: 13½″ wide; 8¾″ high



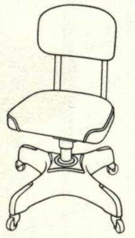
Model 1810 B

Big value in the lower price range. Every inch a true Harter.
Seat: 19¼″ wide; 17½″ deep
Back: 15¾″ wide; 12″ high



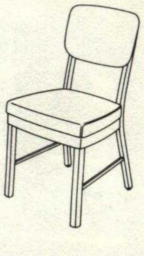
Model 62

Synchro-tilt back and seat move together for full comfort.
Seat: 17½″ wide; 15½″ deep
Back: 15½″ wide; 11″ high



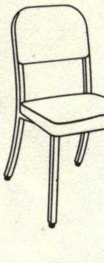
Model 54-S

Priced for tight budgets with no skimp of Harter comfort.
Seat: 17½″ wide; 15½″ deep
Back: 15½″ wide; 11″ high



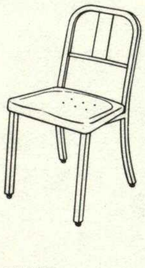
Model 420

A space-saver — that "extra" chair you so often need.
Seat: 17″ wide; 15½″ deep
Back: 16¼″ wide; 11½″ high



Model 20

Larger seat, heavier steel, more style than most side chairs.
Seat: 17″ wide; 15″ deep
Back: 14¾″ wide; 10½″ high



Model 18

All metal perforated for coolness. Heavy steel for durability.
Seat: 16½″ wide; 15″ deep

SPECIALISTS IN SEATING AND SEATING ONLY FOR OVER 30 YEARS

Harter specialists have been designing, building and fitting fine seating since 1927. This experience, combined with only the finest materials — and more of them — assure you and your clients of the most desirable seating made today. But "specialists" and "experience" are only words. Let's see what they mean to you.

in styling

Harter seating, led by the new Criterion, and recently introduced Tempo gives you the contemporary styling your clients prefer. The cantilever arm is unique in the Criterion line but typical of the advanced features that you'll find in the entire Harter line.

in quality

Harter seating has always had a "quality" reputation. The reason is simple. More thought is given to what goes into Harter seating and how it is crafted. Take the use of foam rubber. Harter uses all foam rubber where others use a thin piece of foam rubber over a flat spring. Another example: Harter upholstery. The Tempo series has hardwood arms. Harter craftsmen cover them with generous molded sections of foam rubber. Then they affix heavy pieces of felt to the sides. The result — a superb example of fine furniture with the feel of luxury — Harter luxury.

Harter quality isn't always tangible. Sturdy quietness is a composite of many features. One is Harter's original one-piece base: strongest made. Quiet working steel parts have no peer.

in comfort

When you have Harter seating you have the one brand that does not confuse comfort with "softness". Each part of the chair's anatomy truly relates to human anatomy for all-day freshness.

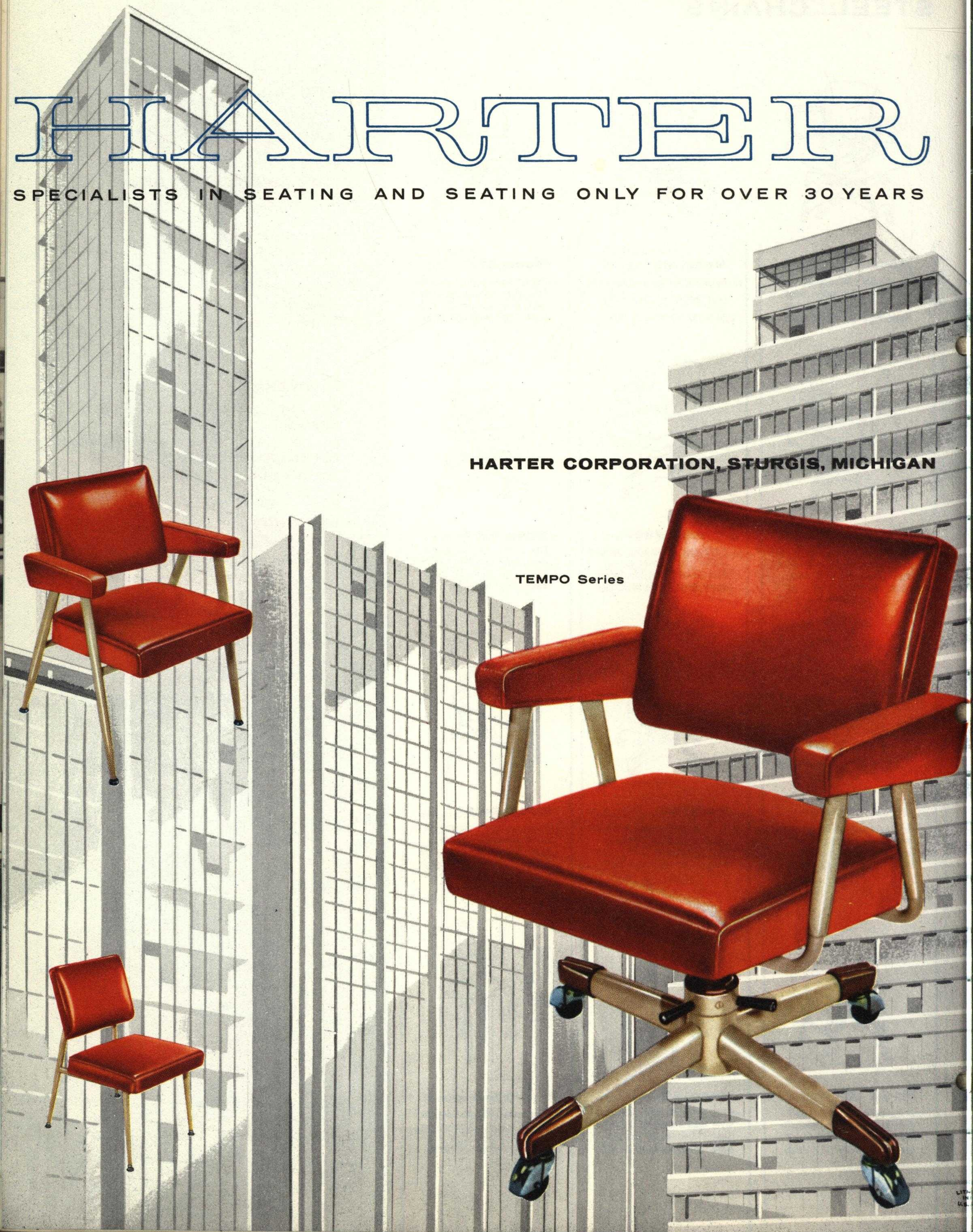
Harter controls bring you closer to perfect comfort, too. The seating adjusts to you — you don't have to adjust to the seating.

When you're concerned with furniture from the budget-class to the finest — and seating in particular — speak to a Harter "seating specialist". He will be glad to acquaint you with all the details. Just a wire — or a 'phone call — and a Harter "specialist" will be at your service. He'll consider the visit a privilege.

NOTE: Harter seating is available in a vast variety of colors and upholsteries. Naugahyde and Nygen Tolex in plastics; Gros Point, Striata and Mansfield in fabrics; and luxurious leathers. All can be used in almost unlimited color combinations. Durable baked-on enamels in matching colors will also meet the varied preferences of your clients.

HARTER

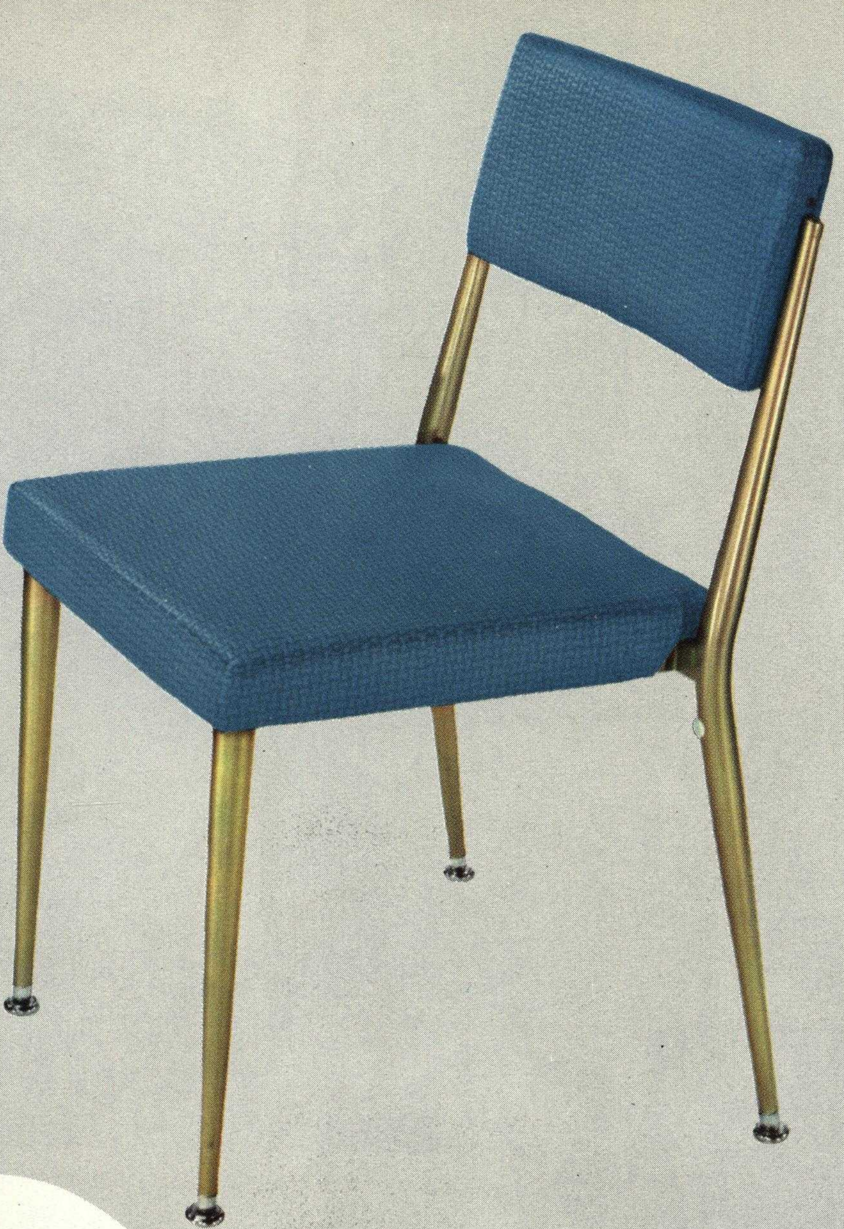
SPECIALISTS IN SEATING AND SEATING ONLY FOR OVER 30 YEARS



HARTER CORPORATION, STURGIS, MICHIGAN

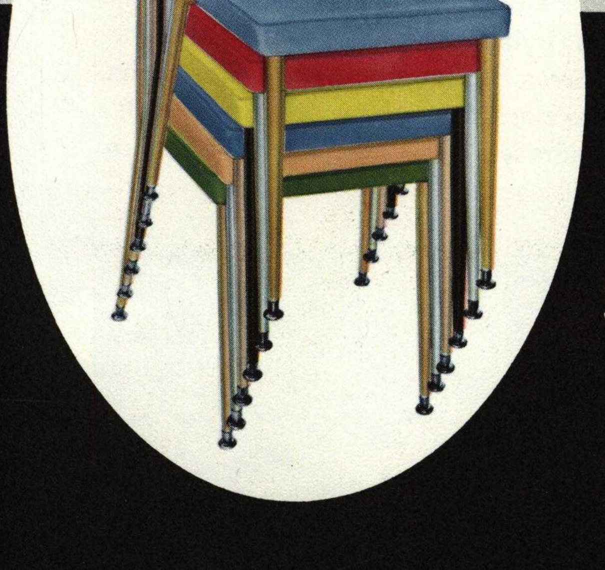
TEMPO Series

THE 670 AND THE 671 SERIES



The one Stack Chair that successfully combines design aesthetics in the modern mode with a degree of seating comfort unapproached even by many more costly side chairs — and still is as kind — or kinder — to the budget than any alternate choice.

HARTER CORPORATION • STURGIS, MICHIGAN



STACK CHAIRS

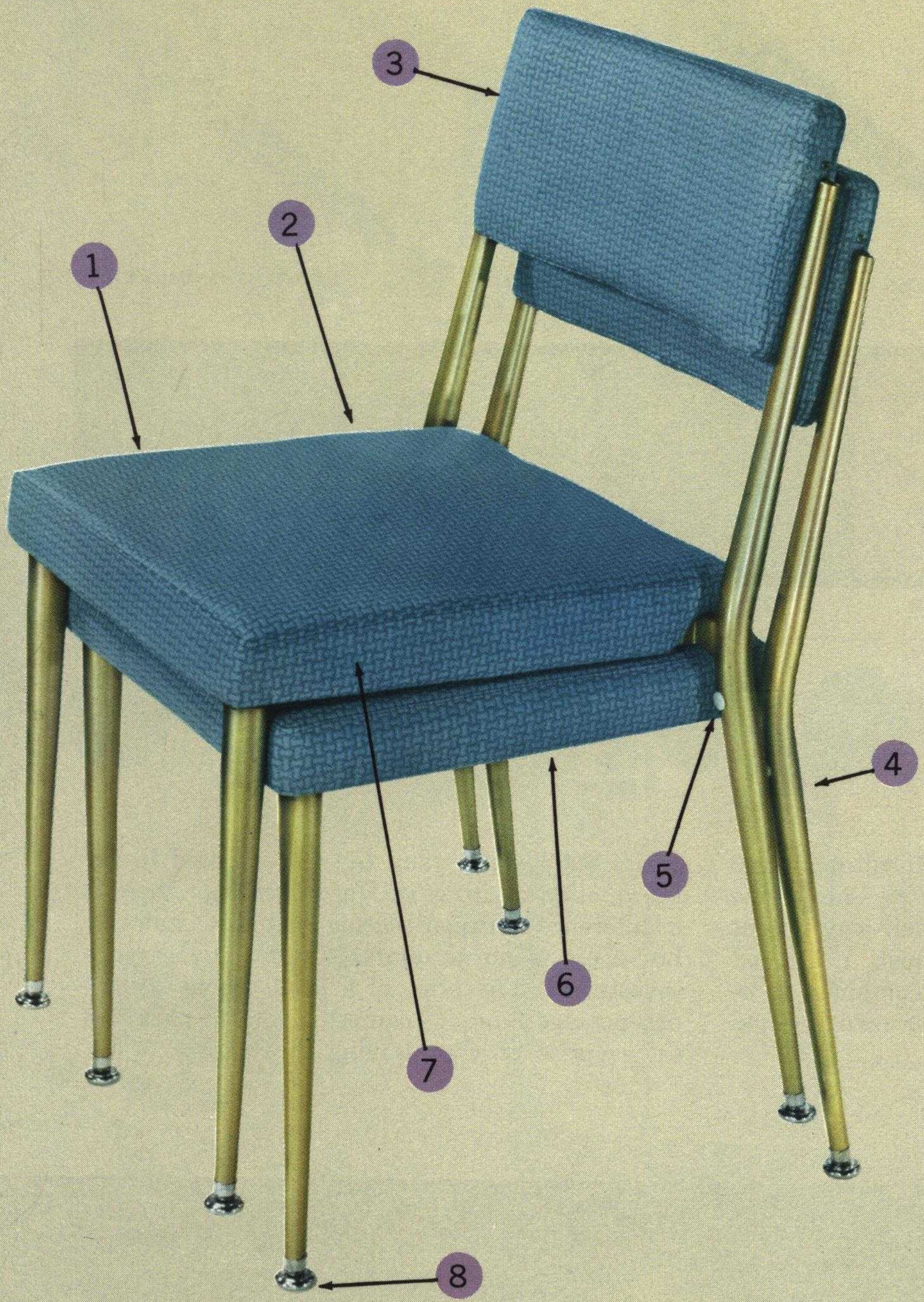
by HARTER

a complement of 500.... compliments the decor of FRENCH LICK-SHERATON HOTEL

Dressed for dinner — or for a conference or congress — Convention Hall in beautifully restored Sheraton French Lick Springs (Indiana) wears the modern shimmer of Lustergold and Old Ivory in chic new Harter Series Six-Seventy-One stacking chairs. Handsome side chairs they may *seem* — but stacked to vacate Convention Hall's full floor area, they require less space than the average office.

O. R. Connolly, general manager (center), Charles Bennett, resident manager (left) and Harry Chapman, catering manager, show one stacking arrangement. These chairs are one of the handsome innovations in the full restoration of the famous Southern Indiana spa and playground — and especially gracious convention site.

. . . and they're a pretty compliment to anybody's good judgment for hours-long comfort—and the budget.



Sheer, crisp lines in the silhouette of modern architectural design.

① Tailored matching upholstery in both seat and back — in any Harter fabric or plastic coated fabric — any Harter color. (See page 4.)

② Full 2¼ inches of seating comfort. $1\frac{5}{16}$″ of molded foam rubber plus an inner ¾″ cushion of resilient organic fiber, fully contained in a die-formed one-piece .035 gauge steel pan. Foam rubber lips cover entire depth of front and sides of pan for luxury bulk—to please the guest and protect adjacent furniture.

③ Back is two die-formed, contoured .035 gauge steel pans, front and rear—with generous ½″ resilient fiber pad. Model 670 rear pan enamel finished to match legs and frame — Model 671 upholstered front and rear.

④ Legs of sturdy tapered steel tubing slim away to favor fashion's latest "light look". Lithesome — and bridge-strong. Special multi-coat, double-baked, phosphate-hardened finish takes the scuffs and knocks and stays a-shimmer.

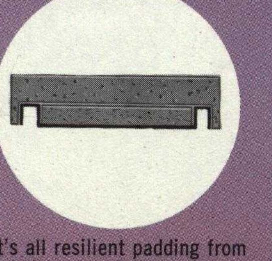
⑤ Nylon bumper eliminates metal to metal contact.

⑥ Clean, smooth, flush seat pan protects next seat pad and upholstery in stacking.

⑦ Stacks to 8-high with no extra over-lift to clear projecting side frames as in some designs.

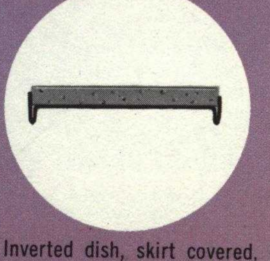
⑧ Large $1\frac{3}{16}$″ hardened steel glides are chrome plated to be kind to floors — full swivel ferrule design with special interlock. They're floor-flat regardless of chair tilt.

this is HARTER COMFORT full depth seat



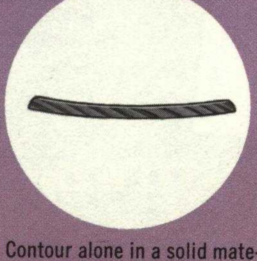
It's all resilient padding from upholstery to full depth pan.

not like this FALSIE concealed shallow seat



Inverted dish, skirt covered, allows only half the padding.

or this BYOP (bring your own pad)

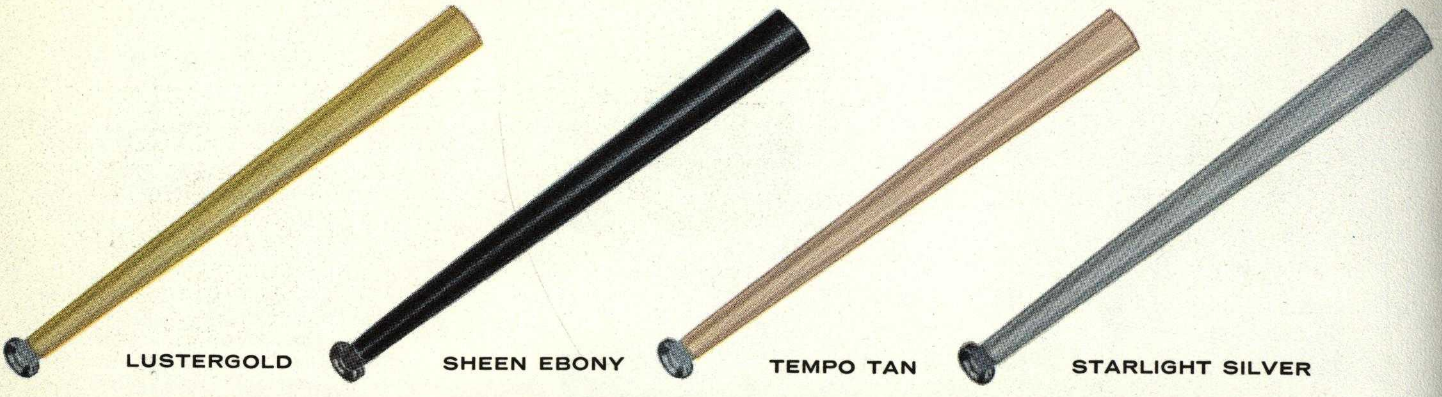


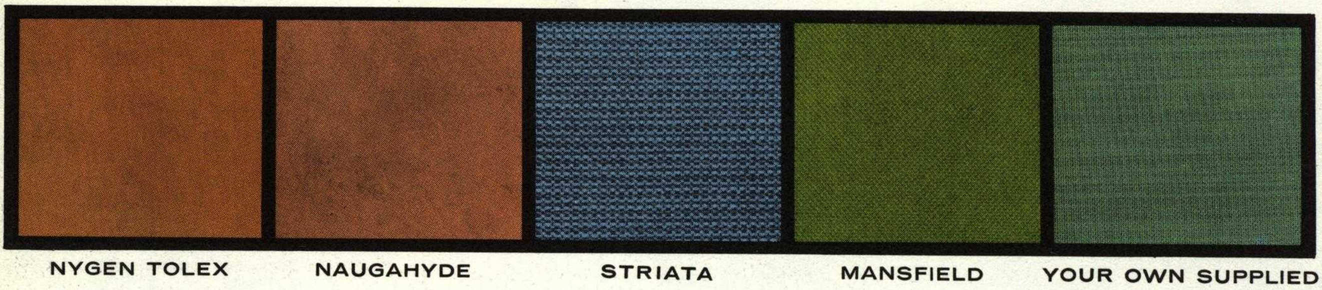
Contour alone in a solid material won't fill the comfort bill.

COLORS

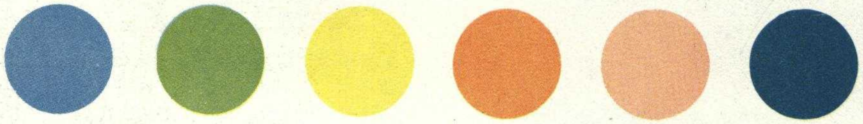
Select a rich ensemble — or a color riot — from Harter's unmatched variety of upholstery and metal combinations. As you like it — at no price penalty.

ANY COMBINATION OF UPHOLSTERY MATERIAL—IN DEEP TONES OR PASTELS—PLUS FOUR COLOR CHOICES FOR METAL





. . . or these Powder Pastels



Only Harter presents such a fine-furniture choice of fabrics and plastics in upholstery — in so wide a selection of colors — plus a four-way accent gleam in ever-shimmer metal finish. . . . And there's no price penalty in any combination — including the application of your own selected and supplied material.

Series Six-Seventy (and 671) is executed in the full quality tradition of Harter *seating*. There *is* a difference between seating and just chairs — but there is no accountable difference in your investment. The price of a local 'phone call — or a postage stamp — can bring you the pleasantest surprise of your buying career.

PRESENTED BY

SPECIFICATIONS

SEAT — 16″ wide, 16½″ deep (front to rear), 2¼″ thick

BACK — 16⅜″ wide, 7¾″ high, 1¼″ thick

SEAT HEIGHT FROM FLOOR — 17¾″

OVERALL CHAIR HEIGHT — 30½″

CHAIR WIDTH AT WIDEST POINT (Glides) — 20″

WEIGHT — 16½ lbs., packed two to a carton

CONSTRUCTION — Fully welded steel frame and tapered tubing legs. Four standard metal multi-coat finishes, phosphate-hardened enamel— Lustergold, Sheen Ebony, Tempo Tan, Starlight Silver.

GLIDES — 1³⁄₁₆″ diameter hardened steel, chrome-plated. Full swivel ferrule type with interlock device.

STANDARD UPHOLSTERIES — Nygen Tolex, Naugahyde, Striata, Mansfield. Your own supplied fabric or plastic applied at standard upholstery price.

UPHOLSTERY COLORS — All Harter Standard. See Above.

HARTER CORPORATION

STURGIS, MICHIGAN

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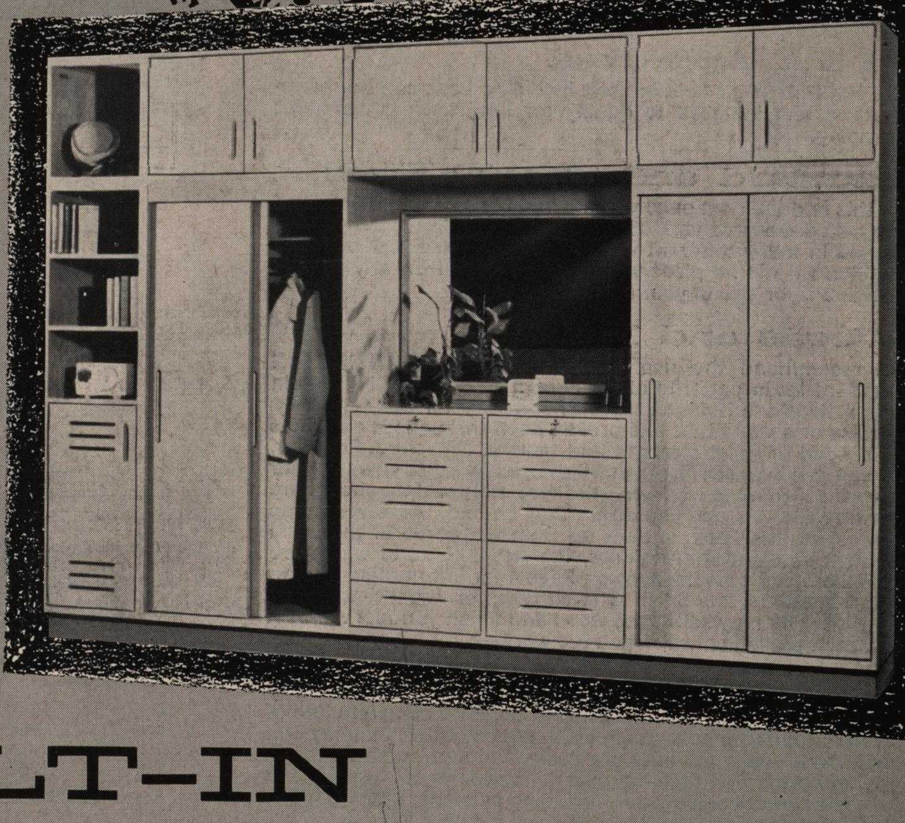
HUNTINGTON FURNITURE



BUILT-IN FURNITURE

pre built and finished at factory

A.I.A. FILE No. 28·A·4

HUNTINGTON

Designed for Today and Tomorrow

HUNTINGTON furniture is built to last. Our first consideration is to give you a product that will look well and wear well under hard everyday use. In addition our designers have created in all HUNTINGTON patterns a tailored appearance and dignity of design that will be good for "Today and Tomorrow".

Outstanding Construction and Installation Features

Some line drawings appear on pages 2 and 3 and partial specifications on Page 4. Complete specifications and detail drawings are available upon request. The most important construction features are: 5 ply tops and sides with solid lumber core for greater strength; desk and chest tops are surfaced with plastic and underneath side is sealed with balanced plastic backing sheet for greater protection; sides are covered with thick 1/20″ face and back veneers; trouble-free recessed pulls are used on all drawers and doors; every drawer has strong fully dovetailed joints; all cases are completely dust proofed between drawers; best construction is used—all joints are dovetailed, mortised and tenon and/or tenoned and grooved; baked-on highly durable plastic finish is applied over all exposed surfaces; maintenance free aluminum track with 8 nylon rollers is used to house sliding doors on wardrobes. Because all parts are precision made in our highly mechanized factory and all doors and drawers are properly hand-fitted by cabinet makers, HUNTINGTON built-in furniture can be installed with much less adjusting and far less time than mill work units.

HHFA Approved

ALL HUNTINGTON built-in units including beds can be manufactured and installed to qualify for long term government financing.

Standard and Special Sizes

On this and the next page you will find typical installations and suggested sizes of various type units. The latter can be arranged in many different ways to fit your particular need. In addition we will be pleased to work with you on any special design and/or size of your own.

Woods and Finish

We recommend the use of Hardwoods. All HUNTINGTON standard loose patterns of furniture and many of its built-in installations are manufactured of Appalachian Oak—the best species of a wood that has proven itself throughout centuries as a wood of great strength and beauty. If desired, however, we can, have and will be pleased to use any other wood of your choosing. Whereas we have attractive standard finishes, here again any other color you desire may be had. Whatever shade you select, the finish is built up from the pores of the wood through an eight step process, the last 2 coats of which are baked on. See specifications on Page 4 for information on how highly resistant this finish is to all types of abuses. With this flexibility you may select the wood and finish you feel will best suit each project on which you are working.

A Complete Line

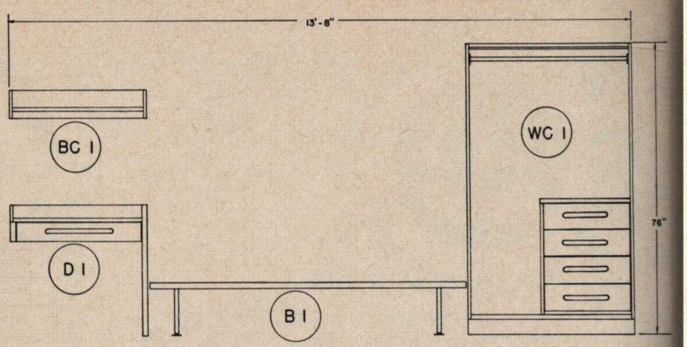
HUNTINGTON also manufactures a long and complete line of loose furniture for all areas in every type of public building and institution. These patterns are designed to harmonize and coordinate with our built-in units in appearance, woods and finishes. Complete literature including catalogs, specifications and detail drawings are available upon request.

Planning Service

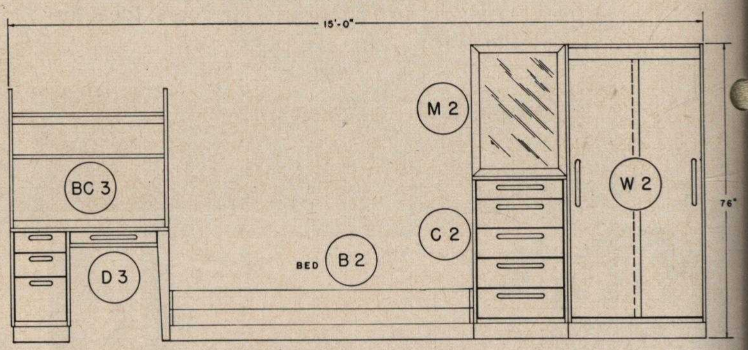
Our experienced Special Products Department stands ready to assist you, as it has architects throughout the country, in planning your next project. We will be pleased to prepare sketches, detail drawings, specifications and/or layouts for your approval if you are interested in a quality product. Write us today so that you can specify HUNTINGTON furniture tomorrow.

Typical Installations

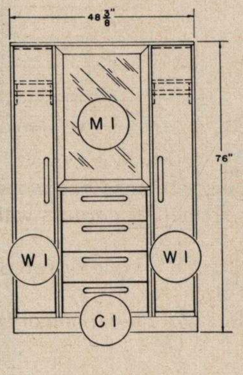
scale 1/4″=1′-0″



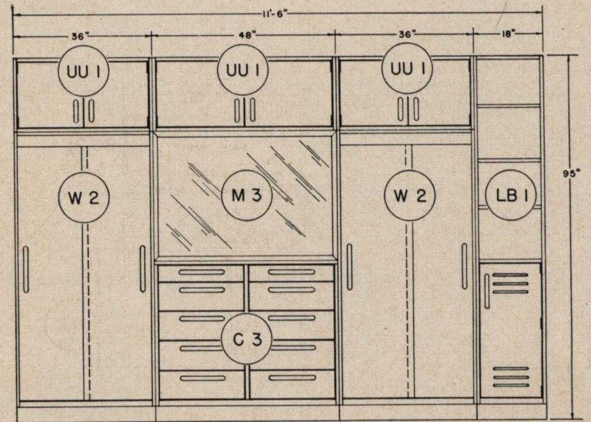
For those institutions who have a budget problem but still want to buy quality. Runs from wall to wall for one student.



For those institutions who have more to spend we recommend the above. Runs from wall to wall for one student.



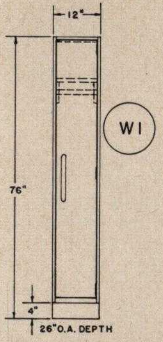
Excellent for use in semi-private hospital patient rooms. Set in wall. One wardrobe and two drawers per patient.

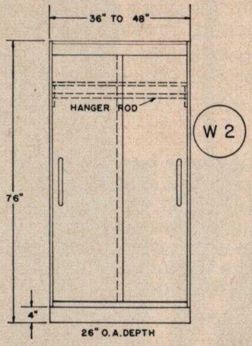


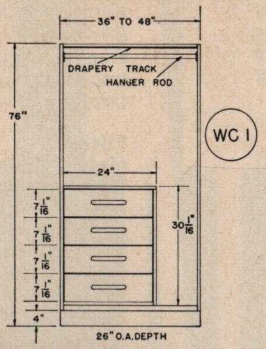
The above is storage for two students and runs from wall to wall and floor to ceiling. It costs more than the other two installations shown above. However, every other structural wall can be eliminated and two of these may be backed up with insulation between.

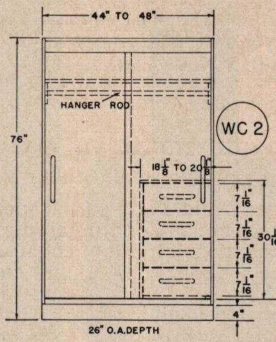
Suggested Sizes

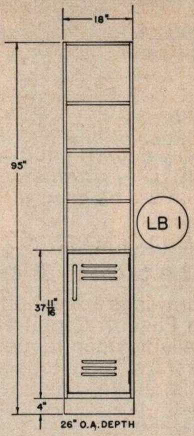
scale ¼″=1′-0″


12"
76"
4"
W1
26" O.A. DEPTH


36" TO 48"
HANGER ROD
76"
4"
W 2
26" O.A. DEPTH


36" TO 48"
DRAPERY TRACK
HANGER ROD
76"
24"
WC 1
30 1/16
26" O.A. DEPTH

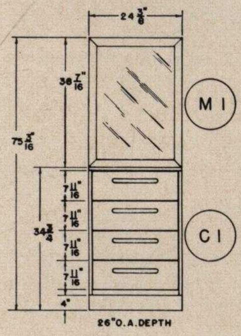

44" TO 48"
HANGER ROD
76"
18 5/8 TO 20 5/8
WC 2
30 1/16
26" O.A. DEPTH

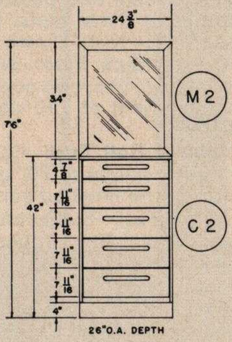

18"
95"
LB 1
37 11/16
4"
26" O.A. DEPTH

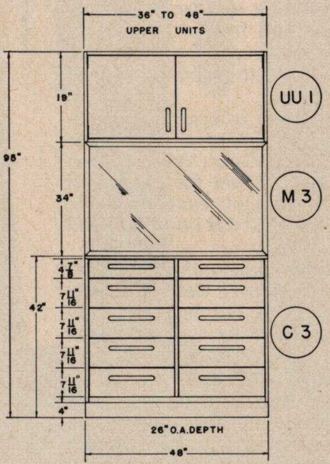
W-1 Small closet (12″) with hinged door. Well suited for use in hospital patient room.
W-2 Larger closet (36″ to 48″) with sliding doors. Ideal for clothes storage.

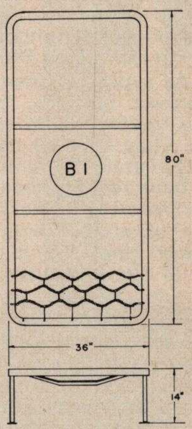
WC-1 Wardrobe-Chest (36″ to 48″) with drapery rod combination.
WC-2 Wardrobe-Chest Combination with sliding doors (44″ x 48″).
LB-1 Bookcase and storage unit. Good for storing wet linen.

HUNTINGTON BUILT-IN FURNITURE UNITS ARE MANUFACTURED, COMPLETELY ASSEMBLED AND FINISHED AT FACTORY


24 3/8
36 7/16
73 3/16
M 1
7 11/16
34 3/4
C 1
4"
26" O.A. DEPTH

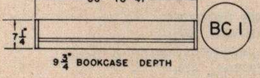

24 3/8
34"
76"
M 2
4 7/8
7 11/16
42"
C 2
4"
26" O.A. DEPTH

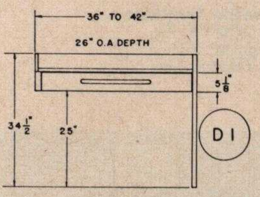

36" TO 48"
UPPER UNITS
19"
UU 1
95"
34"
M 3
4 7/8
42"
7 11/16
C 3
4"
26" O.A. DEPTH
48"

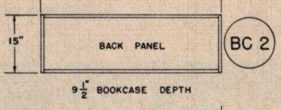


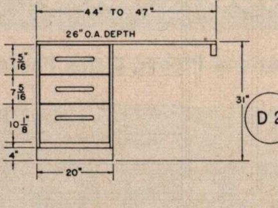
M-1 Copper plated ¼″ glass with solid hardwood framing, mitered and double splined at corners with plywood back.
C-1 Four drawer chest. Enough for one or two people.
M-2 Same as M-1 except size.
C-2 Five drawer chest. More storage for one or two people.

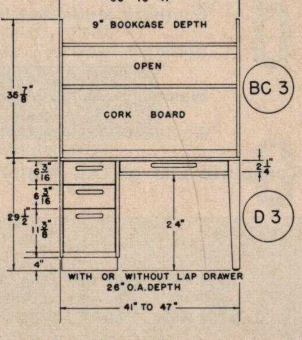
UU-1 Upper Unit with hinged doors (36″ to 48″). Ideal for dead storage.
M-3 Same as M-1 except size.
C-3 Double chest with 10 drawers. Perfect for two people.
B-1 Heavy duty metal frame with comfortable and easily maintained spiro Swedish spring.

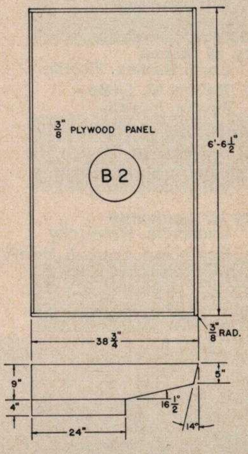

36" TO 47"
7 1/4
BC 1
9 3/4 BOOKCASE DEPTH


36" TO 42"
26" O.A DEPTH
5 1/8
34 1/2
25"
D 1


36" TO 47"
15"
BACK PANEL
BC 2
9 1/2 BOOKCASE DEPTH


44" TO 47"
26" O.A. DEPTH
7 5/16
10 1/8
4"
31"
D 2
20"


36" TO 47"
9" BOOKCASE DEPTH
OPEN
35 7/8
BC 3
CORK BOARD
6 3/16
2 1/4
29 1/2
11 3/8
24"
D 3
4"
WITH OR WITHOUT LAP DRAWER
26" O.A. DEPTH
41" TO 47"


3/8 PLYWOOD PANEL
B 2
6'-6 1/2
38 3/4
3/8 RAD.
9"
4"
5"
16 1/2
24"
14"

BC-1 Bookcase (36″ to 47″). Budget.
D-1 One drawer desk (36″ to 42″). Attaches to wall on one side. Other side serves as head or footboard.
BC-2 Two shelf bookcase (36″ to 47″).

D-2 Three drawer desk (44″ to 47″).
BC-3 Combination bookcase-corkboard (36″ to 47″)
D-3 Four drawer deluxe desk (41″ to 47″).
B-2 Solid wood frame with plywood panel.

HUNTINGTON Built-in furniture

Suggested Specifications: The following specification is abridged but since it refers to the complete specification it can be safely used on any job. Some architects may feel that the paragraph under "general" is sufficient. Others will prefer to include this entire abridged specification to give the contractor a better idea of the quality of furniture desired. Still other architects will write to Huntington for complete specifications and use them in their entirety.

GENERAL:
All built-in furniture shall be fabricated and completely finished by a company regularly engaged in the manufacture of high quality institutional furniture and shall in all respects be manufactured according to the latest specifications of the Huntington Furniture Corporation. The successful bidder shall furnish, upon request by the owner, a complete sample of each type unit for his approval. Such samples may be retained by the owner for comparison purposes until the building is completed.

Shop drawings shall be submitted for approval of the owner and architect before fabrication is started. Shop drawings shall show all details of construction at large scale.

The bidder shall include transportation charges to the job site and complete installation costs.

All units shall be delivered to the job completely assembled and pre-finished and ready for installation together with all necessary trim (pre-finished to match units.)

MATERIALS:
Appalachian Red Oak plain sawn shall be used for all exposed parts. It shall be selected for clarity of color and uniformity of grain. Unexposed parts shall be sound and free of all defects which would in any way impair the quality or strength of the finished product. All lumber used shall be kiln dried to not less than 6% nor more than 8% moisture.

Veneer—All exposed veneers which include interiors of wardrobes, drawer bottoms, back panels of wardrobes, upper units and lavatory units shall be Natural Grain Appalachian Red Oak. They shall be selected and matched for color and uniformity of grain. To minimize warping and increase strength, face and back veneers shall be 1/20″ thick. Cross banding shall be poplar, also 1/20″ thick.

Glue—For assembly joints, glue blocks and built-up stock; animal hide glue, hot, made fresh daily and having a jelly strength of 331-362 grams shall be used. For hot and cold pressing and electronic jigs and presses; urea formaldehyde resin liquid type glue containing 67% to 70% solids mixed with a catalyst giving a waterproof mixture shall be used.

Laminated Plastic Sheets—For tops of chests, desk and lavatory back splash and shall be applied over 3 ply lumber core constructed stock with 1/20″ poplar cross band and 4/4 poplar lumber core and compensating backing. Top plastic shall finish 1/16″ thick and backing shall be .045″ in thickness and meet all NEMA standards as manufactured by Formica, Micarta or equal.

CONSTRUCTION:
As per latest specifications of the Huntington Furniture Corporation, all units shall utilize the best cabinet making practices and construction. All joints shall be mortised and tenoned or grooved and tenoned, doweled and securely glued and blocked.

Five ply lumber core shall be manufactured with 1/20″ face and back Appalachian Red Oak veneer and crossbanded with 1/20″ poplar and with core stock of 4/4 poplar core.

FINISH:
Materials shall be made by a reliable manufacturer. The finish for all exposed portions shall be entirely resistant to fingernail polish, fingernail polish remover, alcohol and certain other agents commonly known to blemish furniture finishes. After one hour under a watch glass, finish shall react as follows using reagents that are included in the Veterans Administration Specifications for furniture:

Phosphoric Acid 75%	Softened slightly
Acetic Acid 98%	Blistered after ½ hour
Ammonium Hydroxide	No effect
Formaldehyde 40%	No effect
Hydrogen Peroxide	No effect
Phenol 85%	No effect
Methyl Alcohol	Slight ring
Ethyl Alcohol	No effect
Ethyl Acetate	No effect
Ethyl Ether	No effect
Acetone	Blistered after 15 minutes
Chloroform	No effect
Xylol	No effect
Carbon Tetrachloride	No effect

A light rubbing and polishing should eliminate all defects apparent from these tests. In addition the finish shall react as follows to the tests shown below:

(1) Cold Check Test—The finish shall not be broken after twenty-five (25) cycles consisting of subjecting a finished panel to one (1) hour at 120 degrees F. and one (1) hour at minus 8 degrees F.

(2) Falling Ball Test—Consists of dropping a one (1) pound ball from a height of 36″ onto a finished panel surface without fracturing the finished surface.

(3) Print Test—Subjecting two (2) pound pressure to the square inch at the temperature of 130 degrees F. The results show less marking than in most standard finishes.

The interior of wardrobes and upper units shall be finished by toning or staining to get the selected color effect and then sealed, sanded and waxed.

Drawer interiors shall be sealed and waxed only.

Installation—all units including sub-bases where shown shall be delivered and installed; workmanship shall be first class in all respects.

INSTALLATIONS

Colorado State University
Greeley, Colorado
Architect R. F. Linstedt
Denver, Colorado

University of Miami
Coral Gables, Florida
Architect Robert M. Little
Miami, Florida

Lehigh University
Bethlehem, Pa.
Architect Larson and Larson
Winston-Salem, N.C.

University of Louisville
Louisville, Kentucky
Architect Hartstern, Louis & Henry
Louisville, Kentucky

St. Lukes Nurses Residence
Saginaw, Michigan
Architect Schmidt, Garden & Erikson
Chicago, Illinois

Manhattanville College
White Plains, N.Y.
Architect Eggers & Higgins
New York, N.Y.

Southern Methodist University
Dallas, Texas
Architect George L. Dahl
Dallas, Texas

Wesley Theological Seminary
Washington, D.C.
Architect A. Hensel Fink
Philadelphia, Pa.

Holzer Hospital Nurses Residence
Gallipolis, Ohio
Architect Dan A. Carmichael
Columbus, Ohio

Marshall College
Huntington, W. Va.
Architect C. E. Silling
Charleston, W. Va.

Bethesda Nurses Home
Cincinnati, Ohio
Architect Samuel Hannaford & Son
Cincinnati, Ohio

Philadelphia Textile Institute
Philadelphia, Pa.
Architect George M. Ewing Co.
Philadelphia, Pa.

For Complete List of Our Many Installations Please Write Factory

HUNTINGTON
FURNITURE CORPORATION
HUNTINGTON WEST VIRGINIA
Permanent Showrooms: Chicago, New York, Huntington

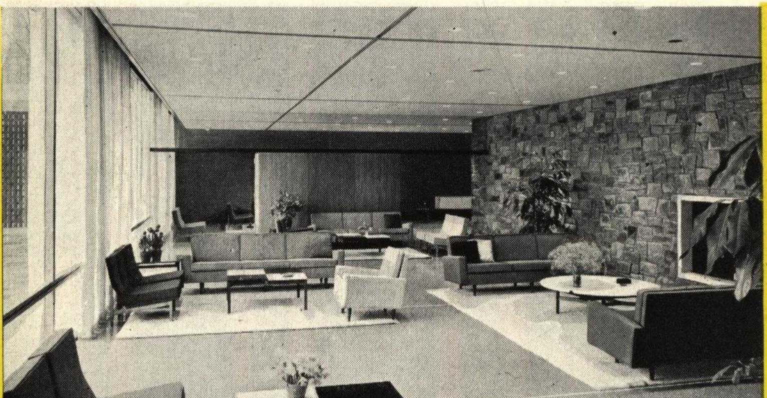
23o/Kn

KNOLL

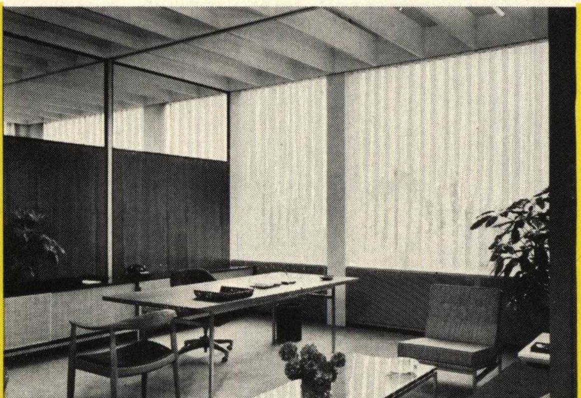
Knoll Associates Inc.

a planning
b chairs, sofas
c tables, chests
d textiles

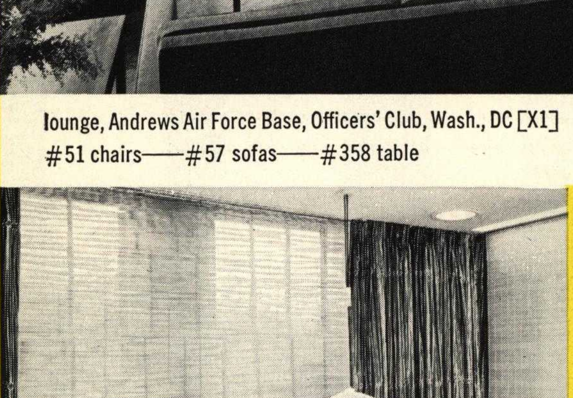
The Knoll Planning Unit, design consultants to the architect. A complete planning service which integrates interior and architectural design. Through understanding of specific problems, it coordinates furniture, fabrics and color to create interiors of utility and beauty.



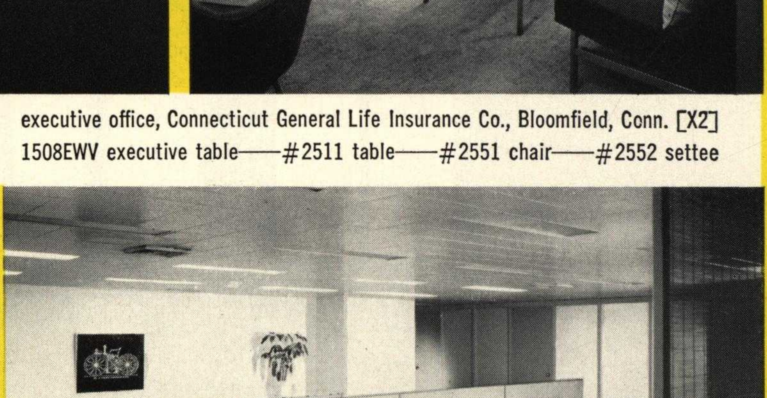
lounge, Andrews Air Force Base, Officers' Club, Wash., DC [X1]
#51 chairs——#57 sofas——#358 table



executive office, Connecticut General Life Insurance Co., Bloomfield, Conn. [X2]
1508EWV executive table——#2511 table——#2551 chair——#2552 settee

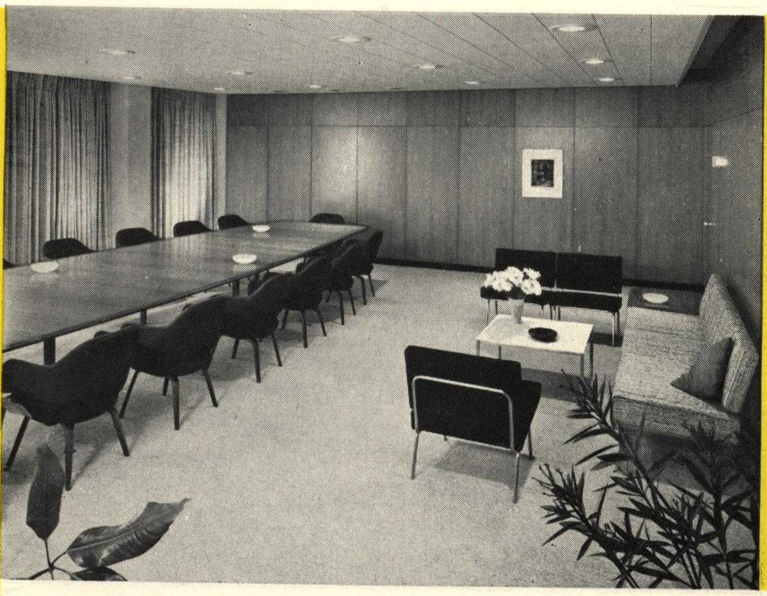


executive office, Columbia Broadcasting System, Inc., NY
#71 chair——#1503E executive desk

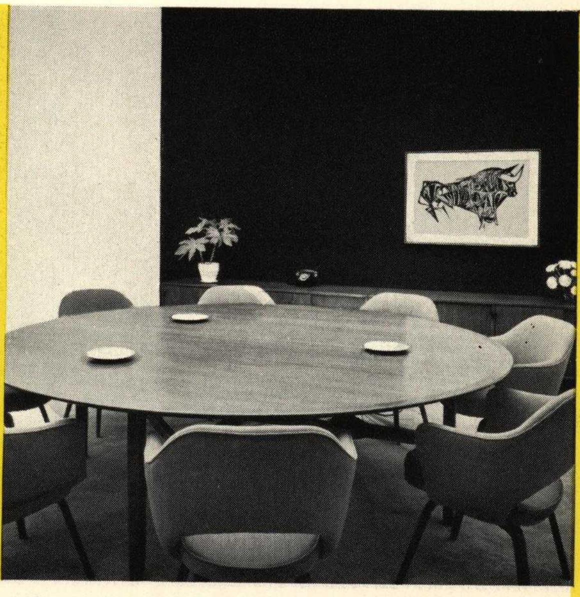


general office, Daimler Benz of N. America, Inc., NY
#1543GP——#1544GP with low partitions

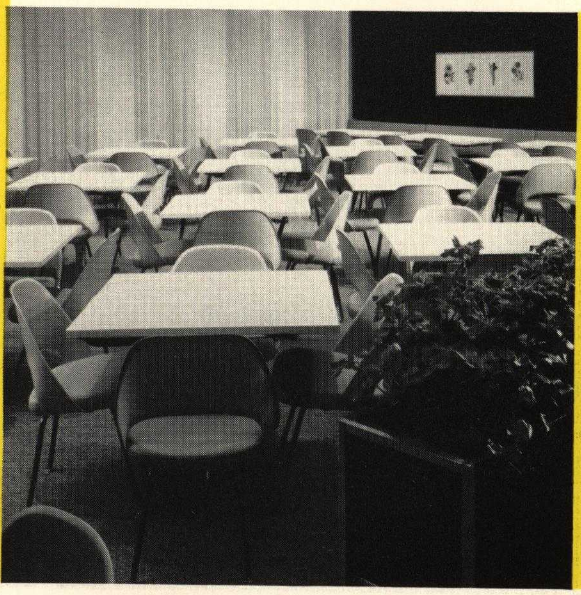
[X1] Charles Goodman, architect
[X2] Skidmore, Owings & Merrill, architects
[X3] Kuehne, Brooks & Barr, architects
[X4] Kenneth Franzheim, architect
[X5] Carson and Lundin, architects
[X6] Bolton and Barnstone, architects



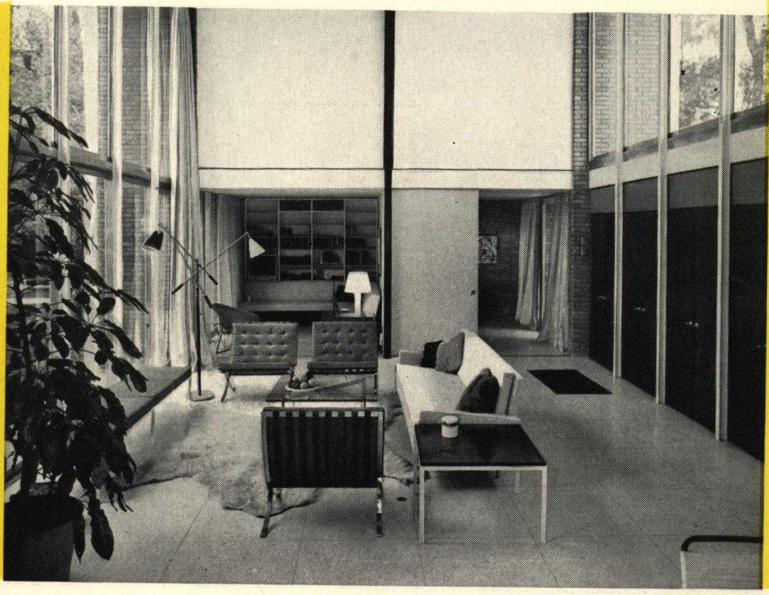
conference room, American National Bank, Austin, Tex. [X3]
special conference table—#575 sofa—#308 table—#31 chairs



conference room, Bank of the Southwest, Houston, Tex. [X4]
#71 chairs—conference table, special design

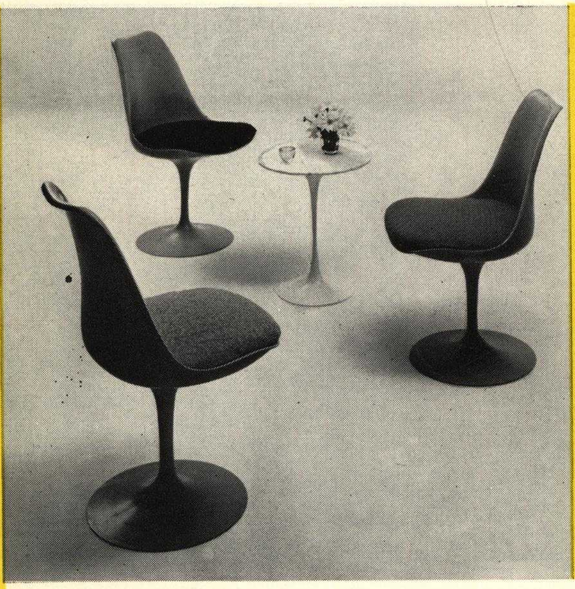


cafeteria, Deering Milliken & Co., Inc., NY [X5]
#72PSB chairs—#109 tables

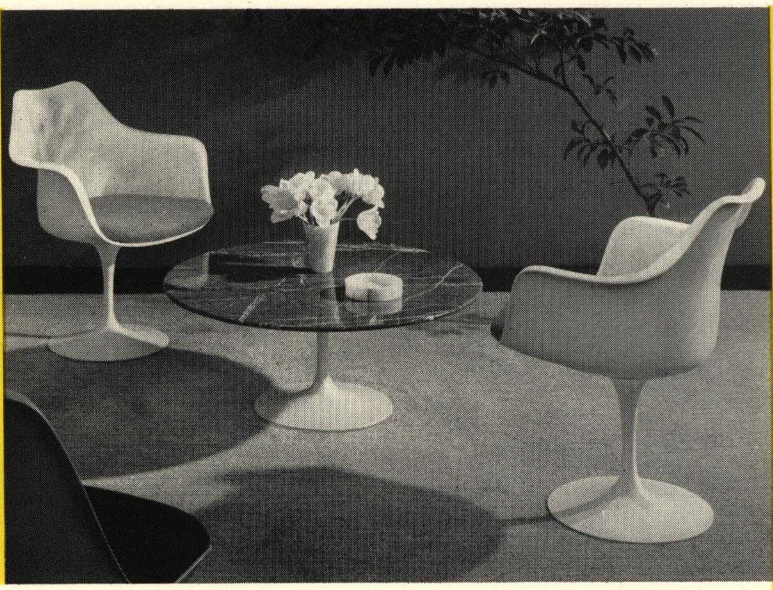


living room, Gordon House, Houston, Tex. [X6]
#250 chairs—#26 sofa—#305 table

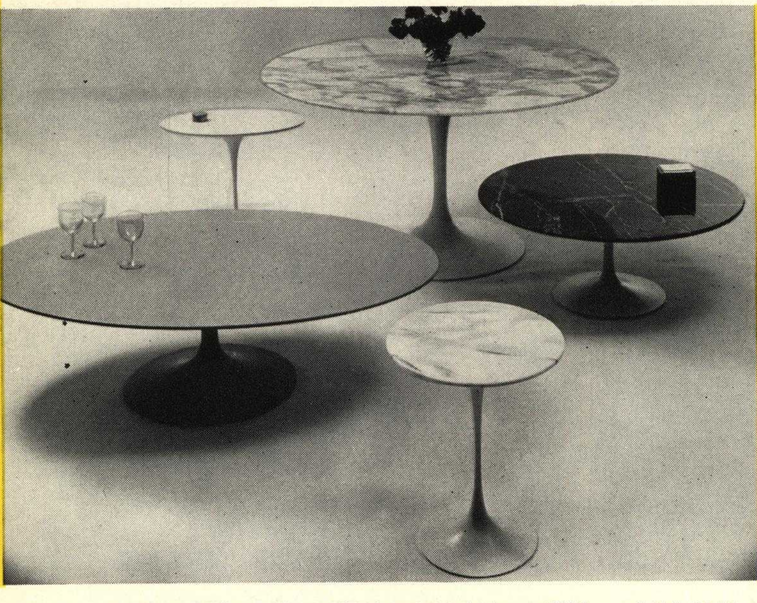
Knoll designers of international reputation employ their imagination and skill in applying new principles and scientific techniques to furniture making. These methods are reflected in the high quality of craftsmanship in each Knoll piece.



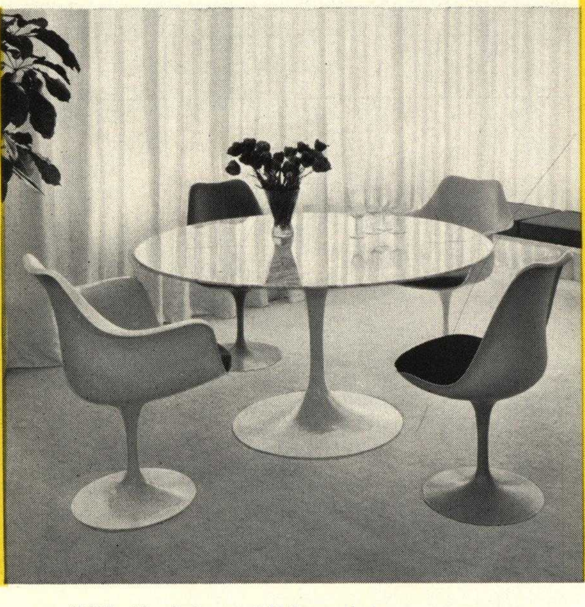
#151 side chairs, available with or without swivel
Eero Saarinen design



#150 arm chairs, available with or without swivel—#162 round coffee table
Eero Saarinen design



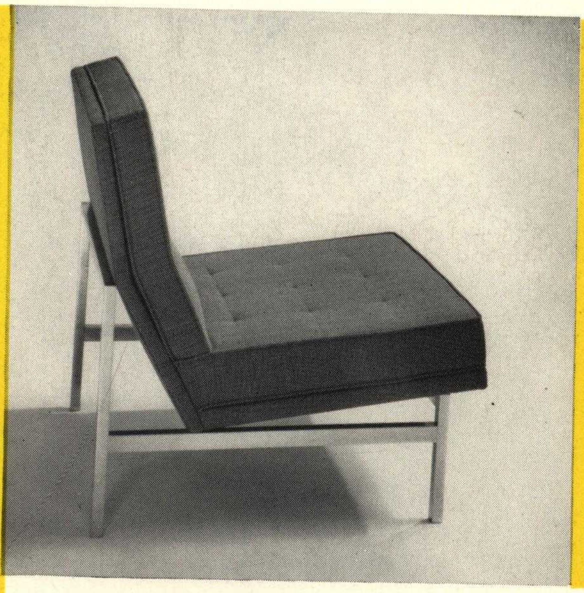
#163 oval coffee table—#161 oval side table—#164 round dining table
#160 round side table—#162 round coffee table—Eero Saarinen design



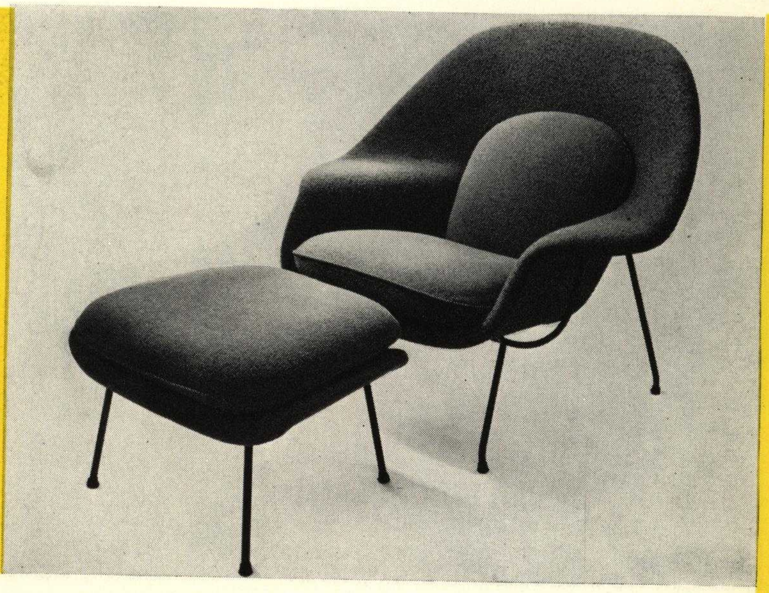
#151 side chairs—#150 arm chairs
#164 round dining table—Eero Saarinen design

Eero Saarinen has simplified space through the elimination of legs. In these new pieces support and seating have become a harmonious, organic whole. Bases are made of cast aluminum; seats are molded plastic shells.

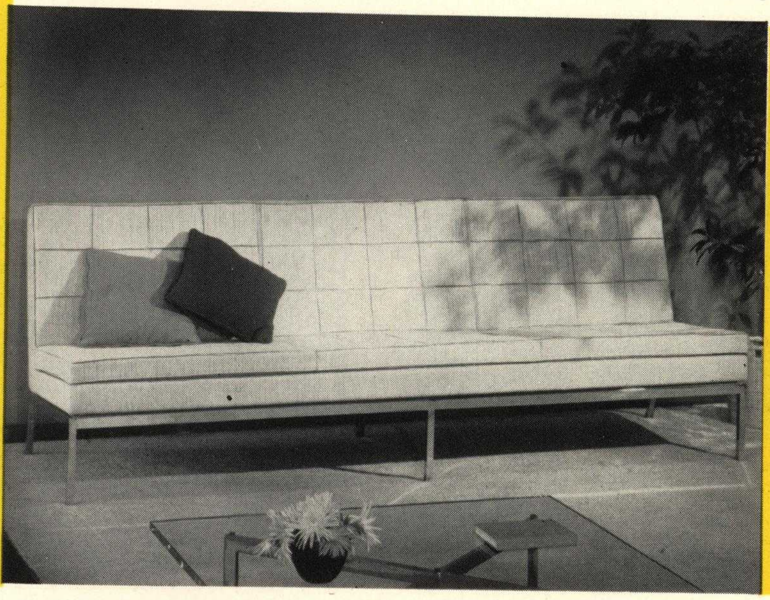
Knoll chairs, sofas



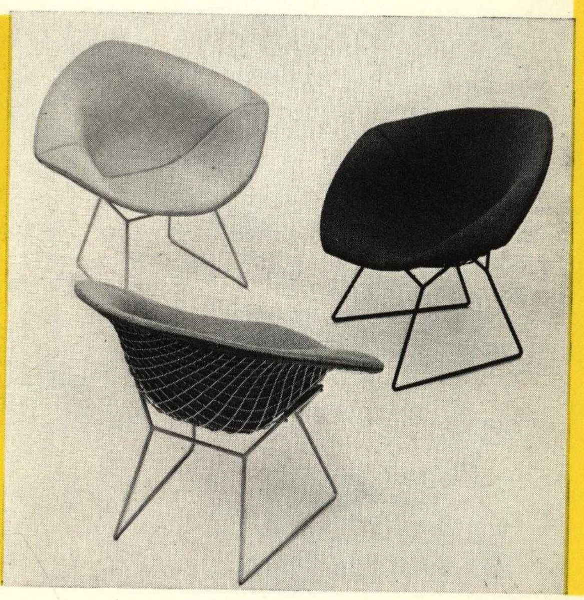
#2551 lounge chair
Florence Knoll design



#70 chair—#74 ottoman
Eero Saarinen design

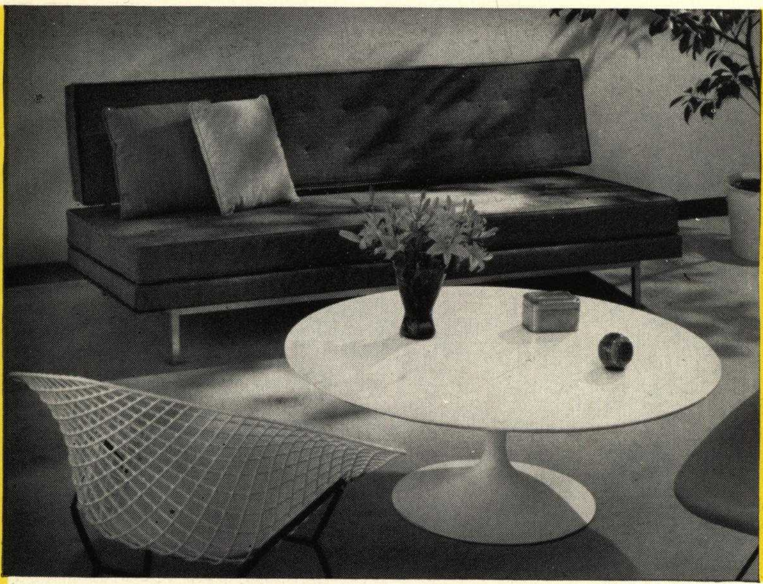


#67 sofa
Florence Knoll design

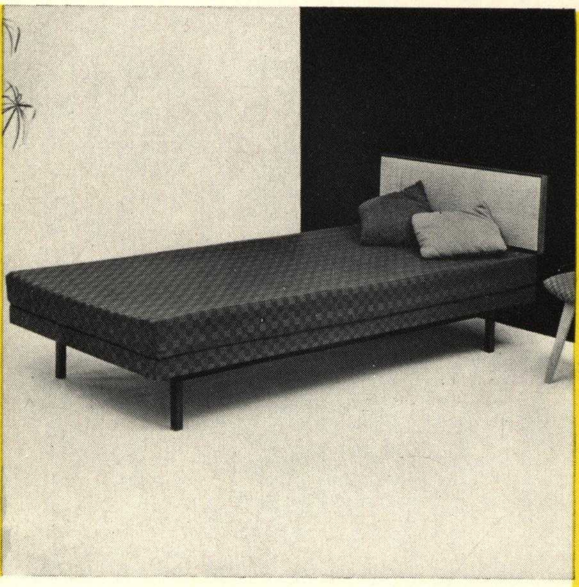


#421 small diamond chairs
Harry Bertoia design

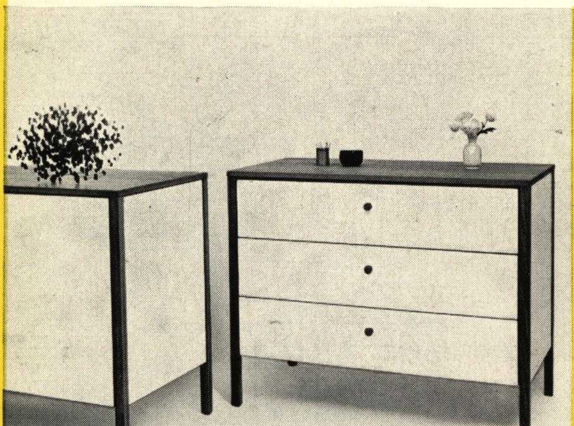
Knoll designers give special thought to the use of space, in providing furniture that is flexible in use and arrangement, and places no limitation on adaptability. Proportion, color, texture and the honest use of materials have created a new form of beauty in today's interior.



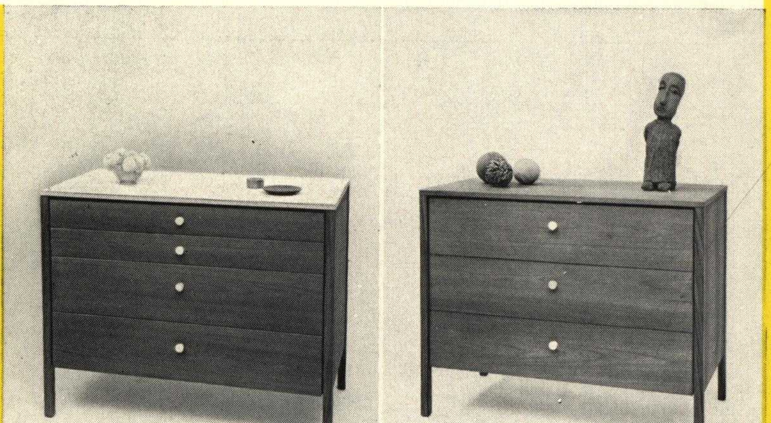
#703 sofa-bed, Richard Schultz design—#421-3N chair, Harry Bertoia design—#166F coffee table, Eero Saarinen design



#721H bed
Richard Schultz design

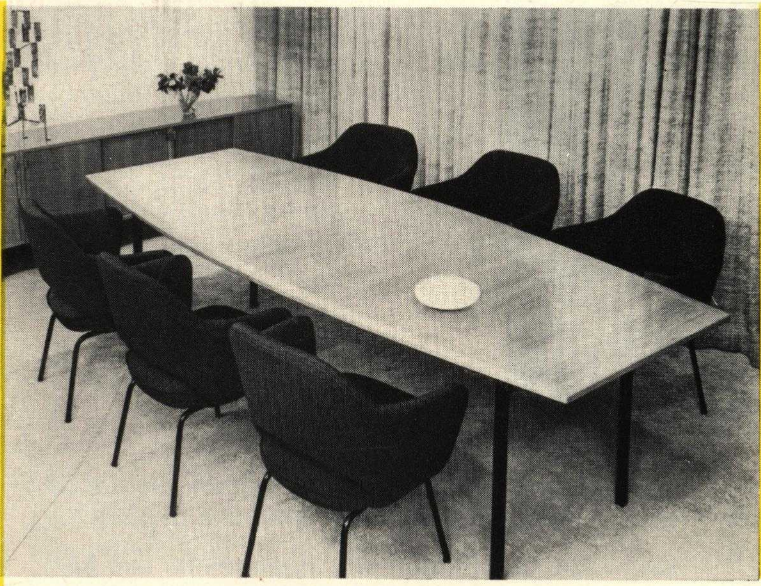


#225-2 chest
Knoll Planning Unit design

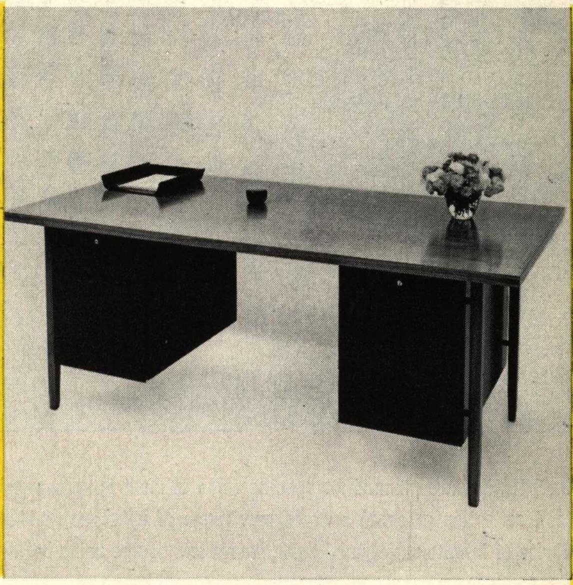


left to right:—#226-1—225-3 chests
Knoll Planning Unit design

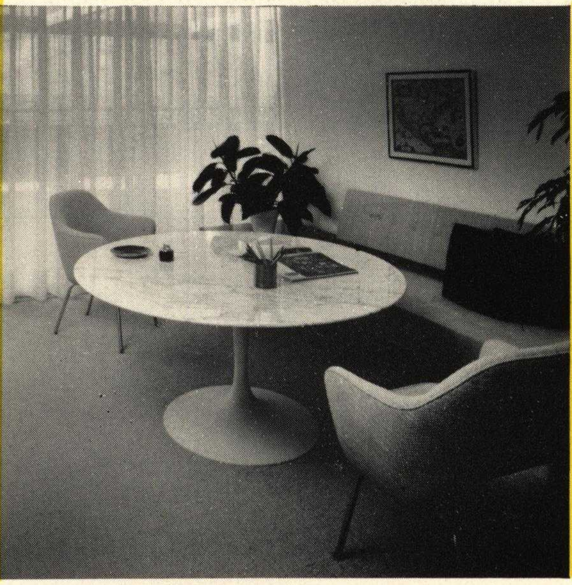
Knoll tables, chests



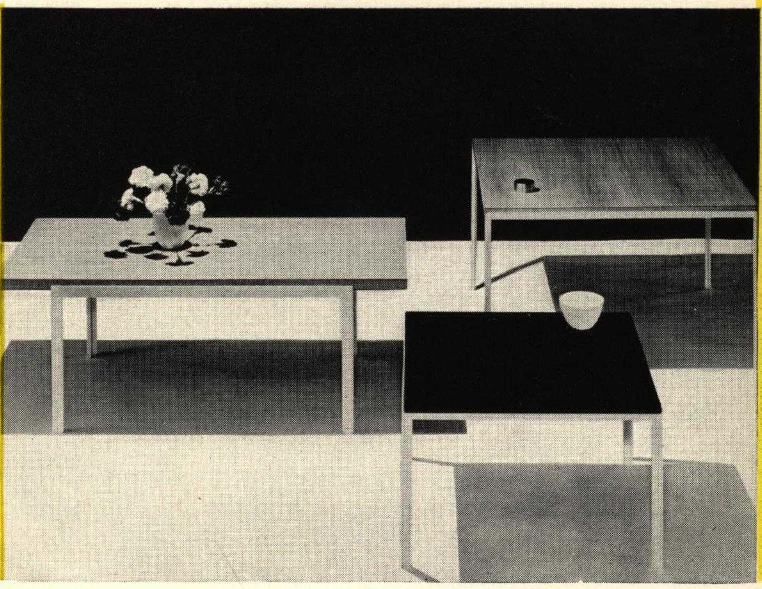
#580 conference table—#71USB chairs—#541 cabinets
Knoll Planning Unit design



#3503EWR executive desk
Florence Knoll design



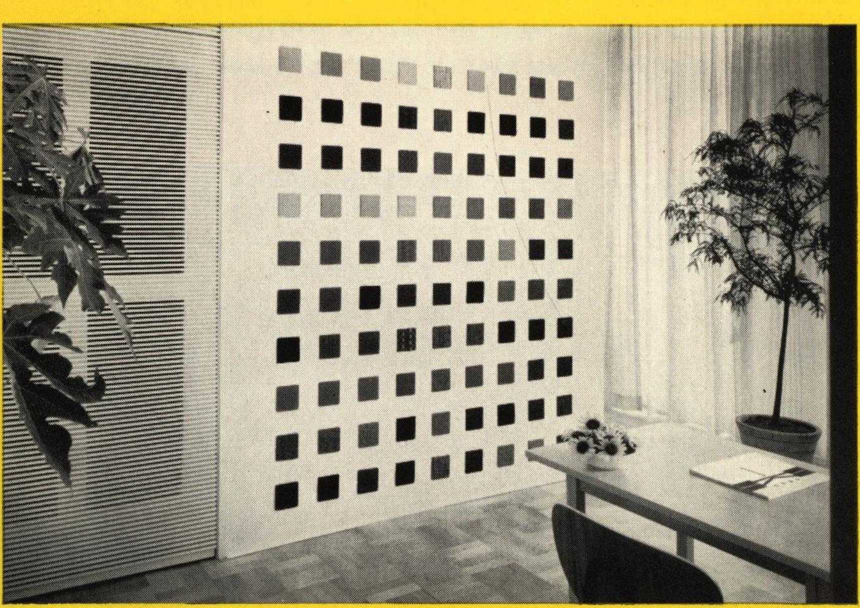
#173M table, #71USB chairs. Eero Saarinen design—#575 sofa, Florence Knoll design



#306—#304—#305 structural T tables
Florence Knoll design

d

Knoll textiles



Fabric wall, Knoll showroom
Dallas, Texas

Knoll textiles are planned for specific roles to meet specific needs. The Knoll collection presents a whole new range of upholstery and drapery fabrics of infinite variety and color, weave and design using both natural and man-made materials, to meet the varying requirements of home, office or institutional use.—Decorator samples on memorandum and swatches are available upon request. Write for Knoll Textile price list.

Knoll Textile Ring—A complete swatch presentation of all fabrics, with the exception of prints, in the Knoll International Textile Collection. Swatches of all fabric additions are mailed to the ring holders, ensuring the usefulness of the Knoll Textile Ring as a permanent and up to date index of the Knoll Textile collection.—[The purchase price of $10.00 will be refunded against aggregate orders of $500.00 in cut yardage.]

Knoll Fabric Wheel—Knoll Print Package—The Knoll Fabric Wheel is a permanent display unit of 6" x 6" swatches of all upholstery and multi-purpose Knoll fabrics.—The Knoll Print and Drapery package consists of 1 yard by ⅓ width samples of all Knoll Print and Drapery fabrics. Each sample is flagged to present the complete color range in each fabric.

Please write for descriptive literature giving complete details.

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and available in many countries, on six continents.
Prices vary from country to country.
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for further information.

Write for Knoll Furniture and Textile price lists.

printed in USA

THE LAVERNE FURNITURE

Structural serenity achieved through basic design relationship results in innate dignity and sure taste.

Exquisite craftsmanship—finest calfskin and saddle leathers—precision steel work—carefully selected imported marble.

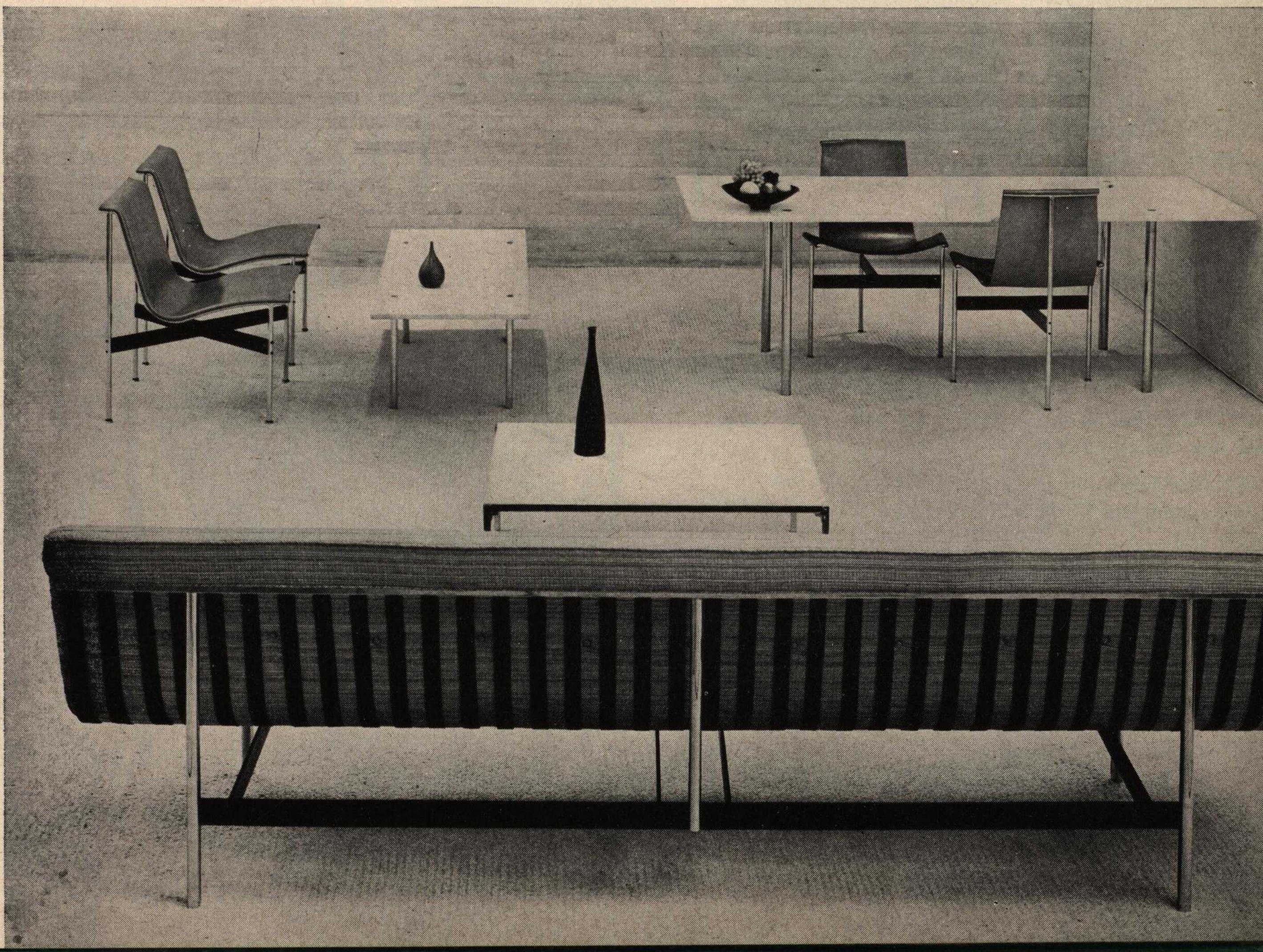
This furniture has received notable recognition and has been exhibited by Art Museums throughout the United States and abroad.

Test-proven in use by leading architects, interior designers and business organizations, it has attained the status of a classic.

LAVERNE FABRIC AND WALLCOVERING a distinctive and original group of coordinated textiles and wall treatments.

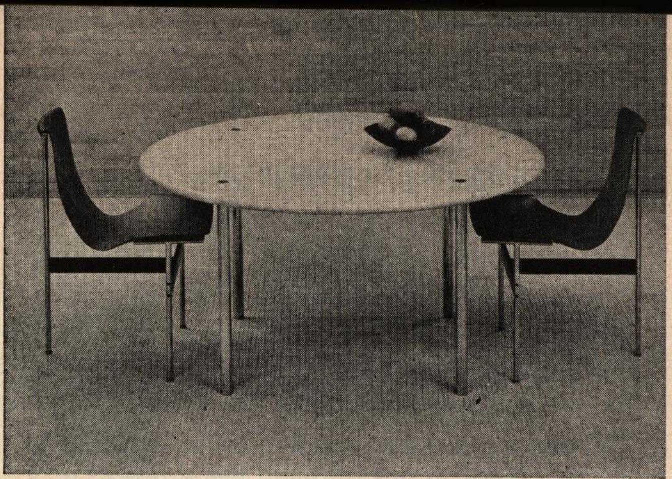
Designs available on every type of fabric for any required use. Wallcoverings—plastic, fabric or washable wallpaper.

LAVERNE



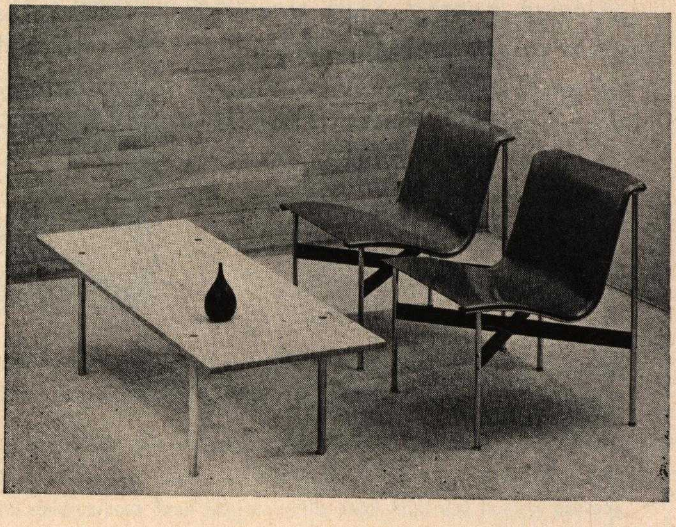
8/M

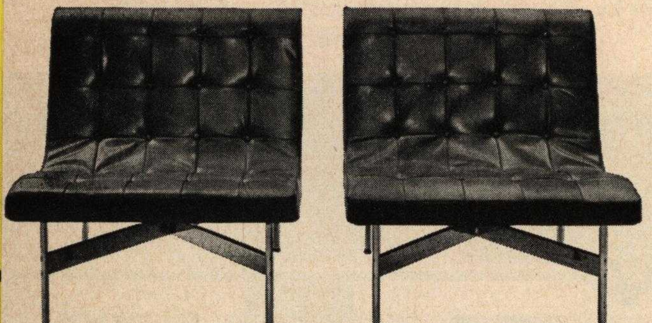
3/LC



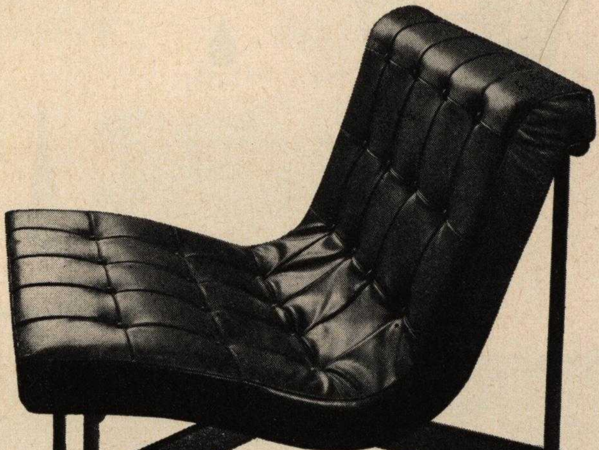
2/M

1/LC





5/LC



8/M Circular dining table, white carrara marble. Chrome plated (C) or brass plated (B) steel legs.

3/LC Dining chair in saddle leather Chrome plated steel legs. Black baked enamel T member.

2/M Coffee table, marble. Travertine (M2) Carrara (M3) Steel legs 1" dia. chrome plated (C) brass plated (B).

1/LC Side Chair in saddle leather. Chrome plated steel legs. Black baked enamel X member.

5/LC Lounge chair calfskin upholstered foam rubber. Chrome plated steel frame. Black steel strapping, or Chrome throughout.

LAVERNE inc. 160 EAST 57 ST. NEW YORK 22

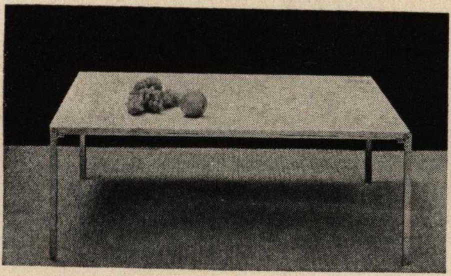
6/M Coffee table, marble. Travertine (M2) or Carrara (M3). Chrome plated steel angle legs.

18/M Circular end table, marble. Travertine (M2) or Carrara (M3). Steel legs 1" dia. Chrome plated (C) or brass plated (B).

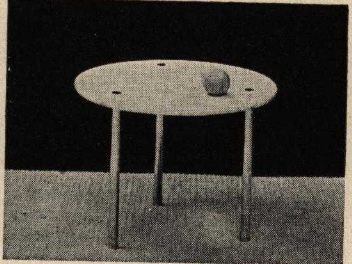
10/M Marble Dining Table. Chrome plated (C) or brass (B) steel legs.

7/LC Sofa, calfskin upholstered foam rubber seat.
Chrome finish throughout.

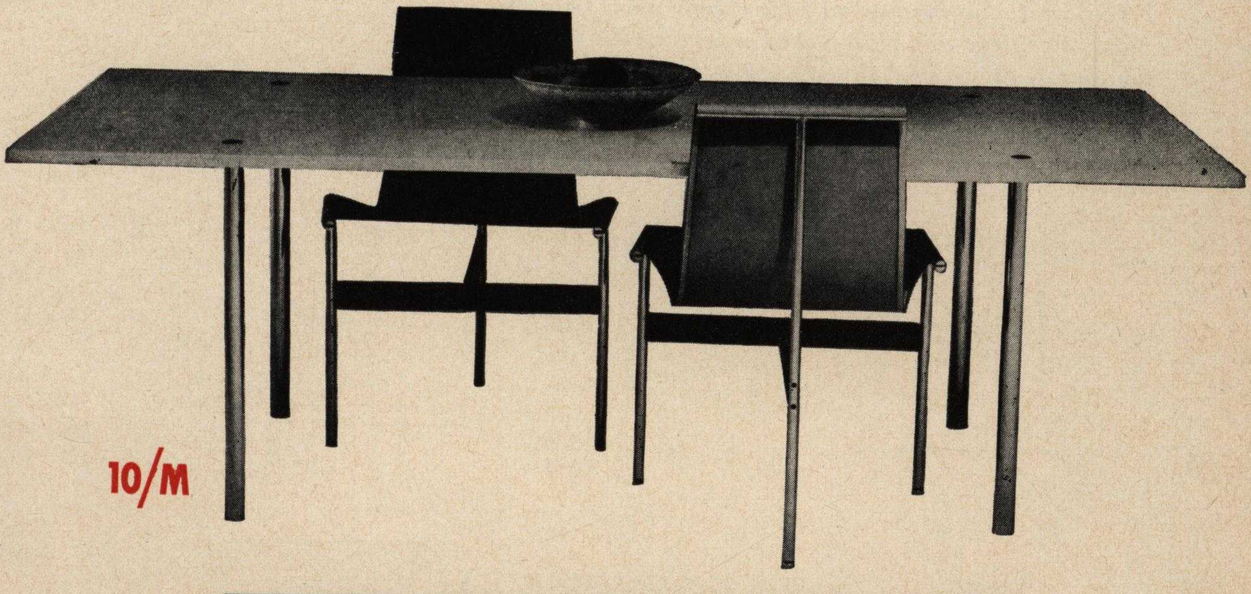
4/G Coffee table, ¾" polished plate glass. Chrome plated steel angle legs.



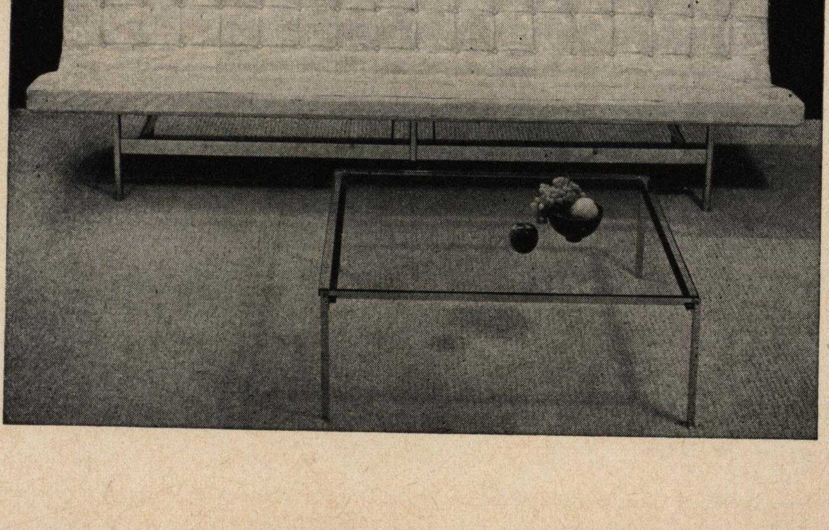
6/M



18/M

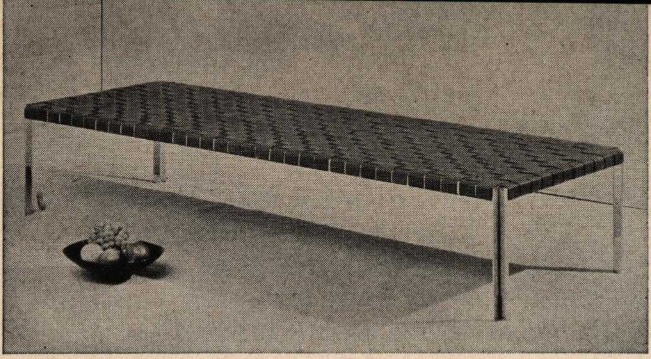


10/M

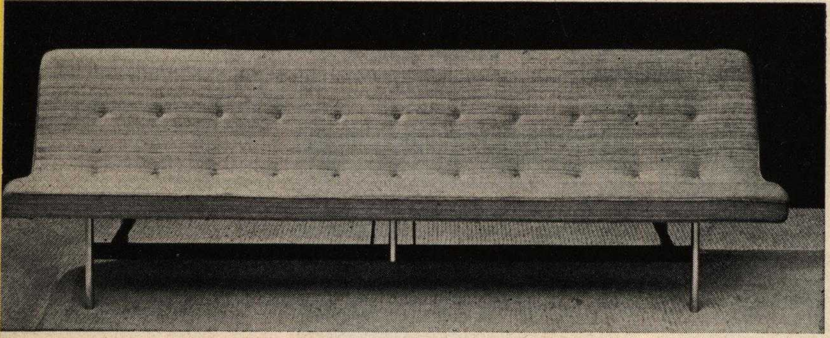


7/LC

4/G



11/LC

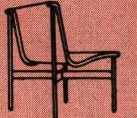
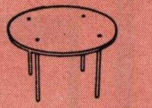
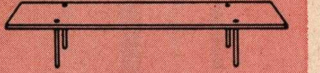
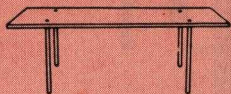
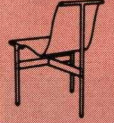
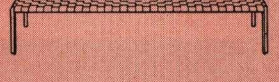
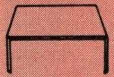
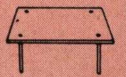
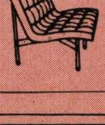
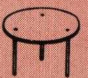
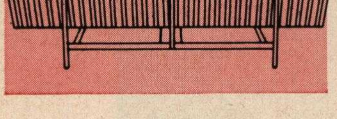
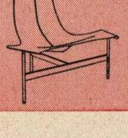


7/FC

11/LC Bench in saddle leather (natural). Chrome plated steel angle legs.

7/FC Sofa fabric upholstered foam rubber seat. Chrome plated steel legs with black baked enamel steel substructure. Black steel strapping. Plus cost of fabric. 9 to 9½ yards depending on width or repeat.

Write for complete catalogue and price list information on professional letterhead.

ITEM	ILLUSTRATION	H	W	D	ITEM	ILLUSTRATION	H	W	D
1/LC		30	23	25	8/M		27	54 dia.	
2/M		16	22	60	10/M 10/T		27 27	36 36	84 84
3/LC		31½	22	22	11/LC (Leather)		14	26½	(Length) 75
4/G 6/M		13 13	31 31	36 36	16/M		16	33	33
5/LC 5/LC (Fabric)		27½ 27½	27½ 27½	27½ 27½	18/M		16	22 dia.	
7/FC 7/FC (Leather)		27½ 27½	27½ 27½	(Length) 99 99	15/LC Conversation Chair		36	40	30

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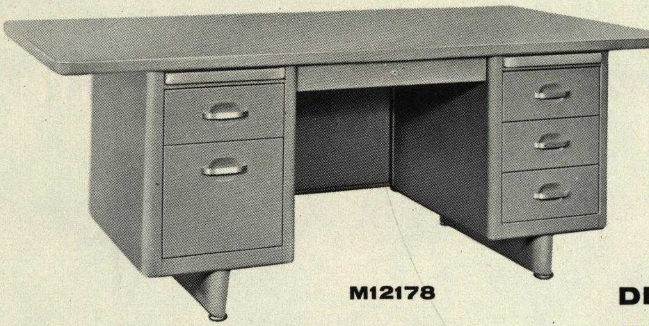
23o
Re

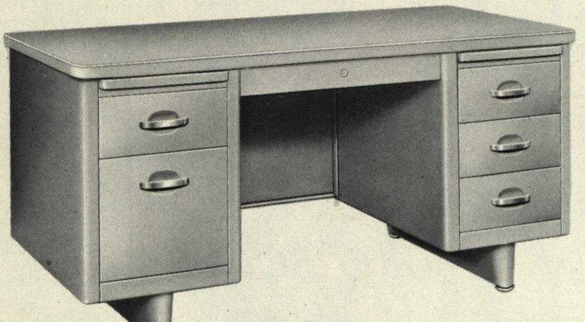
Remington Rand® Office Furniture

desks
chairs
tables
modular furniture
storage cabinets
bookcases

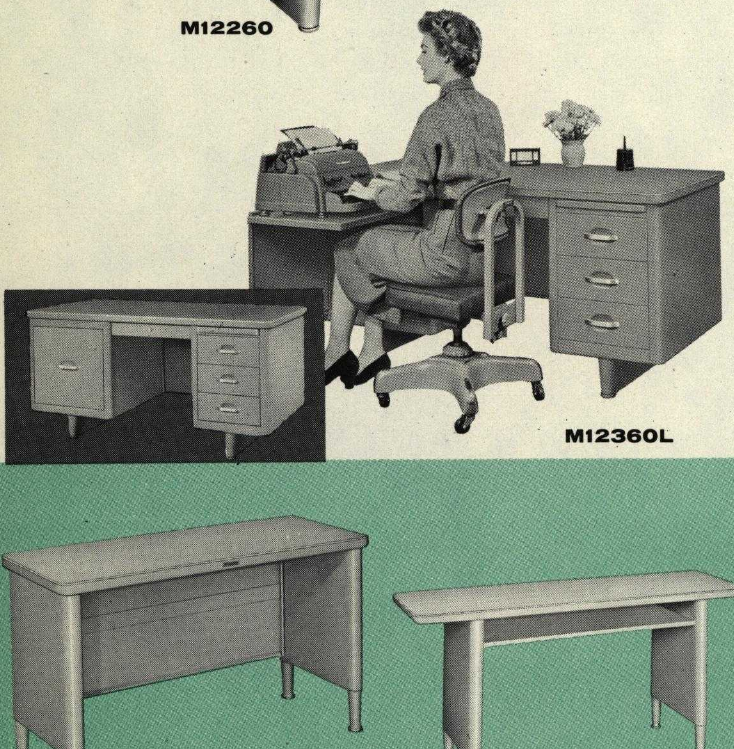
ARISTOCRAT Executive and Clerical Desks



M12178



M12260



M12360L

DESKS

M12178: Executive Desk, 78"x38". Impressive in appearance. Spacious oversize top with 9″ overhang at both ends and rear. Affords comfortable seating and writing space for participants in conference.

Standard drawer arrangement: One file drawer, four box drawers, and center drawer. File drawer can be interchanged with any two box drawers.

M12160: Executive Desk, 60"x36". Same as No. 12178 above, except with 7″ overhang at back only.

M12260: Flat Top Desk, 60"x30". Designed for department heads and general office use; the 30″ depth saves valuable space in the modern office and still provides ample working area.

Standard drawer arrangement: Same as in No. 12178 above.

M12255: Same as No. 12260 above, except size 55″ x 30″. For additional space-saving in office layouts, especially for clerical use.

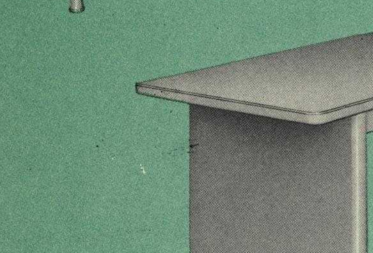
M12360L: Secretarial Desk, 60"x30", with typewriter mechanism in left pedestal.

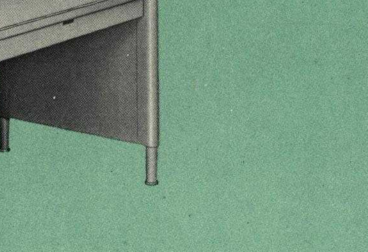
An ideal desk for combining typing and clerical work. Mechanism is equipped with special spring adjustment to equalize tension of spring to weights of different typewriters including electric. Platform locks firmly into door panel to add to the rigidity and reduce vibration.

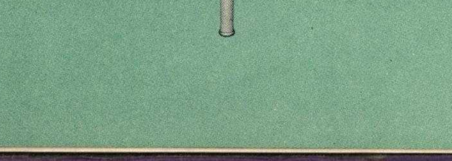
Standard drawer arrangement: Three box drawers in right pedestal with slope pocket stationery tray included in top drawer. Center drawer has utility tray and lock that controls all drawers.

M12360R: Same as above, with typewriter platform in right pedestal.

Ask for the Remington Rand "Dream Office" Catalog – FF211.







TABLES

Tables range in size from the Modular 45″ x 19¾″ to the conference table 120″ x 42″. Shown below are a few of the sizes.

M12060 – 60″ long, 30″ wide, 29″ high.

MODULAR TABLES

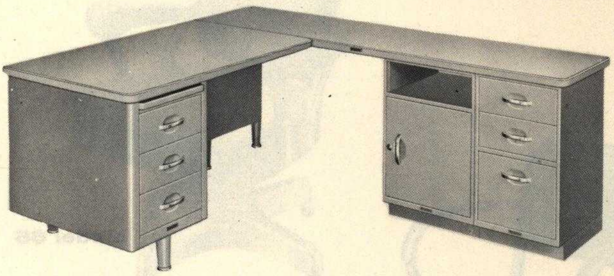
(Ordered by individual part Cat. No.)

Top – T20-45
End Panels (2) – EP18-26
Back Panel – BP39
45⅜″ long, 19¾″ wide, 26″ high

Top – T20-61
End Panels (2) – EP18-29
Shelf – S39
61¼″ long, 19¾″ wide, 29″ high
6-1/16″ overhang
4″ opening above shelf

ARISTOCRAT Modular Furniture

A few of the many combinations that are possible with this functional group of space-saving components. Ask for the ARISTOCRAT Modular Furniture Catalog – FF223.



DESKS

MW45309R Wing Desk 45"x30" (Cat. No. includes C2 Clamp and CT Pencil Tray)

Modular Top T20-78, End Panel EP18-29
Storage Cabinet 1918D34-L Legal File 19183-L

LB M127601-L Desk Top – T20-45 Clamp – C5
19153-L File Cabinet

LB M127601-L – Same Desk with Top – T-20-45, Clamp – C5, End Panel – EP18-26.

ARISTOCRAT BOOKCASES

2997D – All steel construction, smooth baked enamel finish throughout. Shelves adjustable on 1" centers. Made in two heights.

2997D illustrated: Has three adjustable shelves and sliding glass doors.

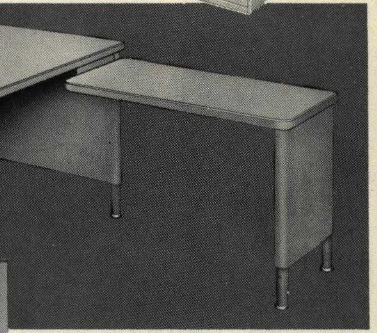
Outside: 52⅜" high, 37½" wide, 15" deep.
Inside clear: 45⅝" high, 34" wide, 13¼" deep.

2997 – Same as No. 2997D above, without glass doors.

2996D – Two adjustable shelves, sliding glass doors.

Outside: 42" high, 37½" wide, 15" deep.
Inside clear: 35¼" high, 34" wide, 13¼" deep.

2996 – Same as No. 2996D above, without glass doors.



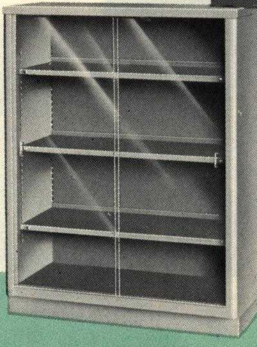
STORAGE CABINETS

A wide selection is offered including Wardrobe Cabinets, Storage Cabinets and Combination Wardrobe-Storage Cabinets. All three styles are available in 36" width, 78" height and either 18" or 24" depth.

Single door cabinets and single door Wardrobe Cabinets are also available in 19" width, 66" height, 18" or 24" depth.

Counter-height cabinets 42" high, 36" wide are available either 18" or 24" depth.

Ask for Storage Cabinet Folder – FF234.



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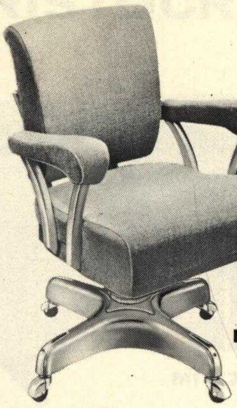
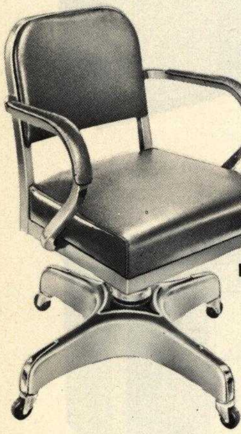
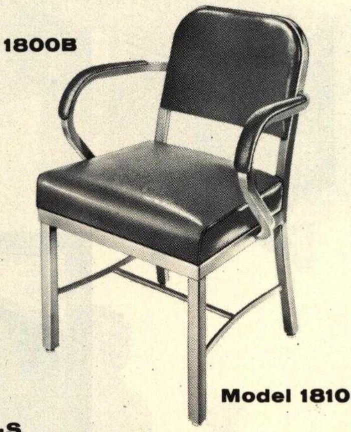


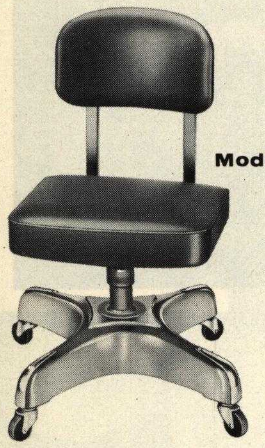
Model 65



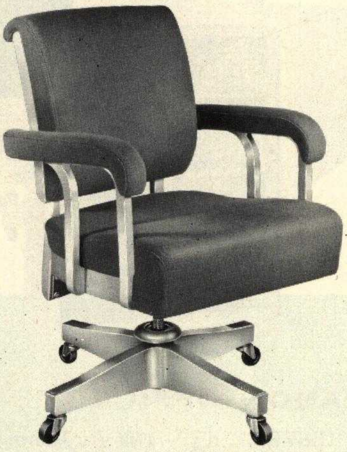
Model 1800B



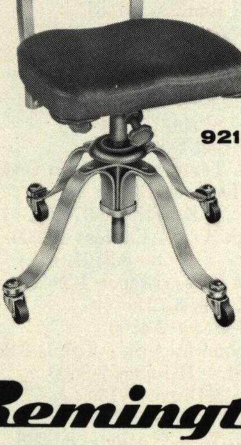
Model 1810B



Model 57-S



9507SB Executive Chair



9219 Chair

CHAIRS — STEEL

Illustrated are a few of the many chair designs available from the Remington Rand Steel Chair Group. There is also a wide selection of finish colors and upholstery materials. Ask for the Remington Rand Steel Chair Catalog — FF229.

Model 65 — Executive Posture Chair. A fine posture chair with precise adjustments to fit it exactly to you. Has classic big-chair beauty and luxury.

Model 1800B — Fills the need for quality steel office chairs at economy prices. Heavy gauge cold-rolled square steel tubing is used in the arc-welded frame and yet prices are only slightly more than the cheapest chairs with less permanent construction. The 1800B line exceeds the severe strength tests of the General Services Administration.

Model 1810B — Side Armchair

Model 57-S — Deep, molded foam rubber seat cushion gives superb comfort. Seat height adjusts from 17½ to 21¾ inches. The heavily embossed steel seat pan provides extra strength and finished appearance. Comfortable formed steel back is padded with foam rubber. Back support has spring action with adjustable tension. Base has sturdy, one-piece formed steel construction. Ball-bearing casters have 2-inch soft rubber tread.

Specifications.
Seat: 16¼″ wide, 14″ deep, 3½″ thick.
Back: 13½″ wide, 8¾″ high, 1″ thick.

CHAIRS — ALUMINUM

Illustrated are a few of the many chair designs available from the Remington Rand Aluminum Chair Group. The satin aluminum finish has a surface hardness that resists scratches and marring. A wide selection of attractive upholstery materials is available. Ask for the Remington Rand Chair Catalog FF203.1.

Zephyr® Aluminum Posture Chairs

For the President or Top Executive — The guiding head of a business is often at his desk endless hours. His is about the toughest job in all business. Here is a chair that reflects a specialized requirement — the utmost in comfort, the final word in styling, a distinguished result from the viewpoint of appearance.

9507SB Executive Chair	Inches
Height of top of back from seat	18-19
Height of seat from floor	18¾-20⅝
Width of seat	21½
Depth of seat	20½
Width between arms	20

Shown upholstered in Bedford Cord.
Deep molded foam rubber seat and back cushion.

For Secretaries

Cushioner® Lifetime Seating Luxury—"Give" is built in, in the new, sleek, handsomely designed spring base. Legs are made of tempered spring steel. These act as shock absorbers as they provide a firm yet gently yielding action. In addition, all four legs of the spring base automatically adjust to uneven floors — a condition often existing even in modern buildings. These features are exclusive with Remington Rand Cushioner Chairs.

This chair, for secretaries, typists and office machine operators, recognizes the great difference in seating requirements for those who work with machines and those who do not. Its many adjustable features are especially designed for the woman worker. The correct posture it promotes is a great factor in building general productiveness.

9219 Chair	Inches
Height of top of back from seat	12-15¼
Size of back rest	11¾-7
Height of seat from floor	17⅛-20⅛
Width of seat	15½
Depth of seat	14

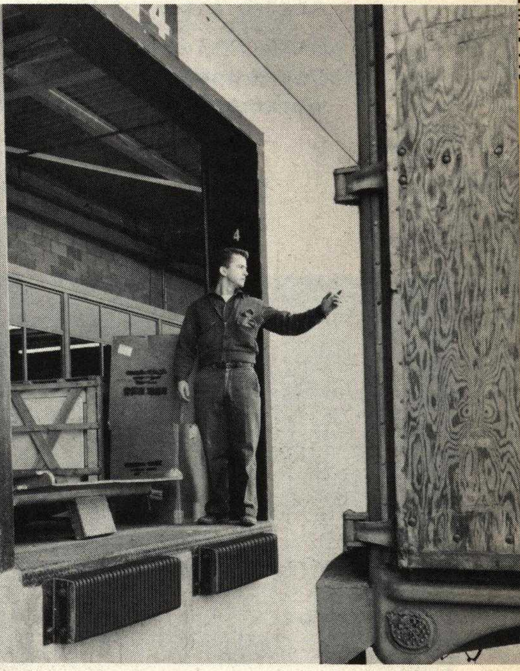
Shown upholstered in Plastic-Coated Fabric over foam rubber.

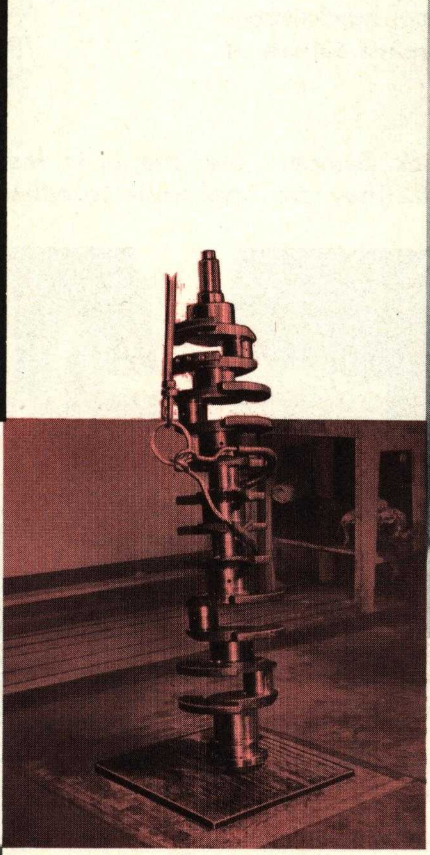
Remington Rand
DIVISION OF SPERRY RAND CORPORATION
315 PARK AVENUE SOUTH, NEW YORK 10, N.Y.   Canadian Head Office · Toronto 1, Ontario

23P
Du

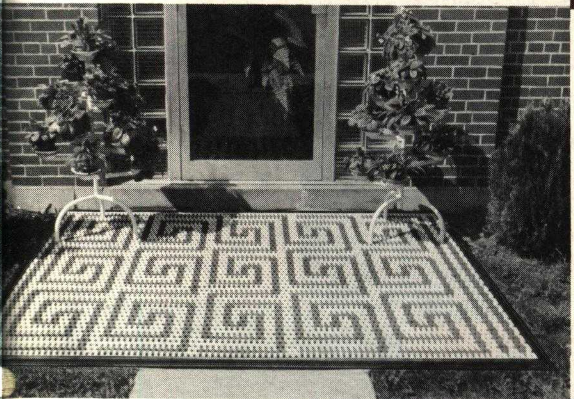
DURABLE

LOADING DOCK BUMPERS





FLOOR PADS



FLOOR MATS

DURABLE MAT COMPANY

NORWALK, OHIO
SANTA CLARA, CALIF.

DURABLE MAT COMPANY.....

loading dock bumpers

Durable Loading-Dock Bumpers should be a functional part of all institution and industrial building planning.

- Modern in design and application.
- Applicable to any type construction.
- Made of resilient rubber and cord for protection of docks and trucks.
- Eliminate dock repair.
- Absorb shock of impact.
- Have long life under normal hard usage.
- **Guaranteed five years against failure of workmanship or material.**

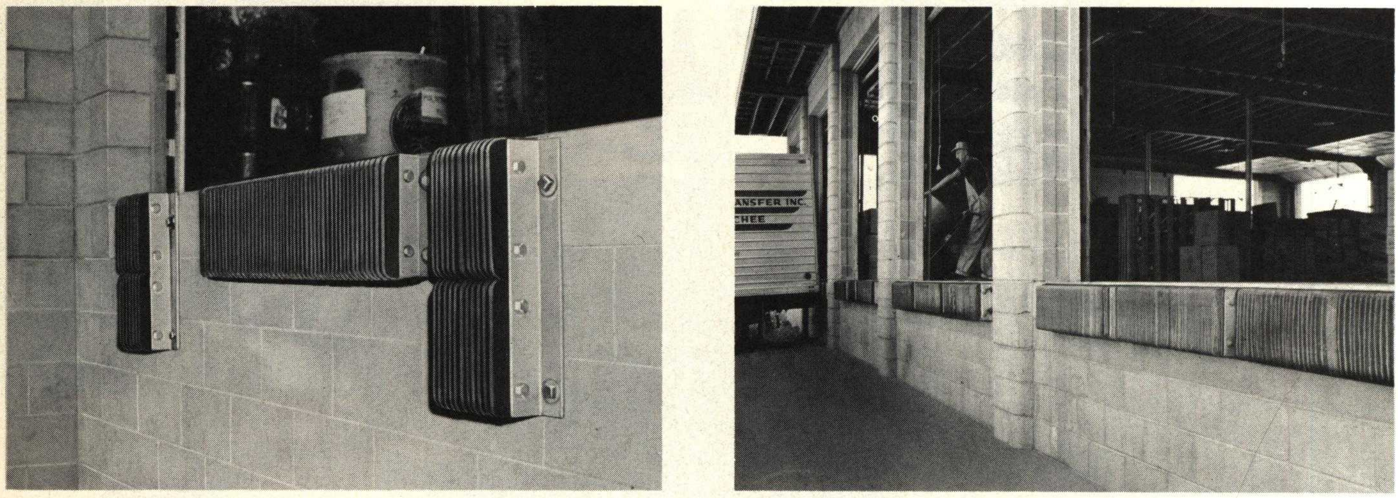
Durable Loading Dock Bumpers save their entire cost in a short time.

A West Coast Truck Line is using Durable Loading Dock Bumpers as standard equipment in *seven* terminals.

- Original installation in 1950.
- Repeat orders—Six additional terminals equipped with a total of 306 bumpers.
- Complete satisfaction—No repairs—no replacements—no truck or freight damage—maintenance costs cut.

Easy to install

Durable Loading Dock Bumpers are simple to install on any type dock. (See drawings at the right). They are applicable to either surface or recess mounting.

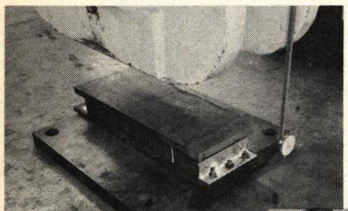


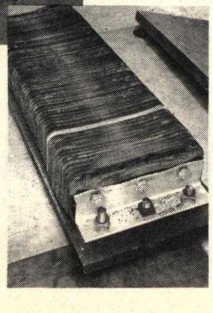
Installations of vertical and horizontal bumpers are effecting substantial savings for dock owners, truck owners, industrial plants, and shippers.

TESTS PROVE DURABLE LOADING DOCK BUMPERS ARE BUILT TO TAKE IT . . .

they absorb tremendous shock and pressure

Destructive tests were performed on Durable Loading Dock Bumpers in the Technical Center of National Malleable and Steel Castings Company, Cleveland, Ohio.

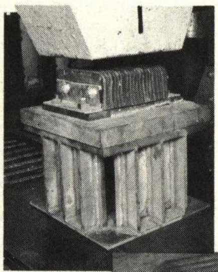




STATIC FORCE TEST

1. A 4½" x 12" x 36" bumper before test.
2. The same bumper after 650,000 pounds of static pressure was applied. An energy input of 28,000 foot pounds.

These tests show that Durable Loading Dock Bumpers will absorb up to 81% of any impact force.
That's **real** protection for docks, trucks, and fragile freight.

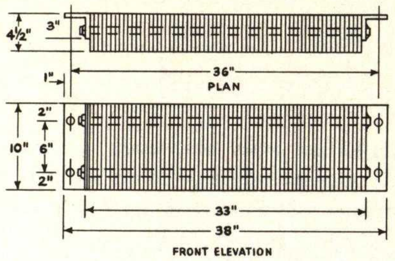


DYNAMIC FORCE TEST

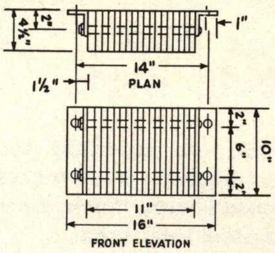
1. A 4½" x 10" x 14" bumper before test.
2. The same bumper after a dynamic force of 3,780 foot pounds was applied in free fall.

bumper details

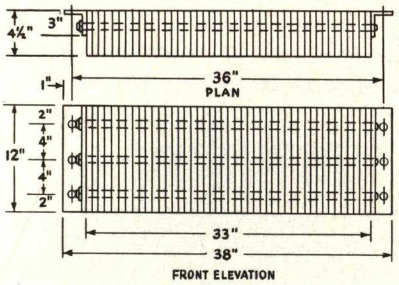
10" x 36" type – Model B410



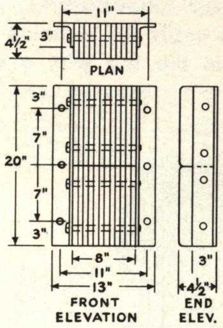
10" x 14" type – Model B414



12" x 36" type – Model B412



20" x 11" vertical type – Model VB420



Vertical bumpers
are also available
in 24" depth **(VB424)**
and 36" depth **(VB436)**.

standard sizes

sizes	rubber surface	anchor bolt hole center dimensions	overall length	weight	number of ¾" rods	angle sizes (¼")
4½"x10"x14"	10"x11"	14"	16"	30#	2	3"x2½"x10"
4½"x10"x36"	10"x33"	36"	38"	75#	2	3"x2½"x10"
4½"x12"x36"	12"x33"	36"	38"	90#	3	3"x2½"x12"
4½"x20"x11"	20"x 8"	11"	13"	46#	4	3"x2½"x20"

Bumpers with special mounting hole centers (lengths) may be specified and will be fabricated, but it is suggested that they do not exceed 36". Special designs for special applications can be produced.

architects bumper specifications

Furnish Rubber Dock Bumpers as manufactured by Durable Mat Company, Norwalk, Ohio and Santa Clara, California.

Resilient rubber material of bumpers must be Rubberized-Fabric Truck Tires cut to uniform size pads, either 4½" x 10" or 4½" x 12", and punched to receive ¾" supporting rods.

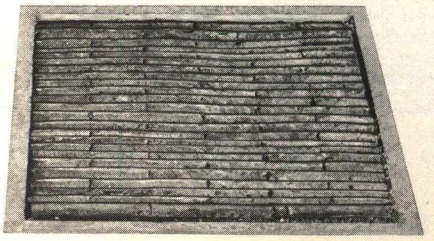
All Bumpers must be 4½" thick (stand-out from dock) and closed with two 3" x 2½" x ¼" structural angles under approximately 1,500 pounds pressure. Angles must be welded to ¾" rods at one end and closed with threaded rod and nut at the other end. Anchor leg of angle must extend 2½" beyond rubber surface at either end and contain either two or three 13/16" anchor bolt holes. (See drawings above).

satisfied users

A & P
Adley Express Co.
Allis-Chalmers
Aluminum Co. of America
American Airlines
Appleton Coated Paper Co.
C & O Railroad Co.
Caterpillar Tractor Co.
Chicago Terminal Warehouse
Chrysler Corporation
Colgate Palmolive Co.
Container Corp.
Detroit News
E.I. duPont deNemours
Esso Standard Oil Co.
General Electric Co.
General Foods Corp.
H. J. Heinz Co.
Hotpoint Co.
International Harvester
Kraft Foods Co.
Kroger Co.
Loblaw's Inc.
Montgomery Ward & Co.
Motorola, Inc.
New York Central
Nickel Plate Railroad
Ohio Oil Co.
Pennsylvania Railroad
Pittsburgh Plate Glass
Pratt & Whitney Aircraft
Radio Corp. of America
Red Star Express Lines
Safeway Stores, Inc.
Sears Roebuck & Co.
The Stanley Works
Swift & Co.
Sylvania Electric
Transamerican Freight
U.S. Gypsum Co.
U.S. Parcel Post Building
Western Electric Corp.
Western Express Co.

floor pads

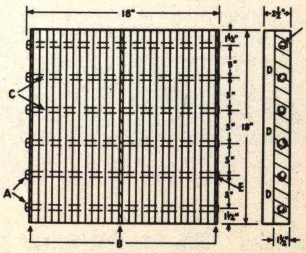
24" x 24" x 2½" and 18" x 18" x 2½"



floor pad specifications

Durable shock resisting Floor Pads permit removal of heavy finished parts from machines without damage to parts or floors. Floor Pads are made of Rubberized-Fabric Truck Tires cut to uniform size pads 2½" x 3" or 2½" x 6" and punched to receive ½" rods. Pads are held by three 1½" x ¼" plates—two on the sides and one through the center—and supported with ½" rods, welded to plate at one end and closed with nuts at the other end.

floor pad details



DURABLE MATS.....

There are two types of Durable mats, each designed for a distinctive type of service

rubberized-fabric mats

Durable rubberized-fabric mats are especially recommended for the hard usage required at entrances of public buildings, stores, apartment houses, hotels, theatres, schools, industries, and in industrial work areas.

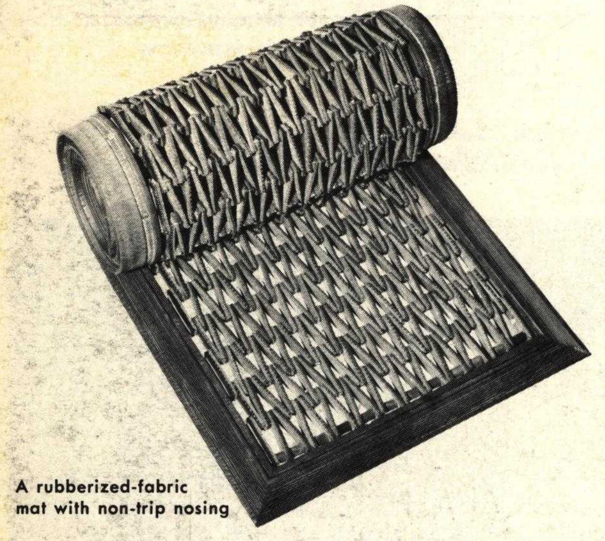
Durable rubberized-fabric mats thoroughly clean shoes, provide non-slip footing in wet or dry weather, reduce accidents and liability risks, and relieve worker fatigue in production areas. They roll easily for cleaning underneath or can be cleaned from the top with a vacuum cleaner.

rubberlink mats

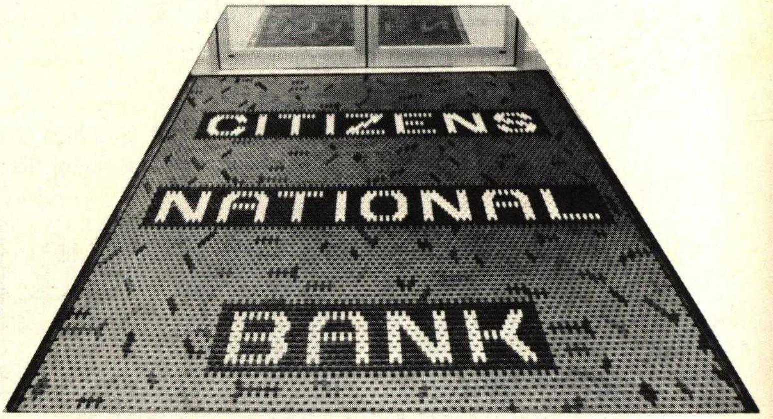
Durable rubberlink mats are made of extruded rubber blocks in a complete selection of colors to harmonize with the decorations of entrances and lobbies of modern buildings. They trap dirt under the mat from moving traffic and thus protect fine floors throughout the building.

Names, letters, or trade marks can be included in the design.

All Durable mats can be made in any length and in widths up to 8′ to fit any specifications.



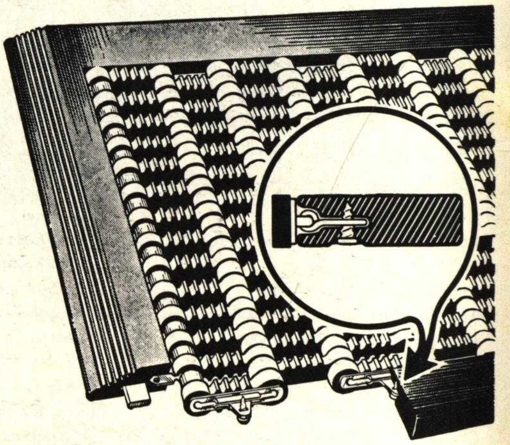
A rubberized-fabric mat with non-trip nosing



A rubberlink mat in the lobby of a bank building

mat nosing

Beveled or square nosing can be supplied on all mats. Square nosing, between two mats and in recesses, insures flush joints and correct fit. Beveled, non-trip nosing also improves mat appearance and is recommended for all surface mats. Nosing is available in black only. Nosings are securely attached with special clips and sheet metal screws and reinforced with spring steel bar parallel to the wires of the mat. Corners are mitered, vulcanized, and steel reinforced.



mat specifications for architects.....

Durable Rubberized-fabric mats

Furnish fabric-impregnated rubber mats with links 9/16″ thick x 2½″ overall length, woven in V-shaped construction (or straight weave) on 12-gauge galvanized spring steel wire, 1⅞″ centers. Black 2″ beveled nosing (or 1½″ square nosing), attached to all edges with sheet metal screws and special fasteners. Nosing, parallel to the wires of the mat, to be reinforced with spring steel bar ⅛″ x ½″, and all corners with corner irons.

Durable Rubberlink mats in colors

Furnish extruded, all-rubber mats with links ½″ thick x ½″ wide x 1⅞″ overall length woven on 12 gauge high carbon, oil tempered wires, 1⅜″ centers. Black 2″ beveled nosing (or 1½″ square nosing), attached to all edges with sheet metal screws and special fasteners. Nosings, parallel to the wires of the mat, to be reinforced with spring steel bar ⅛″ x ½″, and all corners with corner irons. Colors and design in accordance with detail sketch.

Durable MAT COMPANY

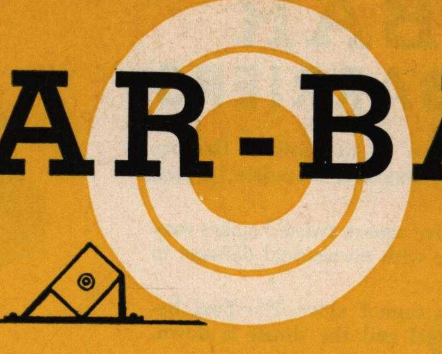
75 N. Pleasant St., Norwalk, Ohio • 755 Kifer Road, Santa Clara, Calif.

Litho in U.S.A.

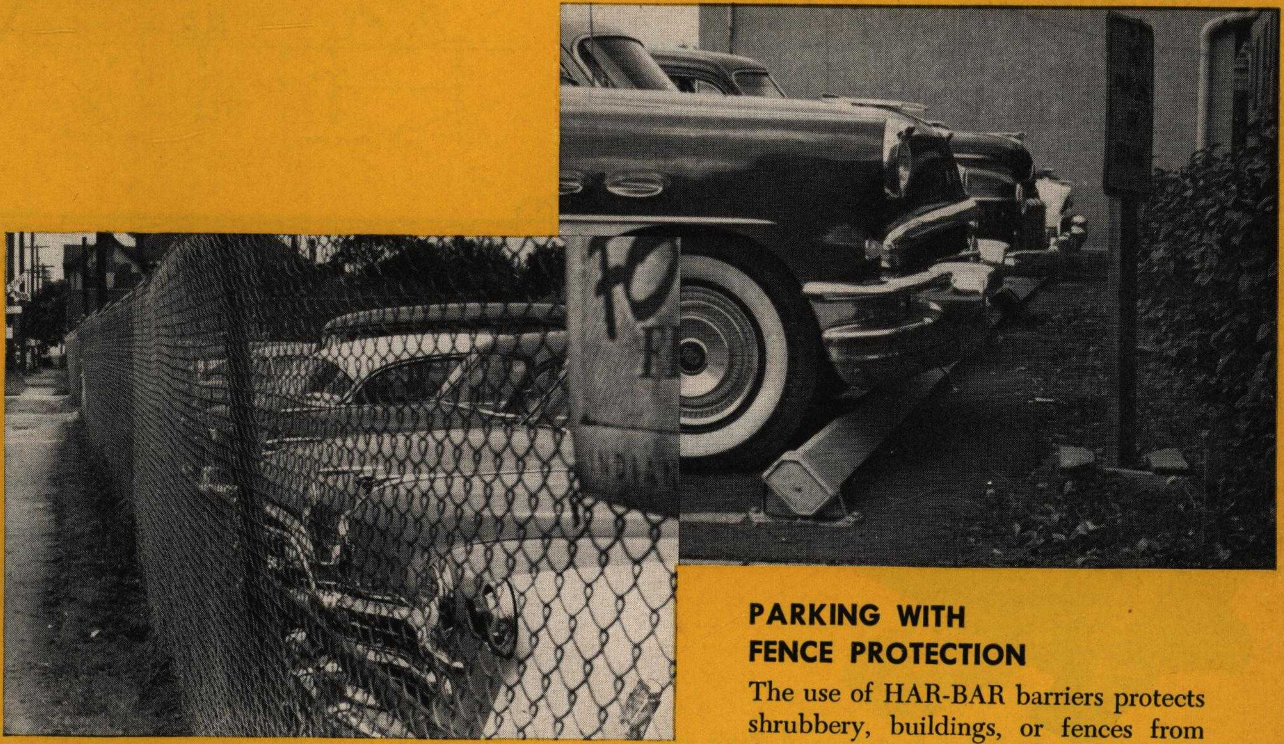
23P
Ha

A.I.A. File No. 14A

HAR-BAR



PARKING BARRIERS



PARKING WITH FENCE PROTECTION

The use of HAR-BAR barriers protects shrubbery, buildings, or fences from damage by improper parking.

PARKING WITHOUT FENCE PROTECTION

Without fence protection, cars can be parked against the fence causing bent posts and damaged wire.

HARRIS BARRIER, INC.

Indianapolis, Indiana

HAR-BAR
PARKING BARRIERS

Easy Installation . . . just drive in the spikes. Har-Bar holds to any surface; black top, concrete, macadam, gravel, sand or cinders.

Portable . . . Har-Bar's exclusive square twisted spikes may be removed and used elsewhere with no residual damage to the parking lot surface.

Performance . . . automobiles cannot move Har-Bars because they engage the car wheel and the thrust is down. There is no shear.

Durable . . . cast alloy saddles are maintenance-free. All timbers supplied by Har-Bar are treated with Pentachlorophenol for water repellency and have a penetrating stain for long life with no maintenance.

Attractive . . . stained wood timbers look good in any setting. They may be painted to match or contrast with surroundings.

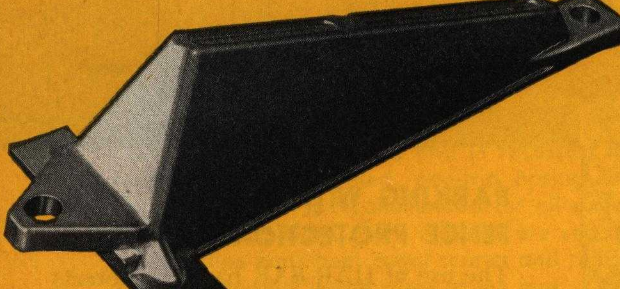
Convenience . . . Har-Bars always stop cars against the tire, preventing shock, and they are low enough to clear bumper guards.

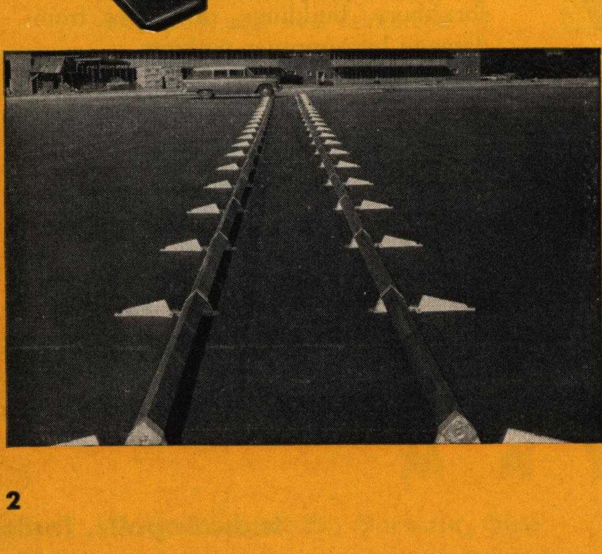
Uses . . . wherever orderly parking is desired, with or without attendants or meters. Can be used for all types of parking lots, at airports, drive-in restaurants, industry, business, municipal or private.

Planning Service . . . Har-Bar engineers study each proposed lot individually and plan the most efficient parking arrangement possible. Inquiries are always welcome. Send us your parking problems for recommended layouts, type of barriers, and parking specifications.

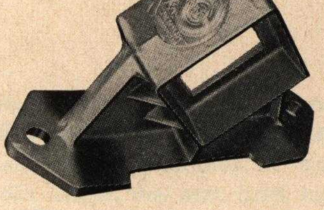
space marker

Harris Barrier space markers will hold firmly to the ground or any parking lot surface. They are efficient parking guides where the parking lot surface will not permit striping. Space markers are simple to install and can be easily moved to permit revision of parking arrangement at any time. They are made of durable cast alloy; finished in traffic yellow for maximum visibility.

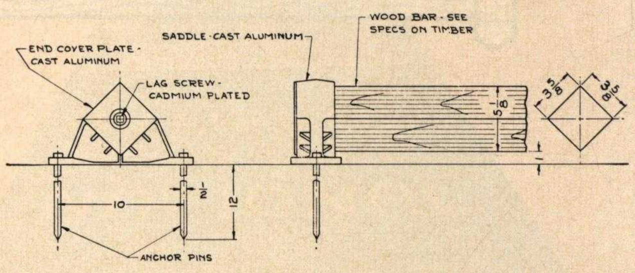


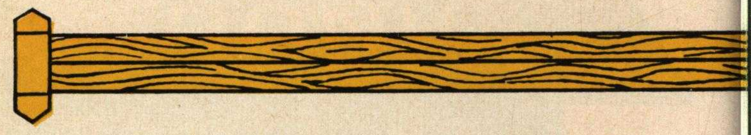


model 44

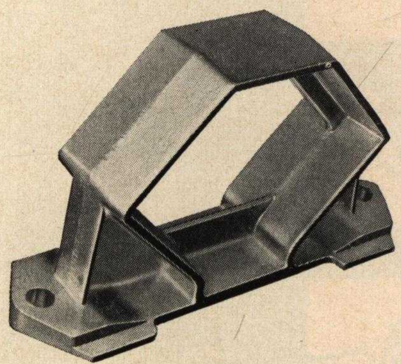


Model 44 is the most popular for passenger car parking. Sturdy cast alloy brackets are designed with ribs under the lateral to give additional strength. The extra wide shoes provide natural balance. These barriers can be used to prevent car bumpers from extending over sidewalks, where they would inconvenience pedestrians, yet every car can be parked near the building entrance.

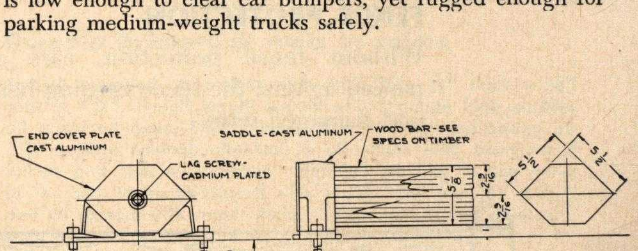

END COVER PLATE - CAST ALUMINUM
SADDLE - CAST ALUMINUM
WOOD BAR - SEE SPECS ON TIMBER
LAG SCREW - CADMIUM PLATED
5 1/8
3 5/8
3 5/8
1
1/2
10
12
ANCHOR PINS



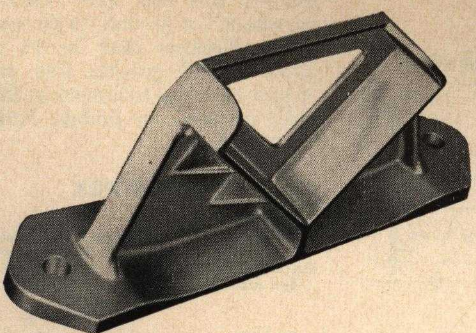
model 66



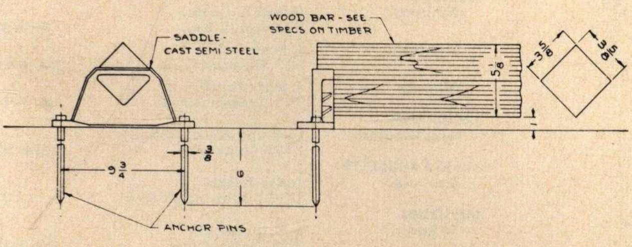
For passenger cars and medium weight trucks. Model 66 is ideal for commercial use where both cars and small trucks are parked. It is used with a 6" x 6" milled timber that is low enough to clear car bumpers, yet rugged enough for parking medium-weight trucks safely.


END COVER PLATE CAST ALUMINUM
SADDLE - CAST ALUMINUM
WOOD BAR - SEE SPECS ON TIMBER
LAG SCREW - CADMIUM PLATED
5 1/8
2 9/16
2 9/16
1
5 1/2
5 1/2
5/8
11
12
ANCHOR PINS

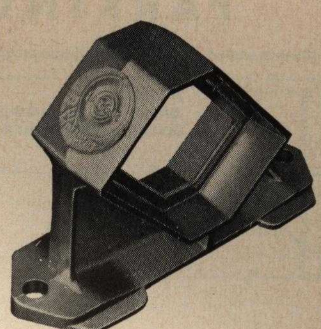
model 44SU



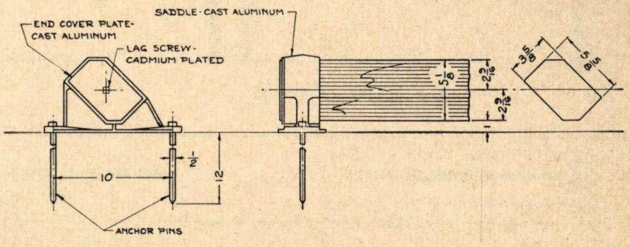
This versatile single unit parking barrier is excellent for drive-ins, super markets and other lots that require open aisles between cars. Model 44SU may be placed at any angle to permit workable nested parking on lots too narrow for right angle parking. Two wheel engagement of every car helps maintain orderly rows.

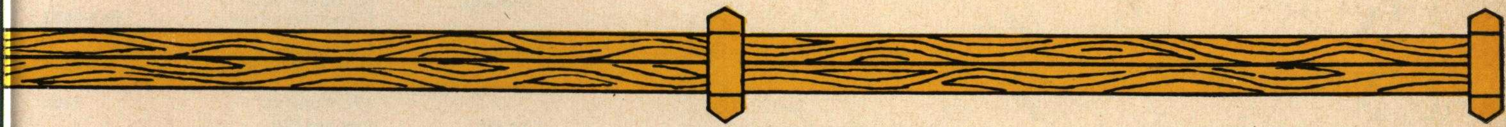

SADDLE-CAST SEMI STEEL
WOOD BAR - SEE SPECS ON TIMBER
9 3/4
3/8
6
1
ANCHOR PINS

model 46

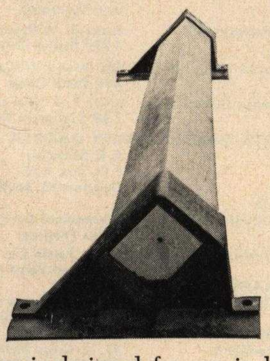


Har-Bar Model 46 with a 4" x 6" timber provides a convenient guide to parking plus dependable protection for sidewalks. The raised bar is easy to clean around and under —an important factor in parking lot maintenance. Model 46 will serve cars and light trucks at a competitive price. It can be combined with other models for an attractive, easily accessible parking lot.

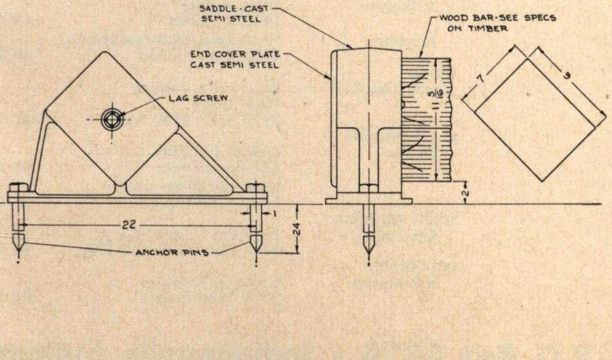

END COVER PLATE-CAST ALUMINUM
LAG SCREW-CADMIUM PLATED
SADDLE-CAST ALUMINUM
10
1/2
12
ANCHOR PINS



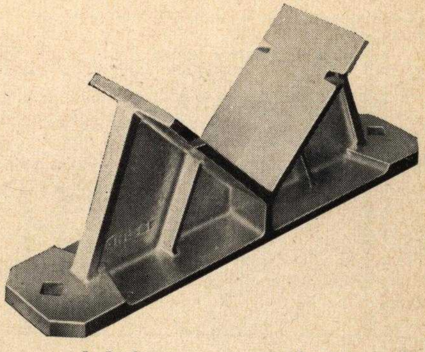
model 79



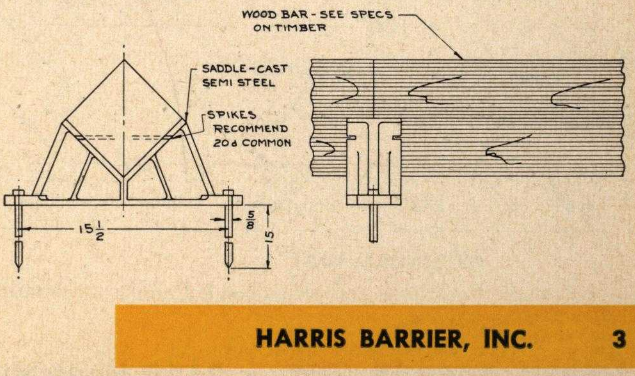
This rugged barrier is designed for use in bus or truck parking areas. The cast, semi-steel brackets support 7" x 9" timbers, both made to withstand hard use and extra long wear. Barriers may be moved whenever necessary with no expense or damage to the lot surface.


SADDLE-CAST SEMI STEEL
END COVER PLATE CAST SEMI STEEL
LAG SCREW
WOOD BAR-SEE SPECS ON TIMBER
7
9
22
1
24
2
ANCHOR PINS

model 880T

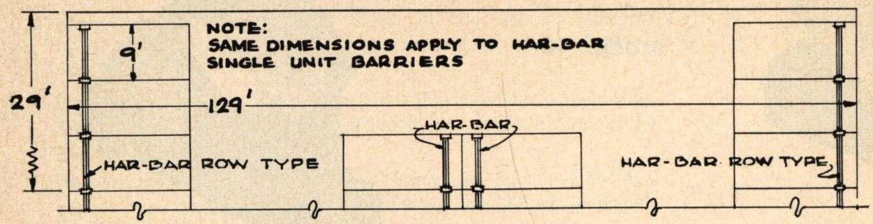


Model 880T is recommended for use at truck terminals, parks, or wherever maximum strength is needed. The sturdy open saddle will hold any size timber 6" x 6" or larger. Round poles, notched for saddles, may be used to blend in with surroundings.

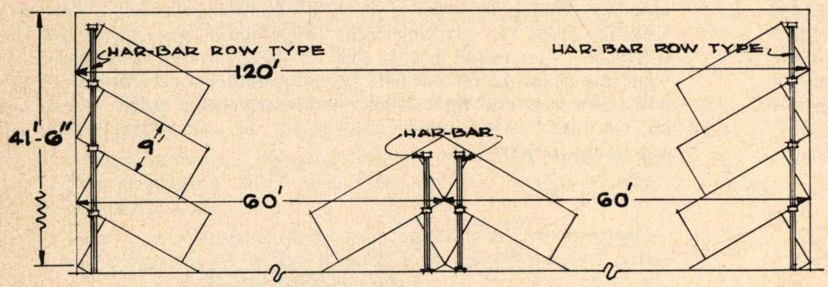

WOOD BAR - SEE SPECS ON TIMBER
SADDLE-CAST SEMI STEEL
SPIKES RECOMMEND 20d COMMON
15 1/2
15

HAR-BAR
PARKING BARRIERS

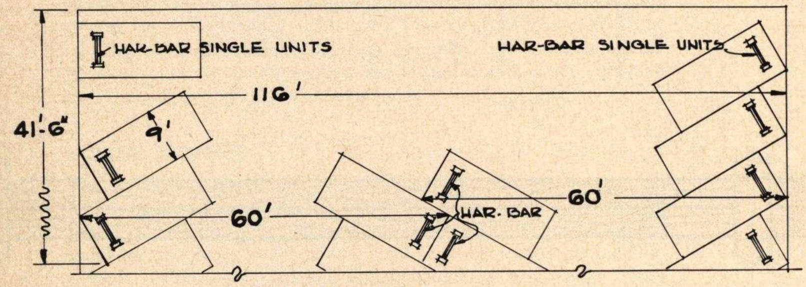
Recommended optimum requirements, perimeter and island parking for passenger cars:


NOTE:
SAME DIMENSIONS APPLY TO HAR-BAR SINGLE UNIT BARRIERS
9'
29'
129'
HAR-BAR
HAR-BAR ROW TYPE
HAR-BAR ROW TYPE

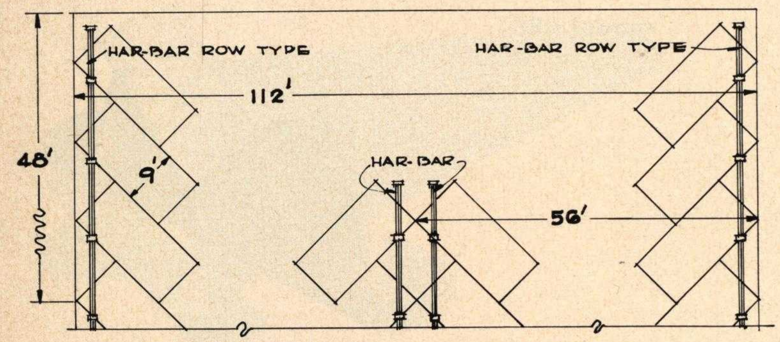
90° ROW TYPE


HAR-BAR ROW TYPE
HAR-BAR ROW TYPE
120'
41'-6"
9'
HAR-BAR
60'
60'

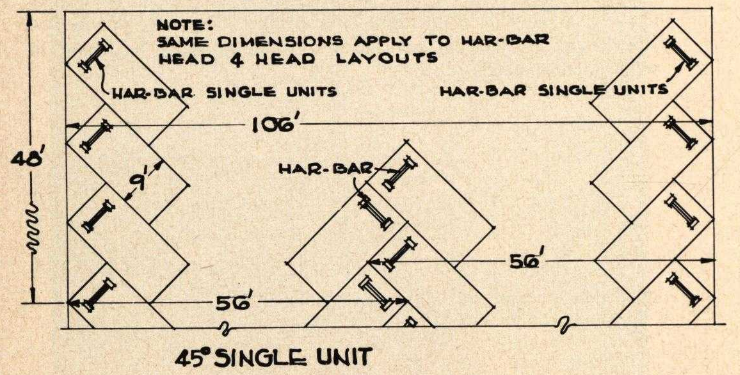
60° ROW TYPE


HAR-BAR SINGLE UNITS
HAR-BAR SINGLE UNITS
116'
41'-6"
9'
60'
HAR-BAR
60'

60° SINGLE UNIT


HAR-BAR ROW TYPE
HAR-BAR ROW TYPE
112'
48'
9'
HAR-BAR
56'

45° ROW TYPE


NOTE:
SAME DIMENSIONS APPLY TO HAR-BAR HEAD 4 HEAD LAYOUTS
HAR-BAR SINGLE UNITS
HAR-BAR SINGLE UNITS
106'
48'
9'
HAR-BAR
56'
56'

45° SINGLE UNIT

Write for detailed drawings and recommended minimum requirements for other parking spacing.

specifications

Parking barriers shall be wheel stopping type Har-Bar Model ______ or equal, using treated wood timbers and cast alloy saddles secured to the pavement (or ground) with square twisted ground spikes. Timbers shall be #1 or better (15% #2 allowed) old growth, free of heart center, fir. A four hour dip treatment in 5% Pentachlorophenol shall be used on timber. Parking shall be at a ___° angle.

representatives

ARIZONA		
Phoenix:	Haskell-Thomas, Inc. 3808 N. Central Ave.	CR 7-5488
CALIFORNIA		
San Francisco:	Sheral Company Room 312 24 California St.	JO 7-2455
Berkeley:	Hawkins and Hawkins 1255 East Shore Highway	LA 5-8500
CANADA		
Montreal:	Insulfoam Ltd. 547 St. Roch St.	CR 2-8338
CONNECTICUT		
North Haven:	Copeland Co. 381 State St.	CH 8-4479
FLORIDA		
Daytona Beach:	E. M. Reynolds Co. 141 Campbell St.	CL 3-3671
GEORGIA		
Atlanta:	F. Graham Williams Co. 1690 Monroe Drive N. E.	TR 6-1084
ILLINOIS		
Elmhurst:	Leland S. Cooley 393 Prairie Ave.	TE 4-3806
Evanston:	J. Mark Terrill 607 Sheridan Road	DA 8-9224
Wilmette	J. Mark Terrill 726 Greenleaf Ave.	AL 1-9144
LOUISIANA		
New Orleans:	Louisiana Assoc. Prod. Co. 2708 Coliseum	MA 5060
MASSACHUSETTS		
Danvers:	Lester Phinney 10–12 Washington St. Ext.	0719
MISSOURI		
St. Louis:	E. R. Hensel Co. 5060 Arsenal Ave.	TO 5-1900
NEW JERSEY		
Hohokus:	Leo Ogden Fogler 8 Powderhorn Road	GI 5-2552
NEW YORK		
Elmira:	Tracy J. Bushnell 1531 West Church	2-3569
Saratoga Springs:	Noonan and Co. 139 Walnut St.	1105
Vestal:	Dyer and Fitts Willow Point	
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Atlanta:	F. Graham Williams Co. (see Georgia)	
Charlotte N.C.	Frank D. Williams 1226 Salem Drive	FR 6-1149
Rocky Mount N.C.	Joe Speed Williams 450 Duke Circle	6-5810
Rocky Mount N.C.	Mark P. J. Williams 728 Sycamore St.	6-5810
NORTH DAKOTA, SOUTH DAKOTA AND MONTANA		
	J. E. Schlatter P.O. Box 406 Deadwood, South Dakota	
OHIO		
Cleveland:	Mechanical Equipment 3100 Prospect	EN 1-6212
Elyria:	Elyria Fence Co. Oberland Road and West Ave.	2815
OKLAHOMA		
Oklahoma City:	George Townsend Co. 1115 Cravens Bldg.	2-8108
OREGON		
Portland:	W. H. Cress Building Material 201 Concord Bldg.	CA 8-1714
PENNSYLVANIA		
Lansdale:	Keystone Hi-Way Traffic Equipment RFD 2 P.O. Box 483	
Pittsburgh: **(Emsworth)**	Koontz Equipment Co. 325 Ohio River Blvd.	RO 1-8696
Philadelphia:	Metal Construction and Fabrication Co. 18 West Chelten Ave.	GE 8-6441
TEXAS		
Arlington:	Stripe A Zone 1210 N. Collins	CR 5-1161
Houston:	Texas Associated Products Co. 6403 Rupley Circle	MI 5-8618
UTAH		
Salt Lake City:	Raymond A. Johnson Plasti Spray 2935 West 3650 South	AM 6-9443
WASHINGTON		
Seattle:	Clifford De Witte 851 Poplar Place	EA 4-1253
	Northwest Builders, Inc. 1120 West Ewing	AT 4-4700
WEST VIRGINIA		
Charleston:	Fireproof Products Co. Suite 422 Professional Bldg.	DI 2-8111
WISCONSIN		
Milwaukee:	Oscar O. Baddeley 5019 West Galena	GL 3-4353

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